Functional Requirements Specification (FRS):

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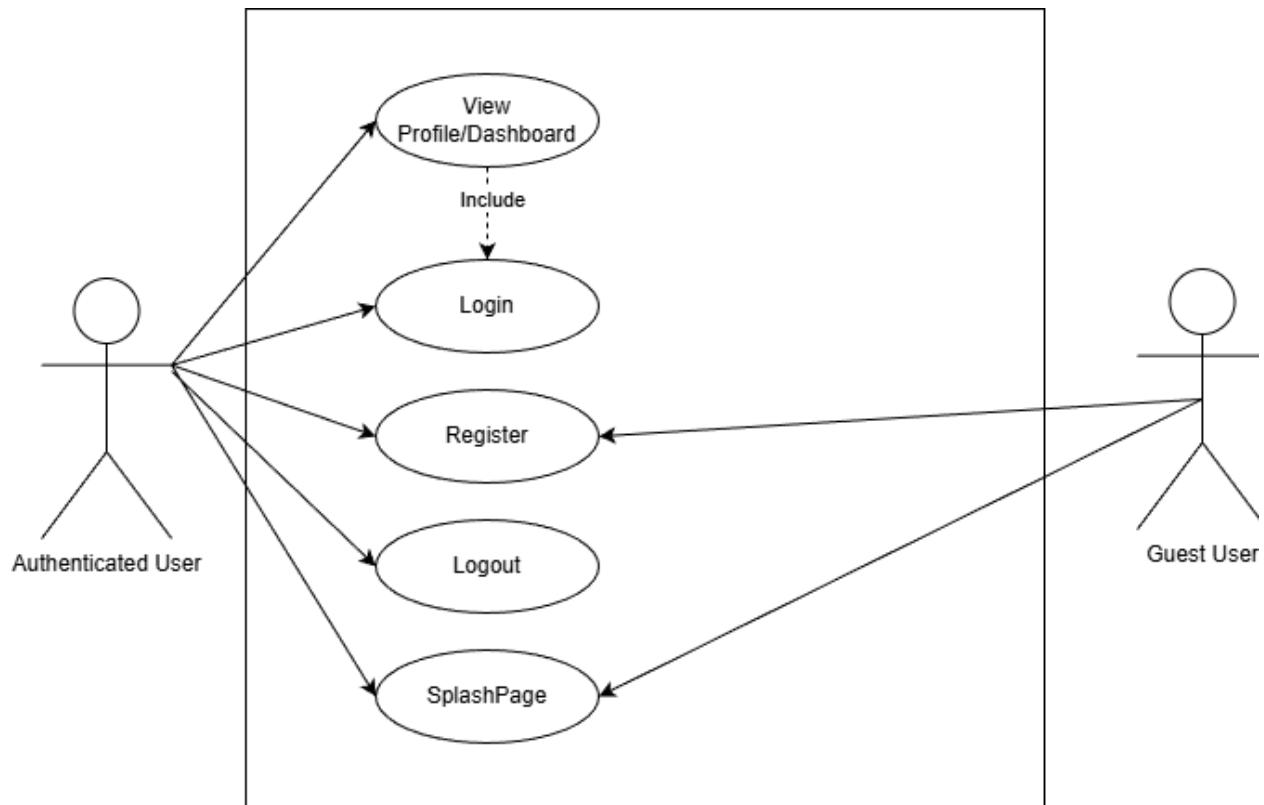
1. System Architecture & Design
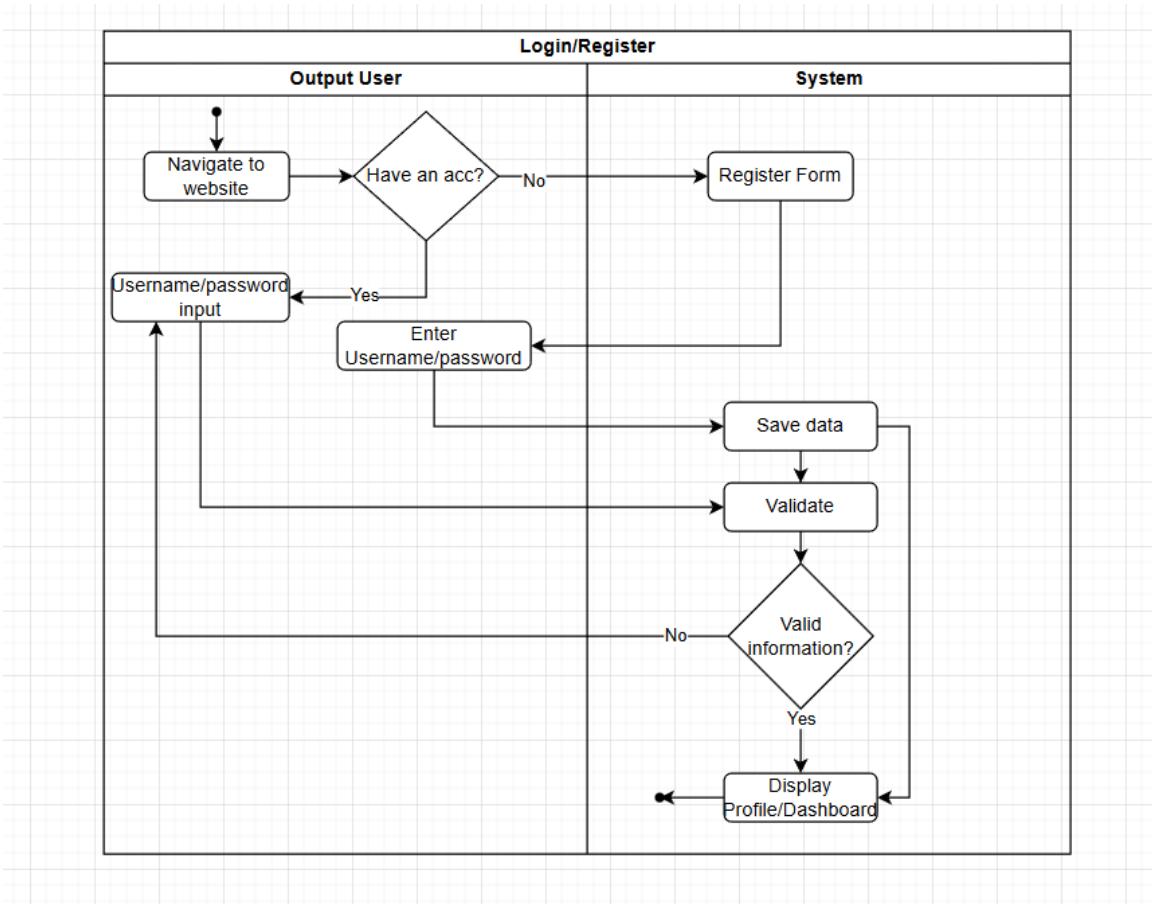
1.1 Entity Relationship Diagram (ERD)

