## SpringBoot - Update Profile on the Spring Boot Blog

**Create a folder -> in the -> src -> resources -> uploads**

**Attach a new dependency -> Apache commons**

```xml
<!-- https://mvnrepository.com/artifact/org.apache.commons/commons-lang3 -->
<dependency>
    <groupId>org.apache.commons</groupId>
    <artifactId>commons-lang3</artifactId>
    <version>3.15.0</version>
</dependency>
```

**In profile.html -> add below code -> Add Image Input file to update**

```html
<!--Adding Image File Input Form-->
<form method="post" th:action="@{/update_photo}" enctype="multipart/form-data">
    <div class="form-group">
        <input type="file" name="file" class="form-control-file">
    </div>
<button type="submit" class="btn btn-primary">Update photo</button></form>
```

**In below code**

```html
<!--Adding Photo in this code-->
<img th:src="@{${photo}}" class="rounded-circle" style="width: 150px; float:
left; padding: 10px 10px 10px 10px;" alt="Avatar"  />
<!--Adding Image File Input Form-->
<form method="post" th:action="@{/update_photo}" enctype="multipart/form-data">
    <div class="form-group">
        <input type="file" name="file" class="form-control-file">
    </div>
<button type="submit" class="btn btn-primary">Update photo</button>
```

**In AccountController -> add below code**

```java
@PostMapping("/update_photo")
    @PreAuthorize("isAuthenticated()")
    public String update_photo(@RequestParam("file") MultipartFile file,
RedirectAttributes attributes, Principal principal) {
        if(file.isEmpty()){
            attributes.addFlashAttribute("error", "No file uploaded");
```

```
        return "redirect:/profile";
    }
    return "";
}
```
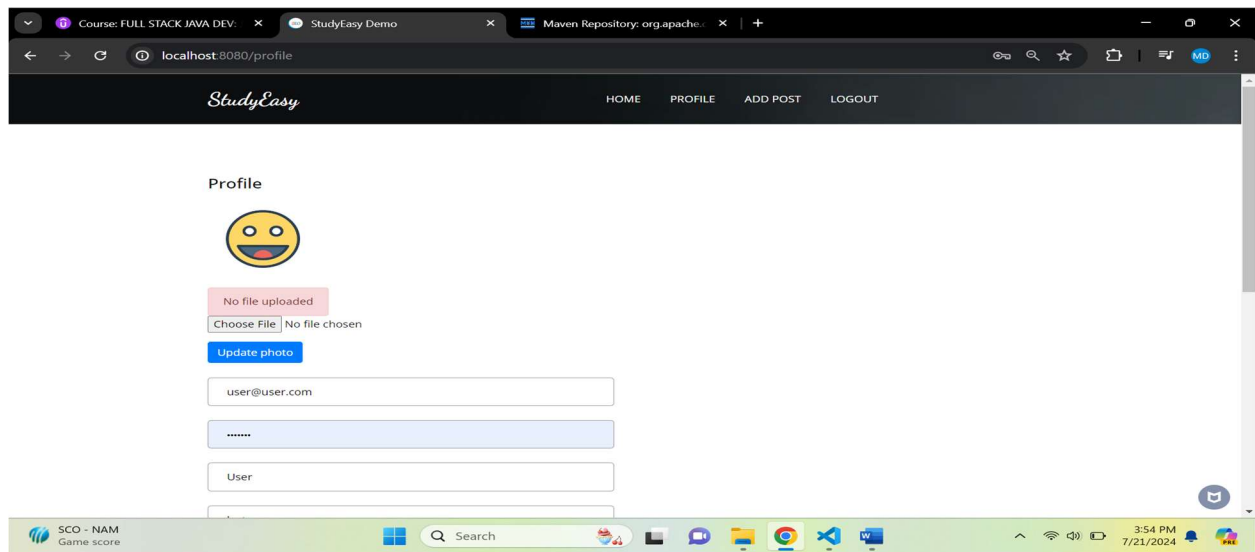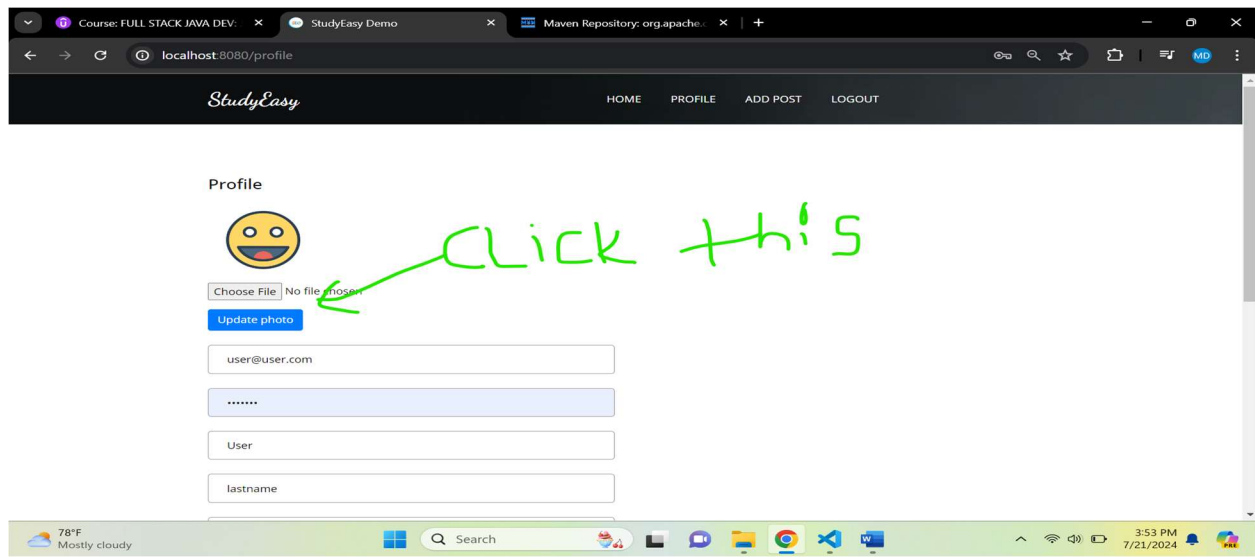
## In profile.html -> A flash message to be added

```
<!--Paragraph flash message-->
    <p th:text="${error}" th:if="${error ne null}" class="alert alert-
danger"></p>
```

