# CEBU INSTITUTE OF TECHNOLOGY
## UNIVERSITY

# IT342-Section SYSTEMS INTEGRATION AND ARCHITECTURE 1

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## FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

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Project Title:

Prepared By:  Jay-Z R. Olimba

Date of Submission:  06/02/26

Version:

# Table of Contents

# 1. Introduction

## 1.1. Purpose
Describe the purpose of the system and the intended audience of this document.

## 1.2. Scope
Describe what the system will do and its boundaries.

## 1.3. Definitions, Acronyms, and Abbreviations
List and define important terms used in this document.

# 2. Overall Description

## 2.1. System Perspective
Describe how the system fits into a larger context or environment.

## 2.2. User Classes and Characteristics
Identify the different types of users and their characteristics.

## 2.3. Operating Environment
Specify the hardware, software, and tools required to operate the system.

## 2.4. Assumptions and Dependencies
List any assumptions and external dependencies that may affect the system.

# 3. System Features and Functional Requirements
Describe each major feature of the system and its functional requirements.

## 3.1. Feature 1:
Description:
Functional Requirements:

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-

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## 3.2. Feature 2:
Description:
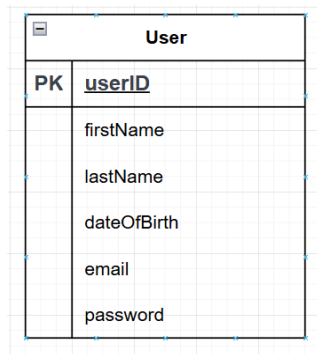Functional Requirements:

