

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</groupId>
  <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</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>1.5.8.RELEASE</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>

  <properties>
    <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
    <project.reporting.outputEncoding>UTF-8</project.reporting.outputEncoding>
    <java.version>1.8</java.version>
  </properties>

  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>
    <dependency>
```

```

        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-web</artifactId>
    </dependency>

    <dependency>
        <groupId>org.springframework.boot</groupId>
        <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>
            <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 {

```

```

        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";
}
}

```

第三步：文件上传的页面

```

<!DOCTYPE html>
<html xmlns:th="http://www.thymeleaf.org">
<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-
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-
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"
id="attachment" placeholder="请选择邮件附件"/>
                    </div>

```



```

        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++){
            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">
<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-
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-
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">
                        <input 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"
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"
id="attachment3" placeholder="请选择邮件附件"/>
                    </div>
                </div>
            </form>
        </div>
    </div>
</div>
```

[illegible]