



**CEBU INSTITUTE OF TECHNOLOGY**  
**U N I V E R S I T Y**

# IT342-Section SYSTEMS INTEGRATION AND ARCHITECTURE 1

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## FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

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Project Title: RestoRadar

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## 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:

- 
- 
- 

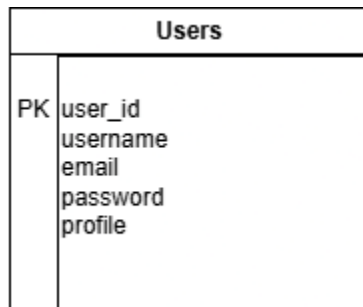
## 4. Non-Functional Requirements

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

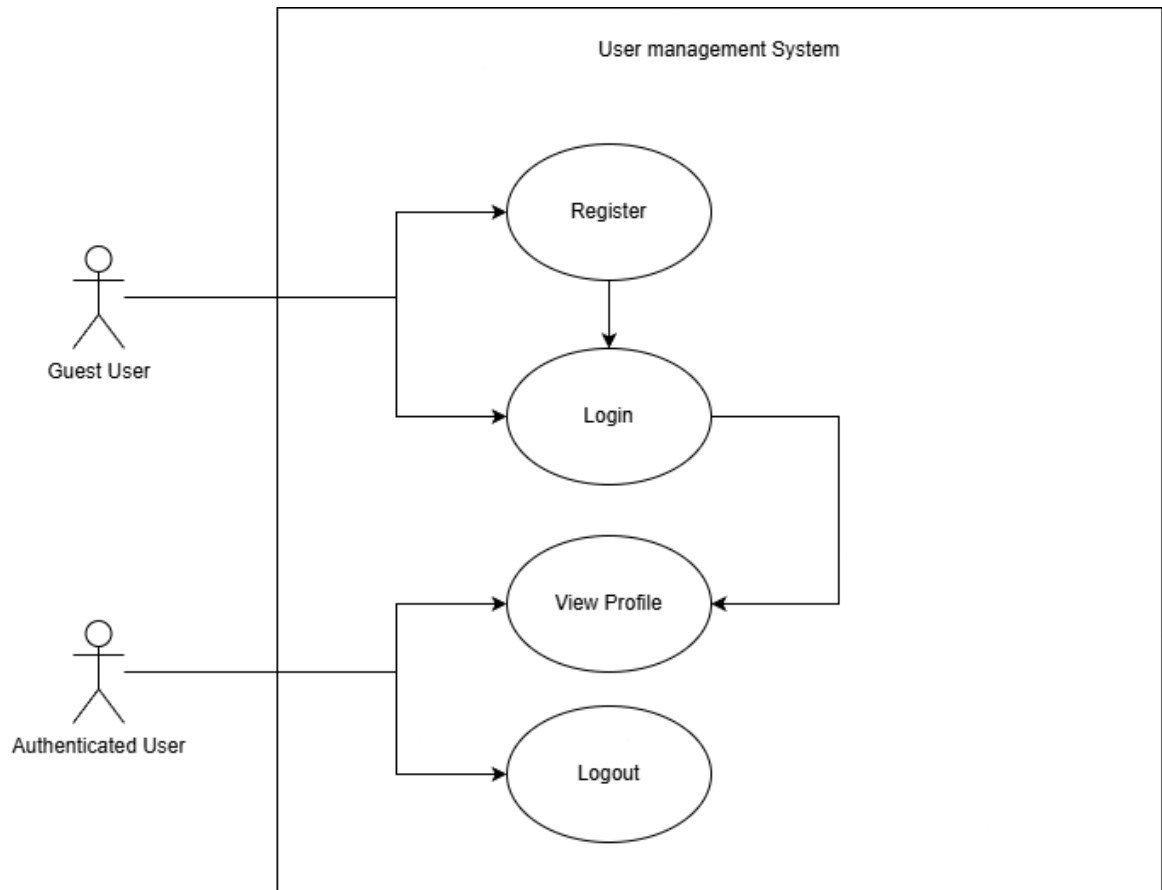
## 5. System Models (Diagrams)