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# 4. Non-Functional Requirements
Specify system quality attributes such as performance, security, usability, reliability, etc.
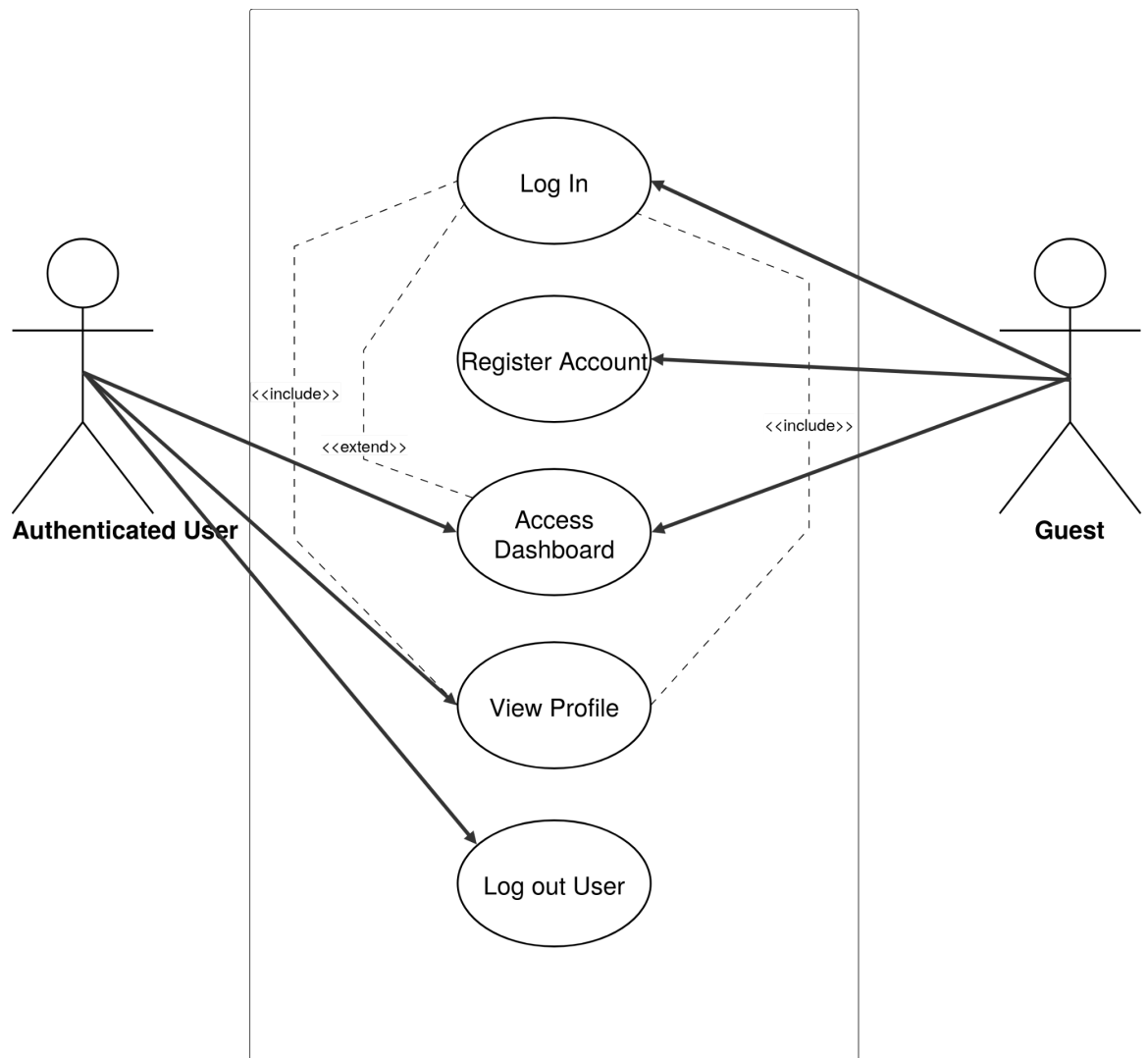
# 5. System Models (Diagrams)
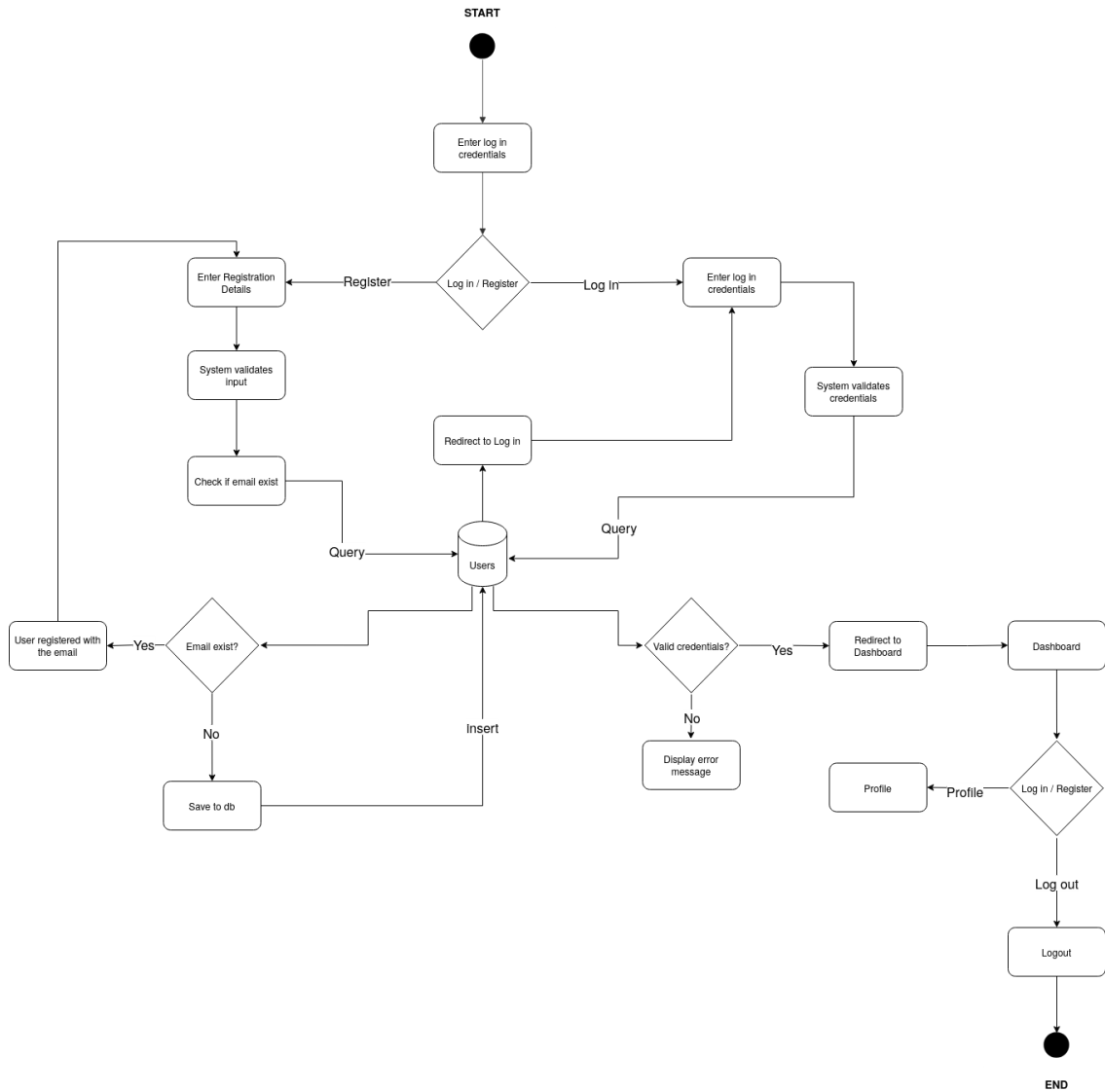
*Insert the necessary diagrams for the system:*