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

Register Form → Enter Username/password

Enter Username/password → Save data

Username/password input → Validate

Save data → Validate

Validate → Valid information?

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.
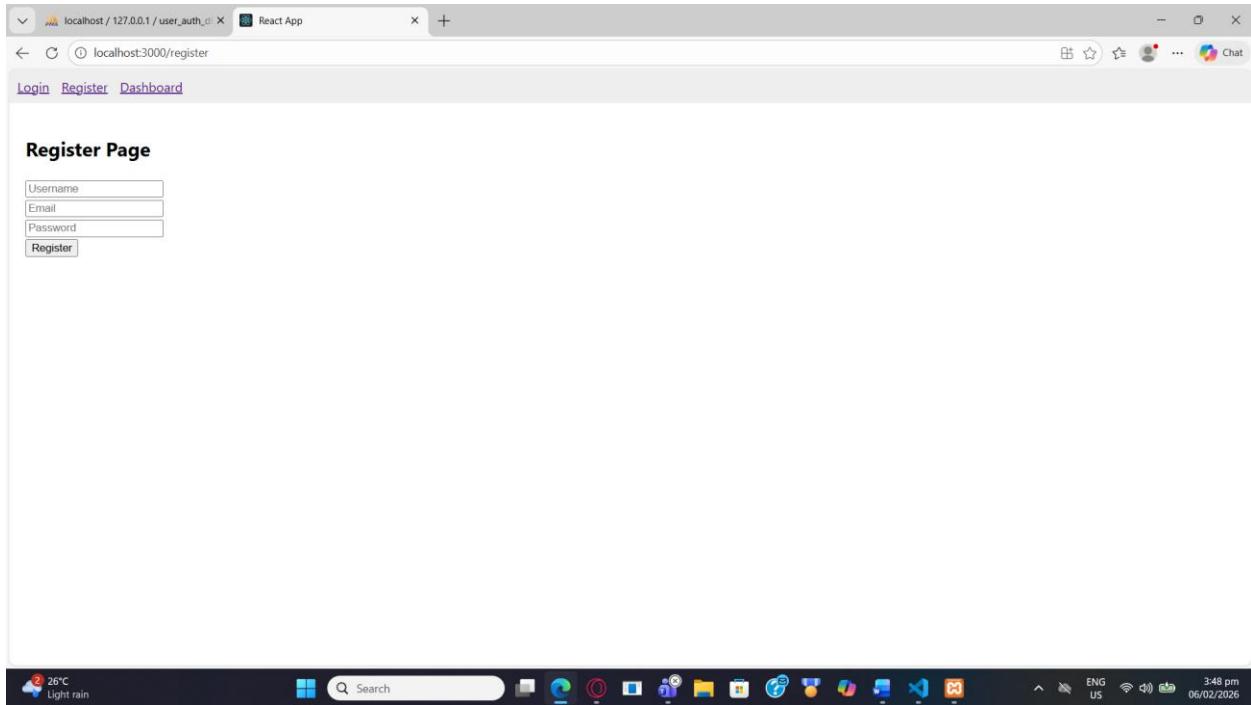
POST /api/auth/register: Handles new user creation.

