# **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:
  + The user opens the RecordBook Web application.
  + The system displays the login page with fields for username and password.
  + The user enters their credentials and submits the form.
  + 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.

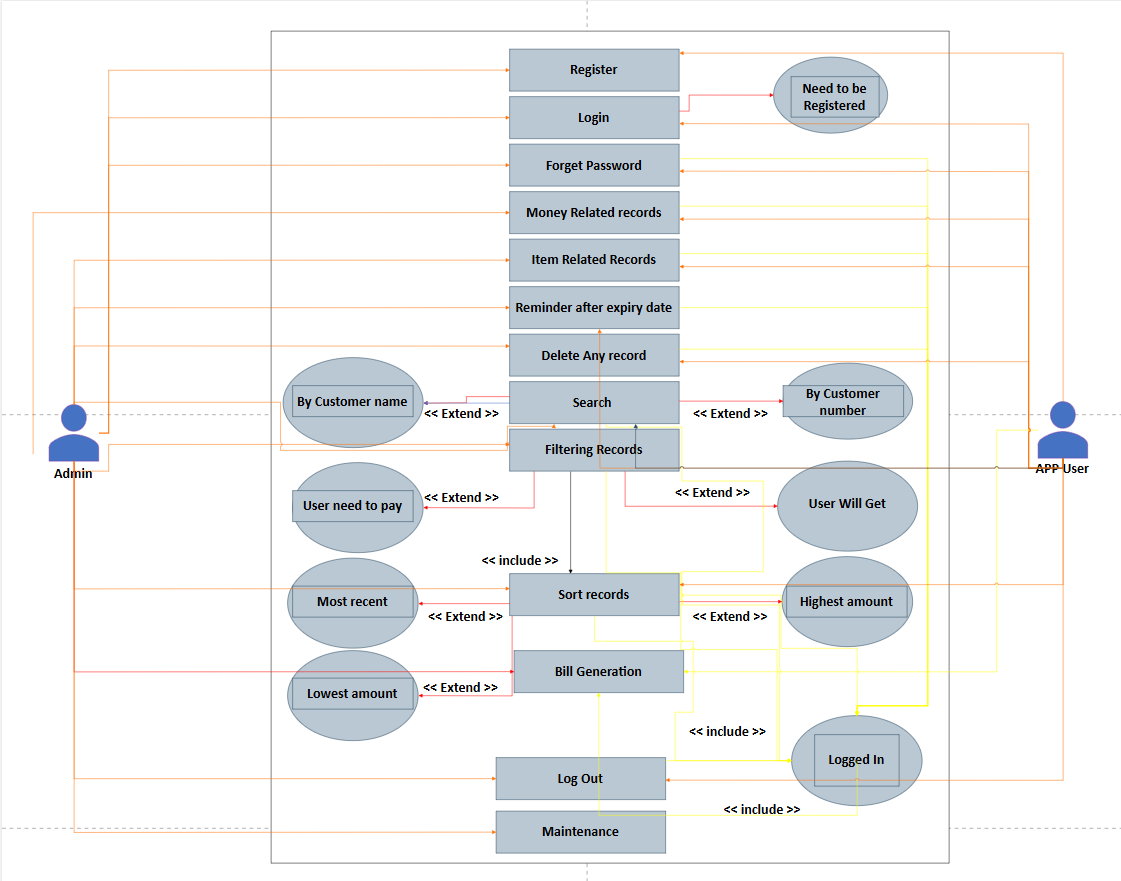
**Use Case: Inventory Management**

* 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:
  + The user navigates to the inventory management section.
  + The system displays a list of available products and stock levels.
  + 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.
  + 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:
  + The user accesses the financial tracking module.
  + The system displays a list of past transactions, including payments and outstanding balances.
  + The user can:
    - Record a new transaction (payment received or sent).
    - Edit or delete incorrect entries.
    - Generate reports for financial analysis.
  + The system updates the financial records and provides real-time insights.
* Postconditions:
  + Transaction history is updated, ensuring accurate financial tracking

**Use Case Diagram**

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