## Output

## Create a AppUtil.java in utils folder

```java
package org.studyeasy.SpringBlog.util;

import java.io.File;

public class AppUtil {
    public static String get_upload_path(String fileName){
        return new
File("src\\main\\resources\\static\\uploads").getAbsolutePath() + "\\" +
fileName;

    }
}
```

**Using \\ is very important as it is also escape sequence – not one single slash.**

**@Value only works if it is controller or service layer.**

**In reference to :**

```
# Static files setting
spring.mvc.static-path-pattern=/resources/static/**
```

```java
@Value("${spring.mvc.static-path-pattern}")
private String photo_prefix;
```

## In AccountController -> Add below code

```java
@PostMapping("/update_photo")
@PreAuthorize("isAuthenticated()")
public String update_photo(@RequestParam("file") MultipartFile file,
RedirectAttributes attributes, Principal principal) {
    if(file.isEmpty()){
        attributes.addFlashAttribute("error", "No file uploaded");
        return "redirect:/profile";
    }else{
        String fileName = StringUtils.cleanPath(file.getOriginalFilename());
        try{
            int length = 10;
            boolean useLetters = true;
            boolean useNumbers = true;
```

```java
                String generatedString = RandomStringUtils.random(length,
useLetters, useNumbers);
                String final_photo_name = generatedString + fileName;
                String absolute_fileLocation =
AppUtil.get_upload_path(final_photo_name);

                Path path = Paths.get(absolute_fileLocation);
                Files.copy(file.getInputStream(), path,
StandardCopyOption.REPLACE_EXISTING);
                attributes.addFlashAttribute("message", "You successfully
uploaded");

                String authUser = "email";
                if (principal != null) {
                    authUser = principal.getName();
                }

                Optional<Account> optionalAccount =
accountService.findOneByEmail(authUser);
                if (optionalAccount.isPresent()) {
                    Account account = optionalAccount.get();
                    Account account_by_id =
accountService.findOneById(account.getId()).get();
                    String relative_fileLocation = photo_prefix.replace("**",
"uploads/"+final_photo_name );
                    account_by_id.setPhoto(relative_fileLocation);
                    accountService.save(account_by_id);
                }
                try{
                    TimeUnit.SECONDS.sleep(1);
                }catch(InterruptedException ie){
                    Thread.currentThread().interrupt();
                }
                return "redirect:/profile";
            }catch(Exception e){
                //TODO : handle exception
            }
        }
        return "";
    }
```