*Insert the necessary diagrams for the system:*

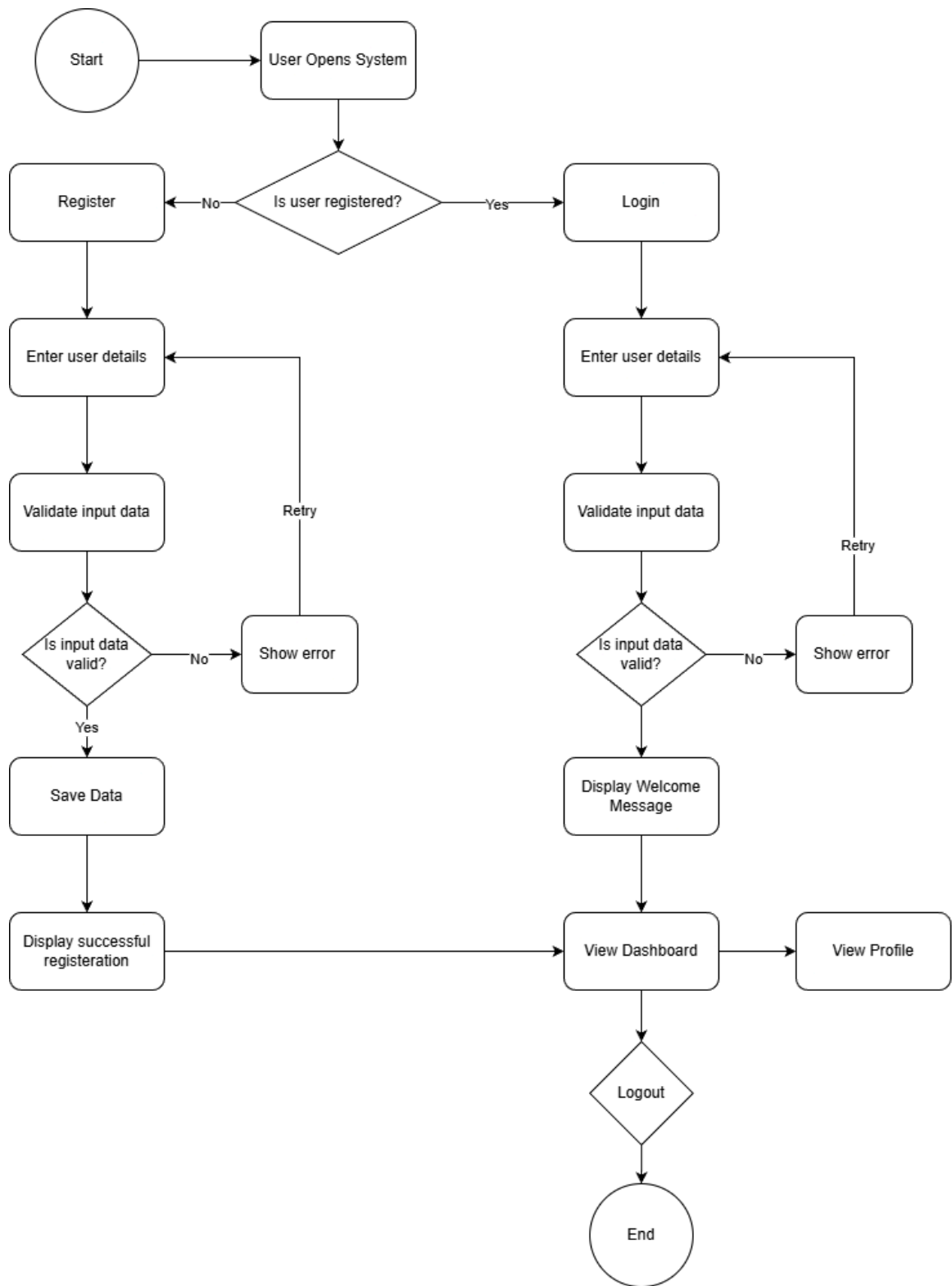
### 5.1. ERD



### 5.2. Use Case Diagram



### 5.3. Activity Diagram



#### 5.4. Class Diagram

User
- user_id : int - username : String - email : String - password : String
+ getId() + getUsername() + getEmail() + setPassword() + validatePW()

