

Concrete Scenarios for Smart Shopping System Activities

Customer Activities

1. Sign-Up

Ibrahim enters the supermarket and approaches the smart shop.

- 1- He taps on the "Sign-Up" button displayed on the system screen.
- 2- The system prompts him to enter basic details like his name, phone number and address.
- 3- Ibrahim types in his details and taps "Next."
- 4- The system requests a password for his account; he enters one and confirms it.

2. Login

Mahmoud arrives at the supermarket with his Bluetooth-enabled phone.

- 1- His phone automatically connects to the store's smart shopping system.
- 2- Mahmoud's account is detected, and the app greets him with a "Welcome Back" message.
- 3- The system shows a list of his past purchases and favorite products.
- 4- He taps on "Start Shopping," and the system displays current offers.
- 5- Mahmoud begins browsing the store.

3. Buying Product Operation

Amr browses the store while holding his smartphone.

- 1- He uses the app to scan a TUJO marker on a display shelf.
- 2- The app identifies the marker and displays a list of available products in that section.
- 3- Amr selects a bottle of olive oil from the list.
- 4- The app shows the product's price, nutritional information, and any ongoing promotions.
- 5- He taps "Add to Cart," and the olive oil is added to his virtual cart.

4. Edit Buying Operation

Diaa reviews his virtual shopping cart using the app.

- 1- He notices that he added two bottles of shampoo instead of one.
- 2- Diaa taps on the shampoo item in his cart.
- 3- The system displays options to increase or decrease the quantity.
- 4- He reduces the quantity to one and confirms the change.
- 5- The app updates his cart and adjusts the total cost.

5. Cancel Buy Product Operation

Ramy decides to remove an item from his cart.

- 1- He opens the shopping cart section on the app.
- 2- Ramy selects a box of cereal he previously added.
- 3- The app displays options like "Remove Item" or "Edit Quantity."
- 4- He taps "Remove Item," and the app confirms the action.
- 5- The cereal is removed from his cart, and the total cost is updated.

Admin Activities

1. Login

Ibrahim, an admin, arrives at the back office to manage the store's product database.

- 1- He opens the admin interface on the computer.
- 2- The system detects his Bluetooth-enabled admin device and prompts him to log in.
- 3- Ibrahim enters his credentials and clicks "Login."
- 4- The system verifies his identity and displays the admin dashboard.
- 5- Ibrahim begins managing inventory and transactions.

2. Add New Product

Mahmoud, an admin, needs to add a new product to the inventory.

- 1- He navigates to the "Manage Inventory" section in the admin dashboard.
- 2- Mahmoud clicks on "Add New Product."
- 3- The system prompts him to input details like the product name, category, price, and stock .
- 4- Mahmoud uploads an image of the product and clicks "Save."
- 5- The new product is successfully added to the inventory, and a confirmation message is displayed.

3. Delete Product

Amr notices that an outdated product is still listed in the inventory.

- 1- He opens the "Manage Inventory" section on the admin dashboard.
- 2- Amr searches for the product by typing its name into the search bar.
- 3- Once the product appears, he selects it and clicks the "Delete" button.
- 4- The system prompts him to confirm the deletion.
- 5- Amr confirms, and the product is removed from the inventory.

4. Accept Buying Operation

Diaa is managing customer transactions during peak hours.

- 1- A notification pops up on his admin dashboard about a pending purchase.
- 2- Diaa clicks on the notification to review the customer's transaction details.
- 3- He verifies the selected items, quantities, and total amount.
- 4- Diaa clicks "Approve," and the system processes the transaction.
- 5- The customer receives confirmation, and the system updates the inventory.

5. Show Buying Operations

Ramy needs to review recent transactions for inventory analysis.

- 1- He navigates to the "Transaction Records" section in the admin dashboard.
- 2- The system displays a list of recent purchases, sorted by date and time.
- 3- Ramy uses the filters to view transactions for the past week.
- 4- He clicks on a specific transaction to view detailed information, including customer details.
- 5- Ramy exports the data to a file for further analysis.