Functional Requirements Specification (FRS):

System: User Registration & Authentication (Web) Tech Stack: Spring Boot, MySQL, ReactJS
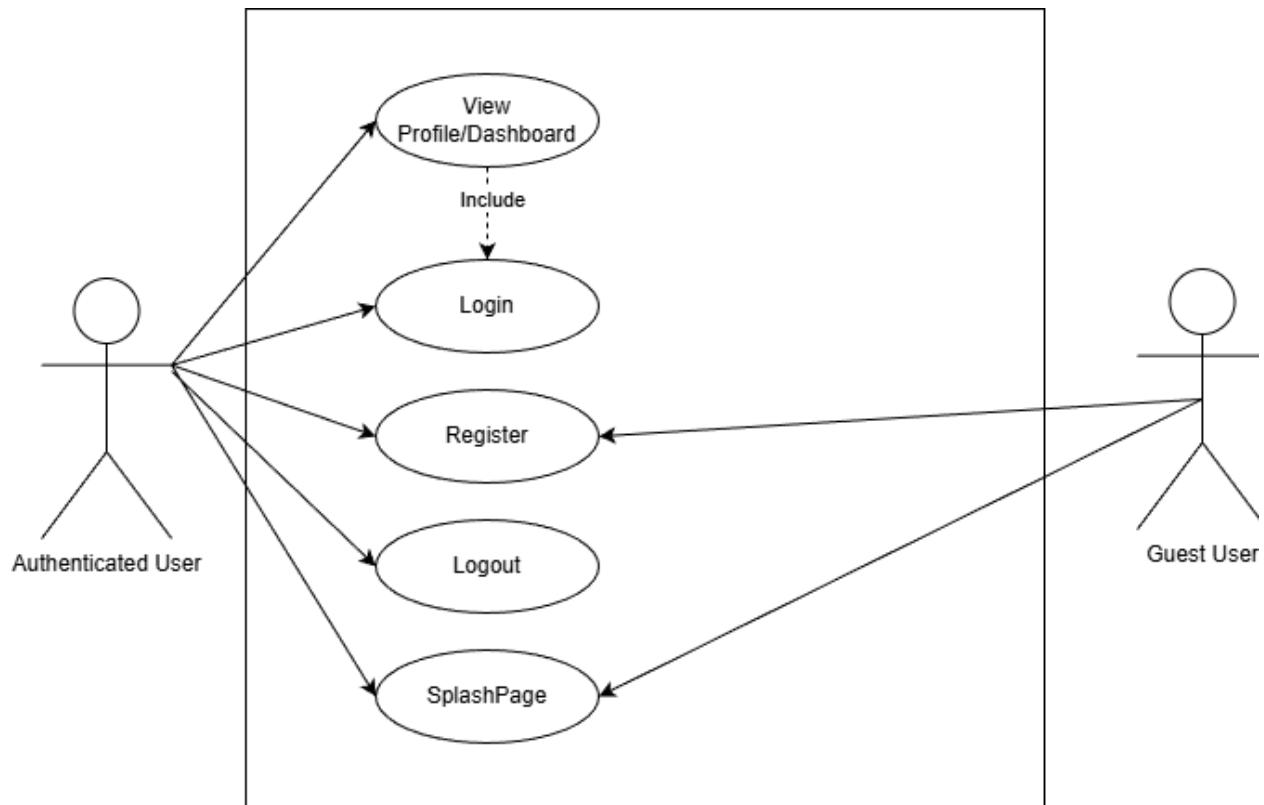
## 1. System Architecture & Design
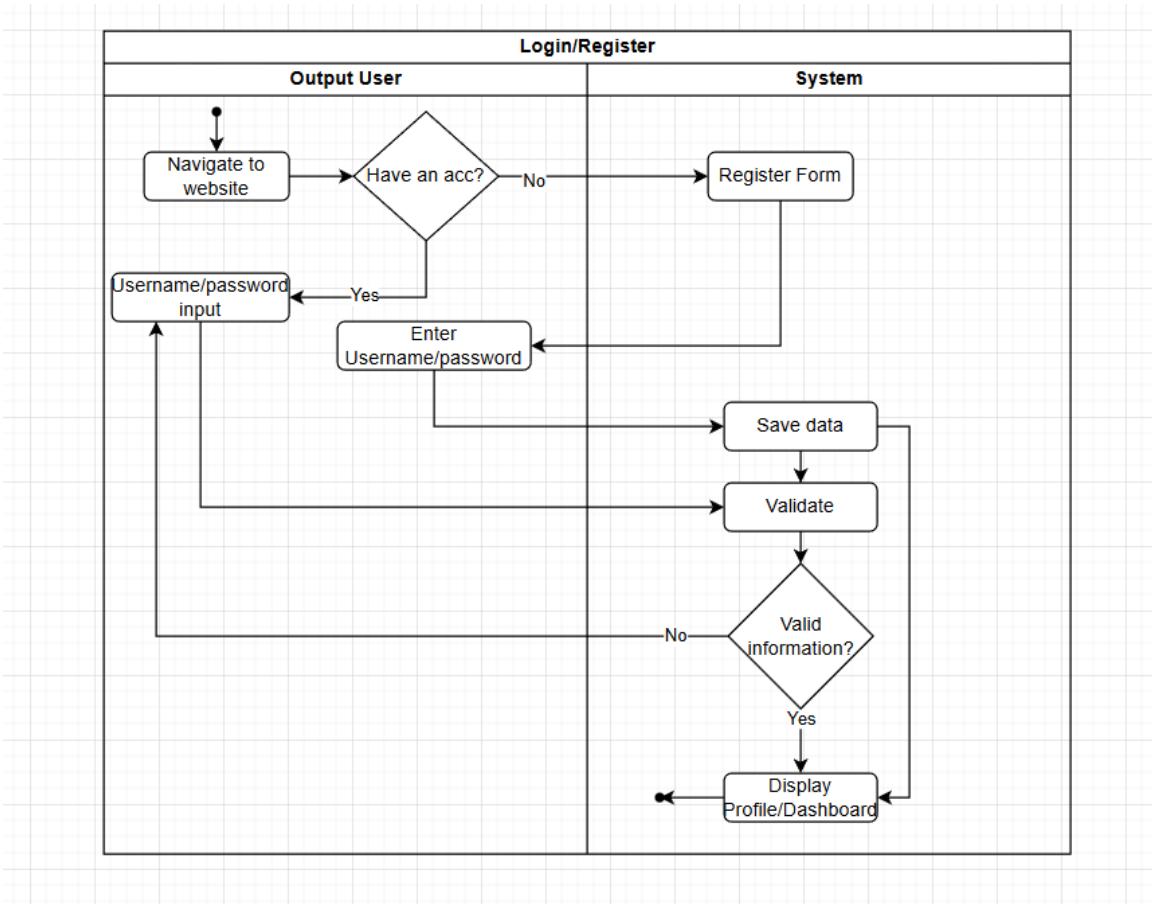
1.1 Entity Relationship Diagram (ERD)

