Shopping-App-Screenshots

Monday, March 24, 2025   8:30 AM

Screenshots of Shopping Cart Application

Introduction

This page contains screenshots of the "Shopping cart" app in execution. It depicts several features and restrictions mentioned in the requirement document. The important one being "user" and "admin" roles should have their own of allowed set of tasks and restricted tasks (for which an error should be displayed).

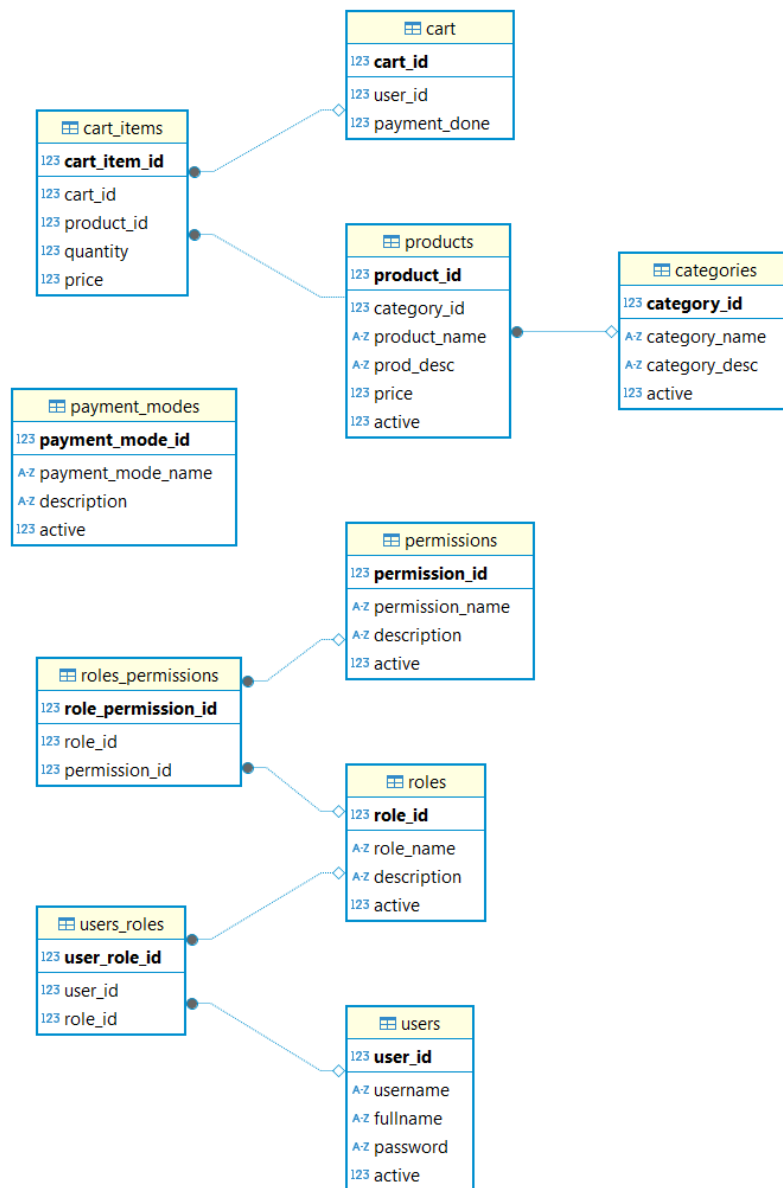The app name was "Mickoo" (in the lines of meesho, myntra).

The database type SQLite3 and its a file based database (mickoo.db)

Tables and ER diagram

List of Tables

Table Name	Purpose
categories	Table to hold list of product catalogs
products	Table to hold list of available products under each catalog. Foreign Key reference categories for category type
roles	Table to hold list of roles in the application
permissions	Table to hold list of all permissions available in the application
role_permissions	Table to hold map of permissions applicable for each role in the application Foreign key reference roles and permissions tables
users	Table to hold list of users in the application
users_roles	Table to hold map of users to permitted roles in the application Foreign key reference users and roles tables.
cart	Table to hold all carts created by users
cart_items	Table to hold all items within each cart created by users during application usage. Foreign key reference cart table for cart id of each item
payment_modes	Table to hold list of available payment methods in the application.

ER diagram

cart
- 123 **cart_id**
- 123 user_id
- 123 payment_done

cart_items
- 123 **cart_item_id**
- 123 cart_id
- 123 product_id
- 123 quantity
- 123 price

products
- 123 **product_id**
- 123 category_id
- A-Z product_name
- A-Z prod_desc
- 123 price
- 123 active

categories
- 123 **category_id**
- A-Z category_name
- A-Z category_desc
- 123 active

payment_modes
- 123 **payment_mode_id**
- A-Z payment_mode_name
- A-Z description
- 123 active

permissions
- 123 **permission_id**
- A-Z permission_name
- A-Z description
- 123 active

roles_permissions
- 123 **role_permission_id**
- 123 role_id
- 123 permission_id

roles
- 123 **role_id**
- A-Z role_name
- A-Z description
- 123 active

users_roles
- 123 **user_role_id**
- 123 user_id
- 123 role_id

users
- 123 **user_id**
- A-Z username
- A-Z fullname
- A-Z password
- 123 active

