

Phase3 Assisted project2:

1.3 Create a project to upload and download a file in Spring Boot.

Index.html

```
<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>
```

Maincontroller:

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

        return responseEntity;
    }
}

```