1.2 UML Class/Sequence Diagrams

(Paste your UML Diagrams from the previous activity here)

Login/Register

Output User	System

Navigate to website → Have an acc? — No → Register Form

Have an acc? — Yes → Username/password input

Enter Username/password

Save data → Validate → Valid information? — No → (back to Username/password input)

Valid information? — Yes → Display Profile/Dashboard

2. Backend API Specification (Spring Boot)

The backend is built using Spring Boot with Spring Security and BCrypt for password hashing.
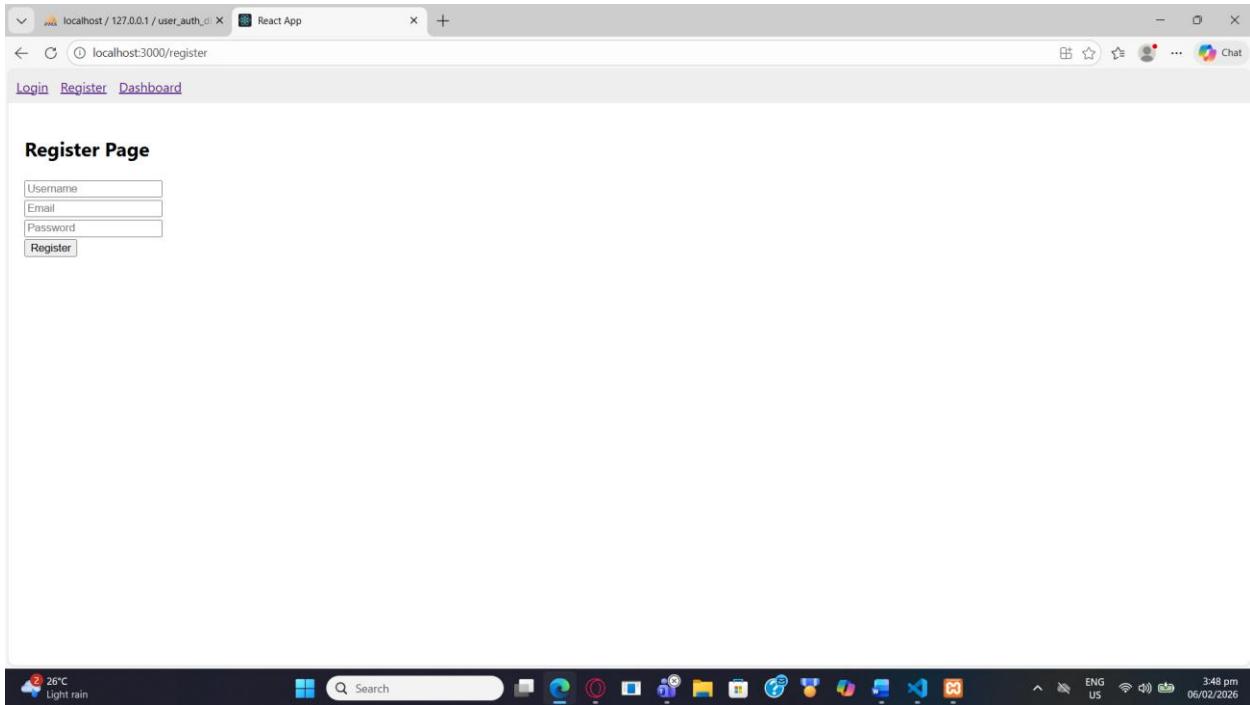
POST /api/auth/register: Handles new user creation.

