IT342-Section SYSTEMS INTEGRATION AND ARCHITECTURE 1

FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

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:
-
-
-

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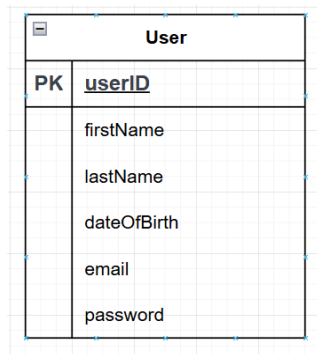Description:
Functional Requirements:
-
-
-

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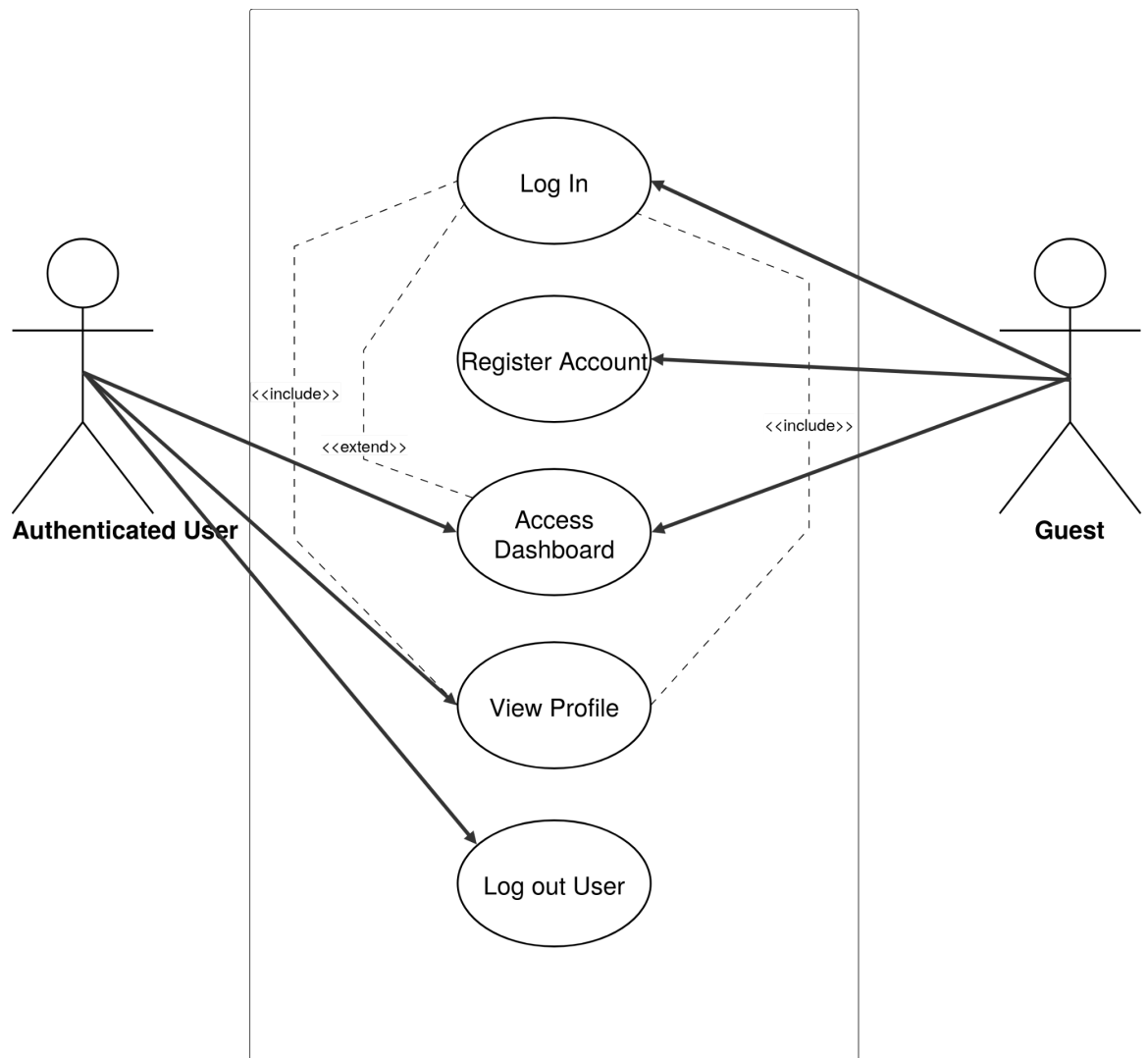
5. System Models (Diagrams)
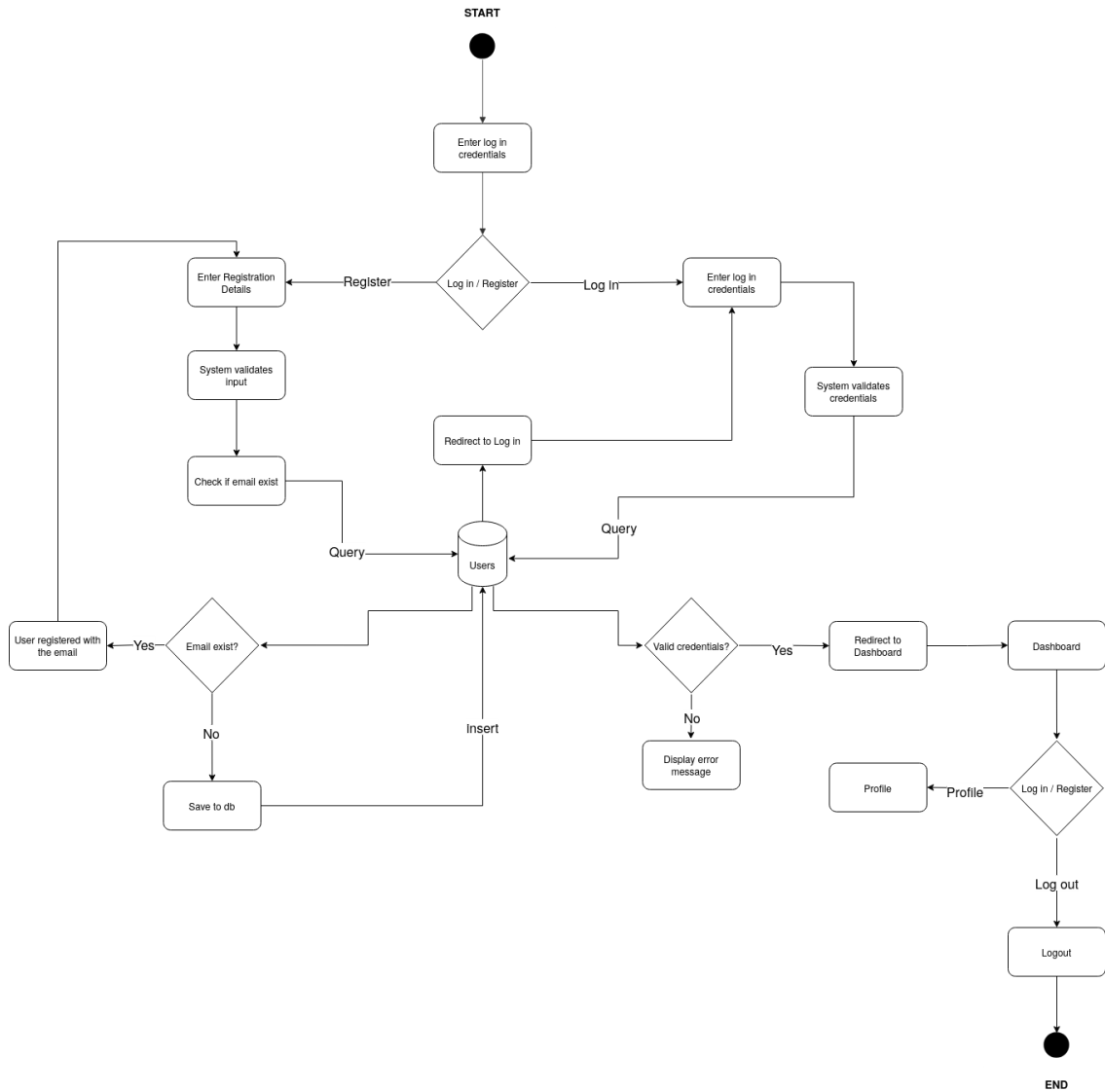
Insert the necessary diagrams for the system:

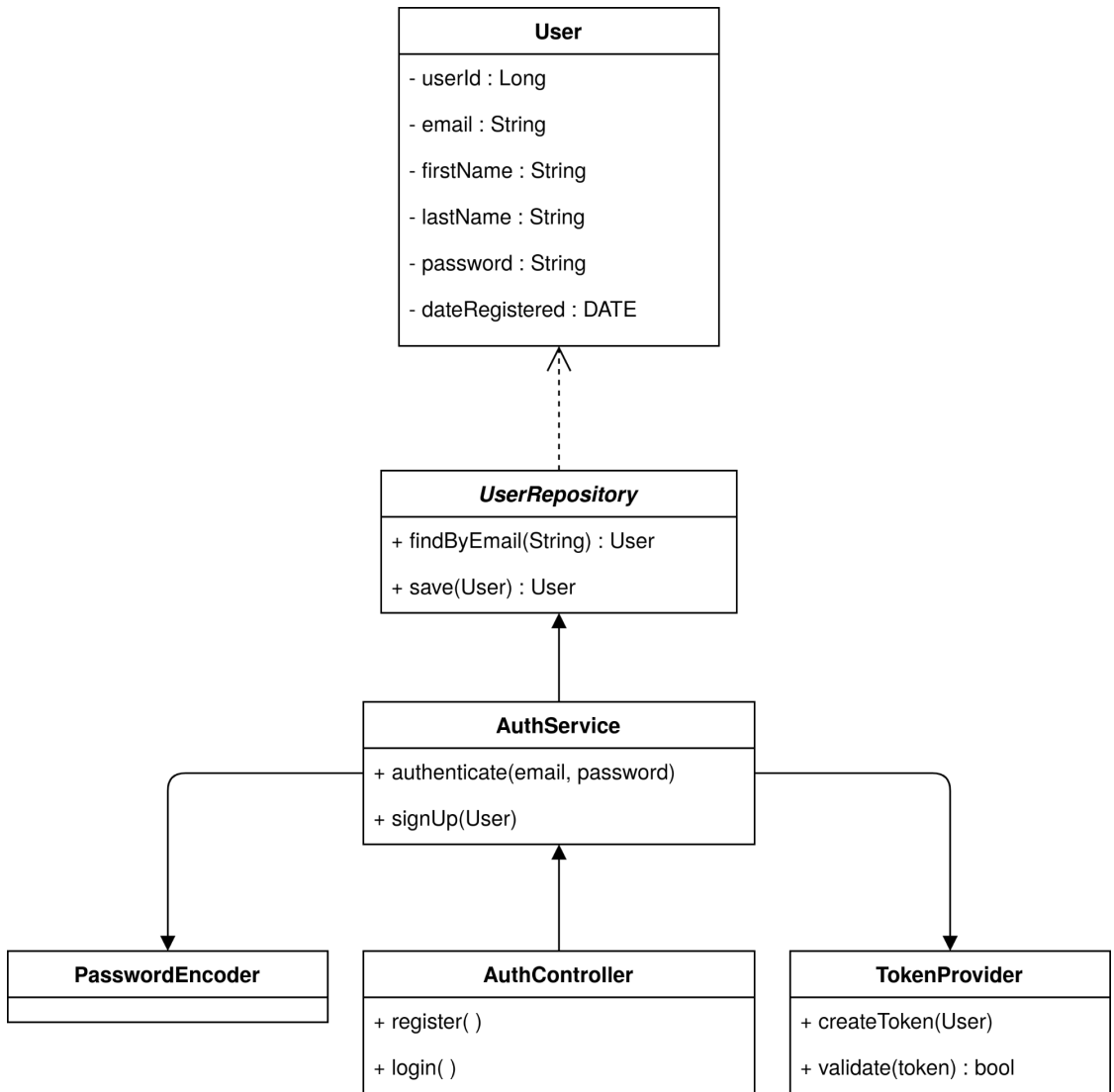