利用 vue 实现 java 后端视频点播(阿里云 OSS 上传)

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- 来源网站: 链滴
- 许可协议:署名-相同方式共享 4.0 国际 (CC BY-SA 4.0)



前几天做一个视频点播的功能点,遇到了一些困难,索性写一个方便大家学习。

一 前端上传

  前端用的是 oad

vue,组件库是Element,上传是其中的el up

  先写个框框来上传视频

```
<el-upload
      ref="uploadVideo"
      :action="uploadVideoUrl" //上传地址 (重要)
      //上传带的数据(如果只上传视频,可有可无)
      :multiple="false"
      :limit="1"
      :show-file-list="false"
      :before-upload="beforeUploadVideo" //上传前
:on-success="handleUploadVideoSuccess" //上传成功后
      :on-progress="uploadVideoProcess"> //上传中
      <el-button size="small" type="primary" class="uploadButton">上传视频文件</el-butt
n>
```

```
</el-upload>
```

```
  这里基本就这样写,在
```

Element(el-upload)中有详细的说明

uploadVideoUrl: 后端地址/upload video //后端上传视频的接口, 后面会写到

  前端基本就这样了,就是传个文件到后端

因为是利用的阿里云的视频点播技术,我是以需要在**pom.xml**中添加以下内容(都跟aliyun有关):

```
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-core</artifactId>
  <version>3.2.8</version>
</dependency>
<dependency>
  <groupId>com.aliyun.oss</groupId>
  <artifactId>aliyun-sdk-oss</artifactId>
  <version>3.1.0</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-dysmsapi</artifactId>
  <version>1.1.0</version>
</dependency>
<dependency>
  <groupId>com.aliyun</groupId>
  <artifactId>aliyun-java-sdk-vod</artifactId>
  <version>2.15.2</version>
</dependency>
```

再写个关于视频的配置文件,方便后期维护和调取

阿里云accessKey accessKeyId= ******** accessKeySecret = ******** #点播服务接入区域 regionId=cn-shanghai

  accessKey这东西可以在 那里

  有了这玩意,用这个在

阿里云申请获取就行,我记得是头

初始化一下,就可以无阻碍的弄他了

//注册

public DefaultAcsClient initVodClient() {
 String accessKeyId = SystemConfig.getProperty("accessKeyId");
 String accessKeySecret = SystemConfig.getProperty("accessKeySecret");
 String regionId = SystemConfig.getProperty("regionId");
 DefaultProfile profile = DefaultProfile.getProfile(regionId, accessKeyId, accessKeySecret);
 DefaultAcsClient client = new DefaultAcsClient(profile);
 return client;
 }

  继续,可以上传文件了,就是你前端上传的视频,首先是准备上传阶段,通这个接口,你会得到VideoId、UploadAddress和UploadAuth

public CreateUploadVideoResponse createUploadVideo(DefaultAcsClient vodClient,String f leName) throws ClientException {

maven项目,

CreateUploadVideoRequest request = new CreateUploadVideoRequest(); request.setFileName(fileName); //request.setTitle(title); //request.setDescription("this is desc"); //request.setTags("tag1,tag2"); //request.setCoverURL("http://vod.aliyun.com/test_cover_url.jpg"); //request.setCateId(-1L); //request.setCateId(-1L); //request.setTemplateGroupId(""); //request.setTorageLocation(""); //request.setStorageLocation(""); //request.setAppId("app-1000000"); //设置请求超时时间 return vodClient.getAcsResponse(request);

在这之前,我们可以对获取到的 Auth 进行**编码**处理

UploadAddress和Uploa

JSONObject uploadAuth = JSONObject.parseObject(decodeBase64(createUploadVideoRespo se.getUploadAuth())); JSONObject uploadAddress = JSONObject.parseObject(decodeBase64(createUploadVideoRe ponse.getUploadAddress()));

附上方法:

}

```
public String decodeBase64(String s) {
    byte[] b = null;
    String result = null;
    if (s != null) {
        Base64 decoder = new Base64();
        try {
            b = decoder.decode(s);
            result = new String(b, "utf-8");
        } catch (Exception e) {
        }
    }
    return result;
}
```

  有了 化一个OSS客户端来上传视频文件 UploadAddress和UploadAuth 后,我们就可以初

```
public OSSClient initOssClient(JSONObject uploadAuth, JSONObject uploadAddress) {
    String endpoint = uploadAddress.getString("Endpoint");
    String accessKeyId = uploadAuth.getString("AccessKeyId");
    String accessKeySecret = uploadAuth.getString("AccessKeySecret");
    String securityToken = uploadAuth.getString("SecurityToken");
    return new OSSClient(endpoint, accessKeyId, accessKeySecret, securityToken);
}
```

