<u>AlbumController – Build Add Album API</u>

Create a DTO album in payload folder -> AlbumPayloadDTO.java

```
package org.studyeasy.SpringRestdemo.payload.auth.album;
import io.swagger.v3.oas.annotations.media.Schema;
import io.swagger.v3.oas.annotations.media.Schema.RequiredMode;
import jakarta.validation.constraints.NotBlank;
import lombok.AllArgsConstructor;
import lombok.Getter;
import lombok.NoArgsConstructor;
import lombok.Setter;
import lombok.ToString;
@Getter
@Setter
@ToString
@NoArgsConstructor
@AllArgsConstructor
public class AlbumPayloadDTO {
    @NotBlank
    @Schema(description = "Album name", example = "Travel", requiredMode =
RequiredMode.REQUIRED)
    private String name;
    @NotBlank
    @Schema(description = "Description for the Album", example = "description",
requiredMode = RequiredMode.REQUIRED)
    private String description;
```

Create a DTO album in payload folder -> AlbumViewDTO.java

```
package org.studyeasy.SpringRestdemo.payload.auth.album;
import io.swagger.v3.oas.annotations.media.Schema;
import io.swagger.v3.oas.annotations.media.Schema.RequiredMode;
import jakarta.validation.constraints.NotBlank;
import lombok.AllArgsConstructor;
import lombok.Getter;
import lombok.NoArgsConstructor;
```

```
import lombok.Setter;
import lombok.ToString;
@Getter
@Setter
@ToString
@NoArgsConstructor
@AllArgsConstructor
public class AlbumViewDTO {
   private long id;
    @NotBlank
    @Schema(description = "Album name", example = "Travel", requiredMode =
RequiredMode.REQUIRED)
    private String name;
    @NotBlank
    @Schema(description = "Description for the Album", example = "description",
requiredMode = RequiredMode.REQUIRED)
    private String description;
```

<u>Create a enum in util folder -> AlbumSuccess.java and AlbumError.java</u> <u>AlbumSuccess.java</u>

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

public enum AlbumSuccess {
    ALUBM_ADDED
}
```

AlbumError.java

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

public enum AlbumError {
    ADD_ALBUM_ERROR
}
```

Updated AlbumController.java

```
package org.studyeasy.SpringRestdemo.controller;
import java.util.Optional;
import org.springframework.beans.factory.annotation.Autowired;
import org.springframework.http.HttpStatus;
import org.springframework.http.ResponseEntity;
import org.springframework.security.core.Authentication;
import org.springframework.web.bind.annotation.PostMapping;
import org.springframework.web.bind.annotation.RequestMapping;
import org.springframework.web.bind.annotation.ResponseStatus;
import org.springframework.web.bind.annotation.RestController;
import org.studyeasy.SpringRestdemo.model.Account;
import org.studyeasy.SpringRestdemo.model.Album;
import org.studyeasy.SpringRestdemo.payload.auth.album.AlbumPayloadDTO;
import org.studyeasy.SpringRestdemo.payload.auth.album.AlbumViewDTO;
import org.studyeasy.SpringRestdemo.service.AccountService;
import org.studyeasy.SpringRestdemo.service.AlbumService;
import org.studyeasy.SpringRestdemo.util.constants.AlbumError;
import io.swagger.v3.oas.annotations.Operation;
import io.swagger.v3.oas.annotations.parameters.RequestBody;
import io.swagger.v3.oas.annotations.responses.ApiResponse;
import io.swagger.v3.oas.annotations.security.SecurityRequirement;
import io.swagger.v3.oas.annotations.tags.Tag;
import jakarta.validation.Valid;
import lombok.extern.slf4j.Slf4j;
@RestController
@RequestMapping("api/v1/album")
@Tag(name = "Album Controller", description = "Controller for Album and Photo
management")
@Slf4i
public class AlbumController {
    @Autowired
    private AccountService accountService;
    @Autowired
    private AlbumService albumService;
    @PostMapping(value = "/albums/add", consumes = "application/json", produces =
"application/ison")
```

```
@ResponseStatus(HttpStatus.CREATED)
   @ApiResponse(responseCode = "400", description = "Please add valid name for
description")
   @ApiResponse(responseCode = "201", description = "Account added")
    @Operation(summary = "Add an album")
   @SecurityRequirement(name = "studyeasy-demo-api")
    public ResponseEntity<AlbumViewDTO> addAlbum(@Valid @RequestBody
AlbumPayloadDTO albumPayloadDTO,
            Authentication authentication) {
        try {
           Album album = new Album();
            album.setName(albumPayloadDTO.getName());
            album.setDescription(albumPayloadDTO.getDescription());
            // Extract Account
            String email = authentication.getName();
            Optional<Account> optionalAccount =
accountService.findByEmail(email);
            Account account = optionalAccount.get();
            album.setAccount(account);
            album = albumService.save(album);
            AlbumViewDTO albumViewDTO = new AlbumViewDTO(album.getId(),
album.getName(), album.getDescription());
            return ResponseEntity.ok(albumViewDTO);
        } catch (Exception e) {
            log.debug(AlbumError.ADD_ALBUM_ERROR.toString() + ": " +
e.getMessage());
            return ResponseEntity.status(HttpStatus.BAD REQUEST).body(null);
```

