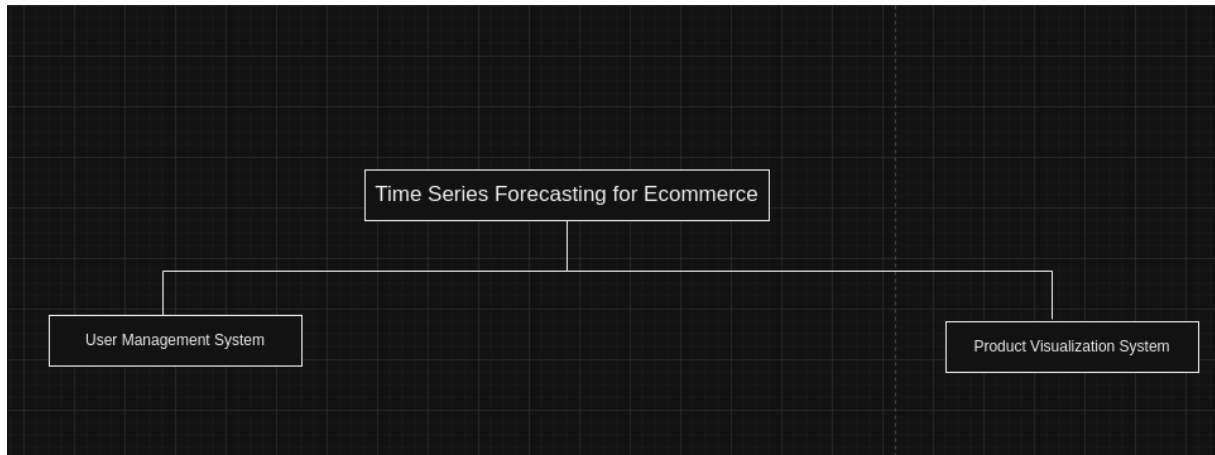
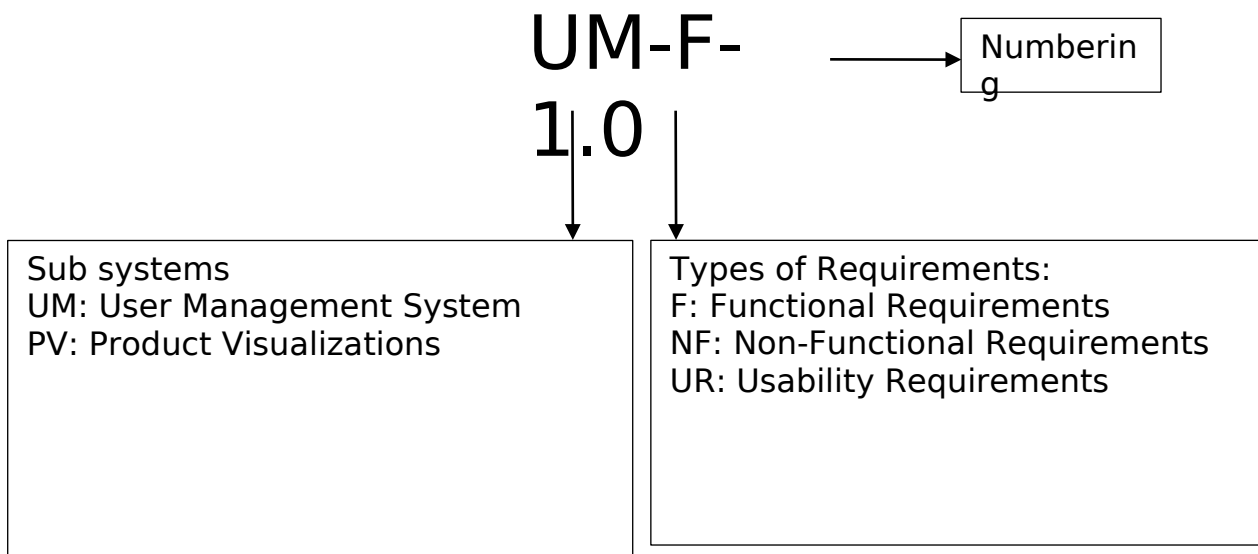


