CEBU INSTITUTE OF TECHNOLOGY
UNIVERSITY

IT342-G5
SYSTEMS INTEGRATION AND ARCHITECTURE 1

FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

Project Title:

Prepared By: Lawrence Anthony D. Paradela

Date of Submission:

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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3.2. Feature 2:

Description:

Functional Requirements:

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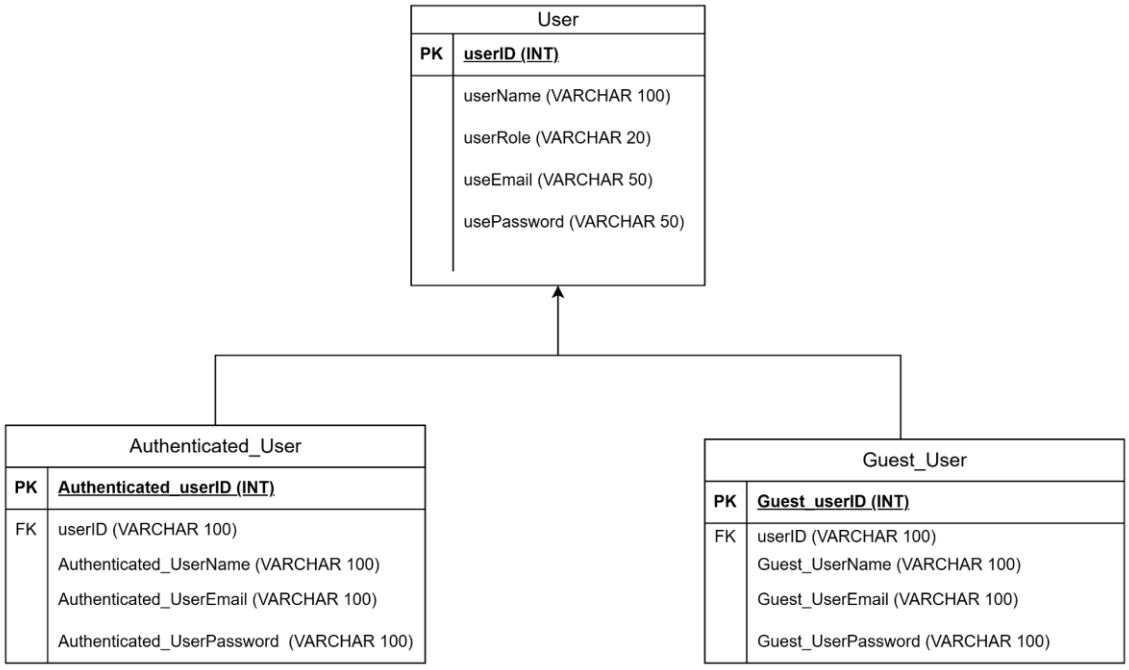
4. Non-Functional Requirements

Specify system quality attributes such as performance, security, usability, reliability, etc.

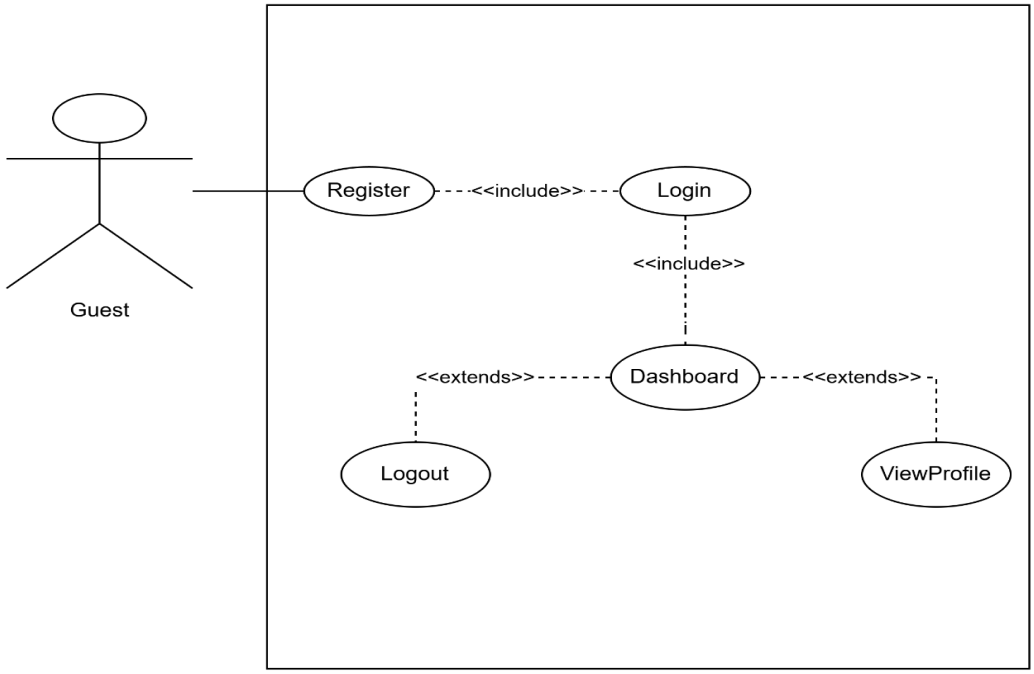
5. System Models (Diagrams)

