

FLASH

Introduction

FLASH is a cli based app for online retailing stores .Using this app a customer can order things from his home and will get the products delivered to its doorsteps within 30 min.

User guide:

- Follow the instructions given on the command line.
- When the application runs on the terminal it will show an interface to select whether to proceed as an Admin or as a Customer
- Based upon the choice the app will show another interface which asks the user to login in if he/she already registered or signed up for a new user. upon successful sign up and login .
- The user can perform different functions based upon whether he is admin or Customer .

Functionalities

Admin Part:

1. admin_menu():

- This function serves as the main menu for administrators.
- It presents a list of options for administrators to choose from.
- Options include viewing products, managing inventory, viewing orders, analyzing customer data, managing suppliers, managing other admins, and logging out.

2. admin_view_products():

- Allows administrators to view all products available in the inventory.

- Retrieves product details from the database such as ID, name, price, and quantity.
- Displays the product details to the administrator.

3. view_orders():

- Enables administrators to view all orders placed by customers.
- Fetches order details from the database including ID, shipping address, final price, payment ID, and customer ID.
- Presents the order details to the administrator

4. fetch_top_customers():

- Queries the database to retrieve data on the top 5 customers based on their spending.
- Calculates the total amount spent by each customer by summing up their order prices.
- Returns a list of top customers along with their names and total spending.

5. display_customer_analytics():

- Provides administrators with insights into customer behavior and spending patterns.
- Gives the option to view either the top 5 spending customers or average orders by age group.
- For the top 5 spending customers, it generates a bar graph showing each customer's total spending.
- For average orders by age group, it creates a pie chart displaying the distribution of average orders across different age groups.

6. add_product_to_inventory():

- Allows administrators to add new products to the inventory.
- Checks if the product already exists in the inventory.
- If the product exists, updates the quantity.
- If the product does not exist, adds it to the inventory.

7. view_supplier_details():

- Enables administrators to view details of all registered suppliers.
- Retrieves supplier information from the database including ID, name, and contact number.

- Presents the supplier details to the administrator.

8. manage_admins():

- Facilitates administrators in managing other admin accounts.
- Provides options to add, update, or delete admin accounts.
- Depending on the selected option, calls corresponding functions like add_admin(), update_admin()

Customer Part:

1. customer_menu():

- Serves as the main menu for customers.
- Offers various options such as viewing products, managing the shopping cart, checking out, managing profile, providing feedback, purchasing membership, and logging out.

2. view_products():

- Allows customers to view all products available in the inventory.
- Displays product details such as name, price, and description.
- Provides options to filter products by category or search for specific products.

3. add_to_cart():

- Enables customers to add desired products to their shopping cart.
- Prompts customers to enter the product ID and quantity they wish to purchase.
- Adds the selected products to the shopping cart.

4. view_cart():

- Allows customers to view the items currently in their shopping cart.
- Displays product details including name, quantity, and total cost.
- Provides options to update or remove items from the cart.

5. checkout():

- Allows customers to proceed to checkout to complete their purchase.
- Prompts customers to choose a preferred payment method and provide necessary details such as shipping address and payment information.
- Completes the order transaction and updates inventory accordingly.

6. manage_profile():

- Enables customers to manage their profile details such as address, email, or password.
- Provides options to update or modify profile information.

7. give_feedback():

- Allows customers to provide feedback on their shopping experience.
- Helps improve the quality of service provided by the online store.
- Captures feedback from customers and stores it for analysis.

8. buy_membership():

- Provides customers with the option to purchase membership plans for additional benefits.
- Membership may include discounts, special offers, or priority access to certain products or services.
- Handles membership purchase transactions and updates customer accounts accordingly.

9. logout():

- Allows customers to log out from their account and exit the system.
- Terminates the current session and returns to the login screen.