**java\_springboot\_restful\_31\_AlbumController – Download Photo API**

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

**In AppUtil.java -> add below code**

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\_name;

        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**

 public Optional<Photo> findById(long id){

        return photoRepository.findById(id);

    }

**In AlbumError.java -> add below code**

package org.studyeasy.SpringRestdemo.util.constants;

public enum AlbumError {

    ADD\_ALBUM\_ERROR,

    PHOTO\_UPLOAD\_ERROR

}

**Add this below code in AlbumController.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) {

        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);

        }

    }