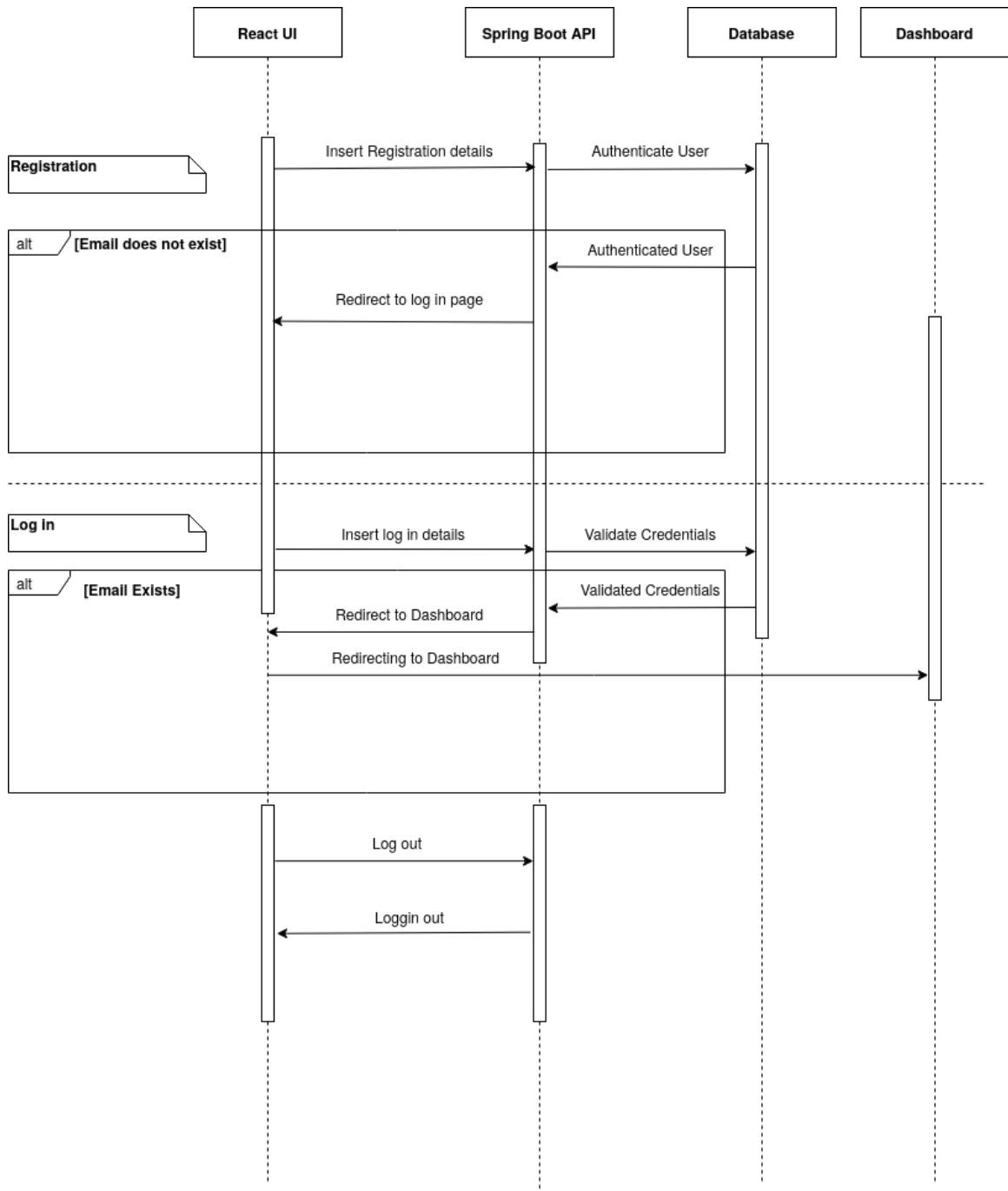## 5.1. ERD

