内容审核

SDK 参考

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安全声明

漏洞处理流程

华为公司对产品漏洞管理的规定以"漏洞处理流程"为准，该流程的详细内容请参见如下网址：
https://www.huawei.com/cn/psirt/vul-response-process
如企业客户须获取漏洞信息，请参见如下网址：
https://securitybulletin.huawei.com/enterprise/cn/security-advisory

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1 内容审核 SDK 简介

内容审核概述

内容审核（Content Moderation），是基于图像、文本、视频的检测技术，可自动检测涉黄等内容，对用户上传的图片、文字进行内容审核，帮助客户降低业务违规风险。

内容审核以开放API（Application Programming Interface，应用程序编程接口）的方式提供给用户，用户通过实时访问和调用API获取推理结果，帮助用户自动采集关键数据，打造智能化业务系统，提升业务效率。

SDK 概述

内容审核软件开发工具包（Content Moderation Software Development Kit，简称Moderation SDK）是对内容审核提供的REST API进行的封装，以简化用户的开发工作。用户通过添加依赖或下载的方式调用API即可实现使用内容审核业务能力的目的。

接口与 API 对应关系

内容审核接口与API对应关系请参见表1-1。

表 1-1 接口与 API 对应关系表

接口	API
文本内容审核（V2）	POST /v2/{project_id}/moderation/text
图像内容审核（V2）	POST /v2/{project_id}/moderation/image
图像内容审核（批量）	POST /v2/{project_id}/moderation/image/batch
图像内容审核（异步批量）-任务提交	POST /v2/{project_id}/moderation/image/batch/jobs
图像内容审核（异步批量）-处理结果查询	GET /v2/{project_id}/moderation/image/batch
图像内容审核（异步批量）-任务列表查询	GET /v2/{project_id}/moderation/image/batch/jobs

接口	API
创建视频内容审核作业	POST /v3/{project_id}/moderation/video/jobs
查询视频内容审核作业	GET /v3/{project_id}/moderation/video/jobs/{job_id}

2 申请服务

申请内容审核服务的具体操作步骤请参见《内容审核API参考》的"**申请服务**"章节。

3 获取认证信息

步骤1 登录华为云管理控制台。

步骤2 鼠标移动至用户名处，在下拉列表中单击"我的凭证"。

步骤3 选择"访问密钥"页签，单击"新增访问秘钥"按钮。

步骤4 通过邮箱或者手机进行验证，输入对应的验证码。

步骤5 单击"确定"，下载认证账号的AK/SK，AK/SK数据会以本地文件的形式保存，请妥善保管。

----结束

4 准备环境

在使用内容审核SDK时，各语言需要准备的环境 参照表4-1。

表 4-1 开发环境

开发语言	准备项	说明
JAVA	安装JDK	JAVA环境开发配置，支持 Java JDK 1.8 及其以上版本，推荐通过Maven 安装依赖的方式使用JAVA版本SDK。
PYTHON	安装python	python版本sdk支持python3.3以上。
.NET	安装.NET	.NET Standard 2.0 及其以上版本或C# 4.0 及其以上版本。
GO	安装GO	sdk支持 go 1.14 及以上版本。
PHP	安装PHP	PHP版本sdk包推荐使用php.7.x版本。
Node.js	安装Node.js	Node.js版本sdk支持Node.js 8.x版本。

5 使用 SDK（Java）

5.1 Java 开发环境配置

本SDK包要求的JDK版本必须高于JDK8版本，以下步骤以win7环境配置JDK8 64位为例，若已经下载JDK并配置好环境请忽略本章节。

步骤1 单击**下载JDK文件**。

步骤2 下载完成后按照提示安装，位置自选，比如安装到本地"C:\Program Files\Java\jdk1.8.0_131"。

步骤3 配置Java环境变量：右键"计算机 >属性 >高级系统设置 >环境变量"，进行如下操作。

1. 新建系统变量JAVA_HOME，变量值为实际JDK安装位置。

2. 在Path中添加"%JAVA_HOME%\bin;%JAVA_HOME%\jre\bin"（注意用英文分号分隔）。

3. 新建系统变量CLASSPATH，变量值为"%JAVA_HOME%\lib\dt.jar;%JAVA_HOME%\lib\tools.jar"。

步骤4 打开命令行窗口，输入"java -version"，显示如**图5-1**表示配置成功。

图 5-1 Java 版本信息


```
C:\>java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)
```

----结束

5.2 SDK 获取和安装

JAVA版本，内容审核服务推荐您通过 Maven 安装依赖的方式使用华为云 Java SDK：

步骤1 首先您需要在您的操作系统中 **下载** 并 **安装**Maven 。

步骤2 安装配置完成后，输入命令"mvn -v"，显示如下图 Maven版本信息 表示成功。

```
D:\>mvn -v
D:\
Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-11T00:41:47+08:00)
Maven home: D:\maven\apache-maven-3.3.9\bin\..
Java version: 1.8.0_262, vendor: Huawei Technologies Co., Ltd
Java home: D:\develop\jdk_1.8\jre
Default locale: zh_CN, platform encoding: GBK
OS name: "windows 10", version: "10.0", arch: "amd64", family: "dos"
```

步骤3 Maven安装完成后，可根据开发需要直接引入依赖到已有的Maven工程或先用开发工具创建Maven工程。

创建项目以idea开发工具为例(已有Maven工程可跳过此步骤)：

1. 打开IntelliJ IDEA 开发工具。

2. 单击File - New - project...。

3. 在New Project弹窗 单击-Maven-单击Next。

4. 输入GroupId和ArtifactId，单击Next。

5. 输入Project name 和 Project location，单击Finish。

步骤4 在Maven 项目的 pom.xml 文件加入相应版本的依赖项即可。

以引入3.0.55版本的内容审核SDK为例。

```
<dependency>
    <groupId>com.huaweicloud.sdk</groupId>
    <artifactId>huaweicloud-sdk-moderation</artifactId>
    <version>3.0.55</version>
</dependency>
```

示例代码因需要输出结果更直观，所以新增fastjson的依赖（如接入不涉及此项，可忽略并在示例代码中删除相关内容），依赖如下：

```
<dependency>
    <groupId>com.alibaba</groupId>
    <artifactId>fastjson</artifactId>
    <version>1.2.70</version>
</dependency>
```

----结束

5.3 SDK 调用示例

5.3.1 文本审核

5.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用TextDetectionDataReq类的withText方法配置待检测的文本信息，配置完成后运行即可。

   ```
   package com.huaweicloud.sdk.test;

   import com.huaweicloud.sdk.core.auth.ICredential;
   import com.huaweicloud.sdk.core.auth.BasicCredentials;
   import com.huaweicloud.sdk.core.exception.ConnectionException;
   import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
   import com.huaweicloud.sdk.core.exception.ServiceResponseException;
   ```

```
import com.huaweicloud.sdk.core.region.Region;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunTextModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
                .withCredential(auth)
                .withRegion(ModerationRegion.valueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加
坡：ap-southeast-3。
                .build();
        RunTextModerationRequest request = new RunTextModerationRequest();
        TextDetectionReq body = new TextDetectionReq();
        TextDetectionDataReq databody = new TextDetectionDataReq();
        databody.withText("test");
        body.withData(databody);
        body.withEventType("comment");
        request.withBody(body);
        try {
            RunTextModerationResponse response = client.runTextModeration(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
class RunTextModerationResponse {
    requestId: 308b6ad2740e51de73597da9fdc94ee1
    result: class TextDetectionResult {
        suggestion: pass
        label: normal
        details: []
    }
}
```

5.3.1.2 文本内容审核（V2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用TextDetectionItemsReq类的withText方法配置待检测的文本
信息，配置完成后运行即可。

```
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

```java
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunTextModerationResponse;
import com.huaweicloud.sdk.moderation.v2.model.TextDetectionReq;
import com.huaweicloud.sdk.moderation.v2.model.RunTextModerationRequest;
import com.huaweicloud.sdk.moderation.v2.model.TextDetectionItemsReq;

import java.util.List;
import java.util.ArrayList;

public class RunTextModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
                .withCredential(auth)
                .withRegion(ModerationRegion.valueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加
坡：ap-southeast-3。
                .build();
        RunTextModerationRequest request = new RunTextModerationRequest();
        TextDetectionReq body = new TextDetectionReq();
        List<TextDetectionItemsReq> listbodyItems = new ArrayList<>();
        listbodyItems.add(
            new TextDetectionItemsReq()
                .withText("text")    //此处输入待检测文本
                .withType("content")
        );
        List<String> listbodyCategories = new ArrayList<>();
        listbodyCategories.add("abuse");
        listbodyCategories.add("porn");
        listbodyCategories.add("contraband");
        listbodyCategories.add("flood");
        body.withItems(listbodyItems);
        body.withCategories(listbodyCategories);
        request.withBody(body);
        try {
            RunTextModerationResponse response = client.runTextModeration(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSON(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
200
{"result":{"suggestion":"block","detail":{"contraband":["亚砷酸钾"],"porn":["luo聊
"]}},"httpStatusCode":200}
```

5.3.2 图像审核

5.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用ImageDetectionReq类的withUrl或withImage方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

```java
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class CheckImageModerationSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        String projectId = "project_id";

        ICredential auth = new BasicCredentials()
            .withProjectId(projectId)
            .withAk(ak)
            .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
            .build();
        CheckImageModerationRequest request = new CheckImageModerationRequest();
        ImageDetectionReq body = new ImageDetectionReq();
        List<String> listbodyCategories = new ArrayList<>();
        listbodyCategories.add("porn");
        body.withUrl("http://www.xxxx.xxxx");
        body.withCategories(listbodyCategories);
        body.withEventType("head_image");
        request.withBody(body);
        try {
            CheckImageModerationResponse response = client.checkImageModeration(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
class CheckImageModerationResponse {
    requestId: 63b6b19eb9fa1db05d2f87f970472995
    result: class ImageDetectionResult {
        suggestion: block
        category: image_text
        details: [class ImageDetectionResultDetail {
            suggestion: block
            category: image_text
            confidence: 1.0
            faceLocation: null
            qrLocation: class QRLocationDetail {
                topLeftX: 74
                topLeftY: 66
                bottomRightX: 151
                bottomRightY: 142
            }
            qrContent: http://xxxxxxxxxx
            segments: null
            label: qr_code
        }, class ImageDetectionResultDetail {
            suggestion: block
            category: image_text
            confidence: 0.98779297
            faceLocation: null
            qrLocation: null
            qrContent: null
            segments: null
            label: ad
        }, class ImageDetectionResultDetail {
            suggestion: block
            category: image_text
            confidence: 1.0
            faceLocation: null
            qrLocation: null
            qrContent: null
            segments: null
            label: qr_code
        }]
        ocrText: xxxxxxxxx
    }
}
```

5.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用ImageDetectionReq类的withUrl或withImage方法配置图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

```
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunImageModerationRequest;
import com.huaweicloud.sdk.moderation.v2.model.ImageDetectionReq;
import com.huaweicloud.sdk.moderation.v2.model.RunImageModerationResponse;

import java.util.List;
import java.util.ArrayList;

public class RunImageModerationSolution {
```

```java
public static void main(String[] args) {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
    String ak = System.getenv("HUAWEICLOUD_SDK_AK");
    String sk = System.getenv("HUAWEICLOUD_SDK_SK");
    ICredential auth = new BasicCredentials()
        .withAk(ak)
        .withSk(sk);
    ModerationClient client = ModerationClient.newBuilder()
        .withCredential(auth)
        .withRegion(ModerationRegion.valueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
        .build();
    RunImageModerationRequest request = new RunImageModerationRequest();
    ImageDetectionReq body = new ImageDetectionReq();
    List<ImageDetectionReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
    listbodyCategories.add(ImageDetectionReq.CategoriesEnum.fromValue("porn"));
    body.withCategories(listbodyCategories);
    body.withModerationRule("default");
    body.withUrl("https://XXX.jpg");  //此处替换为公网可以访问的图片地址
    request.withBody(body);
    try {
        RunImageModerationResponse response = client.runImageModeration(request);
        System.out.println(response.getHttpStatusCode());
        System.out.println(JSON.toJSONString(response));
    } catch (ConnectionException e) {
        e.printStackTrace();
    } catch (RequestTimeoutException e) {
        e.printStackTrace();
    } catch (ServiceResponseException e) {
        e.printStackTrace();
        System.out.println(e.getHttpStatusCode());
        System.out.println(e.getErrorCode());
        System.out.println(e.getErrorMsg());
    }
}
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
200
{"httpStatusCode":200,"result":{"categorySuggestions":{"porn":"pass"},"detail":{"porn":
[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}],"{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4,},{"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]},"suggestion":"pass"}}

