

A screenshot of a developer's hands interacting with a laptop screen. The screen displays a Java application running in an IDE, showing code for a CategoryController. The code includes imports for UserService and CategoryService, annotations for REST endpoints, and logic for adding a category. The developer's hands are visible on the right side of the screen, one pointing at the code and the other interacting with the keyboard.

```
16 import hu.cs.se.adjava.bookmanage.service.UserService;
17
18 @RestController
19 public class CategoryController {
20
21     @Autowired
22     private CategoryService categoryService;
23
24     @Autowired
25     private UserService userService;
26
27     @GetMapping("/category/all")
28     public ResponseEntity<List<Category>> getAllCategories(){
29         return new ResponseEntity<>(categoryService.getAll(),HttpStatus.OK);
30     }
31
32     @PostMapping(path ="/category/add")
33     public ResponseEntity<Category> addCategory(@RequestBody Category category){
34
35         User user = userService.getById(1);
36         category.setUser(user);           I
37         Category savedCategory = categoryService.saveCategory(category);
38     }
}
```

The IDE interface shows the following details:

- Project Explorer:** Shows files like BookController.java, CategoryController.java (marked with a yellow dot), UserController.java, model (Book.java, Category.java, User.java), repository, service, and NPM Scripts.
- Outline:** Shows the structure of the current file.
- PROBLEMS:** Shows 1 problem.
- OUTPUT:** Shows log entries from 2021-04-16 12:18:57.463 and 2021-04-16 12:18:57.587.
- DEBUG CONSOLE:** Shows log entries from 2021-04-16 12:18:57.463 and 2021-04-16 12:18:57.587.
- Bottom Bar:** Shows icons for search, file, mail, browser, and other tools.
- Status Bar:** Shows "Ln 36, Col 32", "Spaces: 4", "UTF-8", "CRLF", "Java", "Go Live", and other status indicators.

Filter

History Collections APIs Trash

◀ T h... ● POST a POST F POST a GET h... ● GET g... ● GET G.

+ New Collection

Category  
2 requests

POST addCategory

GET getAll

Rest API  
5 requests

Rest API Book  
5 requests

User  
2 requests

POST addUser

GET getAll

Find and Replace Console

get All

GET http://localhost:3000/category/all

Params Authorization Headers (6) Body Pre-request Script

Query Params

KEY	VALUE
Key	Value

Body Cookies Headers (5) Test Results

Pretty Raw Preview Visualize JSON ↻

```
2   {
3     "id": 41,
4     "name": "Biology",
5     "user": {
6       "id": 35,
7       "name": "Farhad",
8       "book": {
9         "id": 38,
10        "name": "First-book",
11        "type": "Math",
12        "cost": 120,
```

EXPLORER

&gt; OPEN EDITORS

UNTITLED (WORKSPACE)

&gt; .mvn

&gt; .vscode

&gt; src

&gt; main

&gt; java\hu\cs\se\adjava\boo...

&gt; controller

BookController.java

CategoryController.java

UserController.java

&gt; model

Book.java

Category.java

User.java

&gt; repository

&gt; service

&gt; OUTLINE

&gt; NPM SCRIPTS

&gt; JAVA PROJECTS

&gt; MAVEN

&gt; SPRING BOOT DASHBOARD

book-manage

...

UserController.java X

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yService.java

J

CategoryServiceImp

```
book-manage > src > main > java > hu > cs > se > adjava > bookmanage > controller > UserController.java > CategoryServiceImp.java
13 import hu.cs.se.adjava.bookmanage.model.User;
14 import hu.cs.se.adjava.bookmanage.service.UserService;
15
16 @RestController
17 public class UserController {
18
19     @Autowired
20     private UserService userService;
21
22     @GetMapping("/user/all")
23     public ResponseEntity<List<User>> getAllUsers(){
24
25         return new ResponseEntity<>(userService.getAll(), HttpStatus.OK);
26     }
27
28     @PostMapping(value = "/user/add")
29     public ResponseEntity<User> addUser(@RequestBody User user){
30
31         User savedUser = userService.saveUser(user);
32         return new ResponseEntity<>(savedUser, HttpStatus.CREATED);
33     }
34
35 }
```

PROBLEMS

1

OUTPUT

TERMINAL

DEBUG CONSOLE

Filter (e.g. text, !exclude)

```
2021-04-16 12:18:57.463  INFO 9872 --- [           main] o.h.annotations.common.Version        : HHH000410: Spring Commons Annotations {5.1.2.Final}
2021-04-16 12:18:57.587  INFO 9872 --- [           main] com.zaxxer.hikari.HikariDataSource  :
```

```
main] o.hibernate.annotations.common.Ver...
main] com.zaxxer.hikari.HikariDataSource
```