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

5.2. Use Case Diagram

5.3. Activity Diagram

START

Enter log in credentials

Log in / Register

→ Register → Enter Registration Details

→ Log in → Enter log in credentials

Enter Registration Details → System validates input → Check if email exist → Query → Users

Enter log in credentials → System validates credentials → Query → Users

Redirect to Log in

Users

Email exist? — Yes → User registered with the email

Email exist? — No → Save to db → Insert → Users

Valid credentials? — Yes → Redirect to Dashboard → Dashboard

Valid credentials? — No → Display error message

Dashboard → Log in / Register

Log in / Register — Profile → Profile

Log in / Register — Log out → Logout

END

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
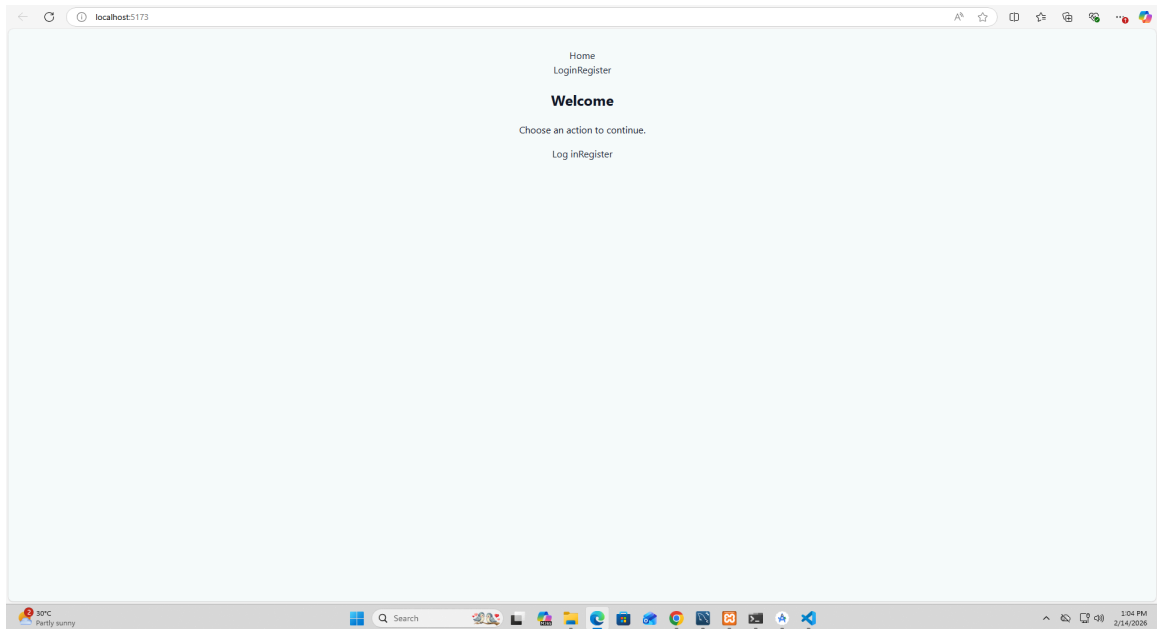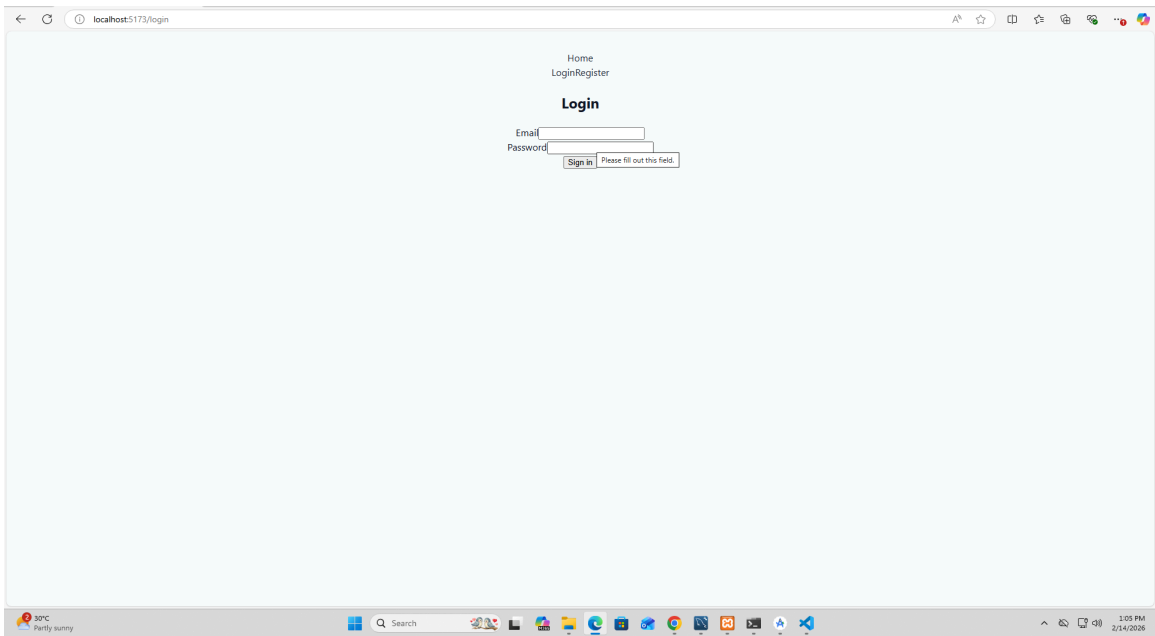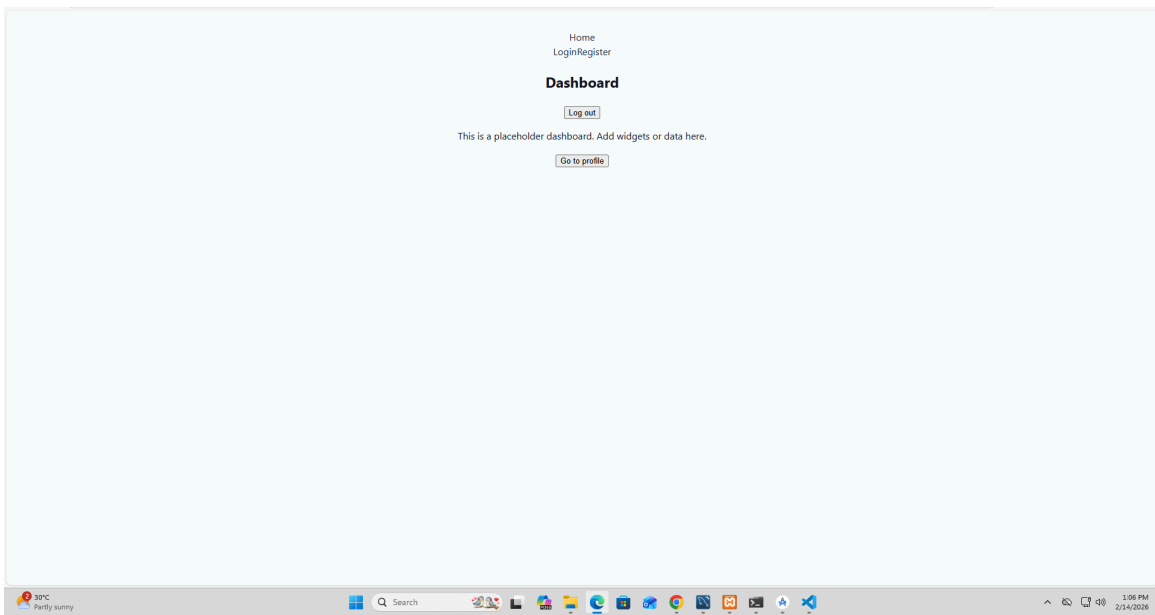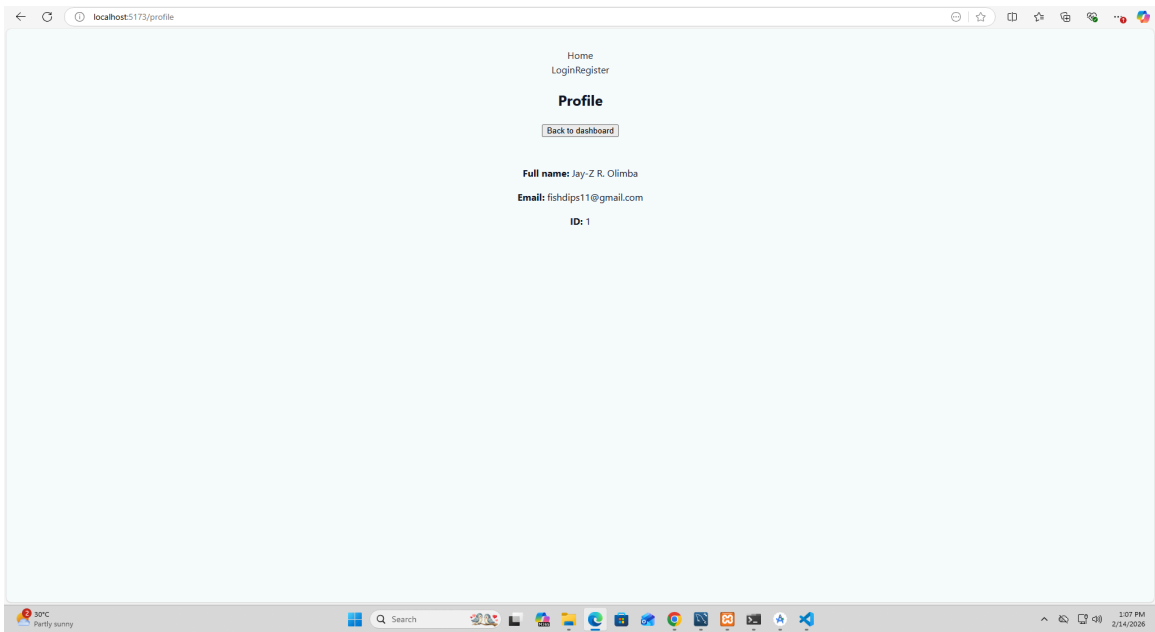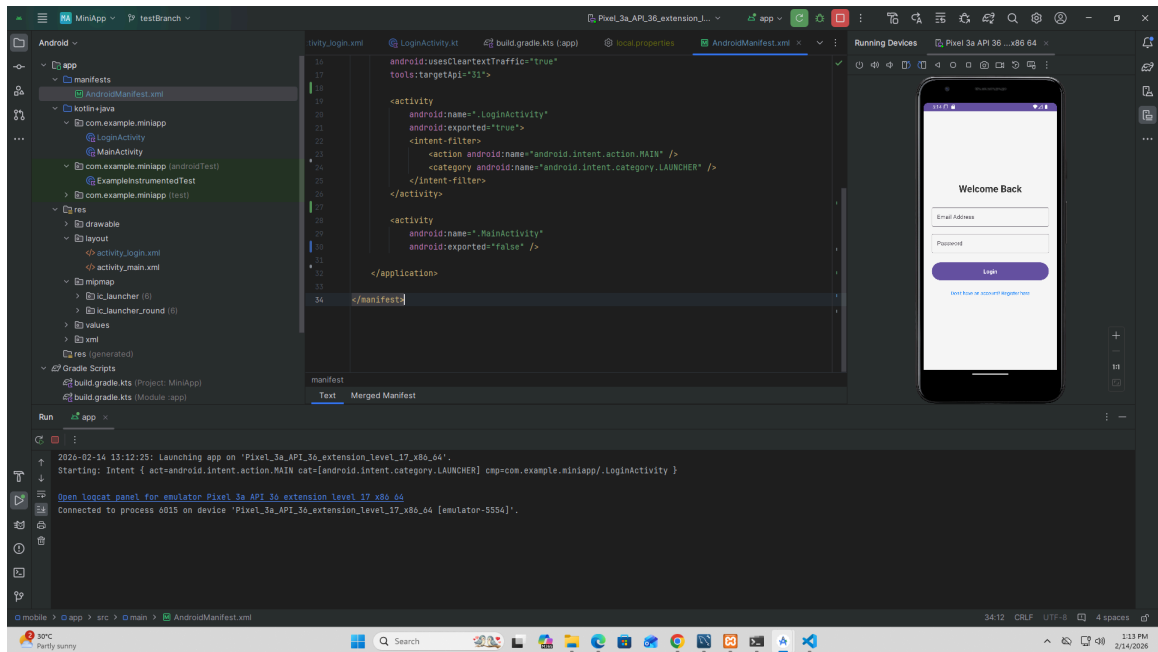