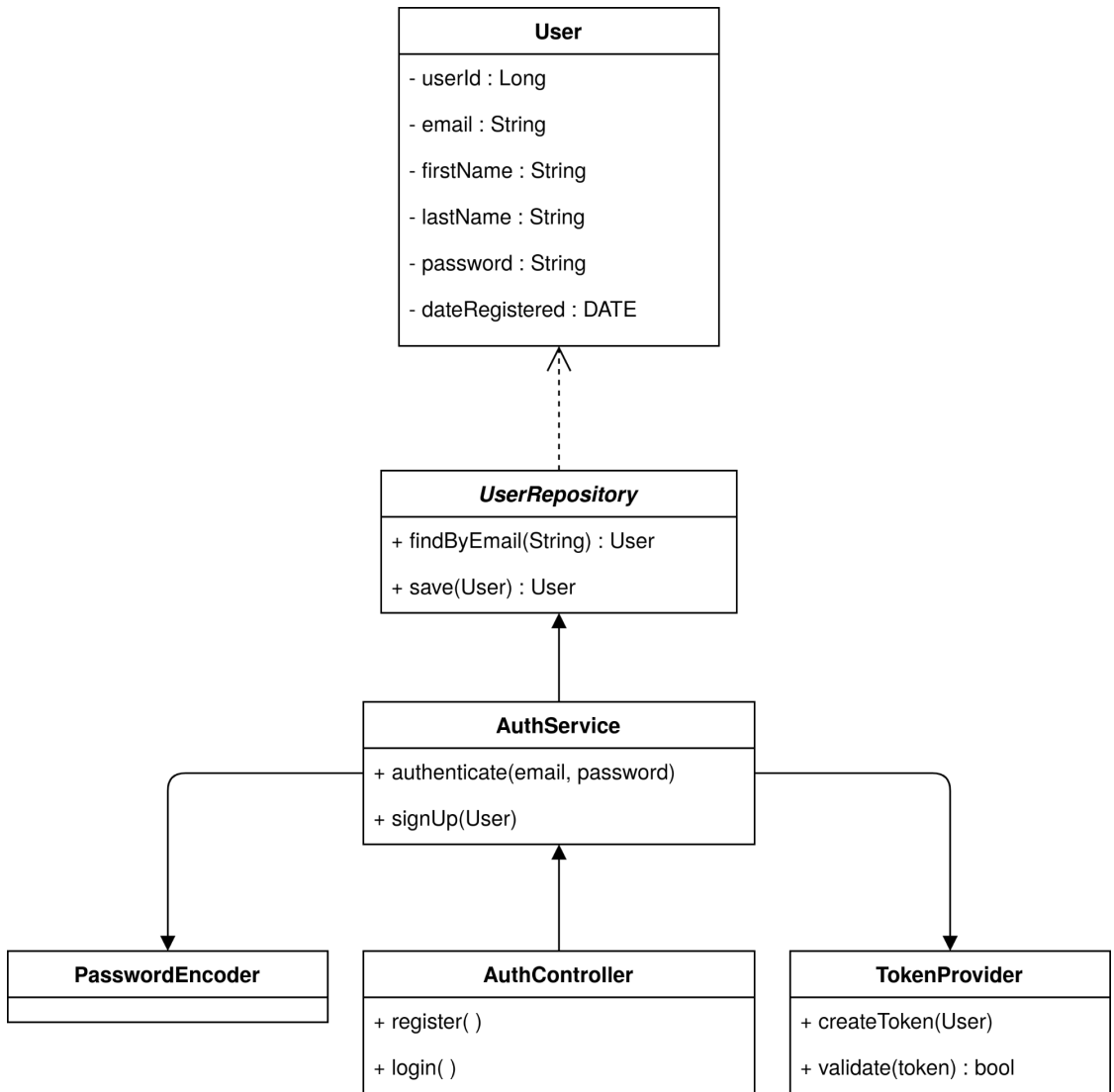