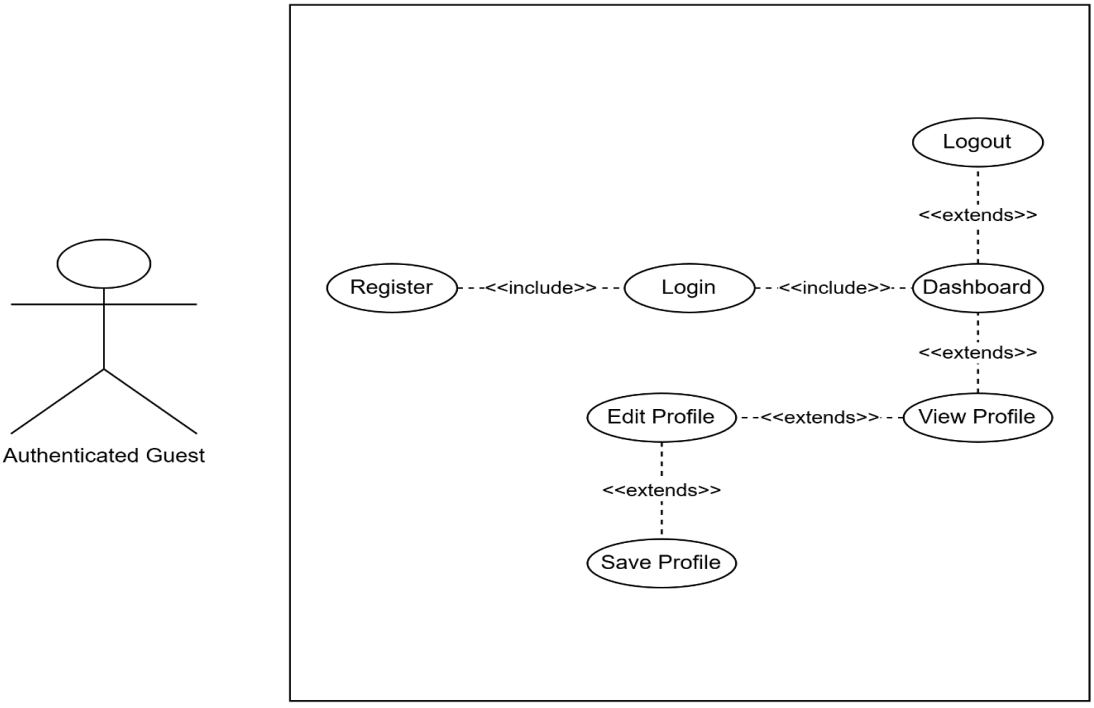
Insert the necessary diagrams for the system:

5.1. ERD

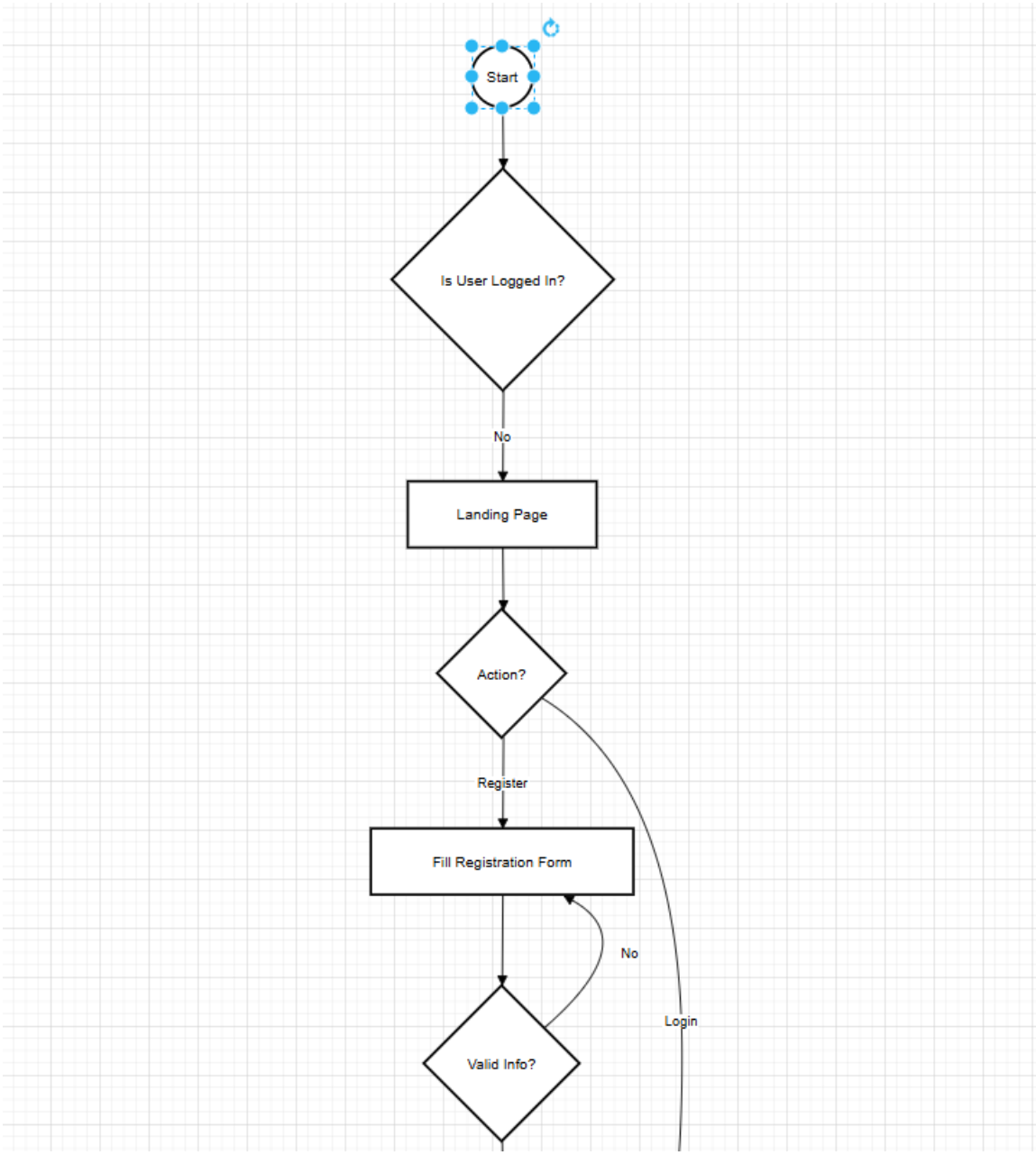


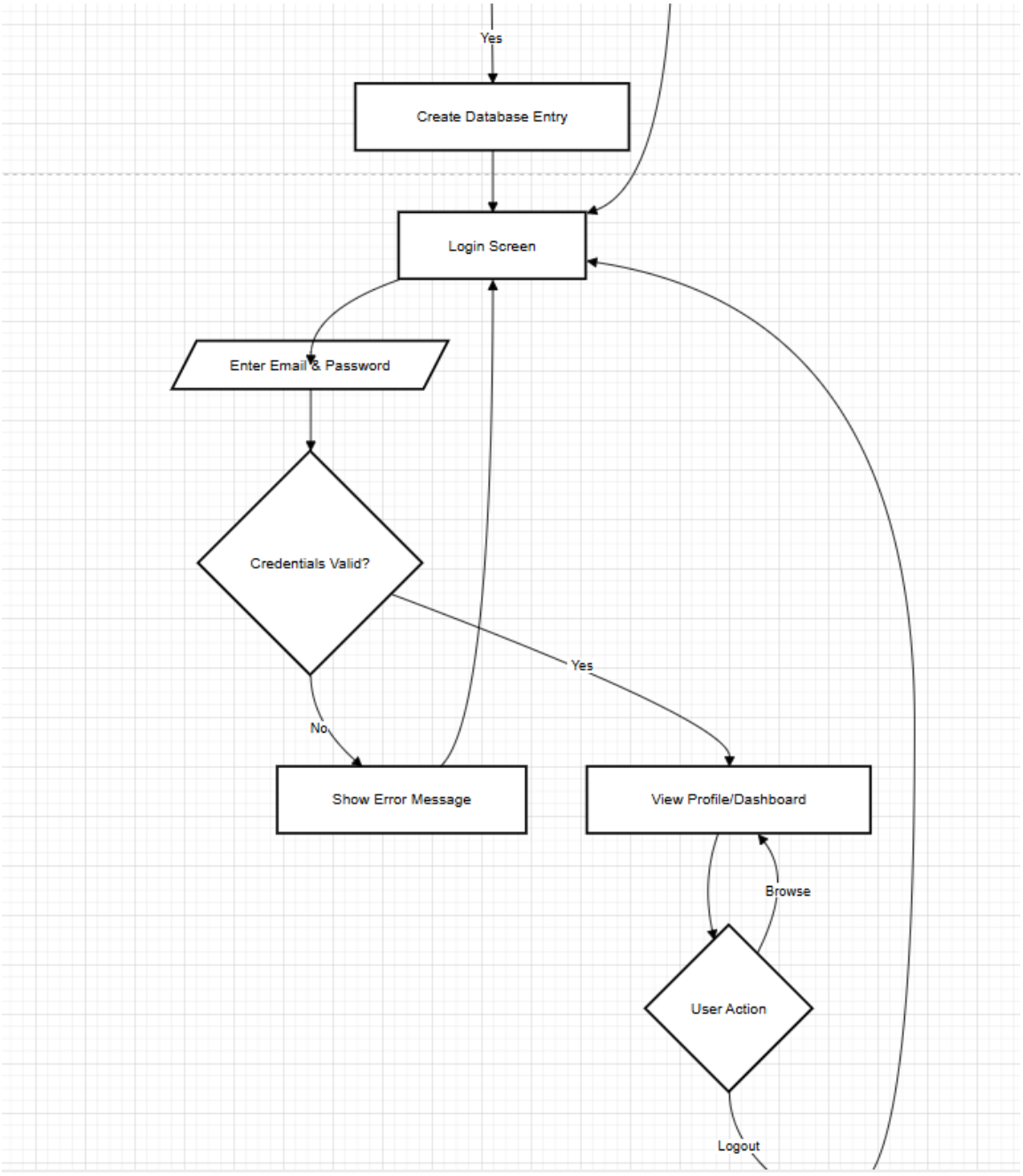
5.2. Use Case Diagram





5.3. Activity Diagram