Register
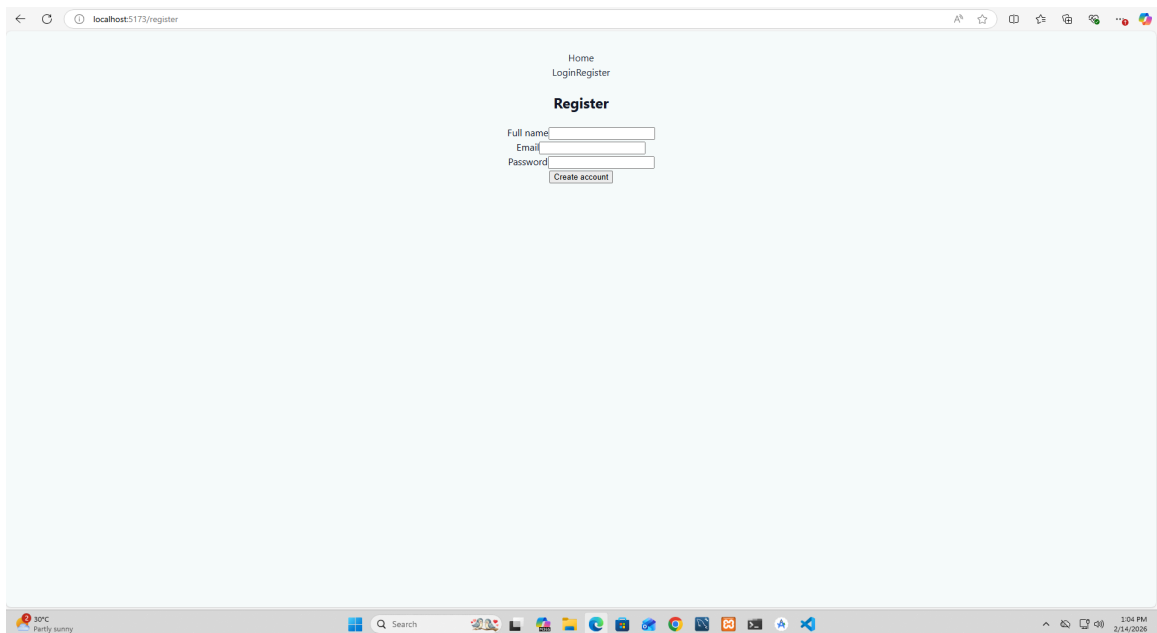
Login

Dashboard

Profile/logout

Profile

Back to dashboard

Full name: Jay-Z R. Olimba
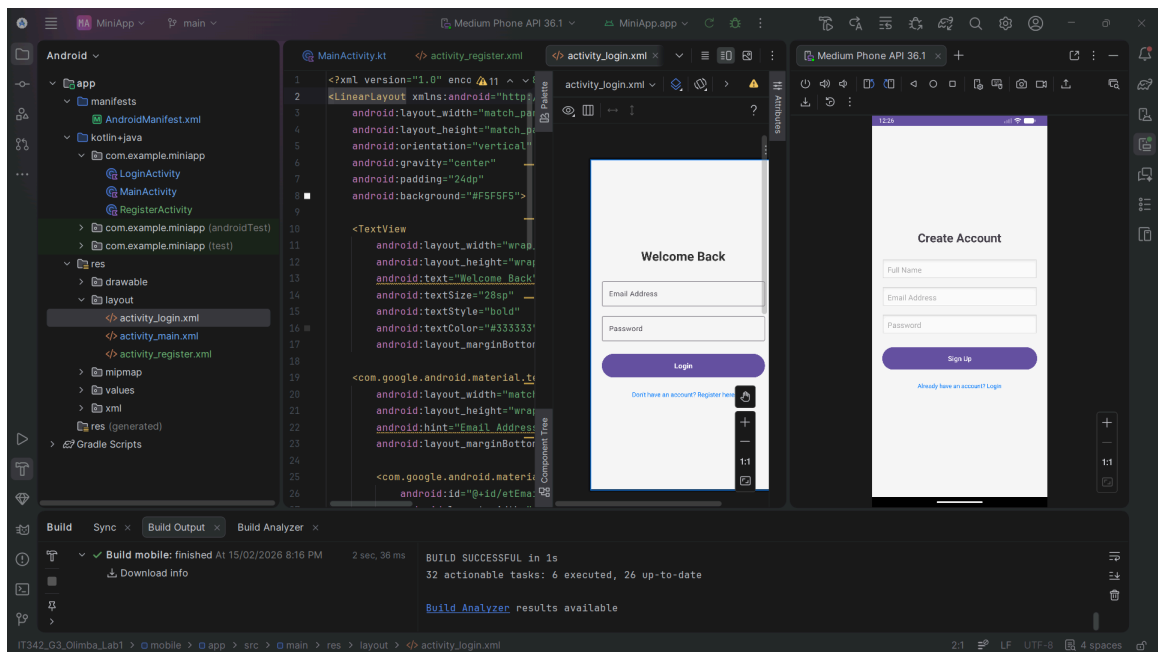
Email: fishdips11@gmail.com

ID: 1

Login (Mobile)

Register (Mobile)

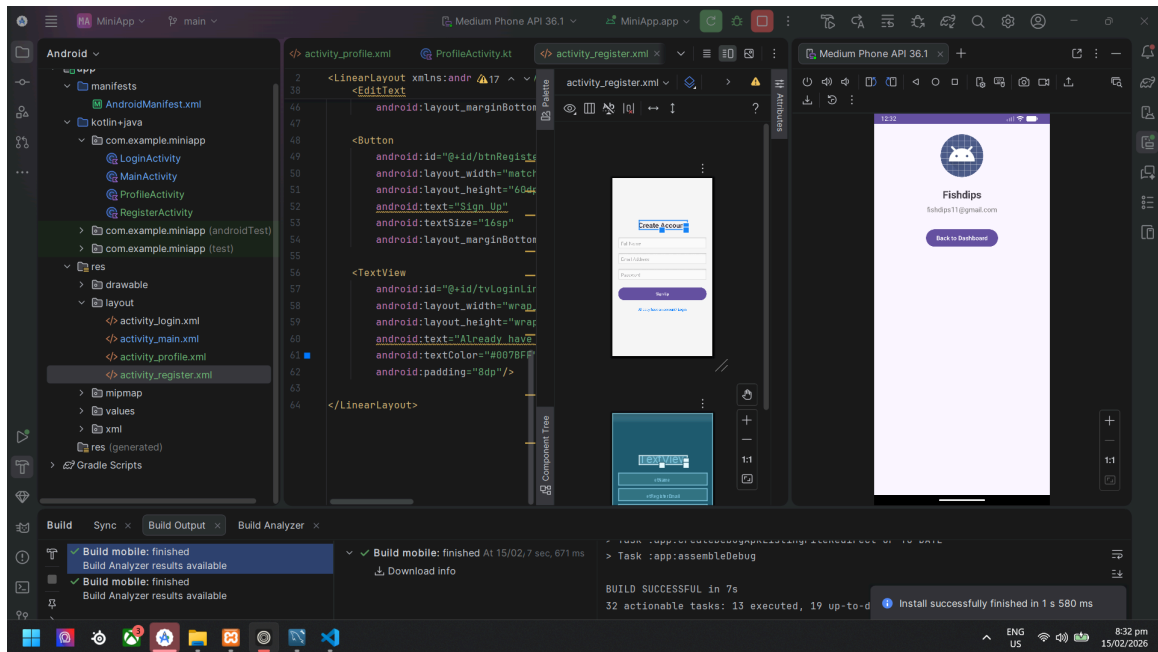## Profile(Mobile)

Dashboard / Logout (Mobile)