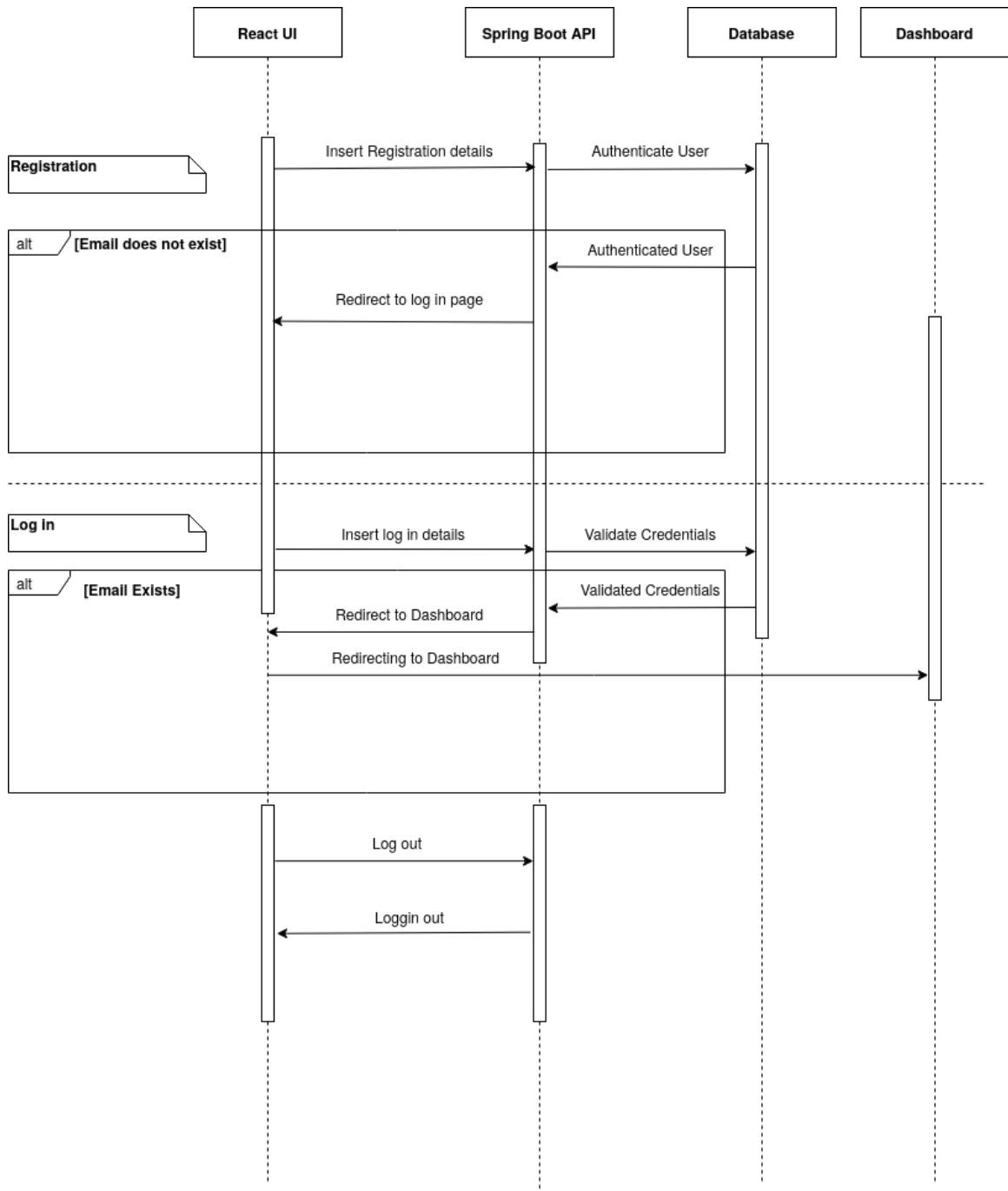## 5.1. ERD