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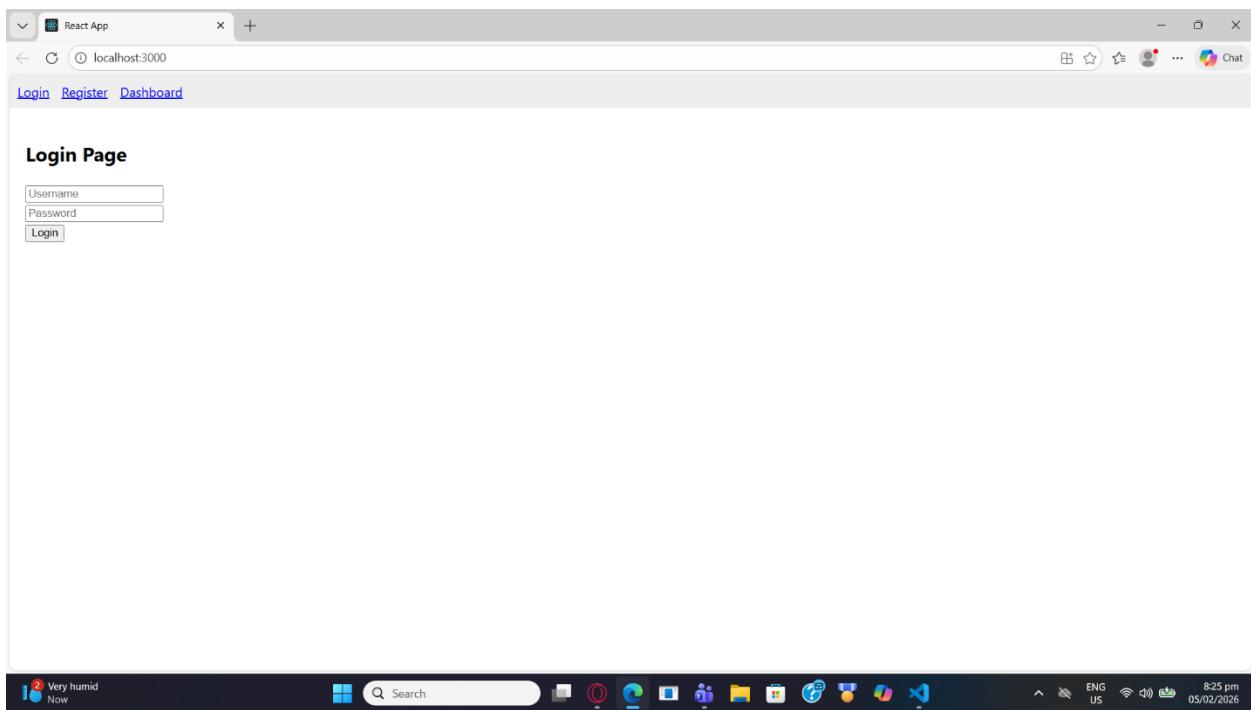
GET /api/user/me: Fetches the currently logged-in user's profile (Protected).