Process finished with exit code 0
```

5.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用ImageBatchModerationReq 类的withUrls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```java
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
```

```
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunImageBatchModerationRequest;
import com.huaweicloud.sdk.moderation.v2.model.ImageBatchModerationReq;
import com.huaweicloud.sdk.moderation.v2.model.RunImageBatchModerationResponse;

import java.util.List;
import java.util.ArrayList;

public class RunImageBatchModerationSolution {
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
            .build();
        RunImageBatchModerationRequest request = new RunImageBatchModerationRequest();
        ImageBatchModerationReq body = new ImageBatchModerationReq();
        List<ImageBatchModerationReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
        listbodyCategories.add(ImageBatchModerationReq.CategoriesEnum.fromValue("porn"));
        List<String> listbodyUrls = new ArrayList<>();
        listbodyUrls.add("https://XXX.jpg");//此处替换为公网可以访问的图片地址
        body.withThreshold((double) 0);
        body.withCategories(listbodyCategories);
        body.withUrls(listbodyUrls);
        request.withBody(body);
        try {
            RunImageBatchModerationResponse response = client.runImageBatchModeration(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核批量**提交的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":[{"categorySuggestions":{"porn":"pass"},"detail":{"porn":
[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}]},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4,{"confidence":1.0E-4,"label":"kidnap"},
{"confidence":6.0E-4,"label":"riot"},{"confidence":1.0E-4,"label":"parade"},
{"confidence":2.0E-4,"label":"corpse"},{"confidence":1.0E-4,"label":"bloody"},
{"confidence":1.0E-4,"label":"knife"},{"confidence":1.0E-4,"label":"gun"},
{"confidence":2.0E-4,"label":"military_weapon"},{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]},"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg"}]}
```

5.3.2.4 图像内容审核（异步批量）（V2）

5.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用RunTaskSumbitRequest 类的withUrls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```java
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunTaskSumbitRequest;
import com.huaweicloud.sdk.moderation.v2.model.TaskSumbitReq;
import com.huaweicloud.sdk.moderation.v2.model.RunTaskSumbitResponse;

import java.util.List;
import java.util.ArrayList;

public class RunTaskSumbitSolution {
    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
            .withAk(ak)
            .withSk(sk);
        ModerationClient client = ModerationClient.newBuilder()
            .withCredential(auth)
            .withRegion(ModerationRegion.valueOf("xxx"))   //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
            .build();
        RunTaskSumbitRequest request = new RunTaskSumbitRequest();
        TaskSumbitReq body = new TaskSumbitReq();
        List<TaskSumbitReq.CategoriesEnum> listbodyCategories = new ArrayList<>();
        listbodyCategories.add(TaskSumbitReq.CategoriesEnum.fromValue("porn"));
        List<String> listbodyUrls = new ArrayList<>();
        listbodyUrls.add("https://XXX.jpg"); //此处替换为公网可以访问的图片地址
        body.withCategories(listbodyCategories);
        body.withUrls(listbodyUrls);
        request.withBody(body);
        try {
            RunTaskSumbitResponse response = client.runTaskSumbit(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，异步批量**任务提交**的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}

Process finished with exit code 0
```

5.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCheckResultRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```java
package com.huaweicloud.sdk.test;

import com.alibaba.fastjson.JSON;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v2.ModerationClient;
import com.huaweicloud.sdk.moderation.v2.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v2.model.RunCheckResultRequest;
import com.huaweicloud.sdk.moderation.v2.model.RunCheckResultResponse;

public class RunCheckResultSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");
        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
                .withCredential(auth)
                .withRegion(ModerationRegion.valueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
                .build();
        RunCheckResultRequest request = new RunCheckResultRequest();
        request.withJobId("7f6a5881-7774-40cf-903b-4548914b55a3");
        try {
            RunCheckResultResponse response = client.runCheckResult(request);
            System.out.println(response.getHttpStatusCode());
            System.out.println(JSON.toJSONString(response));
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，异步批量**查询任务**的结果输出到控制台。

```
200
{"httpStatusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items":[{"categorySuggestions":
{
"porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
```

{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},{"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/
terrorism.jpg"}],"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3","status":"finish","updateTime":"202
1-08-13T03:46:30Z"}}

Process finished with exit code 0

5.3.3 视频审核

5.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```java
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

import java.util.List;
import java.util.ArrayList;

public class RunCreateVideoModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
                .withCredential(auth)
                .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
                .build();
        RunCreateVideoModerationJobRequest request = new RunCreateVideoModerationJobRequest();
        VideoCreateRequest body = new VideoCreateRequest();
        List<VideoCreateRequest.AudioCategoriesEnum> listbodyAudioCategories = new ArrayList<>();
        listbodyAudioCategories.add(VideoCreateRequest.AudioCategoriesEnum.fromValue("porn"));
        List<VideoCreateRequest.ImageCategoriesEnum> listbodyImageCategories = new ArrayList<>();
        listbodyImageCategories.add(VideoCreateRequest.ImageCategoriesEnum.fromValue("porn"));
        VideoCreateRequestData databody = new VideoCreateRequestData();
        databody.withUrl("http://xxx.xx.xxxx")
            .withFrameInterval(5.5f);
        body.withCallback("http://xxx.xx.xxxx");
```

```
        body.withAudioCategories(listbodyAudioCategories);
        body.withImageCategories(listbodyImageCategories);
        body.withEventType(VideoCreateRequest.EventTypeEnum.fromValue("default"));
        body.withData(databody);
        request.withBody(body);
        try {
            RunCreateVideoModerationJobResponse response =
client.runCreateVideoModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出创建视频内容审核作业提交的结果，**创建视频内容审核**结果输出到控制台。

```
class RunCreateVideoModerationJobResponse {
    requestId: 5e353de1badd90049a2ac3d2e3ee925e
    jobId: 01663171200_48ce5a21498e47af8f2a49773c3d0fce
}
```

5.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package com.huaweicloud.sdk.test;

import com.huaweicloud.sdk.core.auth.ICredential;
import com.huaweicloud.sdk.core.auth.BasicCredentials;
import com.huaweicloud.sdk.core.exception.ConnectionException;
import com.huaweicloud.sdk.core.exception.RequestTimeoutException;
import com.huaweicloud.sdk.core.exception.ServiceResponseException;
import com.huaweicloud.sdk.moderation.v3.region.ModerationRegion;
import com.huaweicloud.sdk.moderation.v3.*;
import com.huaweicloud.sdk.moderation.v3.model.*;

public class RunQueryVideoModerationJobSolution {

    public static void main(String[] args) {
        // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
        // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境
变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
        String ak = System.getenv("HUAWEICLOUD_SDK_AK");
        String sk = System.getenv("HUAWEICLOUD_SDK_SK");

        ICredential auth = new BasicCredentials()
                .withAk(ak)
                .withSk(sk);

        ModerationClient client = ModerationClient.newBuilder()
                .withCredential(auth)
                .withRegion(ModerationRegion.valueOf("xxx")) //把xxx替换成服务所在的区域，例如新加
坡：ap-southeast-3。
                .build();
        RunQueryVideoModerationJobRequest request = new RunQueryVideoModerationJobRequest();
        request.withJobId("jobId");
        try {
```

```
          RunQueryVideoModerationJobResponse response =
client.runQueryVideoModerationJob(request);
            System.out.println(response.toString());
        } catch (ConnectionException e) {
            e.printStackTrace();
        } catch (RequestTimeoutException e) {
            e.printStackTrace();
        } catch (ServiceResponseException e) {
            e.printStackTrace();
            System.out.println(e.getHttpStatusCode());
            System.out.println(e.getErrorCode());
            System.out.println(e.getErrorMsg());
        }
    }
}
```

2. 控制台输出查询视频内容审核作业的结果，**查询视频内容审核**结果输出到控制台。

```
class RunQueryVideoModerationJobResponse {
    requestId: a6dcb5c9f993efb977c8898e1ef91c87
    jobId: 01663171200_48ce5a21498e47af8f2a49773c3d0fce
    status: running
    requestParams: class VideoModerationResultRequestParams {
        data: class VideoModerationResultRequestParamsData {
            url: http://xxx.xx.xxxx
            frameInterval: 5
        }
        eventType: default
        imageCategories: [porn, image_text, terrorism]
        audioCategories: [ad, porn]
        callback: http://xxx.xx.xxxx
    }
    createTime: null
    updateTime: 2022-09-15T14:08:06.006Z
    result: null
}
```

6 使用 SDK（Python）

6.1 Python 开发环境配置

使用内容审核Python版本SDK包，需要您配置Python开发环境。

1. 从**Python官网**下载并安装合适的Python版本。请使用Python3.3以上版本，如下以Python3.7 版本为例进行说明。

2. 从**PyCharm官网**下载并安装最新版本。

3. 在PyCharm开发工具中配置Python环境，在菜单依次选择"File > Settings > Project Interpreter"。

4. 在页面上方选择您的Python安装路径，如图 **PyCharm配置python环境所示**。选择好目标Python之后单击页面下方"Apply"完成配置。

图 **6-1** PyCharm 配置 python 环境
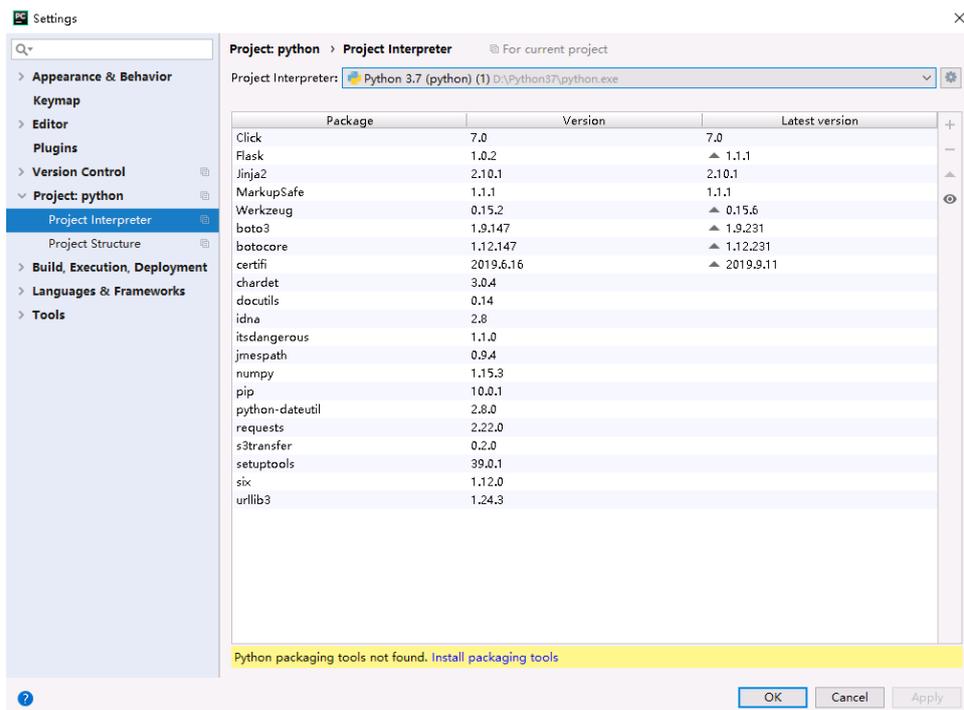
6.2 Python 语言 SDK 获取和安装

python语言SDK的获取和安装推荐使用pip命令进行安装或使用pycharm进行安装，需要安装huaweicloudsdkcore包以及huaweicloudsdkmoderation，参考方法如下：

```
pip 安装：
# 安装核心库
pip install huaweicloudsdkcore

# 安装Moderation服务库
pip install huaweicloudsdkmoderation
```

使用pycharm安装，步骤如下：

1. 打开pycharm，单击File -> Settings…。

2. 单击Python Interpreter -> 单击+。

3. 单击+，分别搜索huaweicloudsdkcore及hua如下图所示：安装内容审核.NEweicloudsdkmoderation，搜索到包内容单击左下角Install Package完成安装。

