

Extra Features :

Features

- 1 **Admin Deactivate User**
- 2 **Admin Can Get Users by Status
(Active / Not Active)**
- 3 **Get Product Sales**
- 4 **Get Product Income**
- 5 **Merchants Selling a Product**
- 6 **Filter Products (Advanced
Search)**

Admin Deactivate User

◆ Description:

- Allows an Admin to deactivate a user account.
- User can't Buy any more

◆ Logic Steps:

- Verify admin role
- Check if the user exists
- Set user isActive to false

◆ Output :

- User successfully deactivated.

```
public String adminDeActiveUser(String adminId , String userId) { 1usage new *
    boolean isAdmin = false;
    boolean isUserExist = false;
    UserModel user = null;
    for (int i = 0; i < users.size(); i++) {
        if (users.get(i).getId().equals(adminId) && users.get(i).getRole().equals("Admin")) {
            isAdmin = true;
        }
    }
    if (!isAdmin) {
        return "No admin found for id: " + adminId;
    }
    for (int i = 0; i < users.size(); i++) {
        if (users.get(i).getId().equals(userId)) {
            user = users.get(i);
            isUserExist = true;
        }
    }
    if (!isUserExist) {
        return "No User found for id: " + userId;
    }
    user.setActive(false);
    return "Deactivated successful";
}
```

HTTP CapStone1 / User / Admin De Active user

PUT http://localhost:8080/api/v1/user/admin-de-active-user/m1111/a1111

Overview Params Authorization Headers (7) Body Scripts Settings

Admin De Active user

Add request description...

Set up

● Variables, params, and headers

Body Cookies Headers (5) Test Results

{ } JSON Preview Visualize

1 {
2 | "message": "Deactivated successful"
3 }

Get Users by Status (Active / Not Active)

◆ Description:

- Allows Admin to view users based on activation status.

◆ Logic Steps:

- Verify admin role

Validate the search term (active / notActive)

- Set user isActive to false

◆ Output :

- List of users filtered by active/notActive status.

```
//Admin can get Active users and not Active users
public ArrayList<UserModel> getUsersByStatus(String adminId , String search) { 3 usages  new *
    ArrayList<UserModel> usersFound = new ArrayList<>();

    boolean isAdmin = false;
    for (UserModel user : users) {
        if (user.getId().equals(adminId) && user.getRole().equals("Admin")) {
            isAdmin = true;
            break;
        }
    }

    if (!isAdmin) {
        return null;
    }

    if (!search.equalsIgnoreCase( anotherString: "active") && !search.equalsIgnoreCase( anotherString: "notActive")) {
        return null;
    }

    for (UserModel user : users) {
        if (search.equalsIgnoreCase( anotherString: "active") && user.isActive()) {
            usersFound.add(user);
        } else if (search.equalsIgnoreCase( anotherString: "notActive") && !user.isActive()) {
            usersFound.add(user);
        }
    }

    return usersFound;
}
```

CapStone1 / User / Admin Search by status users

GET http://localhost:8080/api/v1/user/admin/get-users-by-status/m1111/notActive

Overview Params Authorization Headers (6) Body Scripts Settings

Admin Search by status users

Body Cookies Headers (5) Test Results

{ } JSON Preview Visualize

```
1  [
2      {
3          "id": "a1111",
4          "username": "Abdullah",
5          "password": "pass123",
6          "email": "Abdullah@example.com",
7          "role": "Customer",
8          "balance": 500.75,
9          "active": false
10     },
11     {
12         "id": "me1111",
13         "username": "Meshary",
14         "password": "pass123",
15         "email": "Meshary@example.com",
16         "role": "Customer",
17         "balance": 1599.75,
18         "active": false
19     },
20     {
21         "id": "l1111",
22         "username": "Lama123",
23         "password": "pass123",
24         "email": "lama@example.com",
25         "role": "Customer",
26         "balance": 1599.75,
27         "active": false
28     }
```