3. Web Interface (ReactJS Screenshots)
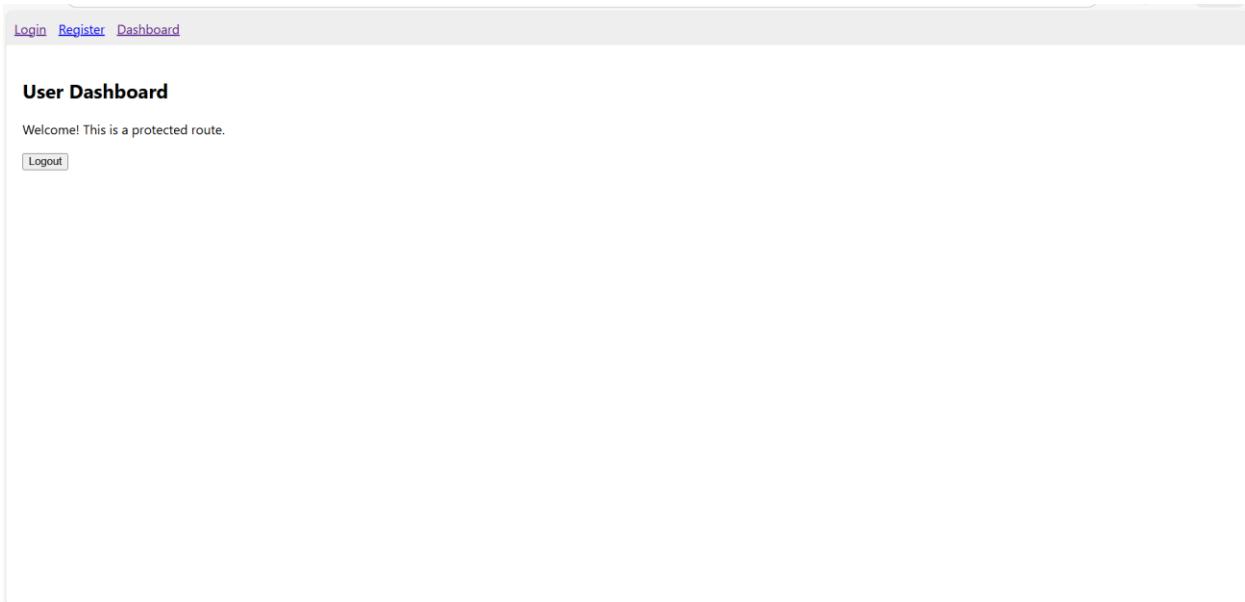
3.1 WEB User Registration

3.2 WEB User Login

3.3 WEB Dashboard

Login Register Dashboard

User Dashboard

Welcome! This is a protected route.
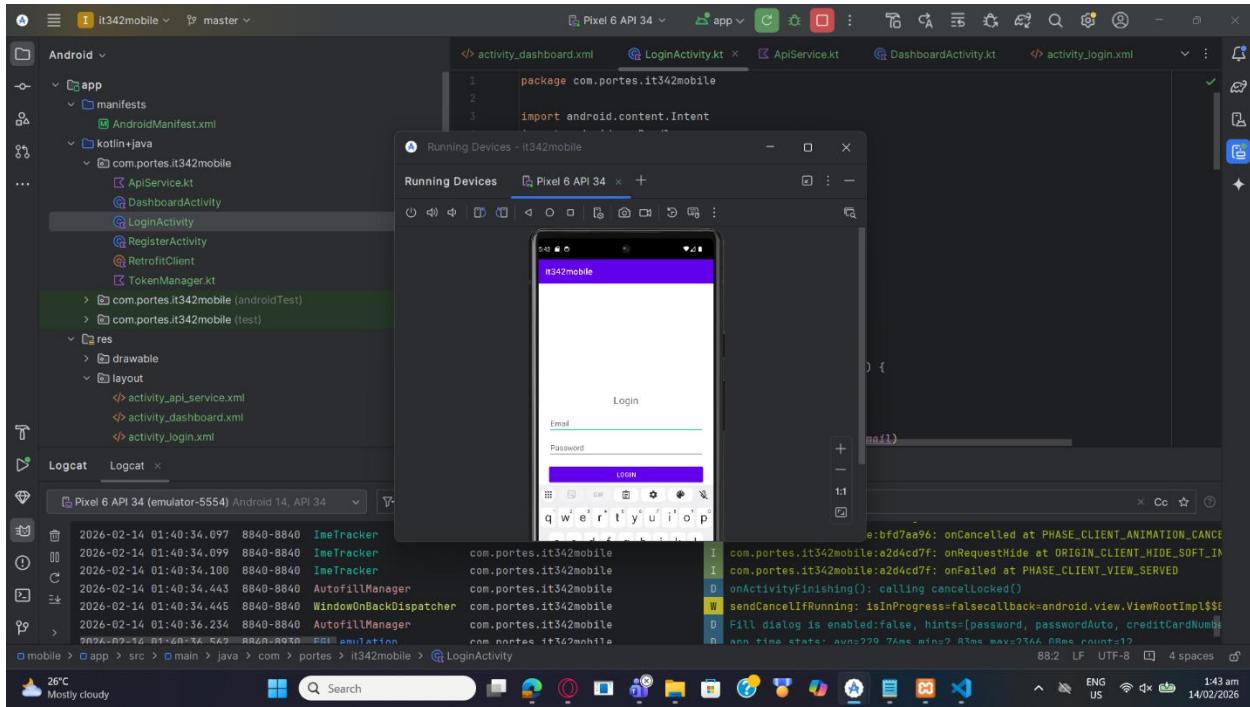
Logout