App initialization and start up

Connect to the sqlite3 database

```
shopping_app>sqlite3 mickoo.db
```

Initialize the database with Tables and mock data for the app.

```
SQLite version 3.49.1 2025-02-18 13:38:58
Enter ".help" for usage hints.
sqlite> .read init_database.sql
sqlite>
     System
```

Tables present in the database

```
SQLite version 3.49.1 2025-02-18 13:38:58
Enter ".help" for usage hints.
sqlite> .read init_database.sql
sqlite> .tables
cart                payment_modes     role_permissions   users_roles
cart_items          permissions       roles
categories          products          users
sqlite>
```

Starting the app in command line using python interpreter

```
cd .\shopping_app\src
shopping_app\src> python .\app.py
```

Main Menu once the app is started

```
===================================================
****   Welcome to Demo Marketplace *****
===================================================
   1  : Login
   2  : Exit
Enter your choice: ▮
```

User role UI experience

User authentication

```
===================================================
****   Welcome to Demo Marketplace *****
===================================================
   1  : Login
   2  : Exit
Enter your choice: 1
---------------------------------------------------
Enter username: user1
Enter password:
---------------------------------------------------
```

App Menu once the user is authenticated

```
              Authentication Successful **
         --------------------------------------------
              ** Welcome user-1 !!! **"

    ------------------------------
    User role: user
    ------------------------------

        1  : View Cart
        2  : Add to Cart
        3  : Remove from Cart
        4  : Checkout
        5  : View All Products
        6  : View All Catalog
        7  : Add new catalog
        8  : Remove Catalog
        9  : Add Product to Catalog
       10  : Remove Product from Catalog
       11  : Modify Product in Catalog
        0  : Goto Main Menu
    Enter your choice:
```

Display of message when the cart is empty

```
    ------------------------------
    User role: user
    ------------------------------

        1  : View Cart
        2  : Add to Cart
        3  : Remove from Cart
        4  : Checkout
        5  : View All Products
        6  : View All Catalog
        7  : Add new catalog
        8  : Remove Catalog
        9  : Add Product to Catalog
       10  : Remove Product from Catalog
       11  : Modify Product in Catalog
        0  : Goto Main Menu
    Enter your choice: 1

    =========================
    ****  Cart is empty *****
    =========================
    Press any key to continue ...
```

View All products by User

```
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
 Enter your choice: 5
 Available Products
 -----------------------------------------------------
 ID   | Product                        | Price
 -----------------------------------------------------
 1    | round neck tshirt              | 500
 2    | formal shirt                   | 1000
 3    | jeans pant                     | 1500
 4    | sports shoes                   | 2000
 5    | slippers                       | 500
 6    | sandals                        | 1000
 7    | dove soap                      | 50
 8    | clinic plus shampoo            | 100
 9    | colgate toothpaste             | 50
 10   | barbie doll                    | 500
 11   | remote control car             | 1000
 12   | teddy bear                     | 500
 13   | cricket bat                    | 500
 14   | cricket ball                   | 50
 15   | cricket gloves                 | 500
 -----------------------------------------------------
 0    | Goto Prev Menu
 -----------------------------------------------------
 Press any key to continue ...
```

User has "view catalog" permission as mentioned in the requirement.

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
 Enter your choice: 6
 Product Catalog
 ID   | Catalog
 -----------------------------------------------------
 1    | Footwear
 2    | Household
 3    | Toys
 4    | Sports
 -----------------------------------------------------
 #    | Goto Prev Menu
 -----------------------------------------------------
 Press any key to continue ...
```

"Add to Cart" operation by normal user. It takes Product Id and Quantity as Input.

```
-------------------------------------------------------
ID   | Product                      | Price
-------------------------------------------------------
1    | round neck tshirt            | 500
2    | formal shirt                 | 1000
3    | jeans pant                   | 1500
4    | sports shoes                 | 2000
5    | slippers                     | 500
6    | sandals                      | 1000
7    | dove soap                    | 50
8    | clinic plus shampoo          | 100
9    | colgate toothpaste           | 50
10   | barbie doll                  | 500
11   | remote control car           | 1000
12   | teddy bear                   | 500
13   | cricket bat                  | 500
14   | cricket ball                 | 50
15   | cricket gloves               | 500
-------------------------------------------------------
0    | Goto Prev Menu
-------------------------------------------------------
Enter Product Id: 9
Enter Quantity: 5


=======================================================
****   Product added to cart successfully *****
=======================================================
Press any key to continue ...
```

"View Cart" operation after adding few (3) items to the Cart.