In SecurityConfig.java -> update below line

```
.requestMatchers("/").permitAll()
to
.requestMatchers("/**").permitAll()
```

Updated application.properties

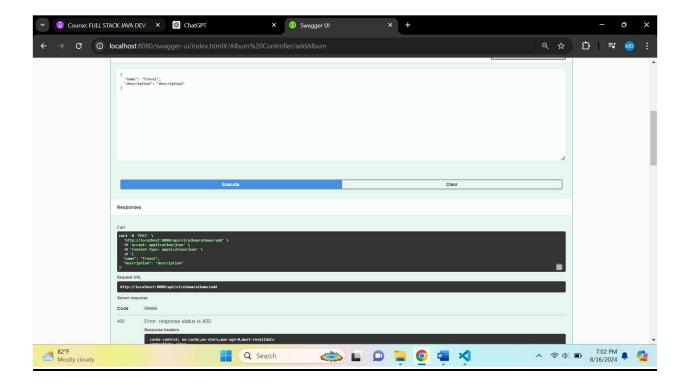
```
# Server port
Server.port=8080
# Database config
spring.datasource.url=jdbc:h2:file:./db/db
spring.datasource.driverClassName=org.h2.Driver
spring.datasource.username=admin
spring.datasource.password=pass987
spring.jpa.database-platform=org.hibernate.dialect.H2Dialect
# setup local h2 database console
spring.h2.console.enabled=true
spring.h2.console.path=/db-console
spring.h2.console.settings.web-allow-others=false
security.headers.frame=false
# local h2 tables setup on startup; use the value "none" in production!
spring.jpa.hibernate.ddl-auto=create-drop
# Logging setting
logging.level.org.studyeasy=DEBUG
logging.pattern.console=%d [%level] %c{1.} [%t] %m%n
logging.file.name = appLog.log
logging.pattern.file=%d [%level] %c{1.} [%t] %m%n
```

There was an error facing in controller - Wrong Import

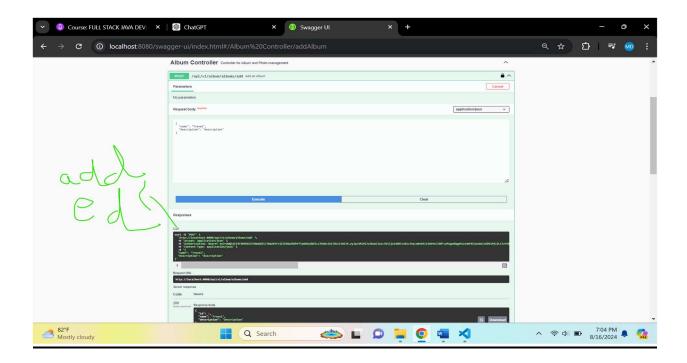
import org.springframework.web.bind.annotation.RequestBody;

- Incorrect Import: In the latest version, the <code>@RequestBody</code> annotation is incorrectly imported from <code>io.swagger.v3.oas.annotations.parameters.RequestBody</code>. This is a Swagger annotation used for documentation purposes, not for binding HTTP request bodies to method parameters.
- Correct Import: The @RequestBody annotation should be imported from org.springframework.web.bind.annotation.RequestBody, as this is the one that binds the HTTP request body to the method parameter in Spring.

Output



Try to login by generating a token and authorize and then try to add album



Db console