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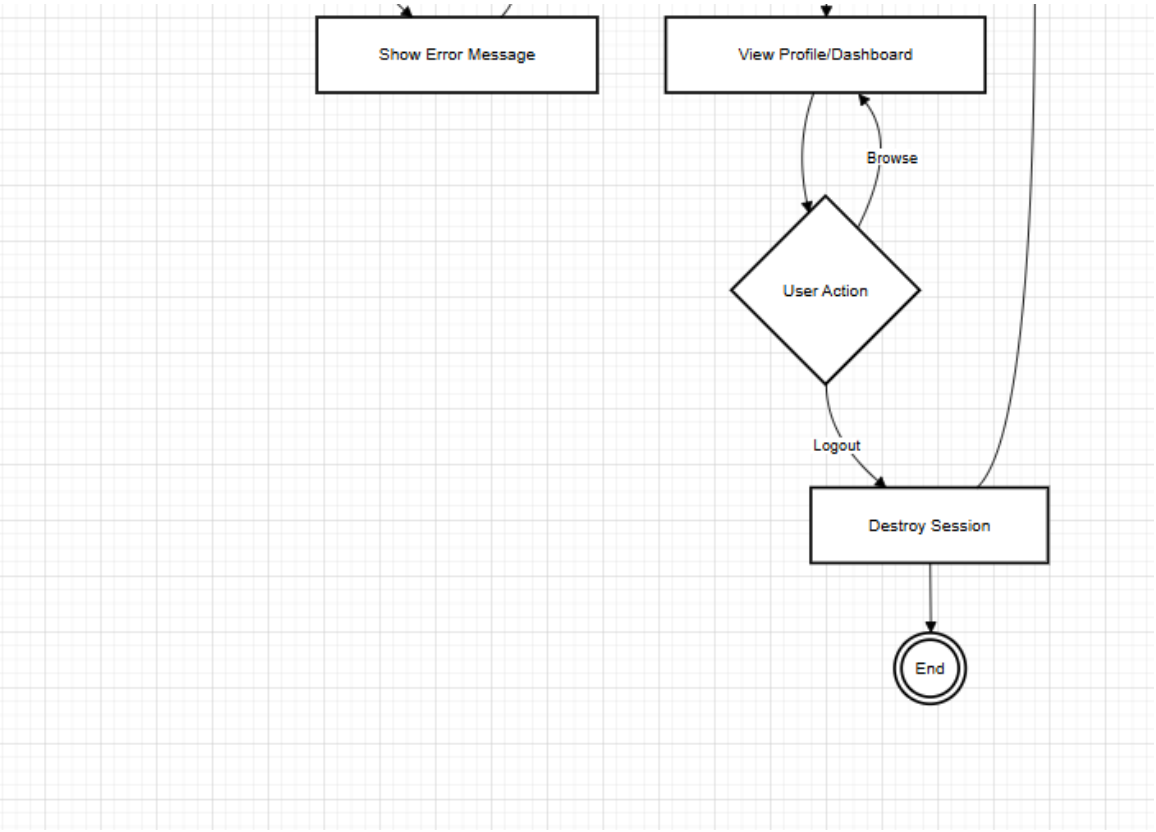
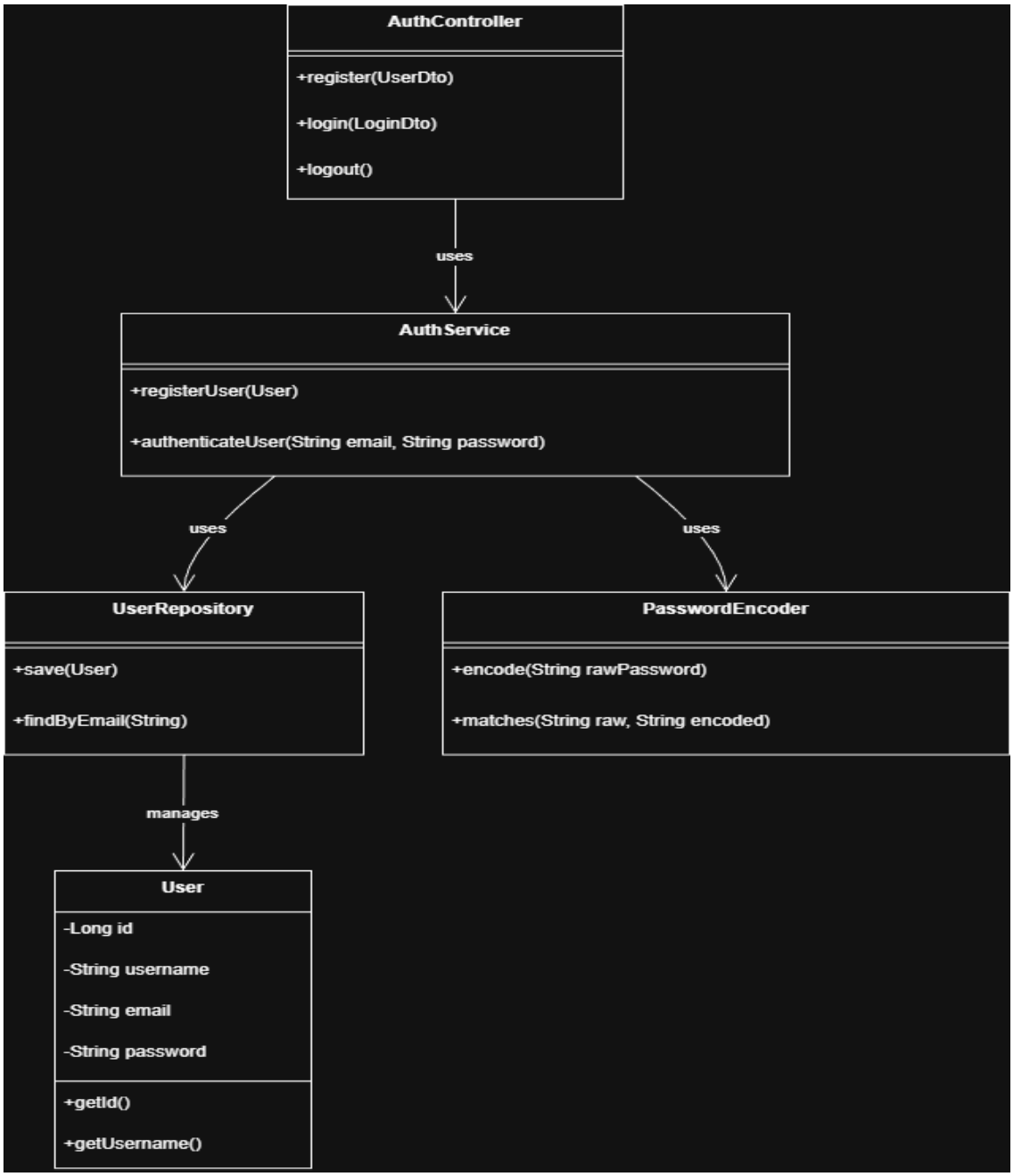
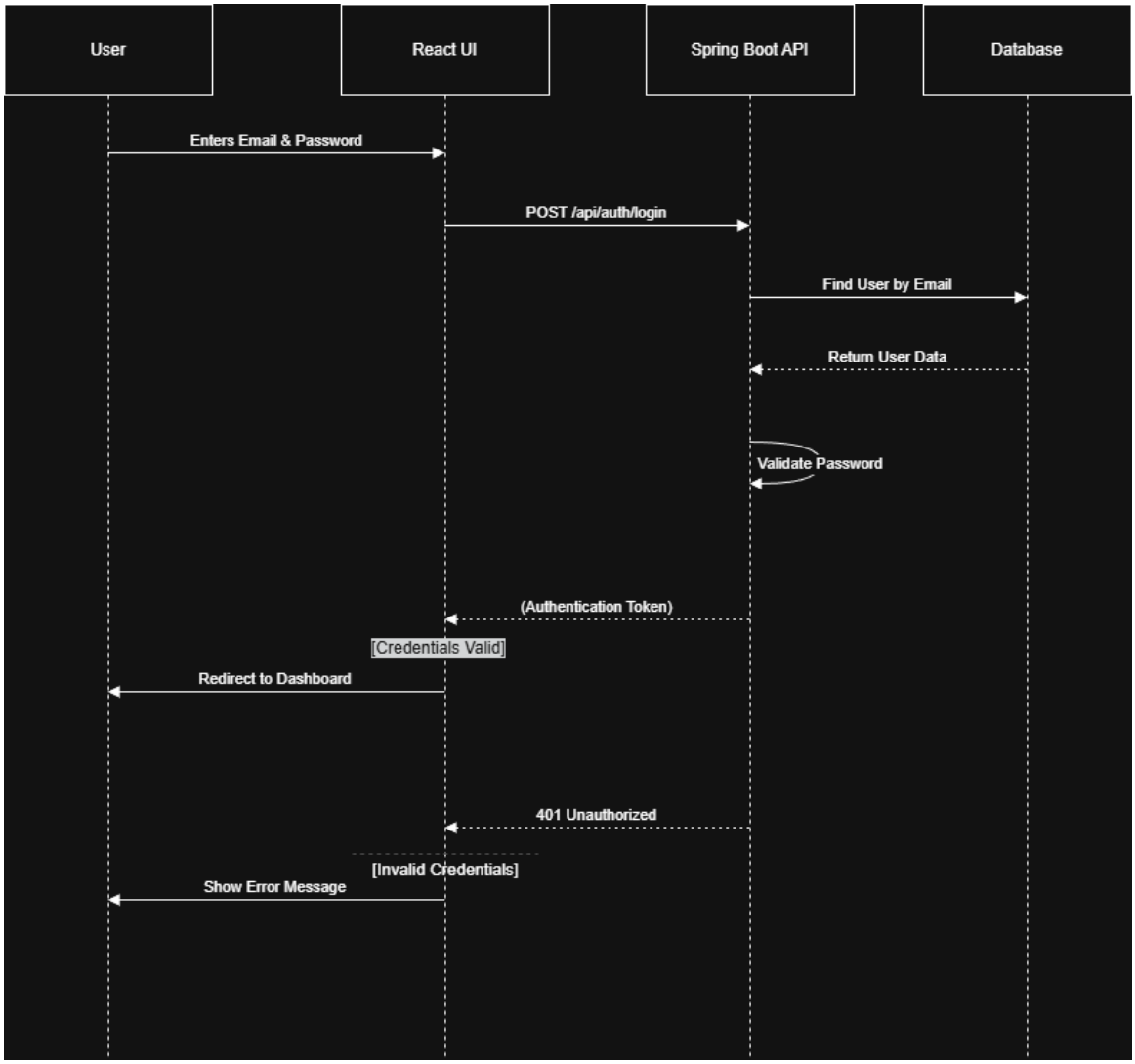
Create Database Entry
Login Screen
Enter Email & Password
Credentials Valid?
Yes
No
Show Error Message
View Profile/Dashboard
Browse
User Action
Logout



