java_springboot_restful_31_AlbumController – Download Photo API

ResponseEntity<?> -> It can return any information.

In AppUtil.java -> add below code

```java
public static Resource getFileAsResource(long album_id, String folder_name,
String file_name) throws IOException {
        String location =
"src\\main\\resources\\static\\uploads\\"+album_id+"\\"+folder_name+"\\"+file_nam
e;
        File file = new File(location);
        if (file.exists()){
            Path path = Paths.get(file.getAbsolutePath());
            return new UrlResource(path.toUri());
        }else{
            return null;
        }
```

In PhotoService.java -> add below code

```java
 public Optional<Photo> findById(long id){
        return photoRepository.findById(id);
    }
```

In AlbumError.java -> add below code

```java
package org.studyeasy.SpringRestdemo.util.constants;

public enum AlbumError {
    ADD_ALBUM_ERROR,
    PHOTO_UPLOAD_ERROR
}
```

Add this below code in AlbumController.java

```java
 @GetMapping("albums/{album_id}/photos/{photo_id}/download-photo")
    @SecurityRequirement(name = "studyeasy-demo-api")
    public ResponseEntity<?> downloadPhoto(@PathVariable("album_id") long
album_id,
            @PathVariable("photo_id") long photo_id, Authentication
authentication) {
```

```java
        String email = authentication.getName();
        Optional<Account> optionalAccount = accountService.findByEmail(email);
        Account account = optionalAccount.get();

        Optional<Album> optionalAlbum = albumService.findById(album_id);
        Album album;
        if (optionalAlbum.isPresent()) {
            album = optionalAlbum.get();
            if (account.getId() != album.getAccount().getId()) {
                return ResponseEntity.status(HttpStatus.FORBIDDEN).body(null);
            }
        } else {
            return ResponseEntity.status(HttpStatus.BAD_REQUEST).body(null);
        }
        Optional<Photo> optionalPhoto = photoService.findById(photo_id);
        if (optionalPhoto.isPresent()) {
            Photo photo = optionalPhoto.get();
            Resource resource = null;
            try {
                resource = AppUtil.getFileAsResource(album_id,
PHOTOS_FOLDER_NAME, photo.getFileName());
            } catch (IOException e) {
                return ResponseEntity.internalServerError().build();
            }
            if (resource == null) {
                return new ResponseEntity<>("File not found",
HttpStatus.NOT_FOUND);
            }
            String contentType = "application/octet-stream";
            String headerValue = "attachment; filename=\"" +
photo.getOriginalFileName() + "\"";

            return ResponseEntity.ok()
                    .contentType(MediaType.parseMediaType(contentType))
                    .header(HttpHeaders.CONTENT_DISPOSITION, headerValue)
                    .body(resource);
        } else {
            return ResponseEntity.status(HttpStatus.BAD_REQUEST).body(null);

        }
    }
```