| | User |
|---|---|
| PK | **userID** |
| | firstName |
| | lastName |
| | dateOfBirth |
| | email |
| | password |

## 5.2. Use Case Diagram

## 5.3. Activity Diagram

## 5.4. Class Diagram



**User**

- userId : Long
- email : String
- firstName : String
- lastName : String
- password : String
- dateRegistered : DATE

*UserRepository*

+ findByEmail(String) : User
+ save(User) : User

**AuthService**

+ authenticate(email, password)
+ signUp(User)

**PasswordEncoder**

**AuthController**

+ register( )
+ login( )

**TokenProvider**

+ createToken(User)
+ validate(token) : bool
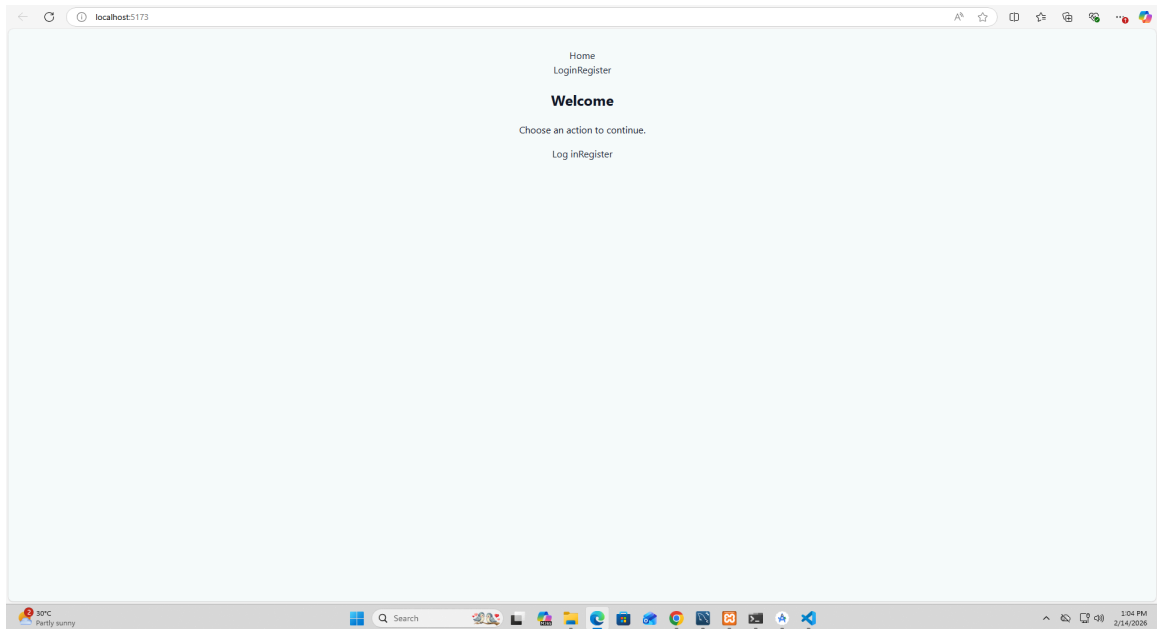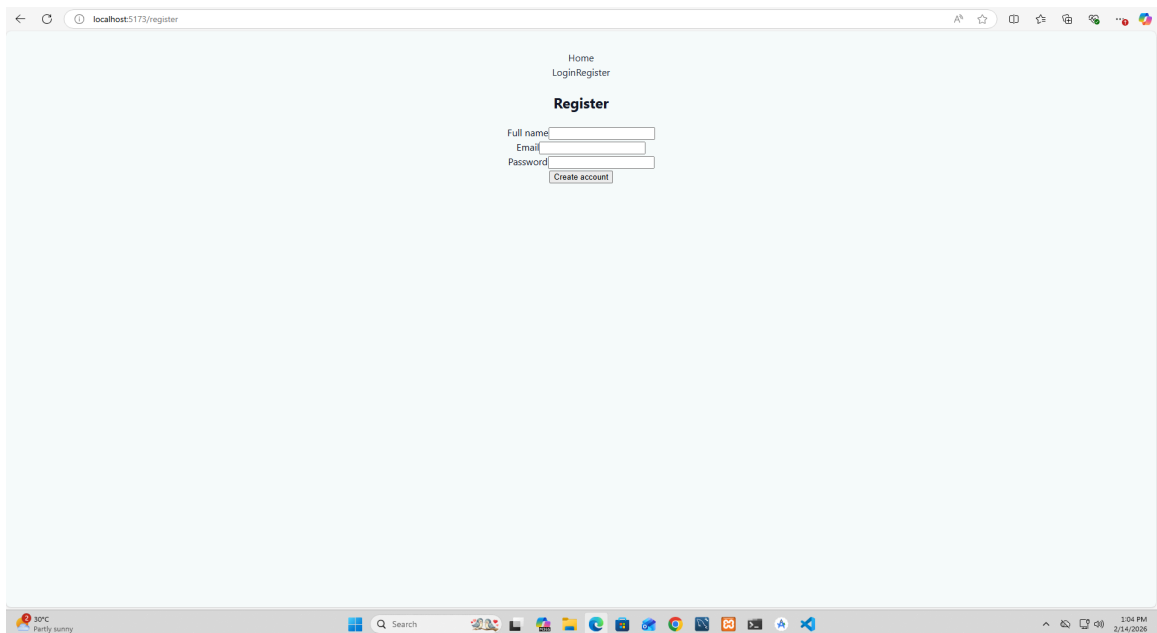
## 5.5. Sequence Diagram