## 3.4 Logout Functionality

User Dashboard
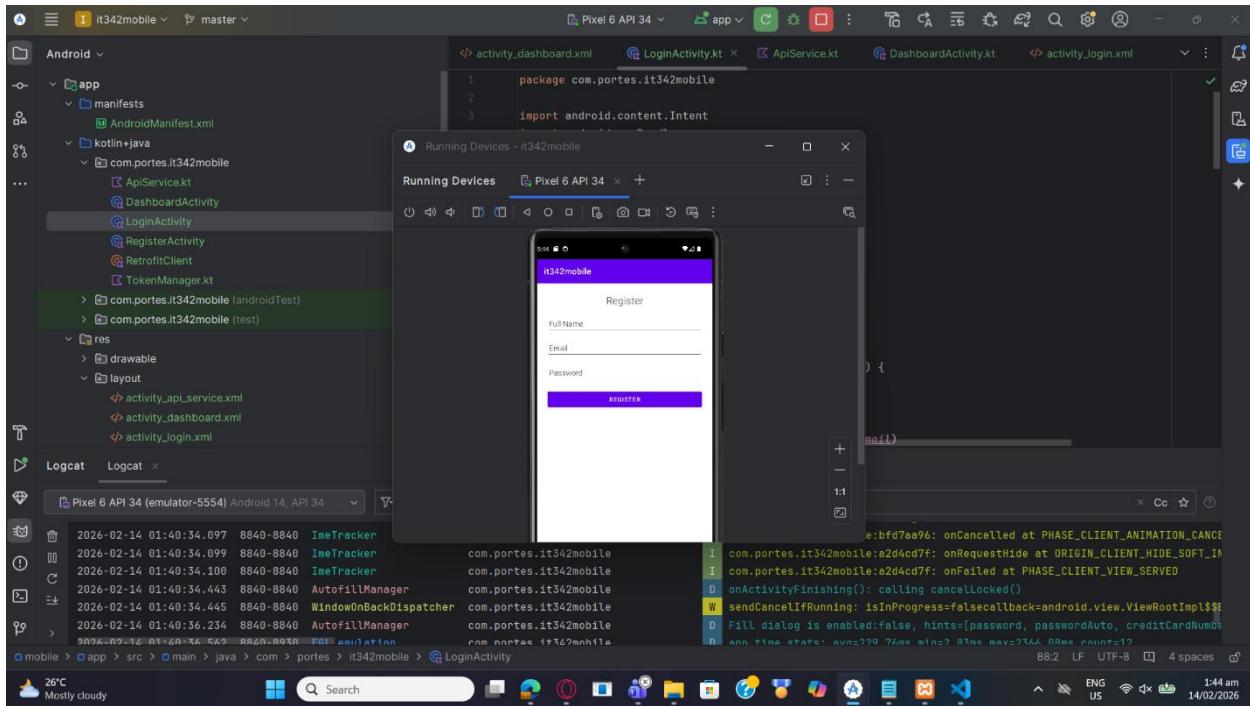
Welcome! This is a protected route.

Logout

4.1 ANDROID LOGIN

4.2 ANDROID REGISTER

4.3 ANDROID DASHBOARD