

Practical – 4

AIM: Write Use case Scenario and draw Use Case Diagram for chosen application.

Use Case: User Login and Authentication

- Actors: User, System Admin
- Preconditions:
 - The user must have an existing account or the option to register.
 - The system must be online and responsive.
- Flow of Events:
 1. The user opens the RecordBook Web application.
 2. The system displays the login page with fields for username and password.
 3. The user enters their credentials and submits the form.
 4. The system verifies the credentials:
 - If correct, the user is granted access to the Items page.
 - If incorrect, an error message is displayed, prompting the user to retry.
- Postconditions:
 - The user is successfully authenticated and redirected to the Items page.

Use Case: Inventory Management

- Actors: User (such as Business Owner), System Admin
- Preconditions:
 - The user must be logged in.
 - Inventory data must be present or the ability to add new items.
- Flow of Events:
 1. The user navigates to the inventory management section.
 2. The system displays a list of available products and stock levels.
 3. The user can perform the following actions:
 - Add a new product.
 - Update stock levels for existing products.
 - Delete an item if it is no longer in stock.
 4. The system updates the inventory and reflects changes in real-time.
- Postconditions:
 - The inventory list is updated, ensuring accurate stock management.

Use Case: Transaction Tracking

- Actors: User (such as Business Owner), System
- Preconditions:
 - The user must be logged in.
 - Previous financial transactions should be accessible.
- Flow of Events:
 1. The user accesses the financial tracking module.
 2. The system displays a list of past transactions, including payments and outstanding balances.

3. The user can:
 - Record a new transaction (payment received or sent).
 - Edit or delete incorrect entries.
 - Generate reports for financial analysis.
4. The system updates the financial records and provides real-time insights.
 - Postconditions:
 - Transaction history is updated, ensuring accurate financial tracking

Use Case Diagram