9.Artefact Designs

FDD:



Software Requirements Specifications (SRS)



User Management System (UM)

| Req. Code | Req. Desc | Priority |
|------------|--|----------|
| UM-F-1.0 | Users can create new accounts by providing their email, username, password, and possibly other required information. | High |
| UM-F-1.1 | Users must be able to reset their passwords securely in case of forgotten passwords. | High |
| UM-F-1.2 | A valid registration password must contain a mixture of alphabets, numbers, and special characters. | High |
| UM-F-1.3 | The system should maintain user sessions to allow users to navigate within the application while logged in. | Low |
| UM-F-1.4 | An email should be valid and without blank spaces. | High |
| UM-NFR-2.1 | Registration and login processes should have a response time of less than 2 seconds. | Low |
| UM-NFR-2.2 | To register, password needs to include a blend of letters, digits, and special symbols. | High |
| UM-UR-3.1 | Minimize the number of steps required to complete common tasks, such as user registration and profile updates. | Low |

Activity Diagram

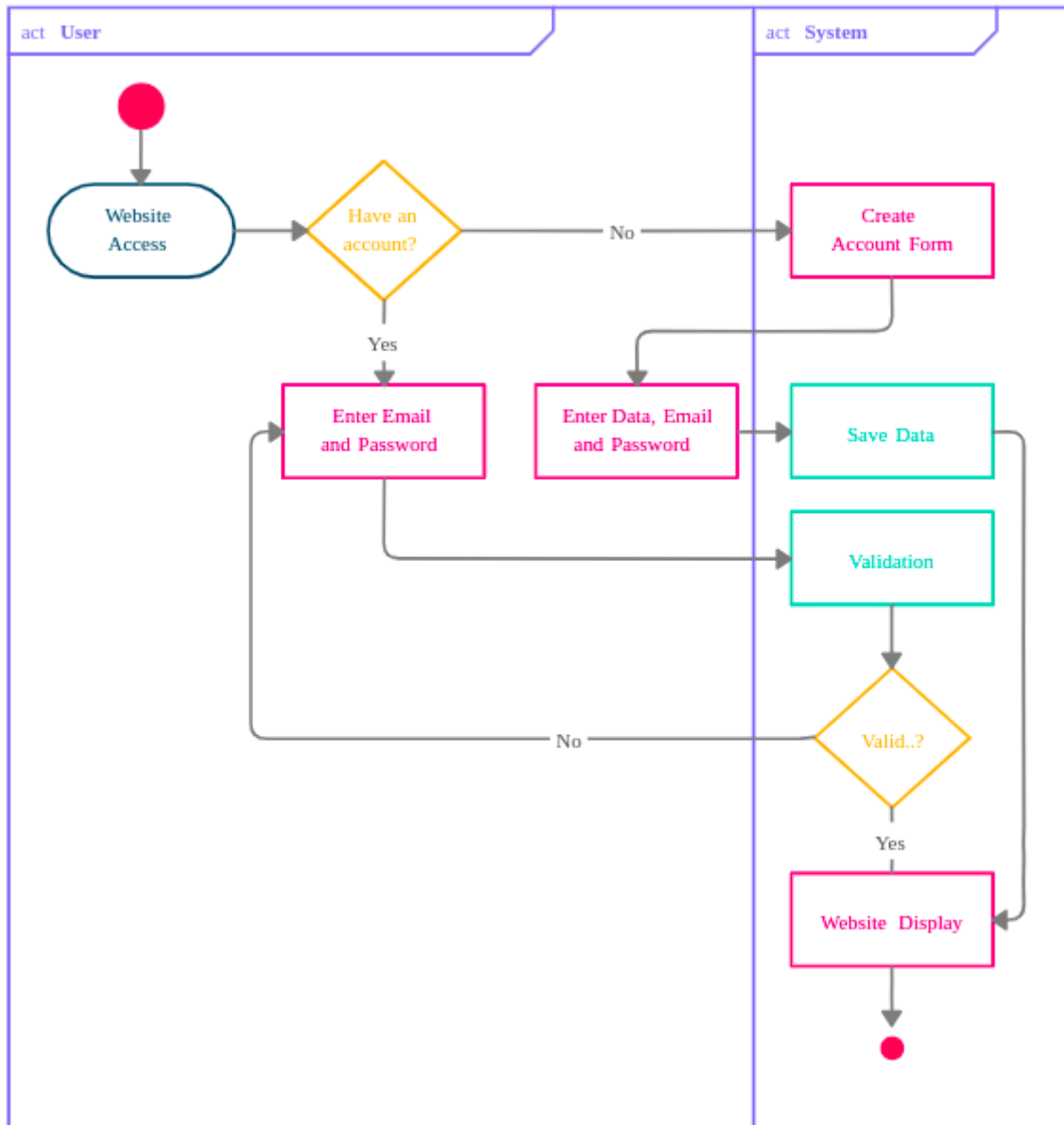


Figure 1: Activity Diagram

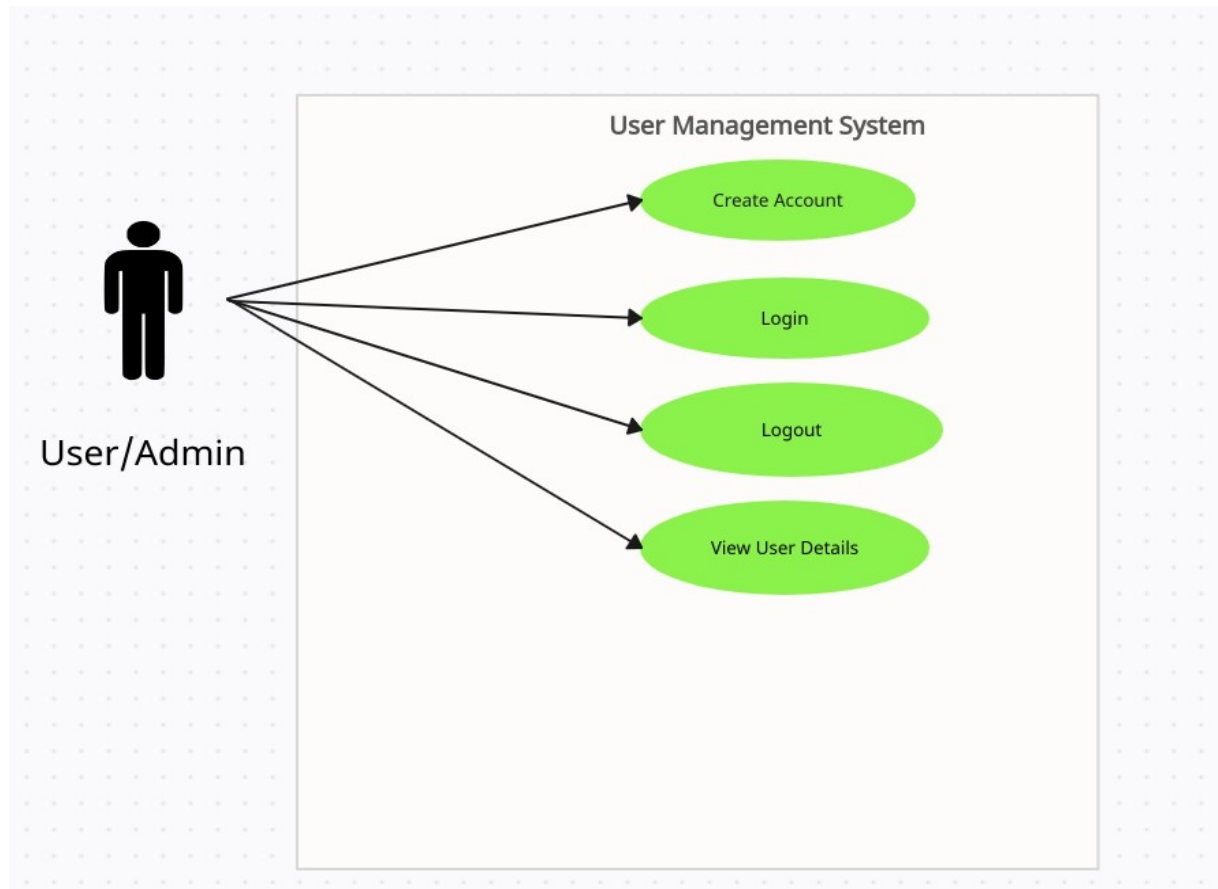


Figure 2: Use Case Diagram of user management system

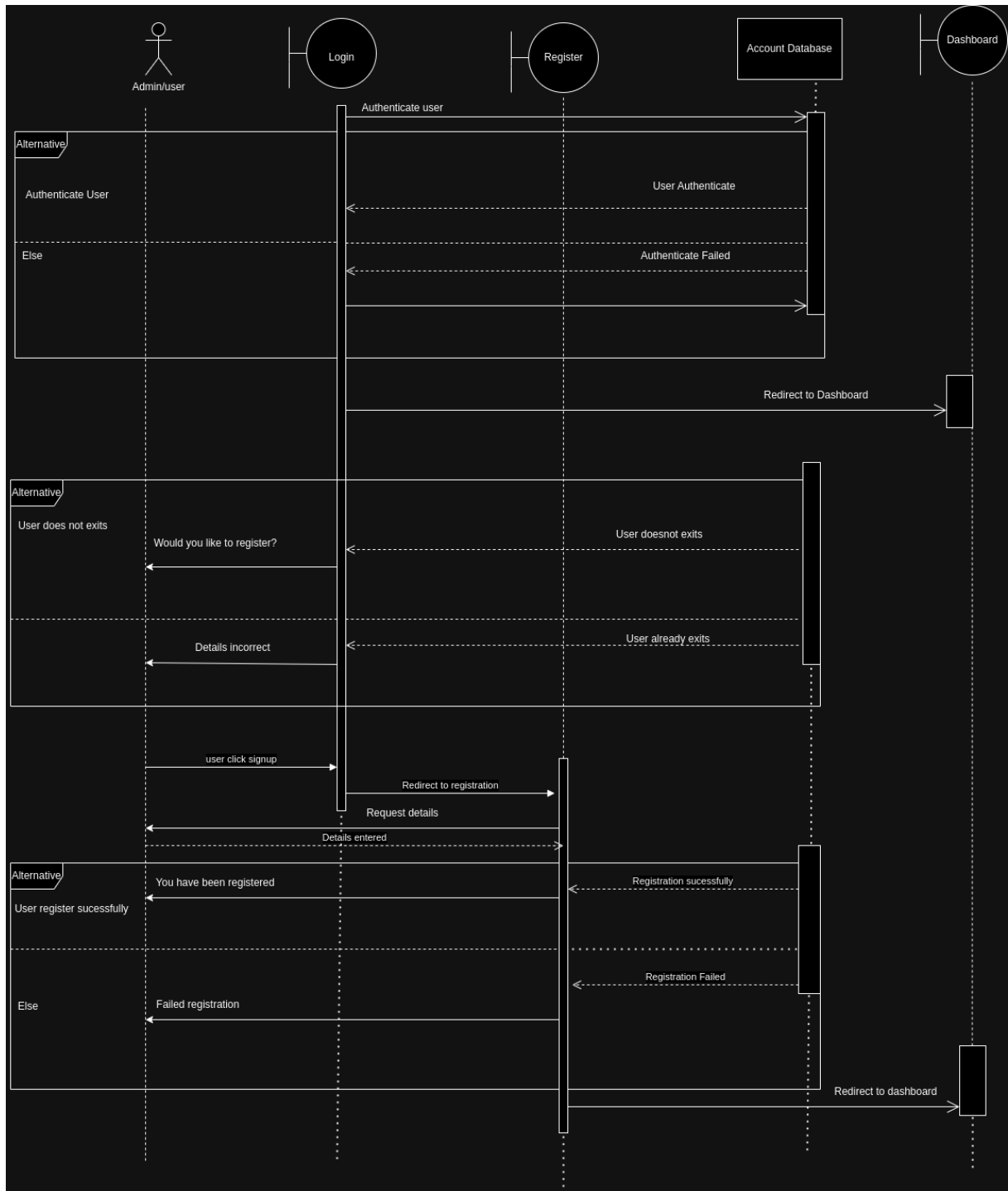


Figure 3: Sequence Diagram of User Management system

Testing:

| | A | B | C | D | E | F |
|---|-----------|---------------------|--|---|-------------|-------|
| 1 | Test Case | Description | Test Steps | Expected Result | Status | Notes |
| 2 | TC01 | User Registration | 1. Navigate to registration page. 2. Enter Valid Information. 3. Click "Register " Button. | 1.Registration page displayed. 2.Information accepted. 3.User registered. | Pass | |
| 3 | TC02 | User Login | 1. Navigate to login page. 2. Enter valid login credentials. | 1.Login page displayed. 2.User logged in. | Pass | |
| 4 | TC03 | User Profile Update | 1. Navigate to profile page. 2. Update user information. | 1.Profile page displayed. 2. Information updated. | In progress | |
| 5 | TC04 | User Deactivation | Deactivate a user account. | User account deactivated. | Pass | |