图 **6-2** pycharm 安装内容审核 python 版本 sdk 包
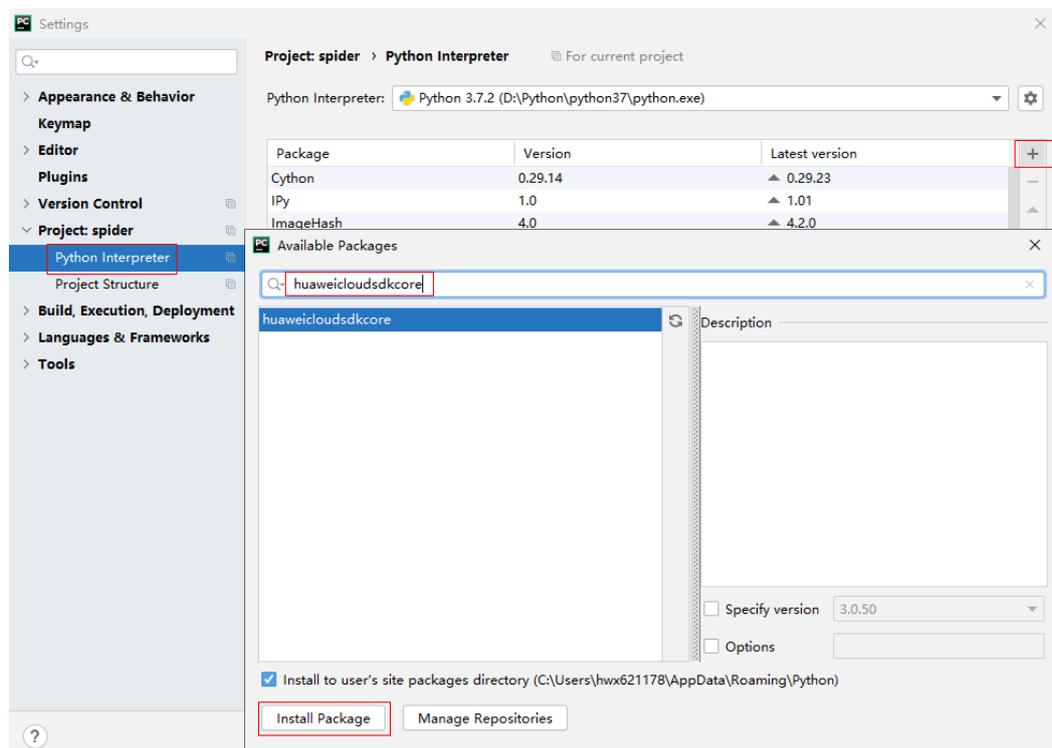
6.3 SDK 调用示例

6.3.1 文本审核

6.3.1.1 文本内容审核（v3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中修改TextDetectionDataReq的text值配置待检测的文本信息，配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx"))\   //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = RunTextModerationRequest()
        databody = TextDetectionDataReq(
            text="test"
        )
        request.body = TextDetectionReq(
            data=databody,
            event_type="comment"
        )
        response = client.run_text_moderation(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
{"request_id": "d81702cfd3599e103030c3d52d6f955f", "result": {"suggestion": "pass", "label":
"normal", "details": []}}
```

6.3.1.2 文本内容审核（v2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中修改TextDetectionItemsReq的text值配置待检测的文本信息，配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import
ModerationClient,RunTextModerationRequest,TextDetectionItemsReq,TextDetectionReq
import os


if __name__ == "__main__":
```

```
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \    //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = RunTextModerationRequest()
        listTextDetectionItemsReqItemsbody = [
            TextDetectionItemsReq(
                text="text",  //此处输入待检测文本
                type="content"
            )
        ]
        listTextDetectionReqCategoriesbody = [
            "porn",
            "abuse",
            "contraband",
            "flood"
        ]
        request.body = TextDetectionReq(
            items=listTextDetectionItemsReqItemsbody,
            categories=listTextDetectionReqCategoriesbody
        )
        response = client.run_text_moderation(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
200
{"result": {"suggestion": "block", "detail": {"contraband": ["亚砷酸钾"], "porn": ["luo聊"]}}}}
```

6.3.2 图像审核

6.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageDetectionReq的url或image方法配置图像信息
   （image和url参数二选一），示例中以url为例配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
```

```
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    projectId = "project_id"

    credentials = BasicCredentials(ak, sk, projectId) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \   //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = CheckImageModerationRequest()
        listCategoriesbody = [
            "porn"
        ]
        request.body = ImageDetectionReq(
            url="http://www.xxxx.xxxx",
            categories=listCategoriesbody,
            event_type="head_image"
        )
        response = client.check_image_moderation(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category":
"image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0,
"qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142},
"qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category":
"image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category":
"image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}
```

6.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageDetectionReq的url或image方法配置图像信息
   （image和url参数二选一），示例中以url为例配置完成后运行即可。

```python
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import
ModerationClient,RunImageModerationRequest,ImageDetectionReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \   //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()
```

```
try:
    request = RunImageModerationRequest()
    listImageDetectionReqCategoriesbody = [
        "porn",
    ]
    request.body = ImageDetectionReq(
        threshold=0,
        categories=listImageDetectionReqCategoriesbody,
        moderation_rule="default",
        url="https://XXX.jpg"  //此处替换为公网可以访问的图片地址
    )
    response = client.run_image_moderation(request)
    print(response.status_code)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
200
{"result": {"detail": { "porn": [{"confidence": 0.9883, "label": "normal"}, {"confidence": 0.0039, "label": "porn"}, {"confidence": 0.0078, "label": "sexy"}]}, "suggestion": "pass", "category_suggestions": {  "porn": "pass"}}}
Process finished with exit code 0
```

6.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageBatchModerationReq的urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import
ModerationClient,RunImageBatchModerationRequest,ImageBatchModerationReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")

    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \  //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
        .build()

    try:
        request = RunImageBatchModerationRequest()
        listImageBatchModerationReqCategoriesbody = [
            "porn",
        ]
        listImageBatchModerationReqUrlsbody = [
            "https://XXX.jpg"   //此处替换为公网可以访问的图片地址
        ]
        request.body = ImageBatchModerationReq(
```

```
            threshold=0,
            categories=listImageBatchModerationReqCategoriesbody,
            urls=listImageBatchModerationReqUrlsbody
        )
        response = client.run_image_batch_moderation(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，**图像内容审核批量任务**提交的结果输出到控制台。

```
200
{'result': [{'category_suggestions': {

                                'porn': 'pass',
                                },
            'detail': {
                    'porn': [{'confidence': 0.9883, 'label': 'normal'},
                            {'confidence': 0.0039, 'label': 'porn'},
                            {'confidence': 0.0078, 'label': 'sexy'}],
            'suggestion': 'pass',
            'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg'}]}

Process finished with exit code 0
```

6.3.2.4 图像内容审核（异步批量）（V2）

6.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改TaskSumbitReq的urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import *
from huaweicloudsdkmoderation.v2 import ModerationClient,RunTaskSumbitRequest,TaskSumbitReq
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \   //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = RunTaskSumbitRequest()
        listTaskSumbitReqCategoriesbody = [
            "porn",
        ]
        listTaskSumbitReqUrlsbody = [
```

```
        "https://XXX.jpg"    //此处替换为公网可以访问的图片地址
    ]
    request.body = TaskSumbitReq(
        categories=listTaskSumbitReqCategoriesbody,
        urls=listTaskSumbitReqUrlsbody
    )
    response = client.run_task_sumbit(request)
    print(response.status_code)
    print(response)
except exceptions.ClientRequestException as e:
    print(e.status_code)
    print(e.request_id)
    print(e.error_code)
    print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，异步批量**任务提交**的结果输出到控制台。

```
200
{'result': {'job_id': 'xxx'}}

Process finished with exit code 0
```

6.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

   示例代码中修改RunCheckResultRequest的job_id 配置审核任务的id，配置完成后运行即可。

```python
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v2.region.moderation_region import ModerationRegion
from huaweicloudsdkmoderation.v2 import *
from huaweicloudsdkmoderation.v2 import ModerationClient,RunCheckResultRequest
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk)

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \   //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = RunCheckResultRequest()
        request.job_id = "xxx"   //此处需要输入您的jobID
        response = client.run_check_result(request)
        print(response.status_code)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出200即表示程序执行成功，异步批量**查询任务**的结果输出到控制台。

```
200
{'result': {'create_time': '2021-08-04T08:30:41Z',
        'items': [{'category_suggestions': {
                                'porn': 'pass',
                                },
```

```
                    'detail': {

                            'porn': [{'confidence': 0.9883,
                                'label': 'normal'},
                            {'confidence': 0.0039,
                                'label': 'porn'},
                            {'confidence': 0.0078,
                                'label': 'sexy'}],
                    'suggestion': 'pass',
                    'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg'}],
            'job_id': 'xxx',
            'status': 'finish',
            'update_time': '2021-08-04T08:30:41Z'}}


Process finished with exit code 0
```

6.3.3 视频审核

6.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```python
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全;
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \    //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
        .build()

    try:
        request = RunCreateVideoModerationJobRequest()
        listAudioCategoriesbody = [
            "porn"
        ]
        listImageCategoriesbody = [
            "porn"
        ]
        databody = VideoCreateRequestData(
            url="http://xxx.xx.xxxx",
            frame_interval=5.5
        )
        request.body = VideoCreateRequest(
            callback="http://xxx.xx.xxxx",
            audio_categories=listAudioCategoriesbody,
            image_categories=listImageCategoriesbody,
            event_type="default",
            data=databody
        )
```

```
        response = client.run_create_video_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出创建视频内容审核作业的结果，**创建视频内容审核**结果输出到控制台。

{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}

6.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
# coding: utf-8

from huaweicloudsdkcore.auth.credentials import BasicCredentials
from huaweicloudsdkmoderation.v3.region.moderation_region import ModerationRegion
from huaweicloudsdkcore.exceptions import exceptions
from huaweicloudsdkmoderation.v3 import *
import os

if __name__ == "__main__":
    # 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
    # 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak = os.getenv("HUAWEICLOUD_SDK_AK")
    sk = os.getenv("HUAWEICLOUD_SDK_SK")
    credentials = BasicCredentials(ak, sk) \

    client = ModerationClient.new_builder() \
        .with_credentials(credentials) \
        .with_region(ModerationRegion.value_of("xxx")) \    //把xxx替换成服务所在的区域，例如新加坡：ap-southeast-3。
        .build()

    try:
        request = RunQueryVideoModerationJobRequest()
        request.job_id = "xxx"   //此处需要输入您的jobID
        response = client.run_query_video_moderation_job(request)
        print(response)
    except exceptions.ClientRequestException as e:
        print(e.status_code)
        print(e.request_id)
        print(e.error_code)
        print(e.error_msg)
```

2. 控制台输出查询视频内容审核作业的结果，**查询视频内容审核**结果输出到控制台。

{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":{"data":
{"url":"xxxx","frame_interval":5},"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_tim
e":"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"},
{"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240},"label":"leader"},
{"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000},"label":"leader"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},

{"confidence":0.89142377376564,"category":"image_text","suggestion":"block","label":"qr_code","qr_c
ontent":"xxxxxxxxx","qr_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
{"confidence":0.89142377376564,"category":"image_text","suggestion":"block","label":"porn","segme
nts":[{"segment":"xxx"},{"segment":"xx"}]}]}],"audio_detail":
[{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
[{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
[{"segment":"xxx"}]},{"confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}}}

7 使用 SDK（.NET）

7.1 .NET 开发环境配置

使用内容审核.NET版本SDK包，需要先配置.Net开发环境。

1. **Visual Studio官网**，下载最新版Visual Studio。

2. 下载完毕后，单击exe文件，开始安装。

3. 安装过程中选择工作负荷ASP.NET和Web开发，安装完成后启动即可。

图 7-1 选择安装.NET 环境依赖

7.2 .NET 环境 SDK 导入

.NET语言SDK的获取和安装可以使用可以通过命令方式安装或使用**Visual Studio**开发工具安装第三方引用，参考方法如下：

```
//使用 .NET CLI 工具
dotnet add package HuaweiCloud.SDK.Core
dotnet add package HuaweiCloud.SDK.Moderation