5.4. Class Diagram


AuthController
+register(UserDto)
+login(LoginDto)
+logout()
uses
AuthService
+registerUser(User)
+authenticateUser(String email, String password)
uses
uses
UserRepository
+save(User)
+findByEmail(String)
PasswordEncoder
+encode(String rawPassword)
+matches(String raw, String encoded)
manages
User
-Long id
-String username
-String email
-String password
+getId()
+getUsername()

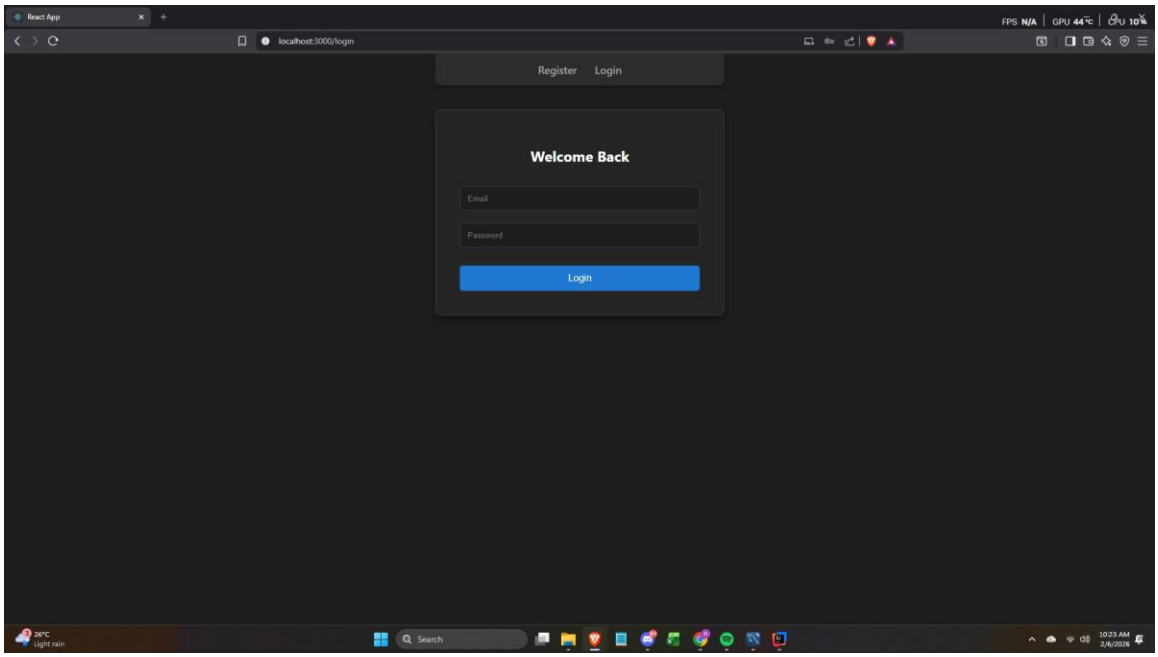
5.5. Sequence Diagram



6. Appendices

Include any additional information, references, or support materials.