Figure 4: Test Plan of User management system

Wireframe

Sign IN

Add Your Credentials

Username

Username

Password

Password

Login

Don't have an account? Register

Figure 5: Login Page

Sign UP

Add Your Credentials

Username

Username

Email

Email

Password

Password

Password Check

Password check

Register

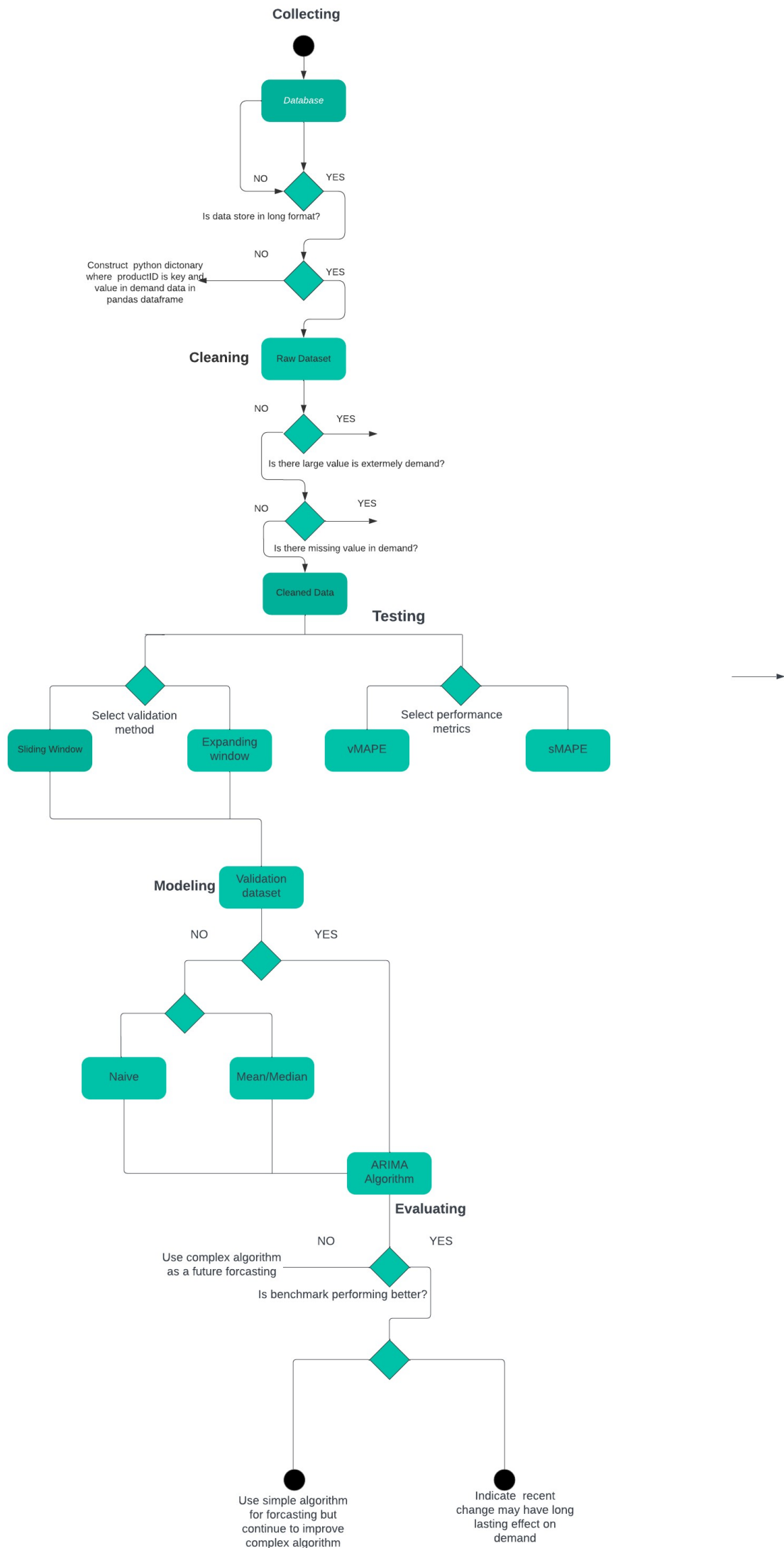
Have an account? [Login](#)

Figure 6: Register Page

Product Visualizations (PV)

| Req. Code | Req. Desc | Priority |
|-----------|---|----------|
| PV-F-1.0 | The system can display real-time updates for product availability, pricing changes | High |
| PV-F-1.1 | Implement search and filtering options to help users easily find products based on criteria like category, brand, price range, or product features. | High |
| PV-F-1.2 | Develop an administrative dashboard with user management, analytics, and reporting capabilities for system administrators to monitor and maintain the platform. | Low |
| PV-F-1.3 | The system should provide essential product information, such as name, price, specifications, and availability. | Low |
| PV-NF-2.0 | The system should load and render product visualizations quickly, with minimal latency, to provide a smooth and responsive user experience. | Low |
| PV-UF-3.0 | The user interface should be user-friendly and intuitive, requiring minimal guidance or training for users to navigate and interact with the visualization. | Low |
| PV-UF-3.2 | Ensure that the product visualization is accessible to users with disabilities, following relevant accessibility guidelines | High |

