



编写FastDFS工具类

FastDFSClient.java

```
package com.xxxx.fastdfsdemo;

import org.csource.common.NameValuePair;
import org.csource.fastdfs.ClientGlobal;
import org.csource.fastdfs.FileInfo;
import org.csource.fastdfs.StorageClient;
import org.csource.fastdfs.TrackerClient;
import org.csource.fastdfs.TrackerServer;
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.core.io.ClassPathResource;

import java.io.ByteArrayInputStream;
import java.io.IOException;
import java.io.InputStream;

/**
 * 文件上传工具类
 *
 * @author zhoubin
 * @since 1.0.0
 */
public class FastDFSClient {

    private static Logger logger = LoggerFactory.getLogger(FastDFSClient.class);

    //ClientGlobal.init 方法会读取配置文件，并初始化对应的属性。
    static{
        try {
            String filePath = new
ClassPathResource("fdfs_client.conf").getFile().getAbsolutePath();
            ClientGlobal.init(filePath);
        } catch (Exception e) {
            logger.error("FastDFS Client Init Fail!",e);
        }
    }

    /**
     * 上传文件
     * @param file
     * @return
     */
    public static String[] upload(FastDFSFile file) {
        logger.info("File Name: " + file.getName() + "File Length:" +
file.getContent().length);

        //文件属性信息
```



```
NameValuePair[] meta_list = new NameValuePair[1];
meta_list[0] = new NameValuePair("author", file.getAuthor());

long startTime = System.currentTimeMillis();
String[] uploadResults = null;
StorageClient storageClient=null;
try {
    //获取storage客户端
    storageClient = getStorageClient();
    //上传
    uploadResults = storageClient.upload_file(file.getContent(), file.getExt(),
meta_list);
} catch (IOException e) {
    logger.error("IO Exception when uploadind the file:" + file.getName(), e);
} catch (Exception e) {
    logger.error("Non IO Exception when uploadind the file:" + file.getName(), e);
}
logger.info("upload_file time used:" + (System.currentTimeMillis() - startTime) + "
ms");

//验证上传结果
if (uploadResults == null && storageClient!=null) {
    logger.error("upload file fail, error code:" + storageClient.getErrorCode());
}
//上传文件成功会返回 groupName.
logger.info("upload file successfully!!!" + "group_name:" + uploadResults[0] + ",
remoteFileName:" + " " + uploadResults[1]);
return uploadResults;
}

/**
 * 获取文件信息
 * @param groupName
 * @param remoteFileName
 * @return
 */
public static FileInfo getFile(String groupName, String remoteFileName) {
    try {
        StorageClient storageClient = getStorageClient();
        return storageClient.get_file_info(groupName, remoteFileName);
    } catch (IOException e) {
        logger.error("IO Exception: Get File from Fast DFS failed", e);
    } catch (Exception e) {
        logger.error("Non IO Exception: Get File from Fast DFS failed", e);
    }
    return null;
}

/**
 * 下载文件
 * @param groupName
 * @param remoteFileName
```



```
* @return
*/
public static InputStream downFile(String groupName, String remoteFileName) {
    try {
        StorageClient storageClient = getStorageClient();
        byte[] fileByte = storageClient.download_file(groupName, remoteFileName);
        InputStream ins = new ByteArrayInputStream(fileByte);
        return ins;
    } catch (IOException e) {
        logger.error("IO Exception: Get File from Fast DFS failed", e);
    } catch (Exception e) {
        logger.error("Non IO Exception: Get File from Fast DFS failed", e);
    }
    return null;
}

/**
 * 删除文件
 * @param groupName
 * @param remoteFileName
 * @throws Exception
 */
public static void deleteFile(String groupName, String remoteFileName)
    throws Exception {
    StorageClient storageClient = getStorageClient();
    int i = storageClient.delete_file(groupName, remoteFileName);
    logger.info("delete file successfully!!!" + i);
}

/**
 * 生成Storage客户端
 * @return
 * @throws IOException
 */
private static StorageClient getStorageClient() throws IOException {
    TrackerServer trackerServer = getTrackerServer();
    StorageClient storageClient = new StorageClient(trackerServer, null);
    return storageClient;
}

/**
 * 生成Tracker服务器端
 * @return
 * @throws IOException
 */
private static TrackerServer getTrackerServer() throws IOException {
    TrackerClient trackerClient = new TrackerClient();
    TrackerServer trackerServer = trackerClient.getTrackerServer();
    return trackerServer;
}

/**
```



```
* 获取文件路径
* @return
* @throws IOException
*/
public static String getTrackerUrl() throws Exception {
    TrackerClient trackerClient = new TrackerClient();
    TrackerServer trackerServer = trackerClient.getTrackerServer();
    StorageServer storeStorage = trackerClient.getStoreStorage(trackerServer);
    return "http://" + storeStorage.getInetAddress().getHostString() + ":8888/";
}
```

编写Controller

```
package com.xxxx.fastdfsdemo;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.multipart.MultipartFile;
import org.springframework.web.servlet.mvc.support.RedirectAttributes;

import java.io.IOException;
import java.io.InputStream;

/**
 * 文件上传Controller
 * @author zhoubin
 */
@Controller
public class UploadController {
    private static Logger logger = LoggerFactory.getLogger(UploadController.class);

    /**
     * 页面跳转
     * @return
     */
    @GetMapping("/")
    public String index() {
        return "upload";
    }

    /**
     * 上传文件
     * @param file
     * @param redirectAttributes
     * @return
     */
    @PostMapping("/upload")
    public String singleFileUpload(@RequestParam("file") MultipartFile file,
```



```
RedirectAttributes redirectAttributes) {  
    if (file.isEmpty()) {  
        redirectAttributes.addFlashAttribute("message", "Please select a file to  
upload");  
        return "redirect:uploadStatus";  
    }  
    try {  
        // 上传文件拿到返回的文件路径  
        String path=saveFile(file);  
        redirectAttributes.addFlashAttribute("message",  
            "You successfully uploaded '" + file.getOriginalFilename() + "'");  
        redirectAttributes.addFlashAttribute("path",  
            "file path url '" + path + "'");  
    } catch (Exception e) {  
        logger.error("upload file failed",e);  
    }  
    return "redirect:uploadStatus";  
}  
  
/**  
 * 页面跳转  
 * @return  
 */  
@GetMapping("/uploadStatus")  
public String uploadStatus() {  
    return "uploadStatus";  
}  
  
/**  
 * 上传文件  
 * @param multipartFile  
 * @return  
 * @throws IOException  
 */  
public String saveFile(MultipartFile multipartFile) throws Exception {  
    String[] fileAbsolutePath={};  
    String fileName=multipartFile.getOriginalFilename();  
    String ext = fileName.substring(fileName.lastIndexOf(".") + 1);  
    byte[] file_buff = null;  
    InputStream inputStream=multipartFile.getInputStream();  
    if(inputStream!=null){  
        int len1 = inputStream.available();  
        file_buff = new byte[len1];  
        inputStream.read(file_buff);  
    }  
    inputStream.close();  
    FastDFSFile file = new FastDFSFile(fileName, file_buff, ext);  
    try {  
        //上传文件  
        fileAbsolutePath = FastDFSClient.upload(file);  
    } catch (Exception e) {  
        logger.error("upload file Exception!",e);  
    }  
}
```



```
if (fileAbsolutePath==null) {  
    logger.error("upload file failed,please upload again!");  
}  
String path=FastDFSClient.getTrackerUrl()+fileAbsolutePath[0]+  
"/"+fileAbsolutePath[1];  
return path;  
}  
}
```