  接下来,就是最主要的功能了,终于到了上传文件环节(在这之前,把文件型转换成File,进度条可以正确显示百分比)

public void uploadLocalFile(OSSClient ossClient, JSONObject uploadAddress, File file, Http ervletRequest request) throws FileNotFoundException {

String bucketName = uploadAddress.getString("Bucket"); String objectName = uploadAddress.getString("FileName"); ossClient.putObject(new PutObjectRequest(bucketName, objectName, file). <PutObjectRequest>withProgressListener(new PutObjectProgressListener(req est.getSession()))); }   进度条是参考这个 老哥的,但是前后端session不一致,还 啥原因,无法传递session的值,导致无法传到前端,这还没解决。。。   最后写一个整合的方便查看 @RequestMapping("upload video") //前端的那个上传地址`uploadVideoUrl` @ResponseBody public ReturnObject uploadVideo(@RequestBody MultipartFile file,HttpServletRequest reque

t) {

HashMap<String, String> hashmap = new HashMap<String, String>(); if (file != null) { String fileName = file.getOriginalFilename();// 原文件名称 String trueFileName = String.valueOf(System.currentTimeMillis()) + fileName; //先初始化 DefaultAcsClient vodClient = vodService.initVodClient(); try { //转换成File InputStream inputStream = file.getInputStream(); File f = new File(fileName); this.inputStreamToFile(inputStream, f); //准备上传阶段 CreateUploadVideoResponse createUploadVideoResponse = vodService.createUplo dVideo(vodClient, trueFileName); //转化一下 JSONObject uploadAuth = JSONObject.parseObject(vodService.decodeBase64(crea eUploadVideoResponse.getUploadAuth())); JSONObject uploadAddress = JSONObject.parseObject(vodService.decodeBase64(c eateUploadVideoResponse.getUploadAddress())); // 使用UploadAuth和UploadAddress初始化OSS客户端 OSSClient ossClient = vodService.initOssClient(uploadAuth, uploadAddress); // 上传文件 vodService.uploadLocalFile(ossClient, uploadAddress, f,request); //最后,你可以对这个videold,进行保存到自个的数据库里的操作,方便后面通过ld获取视 地址进行视频点播操作 String videoId = createUploadVideoResponse.getVideoId(); } catch (ClientException e) { logger.error("视频文件上传错误("+e.getLocalizedMessage()+")"); hashmap.put("Put local file fail, ErrorMessage :", e.getLocalizedMessage()); } catch (FileNotFoundException e) { logger.error("视频文件上传错误("+e.getLocalizedMessage()+")"); hashmap.put("Put FileNotFoundException :", e.getLocalizedMessage()); } catch (IOException e) { e.printStackTrace(); J return ReturnObject.ok("上传视频成功").data(hashmap); } else { logger.error("上传音/视频失败失败: file为NULL");



  这样基本就结束了,整个上传过程,

videold很重要

vide

三 前端播放

}

  当你需要播放上传的视频的视频,就需要那个最重要的 ld(上传视频会返回一个videold)的帮助了 ,我们可以通过videold直接获取到视频播放地址

  通过这个接口,获取传递的

videold的播放地址

public GetPlayInfoResponse getPlayInfo(DefaultAcsClient client, String videoId) throws Clien
Exception {
 GetPlayInfoRequest request = new GetPlayInfoRequest();

request.setVideoId(videoId);

```
return client.getAcsResponse(request);
```

```
}
```

  接下来就写一个

整合的, 方便查看

```
@GetMapping("get url")
@ResponseBody
public ReturnObject getPlayUrl (String videoId) {
    //先初始化
    DefaultAcsClient client = vodService.initVodClient();
    GetPlayInfoResponse response = new GetPlayInfoResponse();
    HashMap<String,String> hashmap = new HashMap<String,String>();
    try {
      //获取videold对应的Info
      response = vodService.getPlayInfo(client,videoId);
      List < GetPlavInfoResponse.PlavInfo> plavInfoList = response.getPlavInfoList();
      for (GetPlayInfoResponse.PlayInfo playInfo : playInfoList) {
        //获取播放地址
        hashmap.put("PlayUrl", playInfo.getPlayURL());
        hashmap.put("Duration", playInfo.getDuration());
      }
    } catch (Exception e) {
      logger.error("获取播放地址错误("+e.getLocalizedMessage()+")");
      hashmap.put("ErrorMessage", e.getLocalizedMessage());
    }
    return ReturnObject.ok("获取播放地址成功").data(hashmap);
  }
                                                    PlayUrl, 这就是传说中的播放地址,
  最后前端就得到这个
```

  希望,互相学习,大家都得到进步

频点播也结束了。