### AdminController

#### adminlogin(String username, String pass)

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| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check Valid admin login credentials | * Username="hello", Password="hello123" | * Successful login |
| * Test Case 2 | * Check Valid user login credentials | * Username="world3344", Password="helloworld11" | * Successful login |
| * Test Case 3 | * Check Invalid (empty) username | * Username="", Password="hello123" | * Unsuccessful login and an error message |
| * Test Case 4 | * Check Invalid (empty) password | * Username="world3344", Password="" | * Unsuccessful login and an error message |

#### getcategory()

|  |  |  |  |
| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check Admin logged in | * ------- | * View name is "categories" with a list of categories |
| * Test Case 3 | * Check Admin not logged in | * ------- | * Redirected to "adminlogin" |

#### addCategory(String category\_name)

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| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check Valid category name | * Category name="shopping" | * Category is added successfully |
| * Test Case 2 | * Check Invalid (empty) category name | * Category name="" | * Category is not added and an error message |
|  |  |  |  |

#### removeCategoryDb(int id)

|  |  |  |  |
| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check Existing category id to remove | * Category ID=1 | * Category with ID=1 is removed |
| * Test Case 2 | * Check Non-existing category id | * Category ID=1000 | * No change in the database and an error message |

#### updateCategory(int id, String categoryname)

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| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 2 | * Check Valid category id and name | * Category ID=1, Category name="UpdatedCategory" | * Category with ID=1 is updated |
| * Test Case 2 | * Check Invalid (empty) category name | * Category ID=1, Category name="" | * Category is not updated and error message |
| * Test Case 3 | * Check Non-existing category id | * Category ID=1000, Category name="UpdatedCategory" | * No change in the database and error message |

### User controller

#### userlogin(String username, String pass, Model model, HttpServletResponse res)

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| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check valid credentials | * Username="hello111", Password="check123" | * Successful login |
| * Test Case 2 | * Check Invalid (empty) username | * Username="", Password="check123" | * Unsuccessful login and error message |
| * Test Case 3 | * Check Invalid (empty) password | * Username="hello111", Password="" | * Unsuccessful login and error message |

#### getproduct()

|  |  |  |  |
| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check products available | * ------- | * list of products |
| * Test Case 2 | * Check no products available | * ------- | * Message: "No products are available." |

#### newUseRegister(User user)

|  |  |  |  |
| --- | --- | --- | --- |
| * Test ID | * Purpose | * Input | * Expected Output |
| * Test Case 1 | * Check valid user details | * valid details | * User is registered successfully |
| * Test Case 2 | * Check empty email | * An empty email field | * User is not registered and an error message |