//使用 Package Manager
Install-Package HuaweiCloud.SDK.Core
dotnet add package HuaweiCloud.SDK.Moderation
```

使用**Visual Studio**开发工具安装第三方引用：单击"工具->NuGet包管理器->管理解决方案的NuGet程序包"，选择浏览中搜索并安装HuaweiCloud.SDK.Core及HuaweiCloud.SDK.Moderation,如下图所示：

图 7-2 安装内容审核.NET 版本 sdk 包
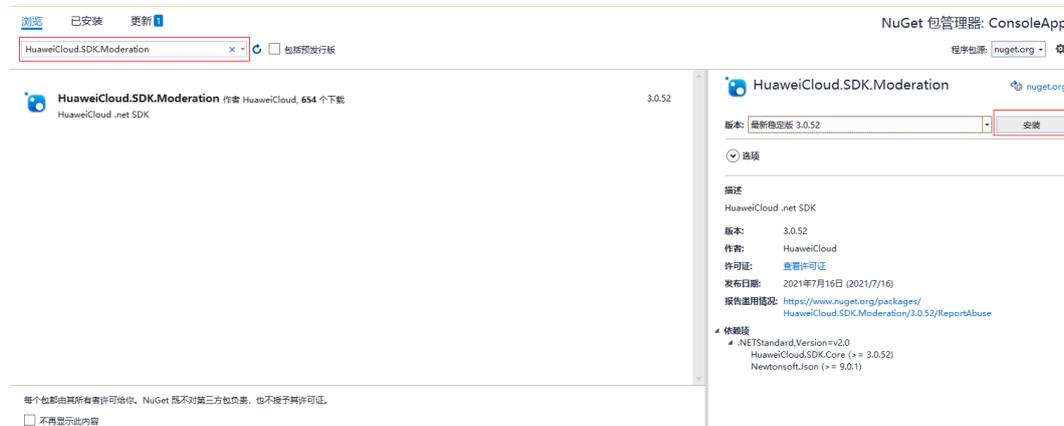
7.3 SDK 调用示例

7.3.1 文本审核

7.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改TextDetectionDataReq的Text 配置待检测的文本信息，配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunTextModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
        //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
```

```
            .WithCredential(auth)
            .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域，例如新加坡：
ap-southeast-3。
            .WithHttpConfig(config)
            .Build();

        var req = new RunTextModerationRequest
        {
        };
        TextDetectionDataReq databody = new TextDetectionDataReq()
        {
            Text = "test"
        };
        req.Body = new TextDetectionReq()
        {
            Data = databody,
            EventType = "comment"
        };

        try
        {
            var resp = client.RunTextModeration(req);
            var respStatusCode = resp.HttpStatusCode;
            Console.WriteLine(respStatusCode);
        }
        catch (RequestTimeoutException requestTimeoutException)
        {
            Console.WriteLine(requestTimeoutException.ErrorMessage);
        }
        catch (ServiceResponseException clientRequestException)
        {
            Console.WriteLine(clientRequestException.HttpStatusCode);
            Console.WriteLine(clientRequestException.ErrorCode);
            Console.WriteLine(clientRequestException.ErrorMsg);
        }
        catch (ConnectionException connectionException)
        {
            Console.WriteLine(connectionException.ErrorMessage);
        }
    }
  }
}
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
200
{
    "request_id":"d81702cfd3599e103030c3d52d6f955f",
    "result":{
        "suggestion":"pass",
        "label":"normal",
        "details":[]
    }
}
```

7.3.1.2 文本内容审核（V2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;
```

```
namespace RunTextModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                    .WithCredential(auth)
                    .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域。
                    .WithHttpConfig(config)
                    .Build();

            var req = new RunTextModerationRequest
            {
            };
            List<TextDetectionItemsReq> listTextDetectionItemsReqItems = new
List<TextDetectionItemsReq>();
            listTextDetectionItemsReqItems.Add(new TextDetectionItemsReq()
            {
                Text = "text",  //此处输入待检测文本
                Type = "content"
            });
            List<String> listTextDetectionReqCategories = new List<String>();
            listTextDetectionReqCategories.Add("porn");
            listTextDetectionReqCategories.Add("abuse");
            listTextDetectionReqCategories.Add("contraband");
            listTextDetectionReqCategories.Add("flood");
            req.Body = new TextDetectionReq()
            {
                Items = listTextDetectionItemsReqItems,
                Categories = listTextDetectionReqCategories
            };

            try
            {
                var resp = client.RunTextModeration(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMsg);
            }
            catch (ConnectionException connectionException)
            {
                Console.WriteLine(connectionException.ErrorMessage);
            }
        }
```

```
    }
}
```

2. 控制台输出200即表示程序执行成功，**文本内容审核结果**输出到控制台。

```
200
{'result': {'detail': {'contraband': ['亚砷酸钾'], 'porn': ['luo聊']},
        'suggestion': 'block'}}
```

7.3.2 图像审核

7.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageDetectionReq的Image或Url配置待审核图像信息（image和url参数二选一），示例中以url为例配置完成后运行即可。

```csharp
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace CheckImageModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
        //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            const string projectId = "project_id";
            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk, projectId);

            var client = ModerationClient.NewBuilder()
                    .WithCredential(auth)
                    .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域。
                    .WithHttpConfig(config)
                    .Build();

            var req = new CheckImageModerationRequest
            {
            };
            List<string> listCategoriesbody = new List<string>();
            listCategoriesbody.Add("porn");
            req.Body = new ImageDetectionReq()
            {
                Url = "http://www.xxxx.xxxx",
                Categories = listCategoriesbody,
                EventType = "head_image"
            };

            try
            {
                var resp = client.CheckImageModeration(req);
```

```
            var respStatusCode = resp.HttpStatusCode;
            Console.WriteLine(respStatusCode);
             Console.WriteLine(resp);
        }
        catch (RequestTimeoutException requestTimeoutException)
        {
            Console.WriteLine(requestTimeoutException.ErrorMessage);
        }
        catch (ServiceResponseException clientRequestException)
        {
            Console.WriteLine(clientRequestException.HttpStatusCode);
            Console.WriteLine(clientRequestException.ErrorCode);
            Console.WriteLine(clientRequestException.ErrorMsg);
        }
        catch (ConnectionException connectionException)
        {
            Console.WriteLine(connectionException.ErrorMessage);
        }
    }
  }
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
200
 {"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category":
"image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0,
"qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142},
"qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category":
"image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category":
"image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}
```

7.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageDetectionReq的Image或Url配置待审核图像信息
   （image和url参数二选一），示例中以url为例配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunImageModerationSolution
{
  class Program
  {
      static void Main(string[] args)
      {
      //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
      //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
      string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
      string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


        var config = HttpConfig.GetDefaultConfig();
        config.IgnoreSslVerification = true;
        var auth = new BasicCredentials(ak, sk);

        var client = ModerationClient.NewBuilder()
              .WithCredential(auth)
              .WithRegion(ModerationRegion.ValueOf("xxx")) //把xxx替换成服务所在的区域。
```

```
                .WithHttpConfig(config)
                .Build();

        var req = new RunImageModerationRequest
        {
        };
        List<ImageDetectionReq.CategoriesEnum> listImageDetectionReqCategories = new
List<ImageDetectionReq.CategoriesEnum>();

listImageDetectionReqCategories.Add(ImageDetectionReq.CategoriesEnum.FromValue("porn"));
        req.Body = new ImageDetectionReq()
        {
            Threshold = 0,
            Categories = listImageDetectionReqCategories,
            ModerationRule = "default",
            Url = "https://XXX.jpg"    //此处替换为公网可以访问的图片地址
        };

        try
        {
            var resp = client.RunImageModeration(req);
            var respStatusCode = resp.HttpStatusCode;
            Console.WriteLine(respStatusCode);
            Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
        }
        catch (RequestTimeoutException requestTimeoutException)
        {
            Console.WriteLine(requestTimeoutException.ErrorMessage);
        }
        catch (ServiceResponseException clientRequestException)
        {
            Console.WriteLine(clientRequestException.HttpStatusCode);
            Console.WriteLine(clientRequestException.ErrorCode);
            Console.WriteLine(clientRequestException.ErrorMsg);
        }
        catch (ConnectionException connectionException)
        {
            Console.WriteLine(connectionException.ErrorMessage);
        }
    }
  }
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核结果**输出到控制台。

```
200
{'result': {'category_suggestions': {
                        'porn': 'pass',
                        },
        'detail': {'ad': [{'confidence': 0.0, 'label': 'ad'},
                        {'confidence': 1.0, 'label': 'normal'}],
                'porn': [{'confidence': 0.9883, 'label': 'normal'},
                        {'confidence': 0.0039, 'label': 'porn'},
                        {'confidence': 0.0078, 'label': 'sexy'}],
        'suggestion': 'pass'}}
```

7.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改ImageBatchModerationReq 的 Urls 配置待审核的图像url
   （仅支持url方式），配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;
```

```
namespace RunImageBatchModerationSolution
{
    class Program
    {
        static void Main(string[] args)
        {
            //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
            //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                    .WithCredential(auth)
                    .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域，例如新
加坡：ap-southeast-3。
                    .WithHttpConfig(config)
                    .Build();

            var req = new RunImageBatchModerationRequest
            {
            };
            List<ImageBatchModerationReq.CategoriesEnum> listImageBatchModerationReqCategories =
new List<ImageBatchModerationReq.CategoriesEnum>();

listImageBatchModerationReqCategories.Add(ImageBatchModerationReq.CategoriesEnum.FromValue(
"porn"));
            List<String> listImageBatchModerationReqUrls = new List<String>();
            listImageBatchModerationReqUrls.Add("https://XXX.jpg");  //此处替换为公网可以访问的图片地
址
            req.Body = new ImageBatchModerationReq()
            {
                Threshold = 0,
                Categories = listImageBatchModerationReqCategories,
                Urls = listImageBatchModerationReqUrls
            };

            try
            {
                var resp = client.RunImageBatchModeration(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMsg);
            }
            catch (ConnectionException connectionException)
            {
                Console.WriteLine(connectionException.ErrorMessage);
            }
        }
    }
```

```
      }
}
```

2. 控制台输出200即表示程序执行成功，**图像内容审核批量任务**提交的结果输出到控制台。

```
200
{'result': [{'category_suggestions': {
                          'porn': 'pass',
                          },
          'detail': {'ad': [{'confidence': 0.0, 'label': 'ad'},
                      {'confidence': 1.0, 'label': 'normal'}],
              'porn': [{'confidence': 0.9883, 'label': 'normal'},
                      {'confidence': 0.0039, 'label': 'porn'},
                      {'confidence': 0.0078, 'label': 'sexy'}],
          'suggestion': 'pass',
          'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg'}]}
```

7.3.2.4 内容审核-图像（异步批量）（V2）

7.3.2.4.1 提交任务

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以配置RunTaskSumbitRequest 的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunTaskSumbitSolution
{
    class Program
    {
        static void Main(string[] args)
        {
        //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全
        //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                    .WithCredential(auth)
                    .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域，例如新
加坡：ap-southeast-3。
                    .WithHttpConfig(config)
                    .Build();

            var req = new RunTaskSumbitRequest
            {
            };
            List<TaskSumbitReq.CategoriesEnum> listTaskSumbitReqCategories = new
List<TaskSumbitReq.CategoriesEnum>();
            listTaskSumbitReqCategories.Add(TaskSumbitReq.CategoriesEnum.FromValue("porn"));
            List<String> listTaskSumbitReqUrls = new List<String>();
```

```
            listTaskSumbitReqUrls.Add("https://XXX.jpg");   //此处替换为公网可以访问的图片地址
            req.Body = new TaskSumbitReq()
            {
                Categories = listTaskSumbitReqCategories,
                Urls = listTaskSumbitReqUrls
            };

            try
            {
                var resp = client.RunTaskSumbit(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
                Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMsg);
            }
            catch (ConnectionException connectionException)
            {
                Console.WriteLine(connectionException.ErrorMessage);
            }
        }
    }
}
```

2. 控制台输出200即表示程序执行成功，异步批量**任务提交**的结果输出到控制台。

```
200
{'result': {'job_id': 'xxx'}}
```

7.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

   示例代码中需要修改RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V2;
using HuaweiCloud.SDK.Moderation.V2.Model;

namespace RunCheckResultSolution
{
    class Program
    {
        static void Main(string[] args)
        {
        //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量
中密文存放，使用时解密，确保安全
        //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);

            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
```

```
        var auth = new BasicCredentials(ak, sk);

        var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域，例如新
加坡：ap-southeast-3。
                .WithHttpConfig(config)
                .Build();

        var req = new RunCheckResultRequest
        {
            JobId = "2991572e-f503-11eb-a32d-88bd0dde8061"
        };

        try
        {
            var resp = client.RunCheckResult(req);
            var respStatusCode = resp.HttpStatusCode;
            Console.WriteLine(respStatusCode);
            Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
        }
        catch (RequestTimeoutException requestTimeoutException)
        {
            Console.WriteLine(requestTimeoutException.ErrorMessage);
        }
        catch (ServiceResponseException clientRequestException)
        {
            Console.WriteLine(clientRequestException.HttpStatusCode);
            Console.WriteLine(clientRequestException.ErrorCode);
            Console.WriteLine(clientRequestException.ErrorMsg);
        }
        catch (ConnectionException connectionException)
        {
            Console.WriteLine(connectionException.ErrorMessage);
        }
    }
  }
}
```

1. 控制台输出200即表示程序执行成功，异步批量**查询任务**的结果输出到控制台。

```
200
{'result': {'create_time': '2021-08-04T08:30:41Z',
        'items': [{'category_suggestions': {
                            'porn': 'pass',
                            },
                'detail': {'ad': None,
                        'porn': [{'confidence': 0.9883,
                                'label': 'normal'},
                                {'confidence': 0.0039,
                                'label': 'porn'},
                                {'confidence': 0.0078,
                                'label': 'sexy'}],
                'suggestion': 'pass',
                'url': 'https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/terrorism.jpg'}],
        'job_id': 'xxx',
        'status': 'finish',
        'update_time': '2021-08-04T08:30:41Z'}}
```