Product Sales & Income

- **◆ Description:**

- **Displays how many times a product was sold and the total income from it.**

- **◆ Logic Steps:**

- **Iterate through products**

- **Use soldCount and price to calculate income**

- **◆ Output :**

- **Returns number of sales and total income.**

```
public int getProductCount(String id) { 1 usage new *  
    for (int i = 0; i < products.size(); i++) {  
        if (products.get(i).getId().equals(id)) {  
            return products.get(i).getSoldCount();  
        }  
    }  
    return 0;  
}
```

GET ⌵ http://localhost:8080/api/v1/product/sales/p1

Overview Params Authorization Headers (6) Body Script

get product sales

Body Cookies Headers (5) Test Results

{ } JSON ⌵ ▶ Preview 🔍 Visualize ⌵

1 4


```
public double getProductIncome(String id) { 1 usage new *
    for (int i = 0; i < products.size(); i++) {
        if (products.get(i).getId().equals(id)) {
            return products.get(i).getPrice() * products.get(i).getSoldCount();
        }
    }
    return 0;
}
```

GET

⌵

http://localhost:8080/api/v1/product/get-product-income/p1

Overview

Params

Authorization

Headers (6)

Body

Scripts

Settings

get product income

Add request description...

Body

Cookies

Headers (5)

Test Results

{ }

JSON

⌵

▶ Preview

🔗 Visualize

⌵

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Merchants Selling a Product

- **◆ Description:**
 - Shows merchants that sell a specific product and their available stock.
- **◆ Logic Steps:**
 - Iterate through merchant stock
 - Match product ID
 - Get merchant name and stock count
- **◆ Output :**
 - List of merchants and stock per merchant.

```

public ArrayList<String> getMerchantsByProduct(String productId) { 2 usages new *
    ArrayList<String> result = new ArrayList<>();

    for (MerchantStockModel stock : merchantStockModels) {
        if (stock.getProductId().equals(productId)) {
            String merchantName = " ";

            for (MerchantModel merchant : merchantService.merchants) {
                if (merchant.getId().equals(stock.getMerchantId())) {
                    merchantName = merchant.getName();
                    break;
                }
            }

            String found = "Merchant: " + merchantName + ", Stock: " + stock.getStock();
            result.add(found);
        }
    }

    return result;
}

```

GET

http://localhost:8080/api/v1/product/merchants-stock/p1

Overview

Params

Authorization

Headers (6)

Body

Scripts

Search for product

Body

Cookies

Headers (5)

Test Results

{ } JSON

Preview

Visualize

```

1  [
2  |
3  |   "Merchant: Jarir, Stock: 13",
4  |   "Merchant: Extra, Stock: 8"

```

Filter Products (Advanced Search)

- **◆ Description:**
 - **Filter available products based on keyword, price range, category, and merchant.**
- **◆ Logic Steps:**
 - **Check stock availability**
 - **Match name, price, category, merchant**
 - **Add product if not already added**
- **◆ Output :**
 - **List of filtered products based on search criteria.**

```
public ArrayList<ProductModel> filterAvailableProducts(String keyword, Double minPrice, Double maxPrice, String categoryId,
    ArrayList<ProductModel> result = new ArrayList<>();

    for (MerchantStockModel stock : merchantStockModels) {
        if (stock.getStock() > 0) {
            if (stock.getMerchantId().equals(merchantId)) {

                ProductModel product = null;
                for (ProductModel p : productService.products) {
                    if (p.getId().equals(stock.getProductId())) {
                        product = p;
                        break;
                    }
                }

                if (product != null) {
                    if (product.getName().toLowerCase().contains(keyword.toLowerCase())) {
                        if (product.getPrice() >= minPrice && product.getPrice() <= maxPrice) {
                            if (product.getCategoryID().equals(categoryId)) {
                                if (!result.contains(product)) {
                                    result.add(product);
                                }
                            }
                        }
                    }
                }
            }
        }
    }

    return result;
```

GET

http://localhost:8080/api/v1/product/filter-products/bo/0/5000/c2/m

Overview Params Authorization Headers (6) Body Scripts Settings

filter products

Body Cookies Headers (5) Test Results

{ } JSON

Preview

Visualize

1 [

2 {

3 "id": "p1",

4 "name": "Java Programming Book",

5 "price": 999.99,

6 "categoryID": "c2",

7 "soldCount": 4,

8 "totalIncome": 0.0

9 }

10]