LOGIN PAGE



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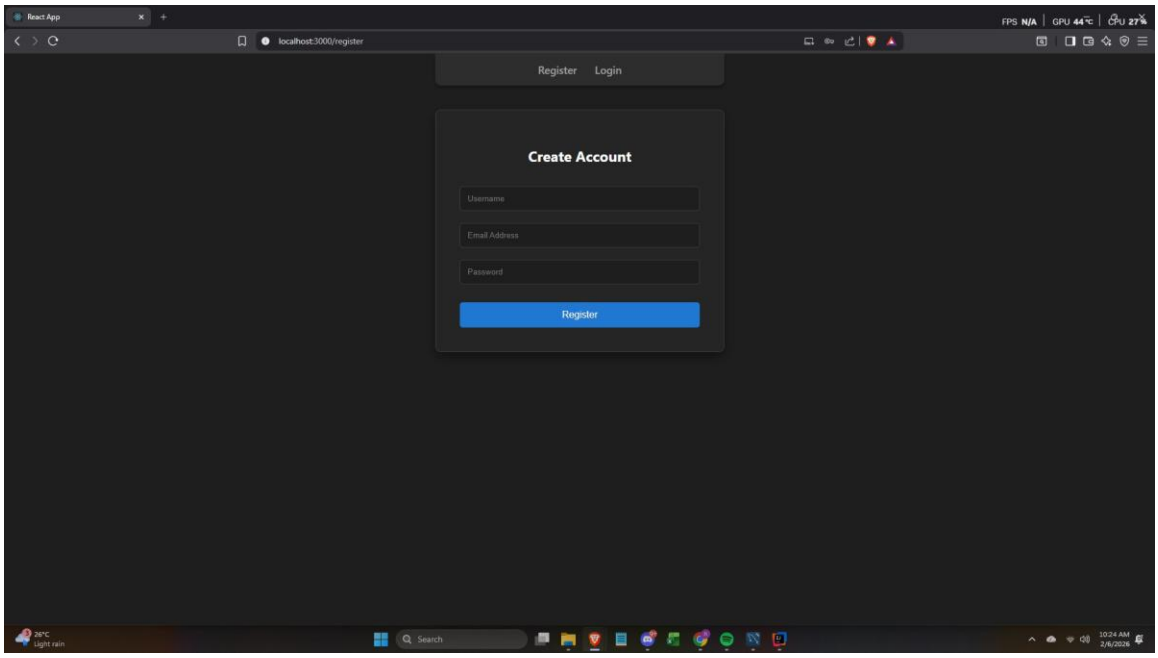

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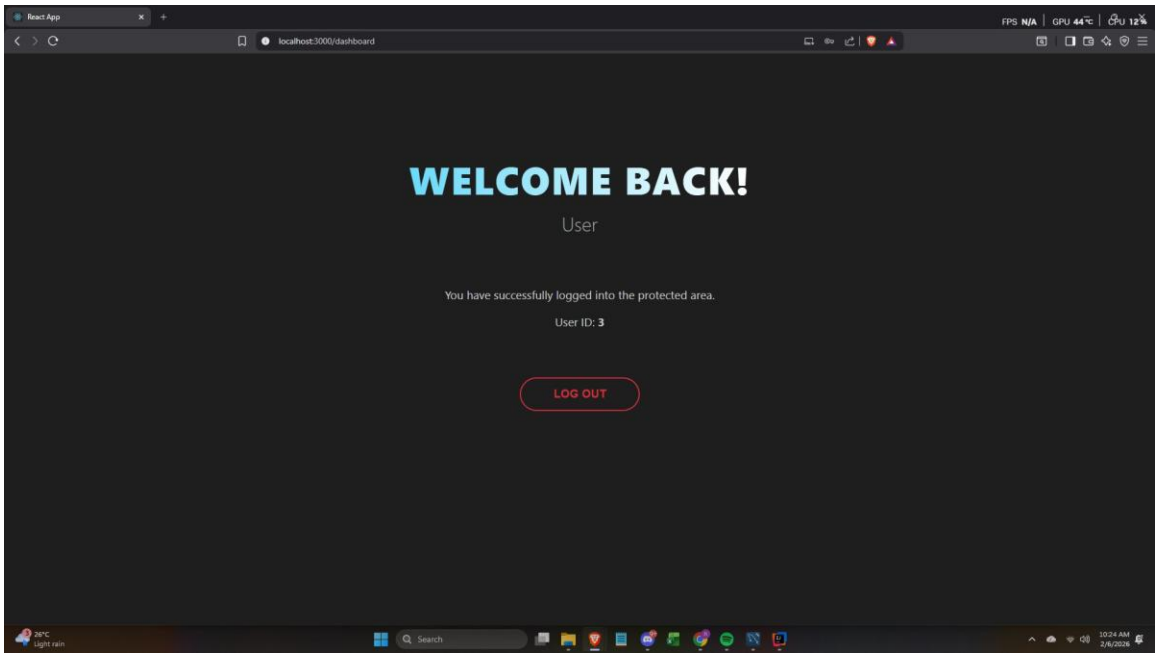