7.3.3 视频审核

7.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunCreateVideoModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
//认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全
//本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                .WithCredential(auth)
                .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域
                .WithHttpConfig(config)
                .Build();

            var req = new RunCreateVideoModerationJobRequest
            {
            };
            List<VideoCreateRequest.AudioCategoriesEnum> listAudioCategoriesbody = new
List<VideoCreateRequest.AudioCategoriesEnum>();
            listAudioCategoriesbody.Add(VideoCreateRequest.AudioCategoriesEnum.FromValue("porn"));
            List<VideoCreateRequest.ImageCategoriesEnum> listImageCategoriesbody = new
List<VideoCreateRequest.ImageCategoriesEnum>();
            listImageCategoriesbody.Add(VideoCreateRequest.ImageCategoriesEnum.FromValue("porn"));
            VideoCreateRequestData databody = new VideoCreateRequestData()
            {
                Url = "http://xxx.xx.xxxx",
                FrameInterval = 5.5
            };
            req.Body = new VideoCreateRequest()
            {
                Callback = "http://xxx.xx.xxxx",
                AudioCategories = listAudioCategoriesbody,
                ImageCategories = listImageCategoriesbody,
                EventType = VideoCreateRequest.EventTypeEnum.FromValue("default"),
                Data = databody
            };

            try
            {
                var resp = client.RunCreateVideoModerationJob(req);
                var respStatusCode = resp.HttpStatusCode;
                Console.WriteLine(respStatusCode);
            }
            catch (RequestTimeoutException requestTimeoutException)
            {
                Console.WriteLine(requestTimeoutException.ErrorMessage);
            }
            catch (ServiceResponseException clientRequestException)
            {
```

```
                Console.WriteLine(clientRequestException.HttpStatusCode);
                Console.WriteLine(clientRequestException.ErrorCode);
                Console.WriteLine(clientRequestException.ErrorMsg);
            }
            catch (ConnectionException connectionException)
            {
                Console.WriteLine(connectionException.ErrorMessage);
            }
        }
    }
}
```

2. 控制台输出创建视频内容审核作业的结果，**创建视频内容审核**结果输出到控制台。

```
200
{
    "request_id":"dbbcb75d1a174bfa899a38be38fdd107",
    "job_id":"xxx"
}
```

7.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
using System;
using System.Collections.Generic;
using HuaweiCloud.SDK.Core;
using HuaweiCloud.SDK.Core.Auth;
using HuaweiCloud.SDK.Moderation;
using HuaweiCloud.SDK.Moderation.V3;
using HuaweiCloud.SDK.Moderation.V3.Model;

namespace RunQueryVideoModerationJobSolution
{
    class Program
    {
        static void Main(string[] args)
        {
    //认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全
    //本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK
            string ak= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_AK",
EnvironmentVariableTarget.Machine);
            string sk= Environment.GetEnvironmentVariable("HUAWEICLOUD_SDK_SK",
EnvironmentVariableTarget.Machine);


            var config = HttpConfig.GetDefaultConfig();
            config.IgnoreSslVerification = true;
            var auth = new BasicCredentials(ak, sk);

            var client = ModerationClient.NewBuilder()
                    .WithCredential(auth)
                    .WithRegion(ModerationRegion.ValueOf("xxx"))  //把xxx替换成服务所在的区域
                    .WithHttpConfig(config)
                    .Build();

            var req = new RunQueryVideoModerationJobRequest
            {
                JobId = "xxxx"    //此处需要输入您的jobID
            };

            try
            {
                var resp = client.RunQueryVideoModerationJob(req);
```

```
                        var respStatusCode = resp.HttpStatusCode;
                        Console.WriteLine(respStatusCode);
            Console.WriteLine(JsonConvert.DeserializeObject(resp.HttpBody));
                }
                catch (RequestTimeoutException requestTimeoutException)
                {
                    Console.WriteLine(requestTimeoutException.ErrorMessage);
                }
                catch (ServiceResponseException clientRequestException)
                {
                    Console.WriteLine(clientRequestException.HttpStatusCode);
                    Console.WriteLine(clientRequestException.ErrorCode);
                    Console.WriteLine(clientRequestException.ErrorMsg);
                }
                catch (ConnectionException connectionException)
                {
                    Console.WriteLine(connectionException.ErrorMessage);
                }
            }
        }
    }
}
```

2. 控制台输出查询视频内容审核作业提交的结果，**查询视频内容审核**结果输出到控制台。

```
200
{
    "request_id":"xxxx",
    "job_id":"xxx",
    "status":"succeeded",
    "request_params":{
        "data":{
            "url":"xxxx",
            "frame_interval":5
        },
        "event_type":"default",
        "image_categories":[
            "porn",
            "terrorism",
            "image_text"
        ],
        "audio_categories":[
            "porn",
            "ad",
            "moan",
            "abuse"
        ],
        "callback":"xxx"
    },
    "create_time":"2022-07-30T08:57:11.011Z",
    "update_time":"2022-07-30T08:57:14.014Z",
    "result":{
        "suggestion":"block",
        "image_detail":[
            {
                "suggestion":"block",
                "category":"porn",
                "ocr_text":"123",
                "time":0,
                "detail":[
                    {
                        "confidence":0.676015138626099,
                        "category":"porn",
                        "suggestion":"block",
                        "label":"pornography"
                    },
                    {
                        "confidence":0.666015138626099,
                        "category":"porn",
                        "suggestion":"review",
                        "label":"sexy_female"
```

```
        },
        {
            "confidence":0.666015138626099,
            "category":"xxx",
            "suggestion":"block",
            "label":"leader"
        },
        {
            "confidence":0.691423773765564,
            "category":"xxx",
            "suggestion":"block",
            "face_location":{
                "top_left_x":12,
                "top_left_y":13,
                "bottom_right_x":200,
                "bottom_right_y":240
            },
            "label":"leader"
        },
        {
            "confidence":0.691423773765564,
            "category":"porn",
            "suggestion":"block",
            "face_location":{
                "top_left_x":12,
                "top_left_y":13,
                "bottom_right_x":100,
                "bottom_right_y":2000
            },
            "label":"leader"
        },
        {
            "confidence":0.891423773765564,
            "category":"image_text",
            "suggestion":"block",
            "label":"qr_code"
        },
        {
            "confidence":0.891423773765564,
            "category":"image_text",
            "suggestion":"block",
            "label":"qr_code",
            "qr_content":"xxxxxxxxx",
            "qr_location":{
                "top_left_x":12,
                "top_left_y":13,
                "bottom_right_x":100,
                "bottom_right_y":2000
            }
        },
        {
            "confidence":0.891423773765564,
            "category":"image_text",
            "suggestion":"block",
            "label":"porn",
            "segments":[
                {
                    "segment":"xxx"
                },
                {
                    "segment":"xx"
                }
            ]
        }
    ]
}
],
"audio_detail":[
    {
```

```
        "suggestion":"block",
        "label":"porn",
        "audio_text":"xxxxx",
        "end_time":10,
        "start_time":0,
        "detail":[
            {
                "confidence":0.999117187582349,
                "label":"porn",
                "suggestion":"block",
                "segments":[
                    {
                        "segment":"xxx"
                    }
                ]
            },
            {
                "confidence":0.885117187582349,
                "label":"porn",
                "suggestion":"block"
            }
        ]
    }
  ]
 }
}
```

8 使用 SDK（GO）

8.1 GO 开发环境配置

使用图像识别GO版本SDK包，需要您配置Go语言开发环境。如已经安装配置go开发环境，可跳过

1. 在**golang 官网**下载并安装对应的go版本，sdk支持 go 1.14 及以上版本。
2. 下载完成后按照提示安装，位置自选，比如安装到本地D:\develop\go。
3. 配置GO环境变量：右键"计算机>属性>高级系统设置>环境变量"，进行如下操作。

   a. 新建系统变量GOROOT，变量值为实际go安装位置。新增环境变量GOPATH，变量为go语言工程所在目录。

   b. 修改PATH变量，末尾增加GO的编译器路径";%GOROOT%\bin"，中间分隔符是【;】。

   c. 修改CLASSPATH变量，末尾增加GO的编译器路径";%GOROOT%\lib"，中间分隔符是【;】。

4. 在vs code官网：**https://code.visualstudio.com/Download**，下载安装操作系统的vs code。
5. 安装go语言的插件Go和 Go Critic。

8.2 GO 语言 SDK 获取和安装

1. GO语言SDK的获取和安装使用命令，参考方法如下：
   ```
   go get -u github.com/huaweicloud/huaweicloud-sdk-go-v3
   ```

8.3 SDK 调用示例

8.3.1 文本审核

8.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完成后运行即可。

```go
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")).  //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.RunTextModerationRequest{}
    databody := &model.TextDetectionDataReq{
        Text: "text",
    }
    request.Body = &model.TextDetectionReq{
        Data: databody,
        EventType: "comment",
    }
    response, err := client.RunTextModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

```
RunTextModerationResponse {"request_id": "d81702cfd3599e103030c3d52d6f955f", "result":
{"suggestion": "pass", "label": "normal", "details": []}}
```

8.3.1.2 文本内容审核（V2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以将TextDetectionItemsReq的Text配置待检测的文本信息，配置完成后运行即可。

```go
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
```

```
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")).//把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.RunTextModerationRequest{}
    typeItemsTextDetectionItemsReq:= "content"
    var listItemsbody = []model.TextDetectionItemsReq{
        {
            Text: "text",    //此处输入待检测文本
            Type: &typeItemsTextDetectionItemsReq,
        },
    }
    var listCategoriesbody = []string{
        "porn",
        "abuse",
        "contraband",
        "flood",
    }
    request.Body = &model.TextDetectionReq{
        Items: listItemsbody,
        Categories: &listCategoriesbody,
    }
    response, err := client.RunTextModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }}
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

```
RunTextModerationResponse {"result":{"suggestion":"block","detail":{"contraband":["亚砷酸钾
"],"porn":["luo聊"]}}}
Process exiting with code: 0
```

8.3.2 图像审核

8.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，
   示例中以url为例配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
```

```go
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        WithProjectId(projectId).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.CheckImageModerationRequest{}
    var listCategoriesbody = []string{
        "porn",
    }
    urlImageDetectionReq:= "http://www.xxxx.xxxx"
    request.Body = &model.ImageDetectionReq{
        Url: &urlImageDetectionReq,
        Categories: listCategoriesbody,
        EventType: "head_image",
    }
    response, err := client.CheckImageModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

CheckImageModerationResponse
{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category":
"image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0,
"qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142},
"qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category":
"image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category":
"image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}

8.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，
   示例中以url为例配置完成后运行即可。

```go
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)
```

```
func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.RunImageModerationRequest{}
    var listCategoriesbody = []model.ImageDetectionReqCategories{
        model.GetImageDetectionReqCategoriesEnum().PORN,
    }
    thresholdImageDetectionReq:= float32(0)
    moderationRuleImageDetectionReq:= "default"
    urlImageDetectionReq:= "https://XXX.jpg"  //此处替换为公网可以访问的图片地址
    request.Body = &model.ImageDetectionReq{
        Threshold: &thresholdImageDetectionReq,
        Categories: &listCategoriesbody,
        ModerationRule: &moderationRuleImageDetectionReq,
        Url: &urlImageDetectionReq,
    }
    response, err := client.RunImageModeration(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

```
RunImageModerationResponse {"result":{"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}]},"suggestion":"pass","category_suggestions":{"porn":"pass",}}}
Process exiting with code: 0
```

8.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核（批量）AK/SK方式使用SDK进行示例说明。

   示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")
```

```
   auth := basic.NewCredentialsBuilder().
      WithAk(ak).
      WithSk(sk).
      Build()

   client := moderation.NewModerationClient(
      moderation.ModerationClientBuilder().
         WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
         WithCredential(auth).
         Build())

   request := &model.RunImageBatchModerationRequest{}
   var listCategoriesbody = []model.ImageBatchModerationReqCategories{
      model.GetImageBatchModerationReqCategoriesEnum().PORN,
   }
   var listUrlsbody = []string{
      "https://XXX.jpg",  //此处替换为公网可以访问的图片地址
   }
   thresholdImageBatchModerationReq:= float64(0)
   request.Body = &model.ImageBatchModerationReq{
      Threshold: &thresholdImageBatchModerationReq,
      Categories: &listCategoriesbody,
      Urls: listUrlsbody,
   }
   response, err := client.RunImageBatchModeration(request)
   if err == nil {
      fmt.Printf("%+v\n", response)
   } else {
      fmt.Println(err)
   }}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核批量任务**提交的结果输出到控制台。