Activity Diagram



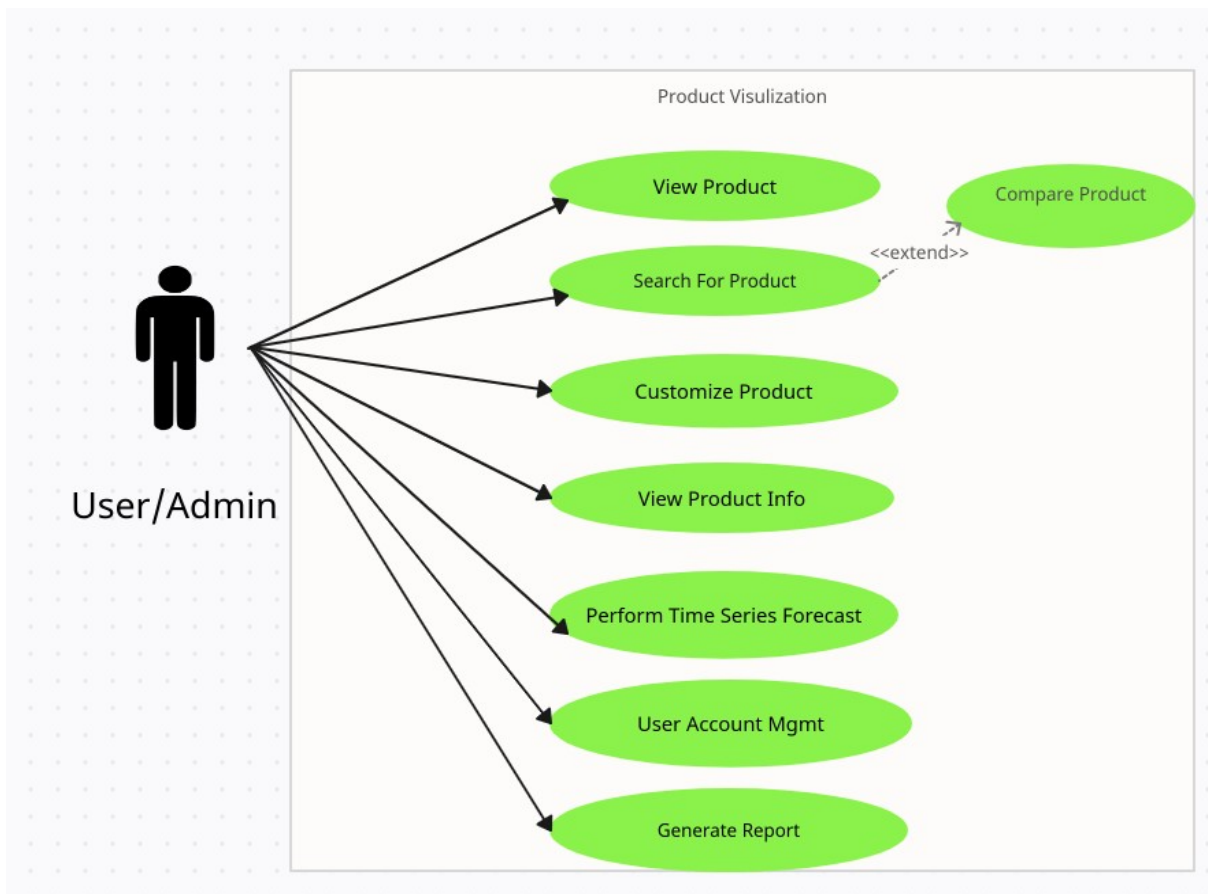


Figure 8: Use Case Diagram Of Product Visulization

Sequences diagram

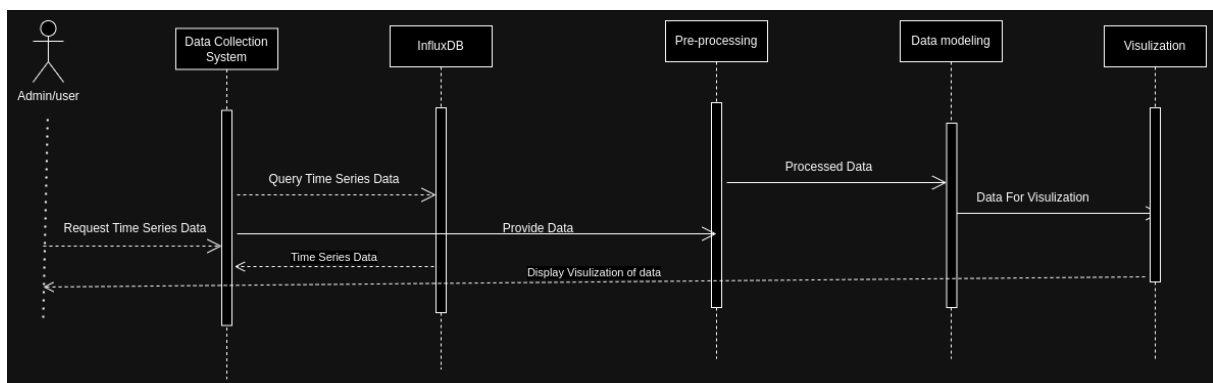