POST /api/auth/login: Authenticates users and returns a session/token.
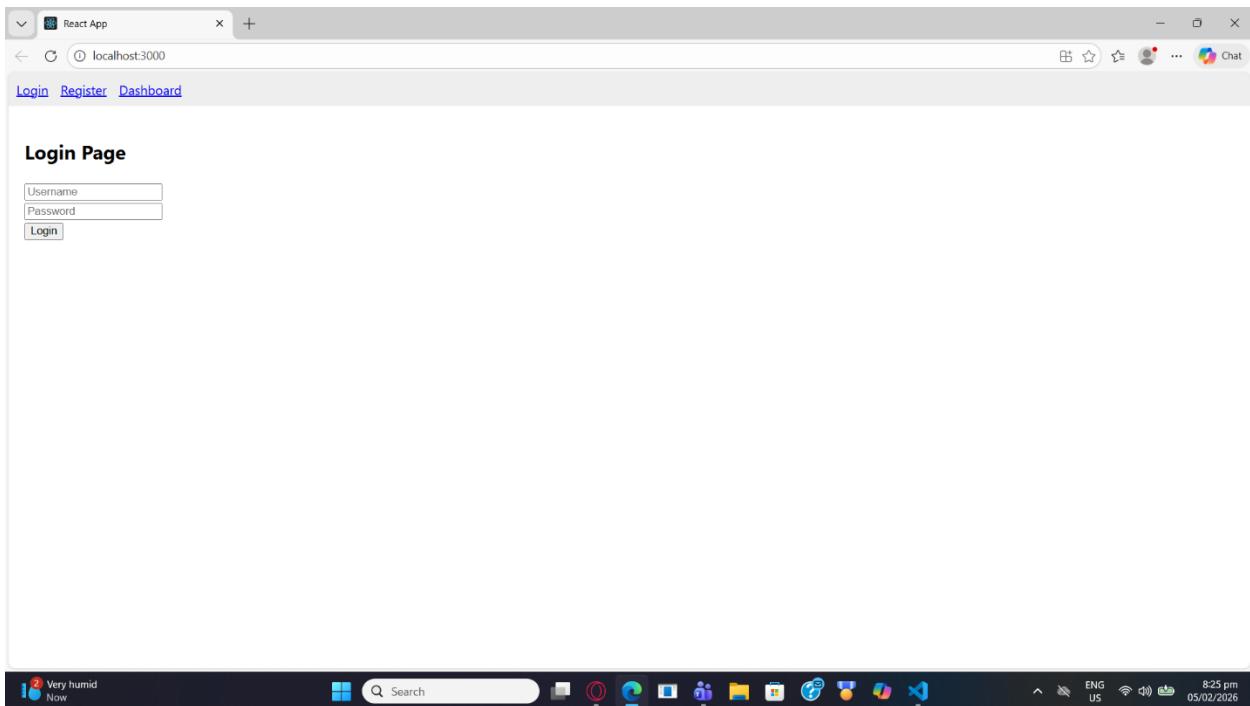
GET /api/user/me: Fetches the currently logged-in user's profile (Protected).

3. Web Interface (ReactJS Screenshots)

3.1 User Registration

3.2 User Login

3.3 Dashboard

Login Register Dashboard

User Dashboard

Welcome! This is a protected route.

[Logout]

3.4 Logout Functionality

User Dashboard

Welcome! This is a protected route.

[Logout]