**Output**

**StudyEasy**

HOME    PROFILE    ADD POST    LOGOUT

## Profile



Choose File | No file chosen

**Update photo**

user@user.com

••••••••

User

lastname

---

Auto commit | Max rows: 1000 | Auto complete: Off | Auto select: On

Run | Run Selected | Auto complete | Clear | SQL statement:

SELECT * FROM ACCOUNT

- jdbc:h2:file:./db/blogdb
- ACCOUNT
- ACCOUNT_AUTHORITY
- AUTHORITY
- POST
- INFORMATION_SCHEMA
- Sequences
- Users
- H2 2.1.214 (2022-06-13)

SELECT * FROM ACCOUNT;

| ID | AGE | DATE_OF_BIRTH | EMAIL | FIRSTNAME | GENDER | LASTNAME | PASSWORD | PHOTO | ROLE |
|----|-----|---------------|-------|-----------|--------|----------|----------|-------|------|
| 1 | 25 | 1990-01-01 | user@user.com | User | Male | lastname | $2a$10$0/6NbQCiyUMyvQSRIto/BezW0jAUJLX1VNpLfKGrq2CyE4mZJO8s6 | /resources/static/uploads/JB93yx0H9Zchandu_Waterfall.jpg | ROLE_USER |
| 2 | 25 | 1990-01-01 | admin@admin.com | Admin | Male | lastname | $2a$10$oxZ9l2WpS5SFJ076ZoAiy.9LMyk3dJOTxbIlpwUAJTl9z7Jr8G24W | /resources/static/images/person.png | ROLE_ADMIN |
| 3 | 55 | 1998-02-01 | editor@editor.com | Editor | Female | lastname | $2a$10$0Yh/ym3LzjU3YqzJPtr00.9W.pcOQTFXYgZDgu1wl02.z66Qo6l6S | /resources/static/images/person.png | ROLE_EDITOR |
| 4 | 40 | 1973-08-01 | super_editor@editor.com | Editor | Male | lastname | $2a$10$MzVx7rSEtUmSL3vTaVkIPuvhrIgeG5HL9rFoS/u7DSoftIhpI1Pp6 | /resources/static/images/person.png | ROLE_EDITOR |

(4 rows, 1 ms)