Figure 9: Sequences Diagram Of Product Visulization

Wireframe:

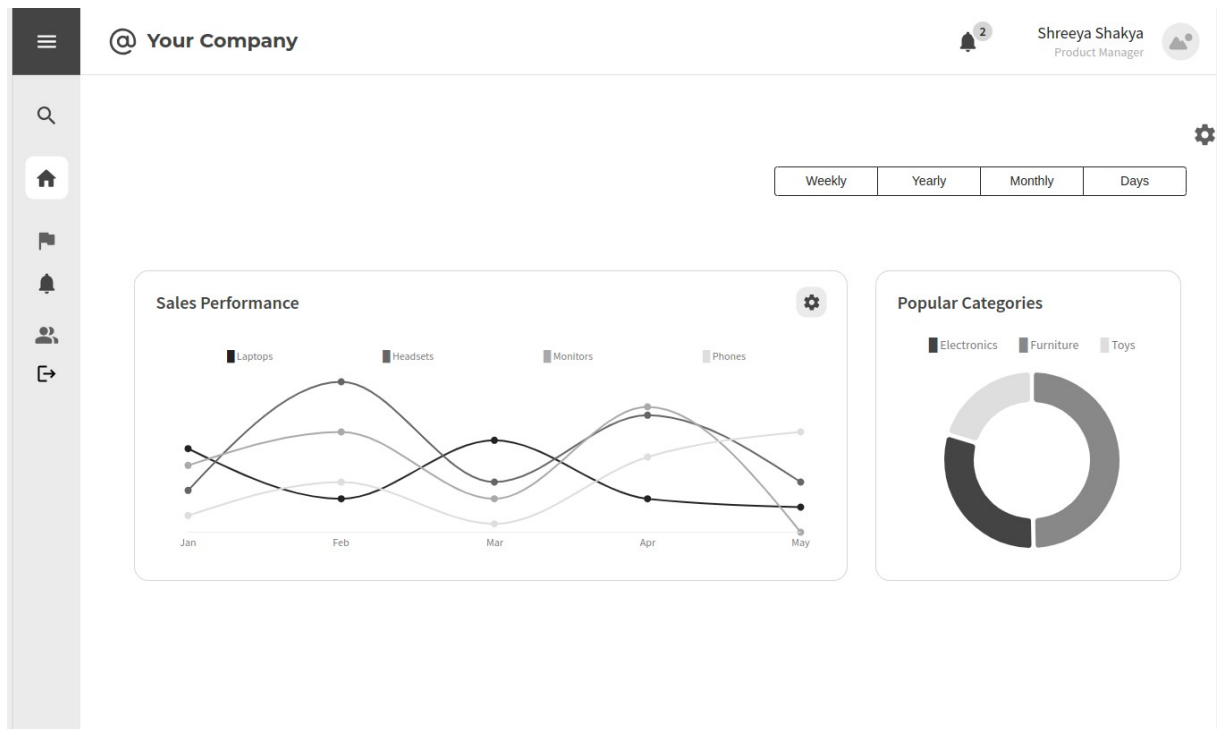


Figure 10: Dashboard Wireframe