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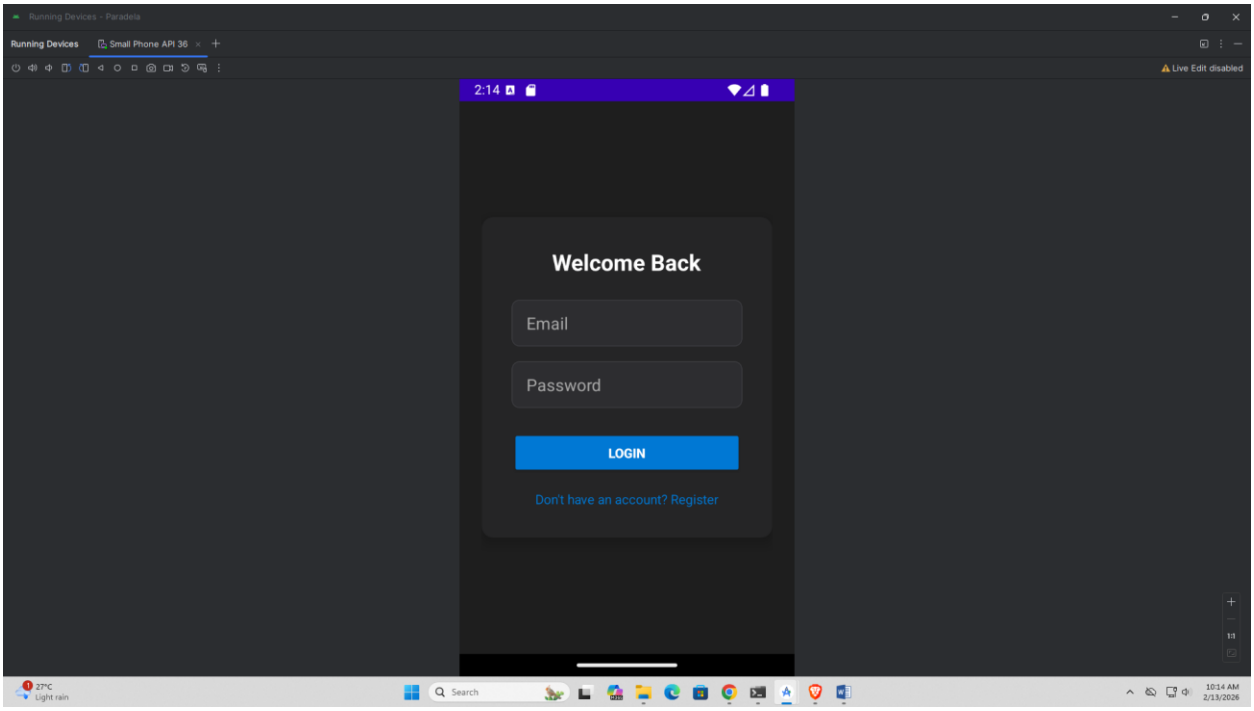

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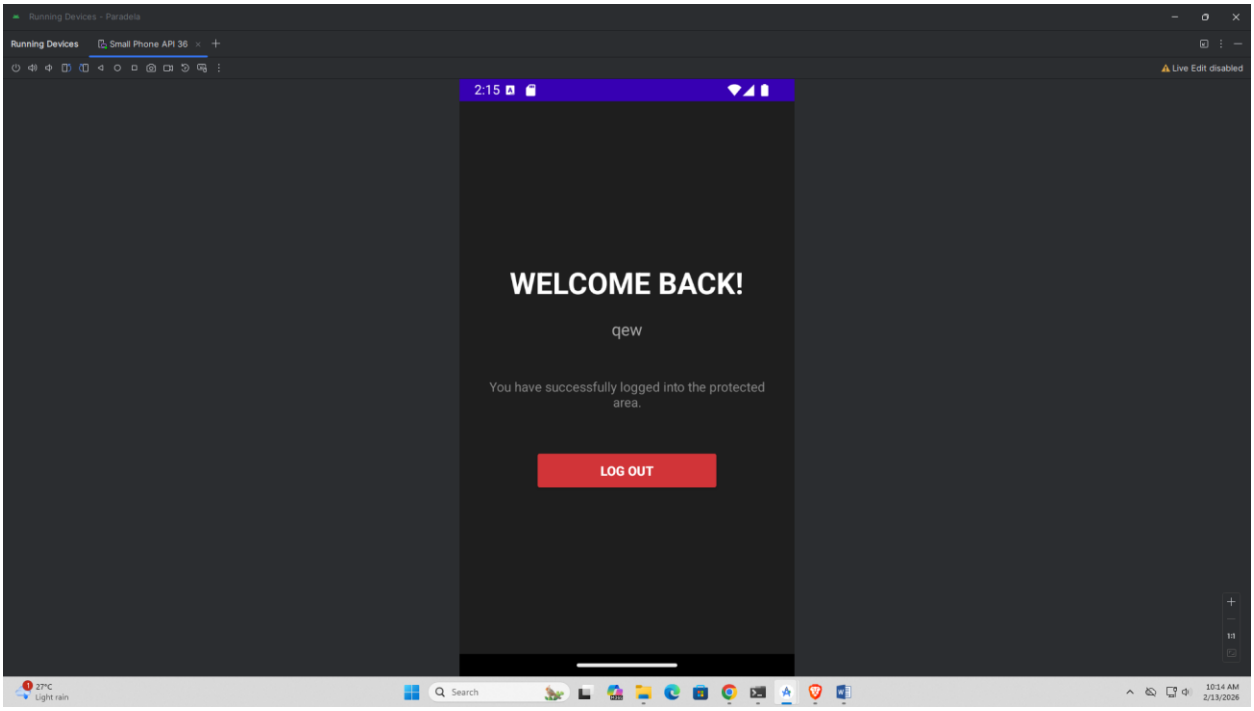

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