**File upload and download in Spring boot**

**MainController.java**

package com.ecommerce.controllers;

import java.io.File;

import java.io.FileInputStream;

import java.io.FileOutputStream;

import java.io.IOException;

import org.springframework.core.io.ClassPathResource;

import org.springframework.core.io.InputStreamResource;

import org.springframework.core.io.Resource;

import org.springframework.http.HttpHeaders;

import org.springframework.http.HttpStatus;

import org.springframework.http.MediaType;

import org.springframework.http.ResponseEntity;

import org.springframework.stereotype.Controller;

import org.springframework.util.ResourceUtils;

import org.springframework.web.bind.annotation.ExceptionHandler;

import org.springframework.web.bind.annotation.PathVariable;

import org.springframework.web.bind.annotation.PostMapping;

import org.springframework.web.bind.annotation.RequestBody;

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;

@Controller

public class MainController {

@RequestMapping(value = "/")

public String index() {

return "index.html";

}

private static final String *updir* = "D:/var/tmp/";

@PostMapping(value = "/upload", consumes =

MediaType.*MULTIPART\_FORM\_DATA\_VALUE*)

@ResponseBody

public String fileUpload(@RequestParam("file") MultipartFile file)

{

String result= "File was uploaded successfully";

try {

File directory = new File(*updir*);

if (!directory.exists()) {

directory.mkdirs();

}

File convertFile = new

File(*updir*+file.getOriginalFilename());

convertFile.createNewFile();

FileOutputStream fout = new FileOutputStream(convertFile);

fout.write(file.getBytes());

fout.close();

return result;

} catch (IOException iex) {

result = "Error " + iex.getMessage();

}catch (Exception ex) {

result = "Unexpected error: " + ex.getMessage();

}

return result;

}

@RequestMapping(value = "/download", method = RequestMethod.*GET*)

public ResponseEntity<Object> downloadFile() throws IOException {

String fileName = "static/dump.txt";

ClassLoader classLoader = new

MainController().getClass().getClassLoader();

File file = new File(classLoader.getResource(fileName).getFile());

InputStreamResource resource = new InputStreamResource(new

FileInputStream(file));

HttpHeaders headers = new HttpHeaders();

headers.add("Content-Disposition", String.*format*("attachment;

filename=\"%s\"", file.getName()));

headers.add("Cache-Control", "no-cache, no-store, mustrevalidate");

headers.add("Pragma", "no-cache");

headers.add("Expires", "0");

ResponseEntity<Object>

responseEntity =

ResponseEntity.*ok*().headers(headers).contentLength(file.length()).contentTy

pe(

MediaType.*parseMediaType*("application/txt")).body(resource);

return responseEntity;

}

}

**index.html**

<html>

<head><title>File Upload</title></head>

<body>

<form method=*"post"* enctype=*"multipart/form-data"*

action=*"/upload"*>

Upload file&nbsp;

<input type=*"file"* name=*"file"* id=*"file"*><br><br>

<input type=*"submit"* value=*"Upload "* name=*"submit"*>

</form>

</body>

</html>

**dump.txt**

This is a file which has been downloaded via Spring Boot

**Output**