Edit

*It gets updated*
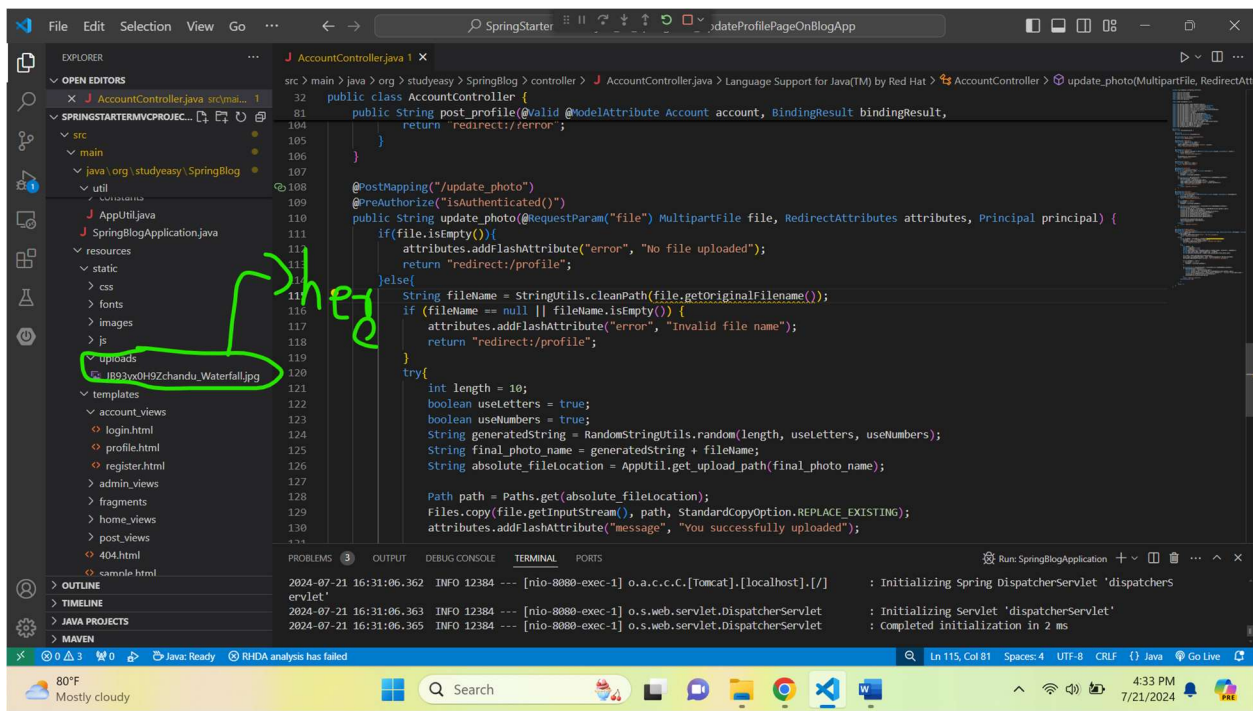
## Updated AccountController method -> update_photo

```java
@PostMapping("/update_photo")
    @PreAuthorize("isAuthenticated()")
    public String update_photo(@RequestParam("file") MultipartFile file,
RedirectAttributes attributes,
            Principal principal) {
        if (file.isEmpty()) {
            attributes.addFlashAttribute("error", "No file uploaded");
            return "redirect:/profile";
        } else {
            String fileName = file.getOriginalFilename();
            if (fileName == null || fileName.isEmpty()) {
                attributes.addFlashAttribute("error", "Invalid file name");
                return "redirect:/profile";
            }
            String cleanedFileName = StringUtils.cleanPath(fileName);

            try {
                int length = 10;
                boolean useLetters = true;
                boolean useNumbers = true;
                String generatedString = RandomStringUtils.random(length,
useLetters, useNumbers);
                String finalPhotoName = generatedString + cleanedFileName;
```

```java
                String absoluteFileLocation =
AppUtil.get_upload_path(finalPhotoName);

                Path path = Paths.get(absoluteFileLocation);
                Files.copy(file.getInputStream(), path,
StandardCopyOption.REPLACE_EXISTING);
                attributes.addFlashAttribute("message", "You successfully
uploaded");

                String authUser = "email";
                if (principal != null) {
                    authUser = principal.getName();
                }

                Optional<Account> optionalAccount =
accountService.findOneByEmail(authUser);
                if (optionalAccount.isPresent()) {
                    Account account = optionalAccount.get();
                    Account accountById =
accountService.findOneById(account.getId()).orElse(null);
                    if (accountById != null) {
                        String relativeFileLocation = photo_prefix.replace("**",
"uploads/" + finalPhotoName);
                        accountById.setPhoto(relativeFileLocation);
                        accountService.save(accountById);
                    }
                    try {
                        TimeUnit.SECONDS.sleep(1);
                    } catch (InterruptedException ie) {
                        Thread.currentThread().interrupt();
                    }
                }
                return "redirect:/profile";
            } catch (Exception e) {
                attributes.addFlashAttribute("error", "An error occurred while
uploading the photo");
                return "redirect:/profile";
            }
        }
    }
```

**The error was due not proper closing of form tag- </form> – ErrorLog – 21/7/2024**

**so, when I try to click on update data the validation for photo should not come in between**