## 6. Appendices

Include any additional information, references, or support materials.

## 7. Screenshots

## HomePage
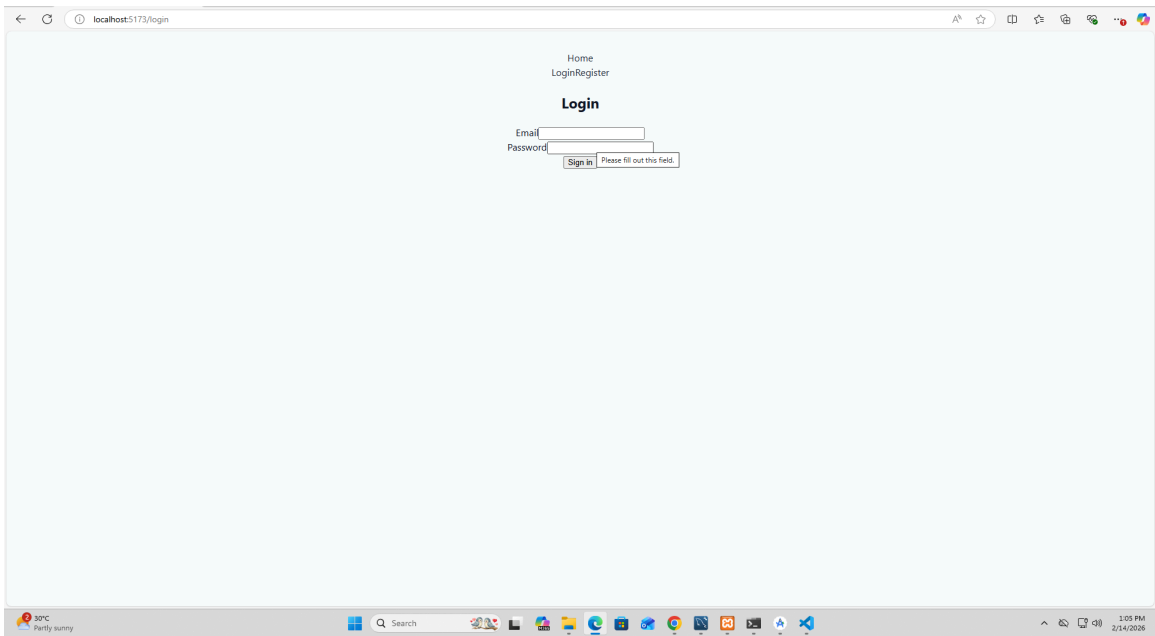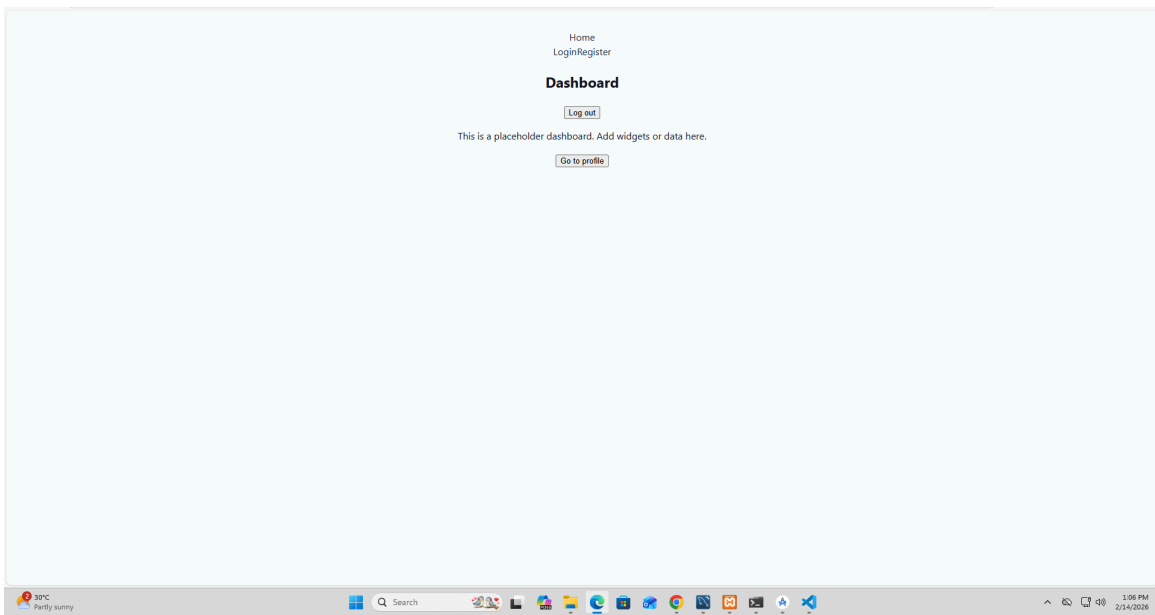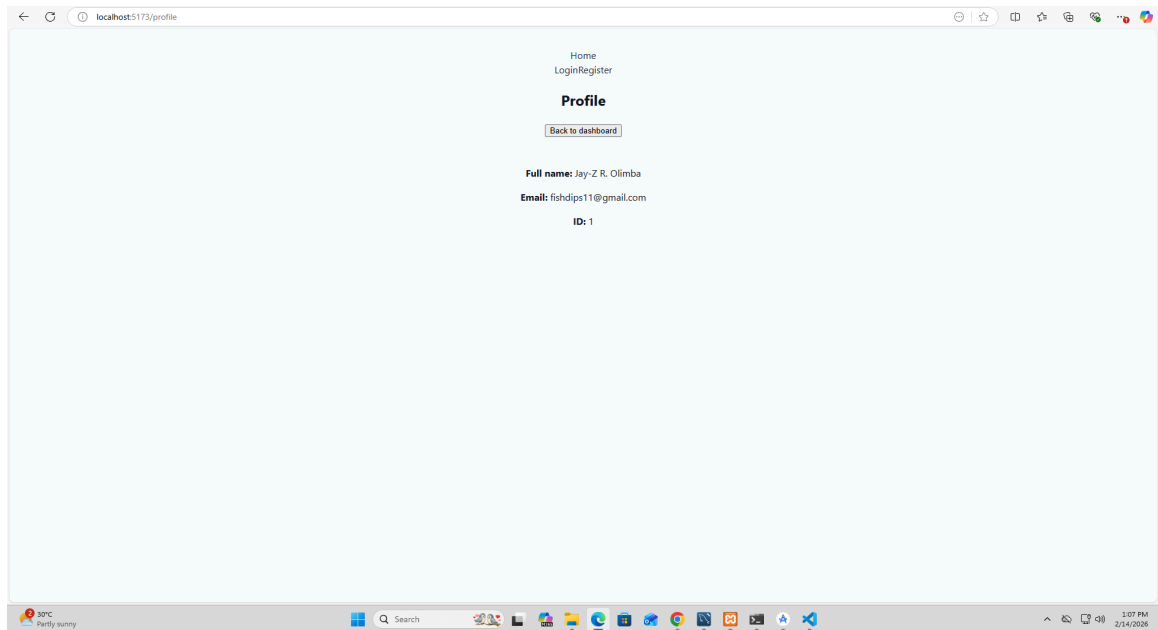


## Register

# Login



# Dashboard

# Profile/logout



# Login (Mobile)