

# File Handling

Step 1: Creating dump.txt as a file for downloading

- Enter File Name as dump.txt and click on Finish
- Add the following data:

This is a file which has been downloaded via Spring Boot

Step 2: Creating an HTML file that will show a form of uploading a file

```
<html>
<head><title>File Upload</title></head>
<body>

    <form method="post" enctype="multipart/form-data"
action="/upload">
        Upload file 
        <input type="file" name="fileToUpload" id="fileToUpload">
<br><br>
        <input type="submit" value="Upload " name="submit">
    </form>
</body>
</html>
```

Step 3: Creating MainController for handling file upload and download

```
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.PathVariable;
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";
    }

```

```

        @RequestMapping(value = "/upload", method =
RequestMethod.POST, consumes =
MediaType.MULTIPART_FORM_DATA_VALUE)
        public String fileUpload(@RequestParam("file") MultipartFile
file) {
            String result = "File was uploaded successfully";

            try {
                File convertFile = new
File("/var/tmp/"+file.getOriginalFilename());
                convertFile.createNewFile();

```

```

        FileOutputStream fout = new FileOutputStream(convertFile);
        fout.write(file.getBytes());
        fout.close();

        } catch (IOException iex) {
            result = "Error " + iex.getMessage();

        } finally {
            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, must-
revalidate");
        headers.add("Pragma", "no-cache");
        headers.add("Expires", "0");

        ResponseEntity<Object>
responseEntity =
ResponseEntity.ok().headers(headers).contentType(file.length()).c
ontentLength(file.length()).contentType(

```

```
MediaType.parseMediaType("application/txt")).body(resource);  
    return responseEntity;  
}
```