```
RunImageBatchModerationResponse {"result":[{"url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg","suggestion":"pass","detail":{"porn":
[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}]},"category_suggestions":{
,"porn":"pass"}}]}
Process exiting with code: 0
```

8.3.2.4 内容审核-图像（异步批量）（V2）

8.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改TaskSumbitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
package main

import (
   "fmt"
   "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
   moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
   "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
   region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
   // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
   // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
   ak := os.Getenv("HUAWEICLOUD_SDK_AK")
```

```
        sk := os.Getenv("HUAWEICLOUD_SDK_SK")

        auth := basic.NewCredentialsBuilder().
            WithAk(ak).
            WithSk(sk).
            Build()

        client := moderation.NewModerationClient(
            moderation.ModerationClientBuilder().
                WithRegion(region.ValueOf("xxx")).   //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
                WithCredential(auth).
                Build())

        request := &model.RunTaskSumbitRequest{}
        var listCategoriesbody = []model.TaskSumbitReqCategories{
            model.GetTaskSumbitReqCategoriesEnum().PORN,
        }
        var listUrlsbody = []string{
            "https://XXX.jpg",   //此处替换为公网可以访问的图片地址
        }
        request.Body = &model.TaskSumbitReq{
            Categories: &listCategoriesbody,
            Urls: listUrlsbody,
        }
        response, err := client.RunTaskSumbit(request)
        if err == nil {
            fmt.Printf("%+v\n", response)
        } else {
            fmt.Println(err)
        }}
```

2. 提交任务结果输出到控制台表示执行成功，异步批量**任务提交**的结果输出到控制台。

```
RunTaskSumbitResponse {"result":{"job_id":"xxx"}}
Process exiting with code: 0
```

8.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

   示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v2/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如新加坡：ap-
```

southeast-3。

```go
            WithCredential(auth).
            Build())

    request := &model.RunCheckResultRequest{}
    request.JobId = "70e952b5-5fa3-4d18-9ce4-75bba7226d7c"
    response, err := client.RunCheckResult(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
    } else {
        fmt.Println(err)
    }
}
```

2. 审核结果输出到控制台表示执行成功，异步批量**查询任务**的结果输出到控制台。

```
RunCheckResultResponse {"result":
{"job_id":"xxx","status":"finish","create_time":"2021-08-05T03:44:37Z","update_time":"2021-08-05T03:4
4:37Z","items":[{"url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/
terrorism.jpg","suggestion":"pass","detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}]},"category_suggestions":
{"porn":"pass",}}]}}}
Process exiting with code: 0
```

8.3.3 视频审核

8.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

    示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```go
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")).   //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.RunCreateVideoModerationJobRequest{}
    var listAudioCategoriesbody = []model.VideoCreateRequestAudioCategories{
        model.GetVideoCreateRequestAudioCategoriesEnum().PORN,
    }
    var listImageCategoriesbody = []model.VideoCreateRequestImageCategories{
        model.GetVideoCreateRequestImageCategoriesEnum().PORN,
```

```
        }
        frameIntervalData:= float32(5.5)
        databody := &model.VideoCreateRequestData{
            Url: "http://xxx.xx.xxxx",
            FrameInterval: &frameIntervalData,
        }
        callbackVideoCreateRequest:= "http://xxx.xx.xxxx"
        request.Body = &model.VideoCreateRequest{
            Callback: &callbackVideoCreateRequest,
            AudioCategories: &listAudioCategoriesbody,
            ImageCategories: listImageCategoriesbody,
            EventType: model.GetVideoCreateRequestEventTypeEnum().DEFAULT,
            Data: databody,
        }
        response, err := client.RunCreateVideoModerationJob(request)
        if err == nil {
            fmt.Printf("%+v\n", response)
        } else {
            fmt.Println(err)
        }
    }
```

2. 控制台输出创建视频内容审核作业的结果，**创建视频内容审核**结果输出到控制台。

```
RunCreateVideoModerationJobResponse{"request_id":"dbbcb75d1a174bfa899a38be38fdd107",
"job_id": "xxx"}
```

8.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

```
package main

import (
    "fmt"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/core/auth/basic"
    moderation "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3"
    "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/model"
    region "github.com/huaweicloud/huaweicloud-sdk-go-v3/services/moderation/v3/region"
)

func main() {
    // 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中
密文存放，使用时解密，确保安全；
    // 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变
量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK。
    ak := os.Getenv("HUAWEICLOUD_SDK_AK")
    sk := os.Getenv("HUAWEICLOUD_SDK_SK")

    auth := basic.NewCredentialsBuilder().
        WithAk(ak).
        WithSk(sk).
        Build()

    client := moderation.NewModerationClient(
        moderation.ModerationClientBuilder().
            WithRegion(region.ValueOf("xxx")). //把xxx替换成服务所在的区域，例如新加坡：ap-
southeast-3。
            WithCredential(auth).
            Build())

    request := &model.RunQueryVideoModerationJobRequest{}
    request.JobId = "xxxx"   //此处需要输入您的jobID
    response, err := client.RunQueryVideoModerationJob(request)
    if err == nil {
        fmt.Printf("%+v\n", response)
```

```
    } else {
        fmt.Println(err)
    }
}
```

2. 控制台输出查询视频内容审核作业提交的结果，**查询视频内容审核**结果输出到控制台。

RunQueryVideoModerationJobResponse
{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":{"data":
{"url":"xxxx","frame_interval":5},"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_tim
e":"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"},
{"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240},"label":"leader"},
{"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000},"label":"leader"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code","qr_c
ontent":"xxxxxxxxx","qr_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"porn","segme
nts":[{"segment":"xxx"},{"segment":"xx"}]}]}],"audio_detail":
[{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
[{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
[{"segment":"xxx"}]},{"confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}}}

# 9 使用 SDK（PHP）

9.1 PHP 开发环境配置

使用内容审核PHP版本SDK包，需要您配置PHP开发环境。

1. 从**PHP官网**下载并安装合适的PHP版本。内容审核PHP版本SDK包推荐使用php.7.x版本，如下以php 7.0.32 版本为例进行说明。

    📖 **说明**

    - PHP安装目录应尽量避免中文和特殊字符。
    - windows环境下运行cmd命令**php –v**，显示找不到指定模块，需查看"php.ini"中"extension_dir"以及"include_path"的配置是否正确。

1. 从**PhoStorm官网**下载并安装最新社区版本。

2. 在PhpStorm开发工具中配置PHP环境，在菜单依次选择"File > Settings > Languages & Frameworks > PHP"。

3. 在页面上方选择您的PHP路径，如**图9-1**所示，然后单击页面下方"Apply"完成配置。

图 **9-1** PhpStorm 配置 php 环境
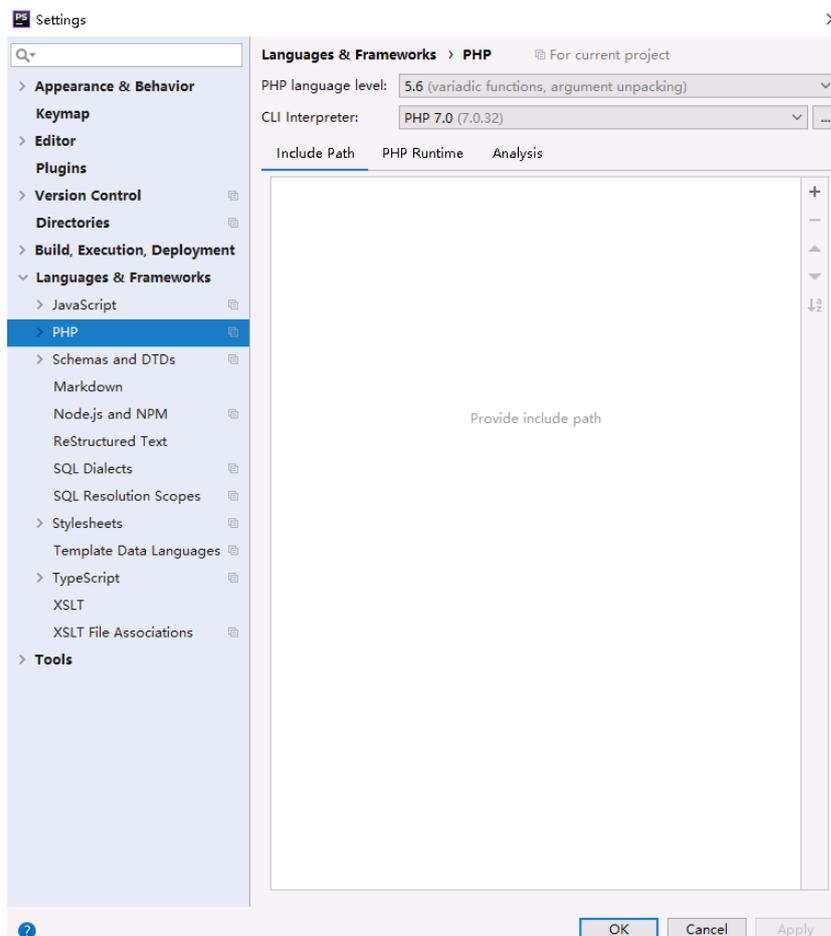
9.2 PHP 环境 SDK 导入

PHP版本，内容审核服务推荐您使用 **Composer** 安装 SDK 。Composer 是 Php 的依赖管理工具，允许您在项目中声明依赖关系并安装这些依赖：

```
// 安装 Composer
curl -sS https://getcomposer.org/installer | php
// 安装 PHP SDK
composer require huaweicloud/huaweicloud-sdk-php
```

安装完毕后，你需要引入 Composer 的自动加载文件：

```
require 'path/to/vendor/autoload.php';
```

9.3 SDK 调用示例

9.3.1 文本审核

9.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完成后运行即可。

项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全;
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com";//把ap-southeast-3替换成服务所
在的区域。

$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
 ->withHttpConfig($config)
 ->withEndpoint($endpoint)
 ->withCredentials($credentials)
 ->build();
$request = new RunTextModerationRequest();

$body = new TextDetectionReq();
$databody = new TextDetectionDataReq();
$databody->setText("text");  //此处输入待检测文本
$body->setData($databody);
$body->setEventType("comment");
$request->setBody($body);
try {
  $response = $client->RunTextModeration($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

```json
{
    "request_id":"d81702cfd3599e103030c3d52d6f955f",
    "result":{
        "suggestion":"pass",
        "label":"normal",
        "details":[
        ]
    }
}
```

9.3.1.2 文本内容审核（V2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以将TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全;
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com";//把ap-southeast-1替换成服务所
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new RunTextModerationRequest();

$body = new TextDetectionReq();
$listbodyItems = array();
array_push($listbodyItems,(new TextDetectionItemsReq())
   ->setText("text")   //此处输入待检测文本
   ->setType("content")
 );
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"ad");
array_push($listbodyCategories,"abuse");
array_push($listbodyCategories,"contraband");
array_push($listbodyCategories,"flood");
$body->setItems($listbodyItems);
$body->setCategories($listbodyCategories);
$request->setBody($body);
try {
  $response = $client->RunTextModeration($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

```
{
    "result":{
        "suggestion":"block",
        "detail":{
            "contraband":[
                "亚砷酸钾"
            ],
            "porn":[
                "luo聊"
            ]
        }
    }
}
```

9.3.2 图像审核

9.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;

// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com";//把ap-southeast-3替换成服务所
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new CheckImageModerationRequest();

$body = new ImageDetectionReq();
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
$body->setUrl("http://www.xxxx.xxxx");
$body->setCategories($listbodyCategories);
$body->setEventType("head_image");
$request->setBody($body);
try {
  $response = $client->CheckImageModeration($request);
  echo "\n";
```

```
echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category": "image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0, "qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142}, "qr_content": "http://xxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category": "image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category": "image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}

9.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com";//把ap-southeast-1替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new RunImageModerationRequest();

$body = new ImageDetectionReq();
$listbodyCategories = array();
array_push($listbodyCategories,"terrorism");
array_push($listbodyCategories,"porn");
$body->setCategories($listbodyCategories);
$body->setModerationRule("default");
$body->setUrl("https://XXX.jpg");  //此处替换为公网可以访问的图片地址
$request->setBody($body);
try {
```

```php
$response = $client->RunImageModeration($request);
echo "\n";
echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

{"result": {"detail": { "porn": [{"confidence": 0.9883, "label": "normal"}, {"confidence": 0.0039, "label": "porn"}, {"confidence": 0.0078, "label": "sexy"}], "terrorism": [{"confidence": 0.0002, "label": "terrorist"}, {"confidence": 0.0002, "label": "fascist"}, {"confidence": 0.0001, "label": "cult"}, {"confidence": 0.0002}, {"confidence": 0.0001, "label": "kidnap"}, {"confidence": 0.0006, "label": "riot"}, {"confidence": 0.0001, "label": "parade"}, {"confidence": 0.0002, "label": "corpse"}, {"confidence": 0.0001, "label": "bloody"}, {"confidence": 0.0001, "label": "knife"}, {"confidence": 0.0001, "label": "gun"}, {"confidence": 0.0002, "label": "military_weapon"}, {"confidence": 0.0, "label": "special_characters"}, {"confidence": 0.9994, "label": "normal"}], "ad": [{"confidence": 0.0, "label": "ad"}, {"confidence": 1.0, "label": "normal"}]}, "suggestion": "pass", "category_suggestions": { "ad": "pass", "terrorism": "pass", "porn": "pass"}}}

