

Spring MVC

概述

CommonsMultipartResolver是基于Apache的Commons FileUpload来实现文件上传功能的。

需要引入相关jar包:

```
<dependency>
  <groupId>commons-fileupload</groupId>
  <artifactId>commons-fileupload</artifactId>
  <version>1.3.3</version>
</dependency>
```

上传方法的实现

1. 代码方式

```
@Controller
@RequestMapping(value = "/file")
public class FileController {

    @RequestMapping(value = "/commUploadA")
    @ResponseBody
    public JSONObject commUploadA(HttpServletRequest request) {
        JSONObject json = new JSONObject();
        json.put("succ", false);
        try {
            //直接new一个CommonsMultipartResolver
            CommonsMultipartResolver cmr = new CommonsMultipartResolver(request.getServletContext());
            cmr.setDefaultEncoding("utf-8");
            cmr.setMaxInMemorySize(40960);
            cmr.setMaxUploadSize(1048576000L);
            if (cmr.isMultipart(request)) {
                MultipartHttpServletRequest multipartRequest = cmr.resolveMultipart(request);
                MultipartFile file = multipartRequest.getFile("uploadFile");// 与页面input的name相同
                File imageFile = new File("d:/upload1.jpg");// 上传后的文件保存目录及名字
                file.transferTo(imageFile);// 将上传文件保存到相应位置
                json.put("succ", true);
                return json;
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
        return json;
    }
}
```

2. Xml方式

通过spring配置一个名为"multipartResolver"的bean

```
``Xml
<bean id="multipartResolver"
```

```

class="org.springframework.web.multipart.commons.CommonsMultipartResolver">
<property name="defaultEncoding" value="utf-8"></property>
<property name="maxUploadSize" value="1048576000"></property>
<property name="maxInMemorySize" value="40960"></property>
</bean>
...
controller中的方法做相应修改
```java
@Controller
@RequestMapping(value = "/file")
public class FileController {

 @RequestMapping(value = "/commUploadB")
 @ResponseBody
 public JSONObject commUploadB(MultipartHttpServletRequest request) { //参数类型不同
 JSONObject json = new JSONObject();
 json.put("succ", false);
 try {
 MultipartFile file = request.getFile("uploadFile");// 与页面input的name相同
 File imageFile = new File("d:/upload2.jpg");// 上传后的文件保存目录及名字
 file.transferTo(imageFile);// 将上传文件保存到相应位置
 json.put("succ", true);
 return json;
 } catch (Exception e) {
 e.printStackTrace();
 return json;
 }
 }
}
...

```

## 注意:

在使用xml方式时，bean的名字必须为：multipartResolver。可在  
org.springframework.web.servlet.DispatcherServlet中找到原因：  
DispatcherServlet#MULTIPART\_RESOLVER\_BEAN\_NAME

# Spring Boot

## 运用

```

//处理文件上传
// 如果是多文件上传
@RequestMapping(value="/upload", method = RequestMethod.POST)
public @ResponseBody String uploadImg(MultipartFile file,
 HttpServletRequest request) {
 String contentType = file.getContentType();
 String fileName = file.getOriginalFilename();
 /*System.out.println("fileName-->" + fileName);
 System.out.println("getContentType-->" + contentType);*/
 String filePath = request.getSession().getServletContext().getRealPath("fileSaveDir/");
 try {
 FileUtil.uploadFile(file.getBytes(), filePath, fileName);
 } catch (Exception e) {
 // TODO: handle exception
 }
 //返回json
 return "uploading success";
}

```

```

}

// Stream写入到文件中
public static void uploadFile(byte[] file, String filePath, String fileName) throws Exception {
 File targetFile = new File(filePath);
 if(!targetFile.exists()){
 targetFile.mkdirs();
 }
 FileOutputStream out = new FileOutputStream(filePath+fileName);
 out.write(file);
 out.flush();
 out.close();
}

```

## 多文件上传

```

@RequestMapping(value="/upload", method = RequestMethod.POST)
public @ResponseBody String uploadImg(MultipartFile[] files,HttpServletRequest request){
 // 接收文件
}

```

## 文件大小控制

如果上传的文件大于 1M 时，上传会报错文件太大的错误，在 `application.properties` 中设置上传文件的参数即可

```

spring.http.multipart.maxFileSize=100Mb
spring.http.multipart.maxRequestSize=100Mb

```

## 文件下载

```

@RequestMapping(value = "/testDownload", method = RequestMethod.GET)
public void Download(HttpServletResponse res) {
 String fileName = "1.png";
 res.setHeader("content-type", "application/octet-stream");
 res.setContentType("application/octet-stream");
 res.setHeader("Content-Disposition", "attachment;filename=" + fileName);
 byte[] buff = new byte[1024];
 BufferedInputStream bis = null;
 OutputStream os = null;
 try {
 os = res.getOutputStream();
 bis = new BufferedInputStream(new FileInputStream(new File("d://" + fileName)));
 int i = bis.read(buff);
 while (i != -1) {
 os.write(buff, 0, buff.length);
 os.flush();
 i = bis.read(buff);
 }
 } catch (IOException e) {
 e.printStackTrace();
 } finally {
 if (bis != null) {
 try {
 bis.close();
 } catch (IOException e) {
 e.printStackTrace();
 }
 }
 }
}

```

```
System.out.println("success");
}
```

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