```
Press any key to continue ...
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 1
Cart Items
-------------------------------------------------------
1    | toothpaste  | Qt: 5    | Total: 250.00
2    | barbie      | Qt: 5    | Total: 2500.00
3    | teddy       | Qt: 2    | Total: 1000.00
-------------------------------------------------------
Total: 3750.00
Press any key to continue ...
```

"Checkout" operation by normal user.

Checkout will show the items in the cart once for review and proceed for payment. As mentioned Payment options will be shown to user and a message will display based on the selection.

You will be shortly redirected to the Payment gateway to make the payment of <Amount> using the <Pay mode> Payment method. ...

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 4
Cart Items
-------------------------------------------------------------
1   | toothpaste  | Qt: 5     | Total: 250.00
2   | barbie      | Qt: 5     | Total: 2500.00
3   | teddy       | Qt: 2     | Total: 1000.00
-------------------------------------------------------------
Total: 3750.00
Press any key to continue ...
Payment Modes
-------------------------------------------------------------
1    : Credit Card
2    : Debit card
3    : Netbanking
4    : PayPal
5    : UPI
-------------------------------------------------------------
Enter payment mode: 5
You will be shortly redirected to the Payment gateway to make the payment of  Rs. 3750.00 using ** UPI ** mode...
Press any key to continue ...S
```

Normal user trying to do "admin" tasks (Add new Catalog)

The user receives error message. Same message will be displayed for operation 7 to 11.

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 7

==============================================================================
****  Operation create_category not permitted for the user role => user *****
==============================================================================
Press any key to continue ...
```

Choosing "0" will take to previous menu and further to exit the app if option 2 is selected.

```
 Press any key to continue ...
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
 Enter your choice: 0


 ================================================
 ****  Welcome to Demo Marketplace *****
 ================================================
    1  : Login
    2  : Exit
 Enter your choice: 2
 Exit
```

Administrator UI experience

Login and welcome message for admin

```
 ================================================
 ****  Welcome to Demo Marketplace *****
 ================================================
    1  : Login
    2  : Exit
 Enter your choice: 1
 ------------------------------------------------------------
 Enter username: admin1
 Enter password:
 ------------------------------------------------------------

              Authentication Successful **
         ---------------------------------------------
              ** Welcome Administrator-1 !!! **"

 ------------------------------
 User role: admin
 ------------------------------

    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
 Enter your choice: █
```

Admin role has permission to view the catalog.

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 6
Product Catalog
ID   | Catalog
---------------------------------------------------------
1    | Footwear
2    | Household
3    | Toys
4    | Sports
---------------------------------------------------------
#    | Goto Prev Menu
---------------------------------------------------------
Press any key to continue ...
```

But admin has no rights to view cart or add to cart operations

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 2

=======================================================================
****  Operation add_to_cart not permitted for the user role => admin *****
=======================================================================
Press any key to continue ...
```

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
Enter your choice: 1

=======================================================================
****  Operation view_cart not permitted for the user role => admin *****
=======================================================================
Press any key to continue ...
```

Addition of new catalog item by Admin

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
 Enter your choice: 7
 Enter Catalog Name: Snacks
 Enter Catalog Description: Chips, Burger, Sandwiches


 =====================================
 ****  Catalog added successfully *****
 =====================================
```

In the view catalog screen the newly added catalog reflects

```
    1  : View Cart
    2  : Add to Cart
    3  : Remove from Cart
    4  : Checkout
    5  : View All Products
    6  : View All Catalog
    7  : Add new catalog
    8  : Remove Catalog
    9  : Add Product to Catalog
   10  : Remove Product from Catalog
   11  : Modify Product in Catalog
    0  : Goto Main Menu
  Enter your choice: 6
  Product Catalog
  ID  | Catalog
  -------------------------------------------------------
  1     | Footwear
  2     | Household
  3     | Toys
  4     | Sports
->5     | Snacks
  -------------------------------------------------------
  #     | Goto Prev Menu
  -------------------------------------------------------
  Press any key to continue ...
```

"Remove Catalog" operation by admin

```
                  1  : View Cart
                  2  : Add to Cart
                  3  : Remove from Cart
                  4  : Checkout
                  5  : View All Products
                  6  : View All Catalog
                  7  : Add new catalog
                  8  : Remove Catalog
                  9  : Add Product to Catalog
                 10  : Remove Product from Catalog
                 11  : Modify Product in Catalog
                  0  : Goto Main Menu
Enter your choice: 8
Product Catalog
ID  | Catalog
-------------------------------------------------
1      | Footwear
2      | Household
3      | Toys
4      | Sports
5      | Snacks
-------------------------------------------------
#      | Goto Prev Menu
-------------------------------------------------
Enter Catalog Id: 2

=======================================
****  Catalog removed successfully *****
=======================================
```

Catalog list after removal of "Household" category.

```
Enter your choice: 6
Product Catalog
ID  | Catalog
-------------------------------------------------
1      | Footwear
3      | Toys
4      | Sports
5      | Snacks
-------------------------------------------------
#      | Goto Prev Menu
-------------------------------------------------
Press any key to continue ...
```