9.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核（批量）AK/SK方式使用SDK进行示例说明。

   示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com";//把ap-southeast-1替换成服务所在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new RunImageBatchModerationRequest();

$body = new ImageBatchModerationReq();
$listbodyCategories = array();
array_push($listbodyCategories,"terrorism");
```

```
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"ad");
$listbodyUrls = array();
array_push($listbodyUrls,"https://XXX.jpg");  //此处替换为公网可以访问的图片地址
$body->setThreshold(0);
$body->setCategories($listbodyCategories);
$body->setUrls($listbodyUrls);
$request->setBody($body);
try {
  $response = $client->RunImageBatchModeration($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核批量任务**提交的结果输出到控制台。

```
{"httpStatusCode":200,"result":[{"categorySuggestions":{"terrorism":"pass","porn":"pass"},"detail":
{"porn":[{"confidence":0.9883,"label":"normal"},{"confidence":0.0039,"label":"porn"},
{"confidence":0.0078,"label":"sexy"}],"terrorism":[{"confidence":2.0E-4,"label":"terrorist"},
{"confidence":2.0E-4,"label":"fascist"},{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]}],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg"}]}
```

9.3.2.4 内容审核-图像（异步批量）（V2）

9.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

示例代码中可以修改TaskSumbitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

项目ID的获取请参考**获取项目ID**。

```
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');
```

```php
$endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com";//把ap-southeast-1替换成服务所
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new RunTaskSumbitRequest();

$body = new TaskSumbitReq();
$listbodyCategories = array();
array_push($listbodyCategories,"porn");
array_push($listbodyCategories,"terrorism");
$listbodyUrls = array();
array_push($listbodyUrls,"https://XXX.jpg");  //此处替换为公网可以访问的图片地址
$body->setCategories($listbodyCategories);
$body->setUrls($listbodyUrls);
$request->setBody($body);
try {
  $response = $client->RunTaskSumbit($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 提交任务结果输出到控制台表示执行成功，异步批量**任务提交**的结果输出到控制台。

```
{"httpStatusCode":200,"result":{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}
```

9.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V2\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V2\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com";//把ap-southeast-1替换成服务所
```

```php
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
 ->withHttpConfig($config)
 ->withEndpoint($endpoint)
 ->withCredentials($credentials)
 ->build();
$request = new RunCheckResultRequest();
$request->setJobId("321cb5b6-3ad3-461a-b258-7ba7f530b91a");

try {
 $response = $client->RunCheckResult($request);
 echo "\n";
 echo $response;
} catch (ConnectionException $e) {
 $msg = $e->getMessage();
 echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
 $msg = $e->getMessage();
 echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
 echo "\n";
 echo $e->getHttpStatusCode(). "\n";
 echo $e->getErrorCode() . "\n";
 echo $e->getErrorMsg() . "\n";
}
```

2. 审核结果输出到控制台表示执行成功，异步批量**查询任务**的结果输出到控制台。

{"httpStatusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items":[{"categorySuggestions":
{
"terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},{"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]}],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/
terrorism.jpg"}],"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3","status":"finish","updateTime":"202
1-08-13T03:46:30Z"}}

9.3.3 视频审核

9.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
```

```php
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com";//把ap-southeast-3替换成服务所
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
  ->withHttpConfig($config)
  ->withEndpoint($endpoint)
  ->withCredentials($credentials)
  ->build();
$request = new RunCreateVideoModerationJobRequest();

$body = new VideoCreateRequest();
$listbodyAudioCategories = array();
array_push($listbodyAudioCategories,"porn");
$listbodyImageCategories = array();
array_push($listbodyImageCategories,"porn");
$databody = new VideoCreateRequestData();
$databody->setUrl("http://xxx.xx.xxxx")
        ->setFrameInterval(5);
$body->setAudioCategories($listbodyAudioCategories);
$body->setImageCategories($listbodyImageCategories);
$body->setEventType("default");
$body->setData($databody);
$request->setBody($body);
try {
  $response = $client->RunCreateVideoModerationJob($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 控制台输出创建视频内容审核作业的结果，**创建视频内容审核**结果输出到控制台。

```
{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}
```

9.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId配置审核任务的id，配置完成后运行即可。

   项目ID的获取请参考**获取项目ID**。

```php
<?php
namespace HuaweiCloud\SDK\Moderation\V3\Model;
require_once "vendor/autoload.php";
use HuaweiCloud\SDK\Core\Auth\BasicCredentials;
use HuaweiCloud\SDK\Core\Http\HttpConfig;
use HuaweiCloud\SDK\Core\Exceptions\ConnectionException;
use HuaweiCloud\SDK\Core\Exceptions\RequestTimeoutException;
```

```php
use HuaweiCloud\SDK\Core\Exceptions\ServiceResponseException;
use HuaweiCloud\SDK\Moderation\V3\ModerationClient;
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全;
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
$ak = getenv('HUAWEICLOUD_SDK_AK');
$sk = getenv('HUAWEICLOUD_SDK_SK');
$projectId = getenv('HUAWEICLOUD_SDK_PROJECT_ID');

$endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com";//把ap-southeast-3替换成服务所
在的区域。
$credentials = new BasicCredentials($ak,$sk,$projectId);
$config = HttpConfig::getDefaultConfig();
$config->setIgnoreSslVerification(true);

$client = ModerationClient::newBuilder(new ModerationClient)
 ->withHttpConfig($config)
 ->withEndpoint($endpoint)
 ->withCredentials($credentials)
 ->build();
$request = new RunQueryVideoModerationJobRequest();
$request->setJobId("xxxx");      //此处需要输入您的jobID

try {
  $response = $client->RunQueryVideoModerationJob($request);
  echo "\n";
  echo $response;
} catch (ConnectionException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (RequestTimeoutException $e) {
  $msg = $e->getMessage();
  echo "\n". $msg ."\n";
} catch (ServiceResponseException $e) {
  echo "\n";
  echo $e->getHttpStatusCode(). "\n";
  echo $e->getErrorCode() . "\n";
  echo $e->getErrorMsg() . "\n";
}
```

2. 控制台输出查询视频内容审核作业提交的结果，**查询视频内容审核**结果输出到控制台。

{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":{"data":
{"url":"xxxx","frame_interval":5},"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_tim
e":"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"},
{"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240},"label":"leader"},
{"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000},"label":"leader"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code","qr_c
ontent":"xxxxxxxx","qr_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"porn","segme
nts":[{"segment":"xxx"},{"segment":"xx"}]}]}],"audio_detail":
[{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
[{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
[{"segment":"xxx"}]},{"confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}}}

10 使用 SDK（Node.js）

10.1 Node.js 开发环境配置

内容审核javascript版本SDK包依赖Node.js环境。

1. 从**Node.js官网**下载并安装推荐使用的版本。推荐使用Node.js 8.x及以上版本，如下以Node.js 8.12.0 版本为例进行说明。

2. 从**WebStorm官网**下载并安装WebStorm 最新版本。

3. 在WebStorm界面配置Node.js环境，在菜单依次选择"File > Settings > Languages & Frameworks > Node.js and NPM"。

4. 在页面上方选择您的"Node.js and NPM"安装路径，如**图10-1**所示。选择好目标"Node.js and NPM"之后单击页面下方"Apply"完成配置。

📖 说明

内容审核javascript版本SDK需要依赖moment-timezone以及moment等模块，可使用**npm install**命令安装或单击**图10-1**中的"＋"号通过工具类安装。

图 **10-1** 配置 Node.js 环境
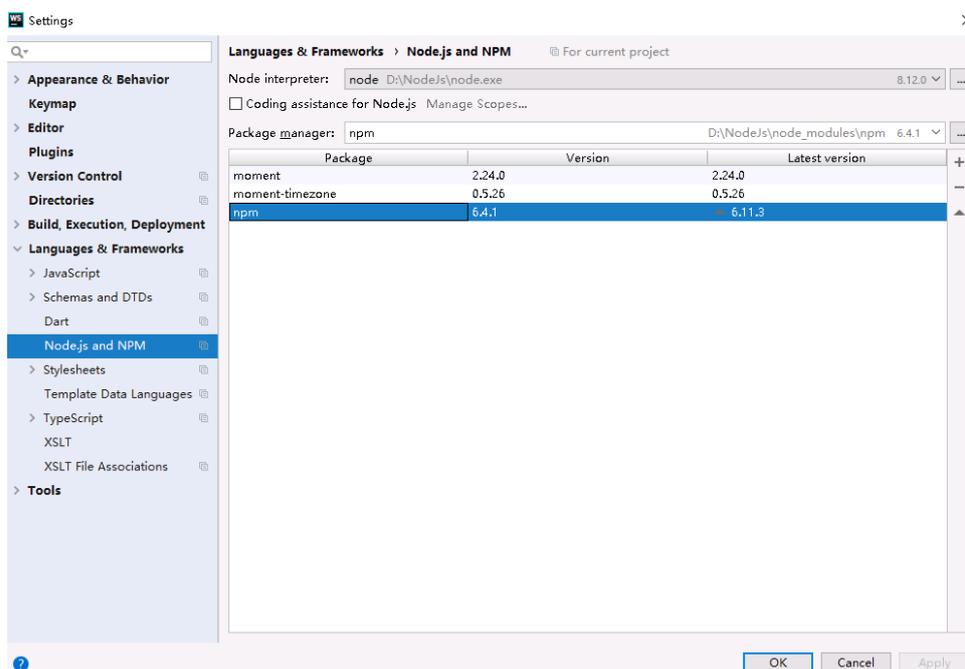
10.2 Node.js 环境 SDK 导入

使用SDK前，您需要安装"@huaweicloud/huaweicloud-sdk-core"和
"@huaweicloud/huaweicloud-sdk-moderation"。

推荐您使用npm安装SDK，在命令行输入以下命令：

```
npm install @huaweicloud/huaweicloud-sdk-core
npm i @huaweicloud/huaweicloud-sdk-moderation
```

10.3 SDK 调用示例

10.3.1 文本审核

10.3.1.1 文本内容审核（V3）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以将TextDetectionDataReq的text配置待检测的文本信息，配置完
   成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com"; //把ap-southeast-3替换成
```

```
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
                .withProjectId(project_id)


const client = moderation.v3.ModerationClient.newBuilder()
                .withCredential(credentials)
                .withEndpoint(endpoint)
                .build();
const request = new moderation.v3.RunTextModerationRequest();
const body = new moderation.v3.TextDetectionReq();
const databody = new moderation.v3.TextDetectionDataReq();
databody.withText("test");
body.withData(databody);
body.withEventType("comment");
request.withBody(body);
const result = client.runTextModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

```
JSON.stringify(result)::{"request_id": "d81702cfd3599e103030c3d52d6f955f", "result": {"suggestion":
"pass", "label": "normal", "details": []}}
```

10.3.1.2 文本内容审核（V2）

1. 本章节对文本内容审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以将TextDetectionItemsReq的text配置待检测的文本信息，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;


const endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com"; //把ap-southeast-1替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
                .withCredential(credentials)
                .withEndpoint(endpoint)
                .build();
const request = new moderation.RunTextModerationRequest();
const body = new moderation.TextDetectionReq();
const listbodyItems = new Array();
listbodyItems.push(
 new moderation.TextDetectionItemsReq()
    .withText("text")    //此处输入待检测文本
    .withType("content")
);
const listbodyCategories = new Array();
listbodyCategories.push("ad");
listbodyCategories.push("abuse");
listbodyCategories.push("porn");
listbodyCategories.push("contraband");
listbodyCategories.push("flood");
body.withItems(listbodyItems);
```

```
body.withCategories(listbodyCategories);
request.withBody(body);
const result = client.runTextModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**文本内容审核结果**输出到控制台。

JSON.stringify(result)::{"result": {"suggestion": "block", "detail": {"contraband": ["亚砷酸钾"], "porn": ["luo聊"]}}}}

10.3.2 图像审核

10.3.2.1 图像内容审核（V3）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com"; //把ap-southeast-3替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
                .withProjectId(project_id)
const client = moderation.v3.ModerationClient.newBuilder()
                .withCredential(credentials)
                .withEndpoint(endpoint)
                .build();
const request = new moderation.v3.CheckImageModerationRequest();
const body = new moderation.v3.ImageDetectionReq();
const listbodyCategories = new Array();
listbodyCategories.push("porn");
body.withUrl("http://www.xxxx.xxxx");
body.withCategories(listbodyCategories);
body.withEventType("head_image");
request.withBody(body);
const result = client.checkImageModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

