

# 基于SpringBoot的文件上传

在实际的企业开发中,文件上传是最常见的功能之一,SpringBoot集成了SpringMVC常用的功能,当然也包含了文件上传的功能,实现起来没有太多的区别。

下面我们来讲解一下,使用SpringBoot如何实现多个文件上传操作。使用的环境是IntelliJ IDE开发工具。

第一章:使用SpringBoot上传单个文件

开发过程如下:

第一步:配置pom.xml文件

```
<?xml version="1.0" encoding="UTF-8"?>
project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0"
http://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>com.sudojava.springboot_upload
  <artifactId>springboot upload</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <packaging>jar</packaging>
  <name>springboot_upload</name>
  <description>Demo project for Spring Boot</description>
  <parent>
     <groupId>org.springframework.boot
     <artifactId>spring-boot-starter-parent</artifactId>
     <version>1.5.8.RELEASE
     <relativePath/> <!-- lookup parent from repository -->
   /parent>
   cproperties>
     project.build.sourceEncoding>UTF-8/project.build.sourceEncoding>
     <java.version>1.8</java.version>
   /properties>
  <dependencies>
     <dependency>
        <groupId>org.springframework.boot
        <artifactId>spring-boot-starter-thymeleaf</artifactId>
     </dependency>
     <dependency>
```

```
<groupId>org.springframework.boot
        <artifactId>spring-boot-starter-web</artifactId>
     </dependency>
     <dependency>
        <groupId>org.springframework.boot
        <artifactId>spring-boot-starter-test</artifactId>
        <scope>test</scope>
     </dependency>
  </dependencies>
  <build>
     <plugins>
        <plugin>
           <groupId>org.springframework.boot</groupId>
           <artifactId>spring-boot-maven-plugin</artifactId</pre>
           <configuration>
              <fork>true</fork>
           </configuration>
        </plugin>
     </plugins>
  </build>
</project>
```

### 第二步: 单个文件上传的Controller类

```
package com.sudojava.springboot_upload;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
import java.io.File;
@Controller
public class SimpleFileController {
   @RequestMapping(value = "/uploadsimplefile", method = RequestMethod.POST)
   @ResponseBody
    public String uploadSimpleFile(@RequestParam("attachment") MultipartFile file,
HttpServletRequest request) {
        try {
```

#### 第三步: 文件上传的页面

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org";</pre>
<head>
    <title>文件上传</title>
    <meta charset="utf-8"/>
    <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
    <meta name="viewport" content="width=device-width,initial-scale=1,user-</pre>
scalable=no"/>
    <!--引入CSS样式-->
    <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css"/>
</head>
<body>
<div class="container">
    <div class="panel panel-primary">
       <div class="panel-heading">
            <h3 class="panel-title">单个文件上传</h3>
        </div>
        <div class="panel-body">
            <form class="form-horizontal" method="post" enctype="multipart/form-</pre>
data" th:action="@{/uploadsimplefile}" role="form">
                <div class="form-group">
                    <label for="attachment" class="col-sm-2 control-label">文件上
传: </label>
                    <div class="col-sm-5">
                        <input type="file" class="form-control" name="attachment"</pre>
id="attachment" placeholder="请选择邮件附件"/>
                    </div>
```

```
</div>
                <div class="form-group">
                    <div class="col-sm-offset-2 col-sm-10">
                        <button type="submit" class="btn btn-default">上&nbsp;
传</button>
                    </div>
                </div>
            </form>
        </div>
    </div>
</div>
<!--导入;是文件-->
<script src="js/jquery.min.js"></script>
<script src="js/bootstrap.min.js"></script>
</body>
</html>
```

## 第二章:使用SpringBoot上传多个文件

```
package com.sudojava.springboot_upload;
import org.springframework.stereotype.Controller;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.RequestMethod;
import org.springframework.web.bind.annotation.RequestParam;
import org.springframework.web.bind.annotation.ResponseBody;
import org.springframework.web.multipart.MultipartFile;
import javax.servlet.http.HttpServletRequest;
import java.io.File;
import java.io.IOException;
@Controller
public class UploadFileController {
    @RequestMapping(value = "/uploadsimplefile", method = RequestMethod.POST)
    public String uploadSimpleFile(@RequestParam("attachment") MultipartFile file,
HttpServletRequest request) {
        try {
            String fileDir =
request.getSession().getServletContext().getRealPath("/upload/");
            System.out.println("---->>"+fileDir);
            File dir = new File(fileDir);
            if (!dir.exists()) {
                dir.mkdirs();
            String fileName = file.getOriginalFilename();
```

```
File upload file = new File(fileDir + fileName);
           file.transferTo(upload_file);
       } catch (Exception e) {
            e.printStackTrace();
            return "上传失败";
       return "上传成功";
   }
   @RequestMapping(value = "/uploadmultifile", method = RequestMethod.POST)
   @ResponseBody
   public String uploadMultiFile(@RequestParam("attachment") MultipartFile[]
file, HttpServletRequest request) {
       try {
           String fileDir =
request.getSession().getServletContext().getRealPath("/upload/");
           System.out.println("---->>"+fileDir);
           File dir = new File(fileDir);
           if (!dir.exists()) {
               dir.mkdirs();
            }
           for (int i=0;i<file.length;i++){</pre>
               if (file[i]!=null){
                   uploadFile(fileDir,file[i]);
               }
            }
       } catch (Exception e) {
            e.printStackTrace();
            return "上传失败";
        return "上传成功"
      @param uploadDir
      @param file
     * @throws IOException
   public void uploadFile(String uploadDir,MultipartFile file) throws
IOException{
       String file_name = file.getOriginalFilename();
       File upload_file = new File(uploadDir+file_name);
       file.transferTo(upload_file);
}
```

#### 上传的HTML界面

```
<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
    <title>文件上传</title>
    <meta charset="utf-8"/>
    <meta http-equiv="X-UA-Compatible" content="IE=edge"/>
    <meta name="viewport" content="width=device-width,initial-scale=1,user</pre>
scalable=no"/>
    <!--引入CSS样式-->
    <link rel="stylesheet" type="text/css" href="css/bootstrap.min.css"/</pre>
</head>
<body>
<div class="container">
    <div class="panel panel-primary">
        <div class="panel-heading">
            <h3 class="panel-title">单个文件上传</h3>
        </div>
        <div class="panel-body">
            <form class="form-horizontal" method="post" enctype="multipart/form-</pre>
data" th:action="@{/uploadmultifile}" role="form">
                <div class="form-group">
                    <label for="attachment1" class="col-sm-2 control-label">文件上
传: </label>
                    <div class="col-sm-5">
                        cinput type="file" class="form-control" name="attachment"
id="attachment1" placeholder="请选择邮件附件"/>
                   </div>
                </div>
                <div class="form-group">
                    <label for="attachment2" class="col-sm-2 control-label">文件上
传: </label>
                    <div class="col-sm-5">
                        <input type="file" class="form-control" name="attachment"</pre>
id="attachment2" placeholder="请选择邮件附件"/>
                    </div>
                </div>
                <div class="form-group">
                    <label for="attachment3" class="col-sm-2 control-label">文件上
传: </label>
                    <div class="col-sm-5">
                        <input type="file" class="form-control" name="attachment"</pre>
id="attachment3" placeholder="请选择邮件附件"/>
                    </div>
                </div>
                <div class="form-group">
```