JSON.stringify(result)::{"request_id": "69b424920668cb15e6d25eef879a023b", "result": {"suggestion": "block", "category": "image_text", "details": [{"suggestion": "block", "category": "image_text", "confidence": 1.0, "qr_location": {"top_left_x": 74, "top_left_y": 66, "bottom_right_x": 151, "bottom_right_y": 142}, "qr_content": "http://xxxxxx/xxxxx", "label": "qr_code"}, {"suggestion": "block", "category": "image_text", "confidence": 0.98779297, "label": "ad"}, {"suggestion": "block", "category": "image_text", "confidence": 1.0, "label": "qr_code"}], "ocr_text": "xxxxxxxxx"}}

10.3.2.2 图像内容审核（V2）

1. 本章节对图像内容审核AK/SK方式使用SDK进行示例说明。

    示例代码中可以使用Url或Image配置图像信息(代表使用url或者图像的base64)，示例中以url为例配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com"; //把ap-southeast-1替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
                    .withCredential(credentials)
                    .withEndpoint(endpoint)
                    .build();
const request = new moderation.RunImageModerationRequest();
const body = new moderation.ImageDetectionReq();
const listbodyCategories = new Array();
listbodyCategories.push("terrorism");
listbodyCategories.push("porn");
body.withCategories(listbodyCategories);
body.withModerationRule("default");
body.withUrl("https://XXX.jpg");  //此处替换为公网可以访问的图片地址
request.withBody(body);
const result = client.runImageModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核结果**输出到控制台。

JSON.stringify(result)::{"result": {"detail": { "porn": [{"confidence": 0.9883, "label": "normal"},
{"confidence": 0.0039, "label": "porn"}, {"confidence": 0.0078, "label": "sexy"}], "terrorism":
[{"confidence": 0.0002, "label": "terrorist"}, {"confidence": 0.0002, "label": "fascist"}, {"confidence":
0.0001, "label": "cult"}, {"confidence": 0.0002}, {"confidence": 0.0001, "label": "kidnap"},
{"confidence": 0.0006, "label": "riot"}, {"confidence": 0.0001, "label": "parade"}, {"confidence": 0.0002,
"label": "corpse"}, {"confidence": 0.0001, "label": "bloody"}, {"confidence": 0.0001, "label": "knife"},
{"confidence": 0.0001, "label": "gun"}, {"confidence": 0.0002, "label": "military_weapon"},
{"confidence": 0.0, "label": "special_characters"}, {"confidence": 0.9994, "label": "normal"}], "ad":
[{"confidence": 0.0, "label": "ad"}, {"confidence": 1.0, "label": "normal"}]}, "suggestion": "pass",
"category_suggestions": { "ad": "pass", "terrorism": "pass", "porn": "pass"}}}

10.3.2.3 图像内容审核（批量）（V2）

1. 本章节对图像内容审核（批量）AK/SK方式使用SDK进行示例说明。

    示例代码中修改ImageBatchModerationReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;
```

```
const endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com"; //把ap-southeast-1替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
                .withCredential(credentials)
                .withEndpoint(endpoint)
                .build();
const request = new moderation.RunImageBatchModerationRequest();
const body = new moderation.ImageBatchModerationReq();
const listbodyCategories = new Array();
listbodyCategories.push("terrorism");
listbodyCategories.push("porn");
listbodyCategories.push("ad");
const listbodyUrls = new Array();
listbodyUrls.push("https://XXX.jpg");  //此处替换为公网可以访问的图片地址
body.withThreshold(0);
body.withCategories(listbodyCategories);
body.withUrls(listbodyUrls);
request.withBody(body);
const result = client.runImageBatchModeration(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，**图像内容审核批量任务**提交的结果输出到控制台。

```
JSON.stringify(result)::{"httpStatusCode":200,"result":[{"categorySuggestions":
{"terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},{"confidence":1.0E-4,"label":"kidnap"},
{"confidence":6.0E-4,"label":"riot"},{"confidence":1.0E-4,"label":"parade"},
{"confidence":2.0E-4,"label":"corpse"},{"confidence":1.0E-4,"label":"bloody"},
{"confidence":1.0E-4,"label":"knife"},{"confidence":1.0E-4,"label":"gun"},
{"confidence":2.0E-4,"label":"military_weapon"},{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]},"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-
north-4.myhuaweicloud.com/terrorism.jpg"}]}
```

10.3.2.4 内容审核-图像（异步批量）（V2）

10.3.2.4.1 提交任务

1. 本章节对图像内容审核（异步批量）-提交任务AK/SK方式使用SDK进行示例说明。

   示例代码中可以修改TaskSumbitReq的Urls配置待审核的图像url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com"; //把ap-southeast-1替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
```

```
 const client = moderation.ModerationClient.newBuilder()
                        .withCredential(credentials)
                        .withEndpoint(endpoint)
                        .build();
const request = new moderation.RunTaskSumbitRequest();
const body = new moderation.TaskSumbitReq();
const listbodyCategories = new Array();
listbodyCategories.push("porn");
listbodyCategories.push("terrorism");
const listbodyUrls = new Array();
listbodyUrls.push("https://XXX.jpg");  //此处替换为公网可以访问的图片地址
body.withCategories(listbodyCategories);
body.withUrls(listbodyUrls);
request.withBody(body);
const result = client.runTaskSumbit(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 提交任务结果输出到控制台表示执行成功，异步批量**任务提交**的结果输出到控制台。

```
JSON.stringify(result)::{"httpStatusCode":200,"result":
{"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3"}}
```

10.3.2.4.2 查询任务

1. 本章节对图像内容审核异步批量-查询任务AK/SK方式使用SDK进行示例说明。

   示例代码中需要配置使用RunCheckResultRequest的JobId配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-1.myhuaweicloud.com"; //把ap-southeast-1替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
const client = moderation.ModerationClient.newBuilder()
                        .withCredential(credentials)
                        .withEndpoint(endpoint)
                        .build();
const request = new moderation.RunCheckResultRequest();
request.jobId = "321cb5b6-3ad3-461a-b258-7ba7f530b91a";
const result = client.runCheckResult(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 审核结果输出到控制台表示执行成功，异步批量**查询任务**的结果输出到控制台。

```
JSON.stringify(result)::{"httpStatusCode":200,"result":{"createTime":"2021-08-13T03:46:30Z","items":
[{"categorySuggestions":{
"terrorism":"pass","porn":"pass"},"detail":{"porn":[{"confidence":0.9883,"label":"normal"},
{"confidence":0.0039,"label":"porn"},{"confidence":0.0078,"label":"sexy"}],"terrorism":
[{"confidence":2.0E-4,"label":"terrorist"},{"confidence":2.0E-4,"label":"fascist"},
{"confidence":1.0E-4,"label":"cult"},{"confidence":2.0E-4},{"confidence":1.0E-4},
{"confidence":1.0E-4,"label":"kidnap"},{"confidence":6.0E-4,"label":"riot"},
{"confidence":1.0E-4,"label":"parade"},{"confidence":2.0E-4,"label":"corpse"},
```

{"confidence":1.0E-4,"label":"bloody"},{"confidence":1.0E-4,"label":"knife"},
{"confidence":1.0E-4,"label":"gun"},{"confidence":2.0E-4,"label":"military_weapon"},
{"confidence":0.0,"label":"special_characters"},
{"confidence":0.9994,"label":"normal"}]}],"suggestion":"pass","url":"https://sdk-obs-source-save.obs.cn-north-4.myhuaweicloud.com/
terrorism.jpg"}],"jobId":"7f6a5881-7774-40cf-903b-4548914b55a3","status":"finish","updateTime":"2021-08-13T03:46:30Z"}}

10.3.3 视频审核

10.3.3.1 创建视频内容审核作业

1. 本章节对创建视频审核AK/SK方式使用SDK进行示例说明。

   示例代码中可以使用RunCreateVideoModerationJobRequest类的withUrls配置待审核的视频url（仅支持url方式），配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com"; //把ap-southeast-3替换成服务所在的区域。
const credentials = new core.BasicCredentials()
            .withAk(ak)
            .withSk(sk)
            .withProjectId(project_id)
const client = moderation.v3.ModerationClient.newBuilder()
               .withCredential(credentials)
               .withEndpoint(endpoint)
               .build();
const request = new moderation.v3.RunCreateVideoModerationJobRequest();
const body = new moderation.v3.VideoCreateRequest();
const listbodyAudioCategories = new Array();
listbodyAudioCategories.push("porn");
const listbodyImageCategories = new Array();
listbodyImageCategories.push("porn");
const databody = new moderation.v3.VideoCreateRequestData();
databody.withUrl("http://xxx.xx.xxxx")
 .withFrameInterval(5);
body.withAudioCategories(listbodyAudioCategories);
body.withImageCategories(listbodyImageCategories);
body.withEventType("default");
body.withData(databody);
request.withBody(body);
const result = client.runCreateVideoModerationJob(request);
result.then(result => {
   console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
   console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出创建视频内容审核作业的结果，创建视频内容审核结果输出到控制台。

```
JSON.stringify(result)::{"request_id": "dbbcb75d1a174bfa899a38be38fdd107", "job_id": "xxx"}
```

10.3.3.2 查询视频内容审核作业

1. 本章节对查询视频审核AK/SK方式使用SDK进行示例说明。

示例代码中需要配置使用RunQueryVideoModerationJobRequest类的withJobId
配置审核任务的id，配置完成后运行即可。

```
const core = require('@huaweicloud/huaweicloud-sdk-core');
const moderation = require("@huaweicloud/huaweicloud-sdk-moderation");
// 认证用的ak和sk硬编码到代码中或者明文存储都有很大的安全风险，建议在配置文件或者环境变量中密
文存放，使用时解密，确保安全；
// 本示例以ak和sk保存在环境变量中来实现身份验证为例，运行本示例前请先在本地环境中设置环境变量
HUAWEICLOUD_SDK_AK和HUAWEICLOUD_SDK_SK、HUAWEICLOUD_SDK_PROJECT_ID。
const ak = process.env.HUAWEICLOUD_SDK_AK;
const sk = process.env.HUAWEICLOUD_SDK_SK;
const projectId = process.env.HUAWEICLOUD_SDK_PROJECT_ID;

const endpoint = "https://moderation.ap-southeast-3.myhuaweicloud.com"; //把ap-southeast-3替换成
服务所在的区域。
const credentials = new core.BasicCredentials()
                .withAk(ak)
                .withSk(sk)
const client = moderation.v3.ModerationClient.newBuilder()
                .withCredential(credentials)
                .withEndpoint(endpoint)
                .build();
const request = new moderation.v3.RunQueryVideoModerationJobRequest();
request.jobId = "xxxxx";   //此处需要输入您的jobID
const result = client.runQueryVideoModerationJob(request);
result.then(result => {
    console.log("JSON.stringify(result)::" + JSON.stringify(result));
}).catch(ex => {
    console.log("exception:" + JSON.stringify(ex));
});
```

2. 控制台输出查询视频内容审核作业提交的结果，**查询视频内容审核**结果输出到控
制台。

JSON.stringify(result)::{"request_id":"xxxx","job_id":"xxx","status":"succeeded","request_params":
{"data":{"url":"xxxx","frame_interval":5},"event_type":"default","image_categories":
["porn","terrorism","image_text"],"audio_categories":
["porn","ad","moan","abuse"],"callback":"xxx"},"create_time":"2022-07-30T08:57:11.011Z","update_tim
e":"2022-07-30T08:57:14.014Z","result":{"suggestion":"block","image_detail":
[{"suggestion":"block","category":"porn","ocr_text":"123","time":0,"detail":
[{"confidence":0.676015138626099,"category":"porn","suggestion":"block","label":"pornography"},
{"confidence":0.666015138626099,"category":"porn","suggestion":"review","label":"sexy_female"},
{"confidence":0.666015138626099,"category":"xxx","suggestion":"block","label":"leader"},
{"confidence":0.691423773765564,"category":"xxx","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":200,"bottom_right_y":240},"label":"leader"},
{"confidence":0.691423773765564,"category":"porn","suggestion":"block","face_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000},"label":"leader"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code"},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"qr_code","qr_c
ontent":"xxxxxxxxx","qr_location":
{"top_left_x":12,"top_left_y":13,"bottom_right_x":100,"bottom_right_y":2000}},
{"confidence":0.891423773765564,"category":"image_text","suggestion":"block","label":"porn","segme
nts":[{"segment":"xxx"},{"segment":"xx"}]}]}],"audio_detail":
[{"suggestion":"block","label":"porn","audio_text":"xxxxx","end_time":10,"start_time":0,"detail":
[{"confidence":0.999117187582349,"label":"porn","suggestion":"block","segments":
[{"segment":"xxx"}]},{"confidence":0.885117187582349,"label":"porn","suggestion":"block"}]}]}}}