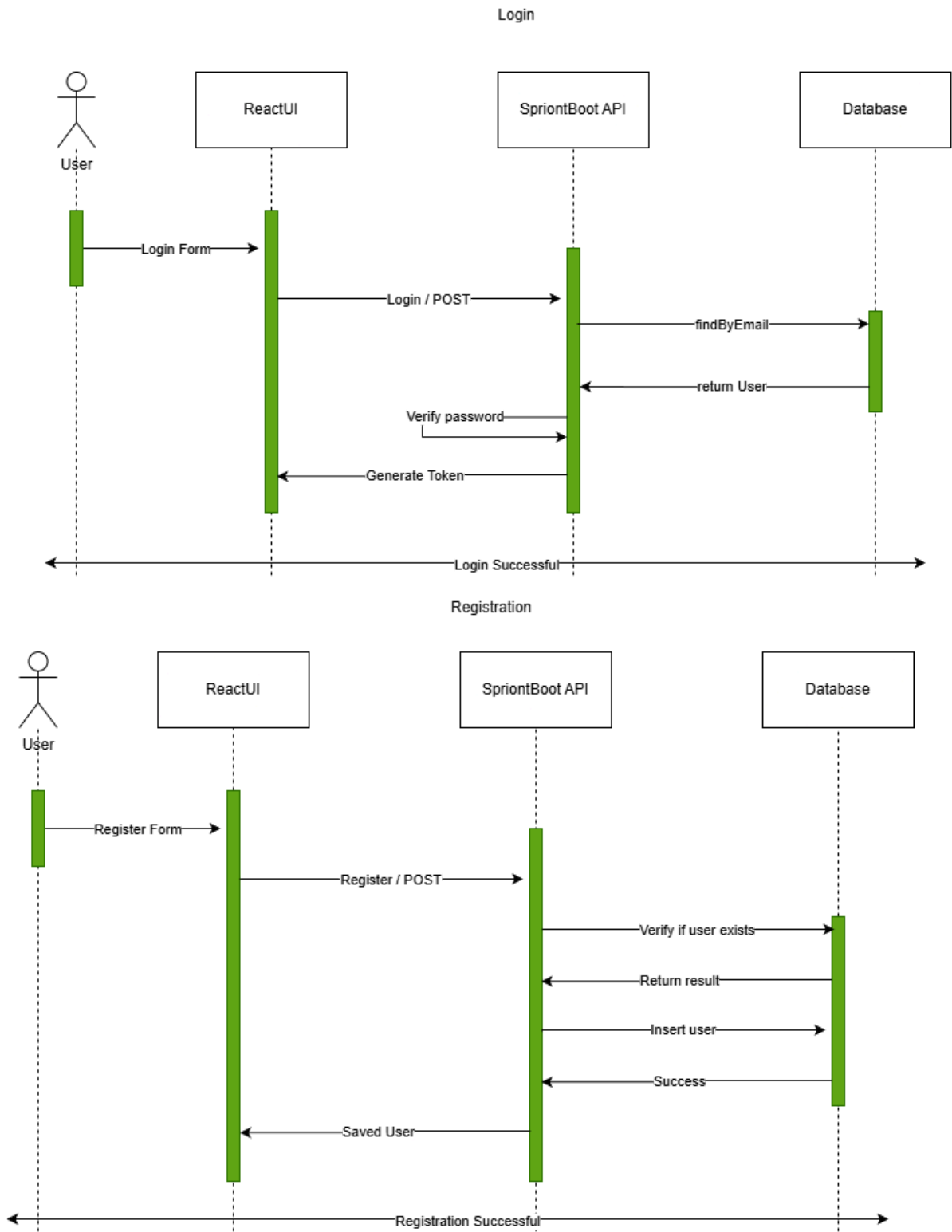
AuthController
+ authService: AuthService
+ register() + login() + logout()

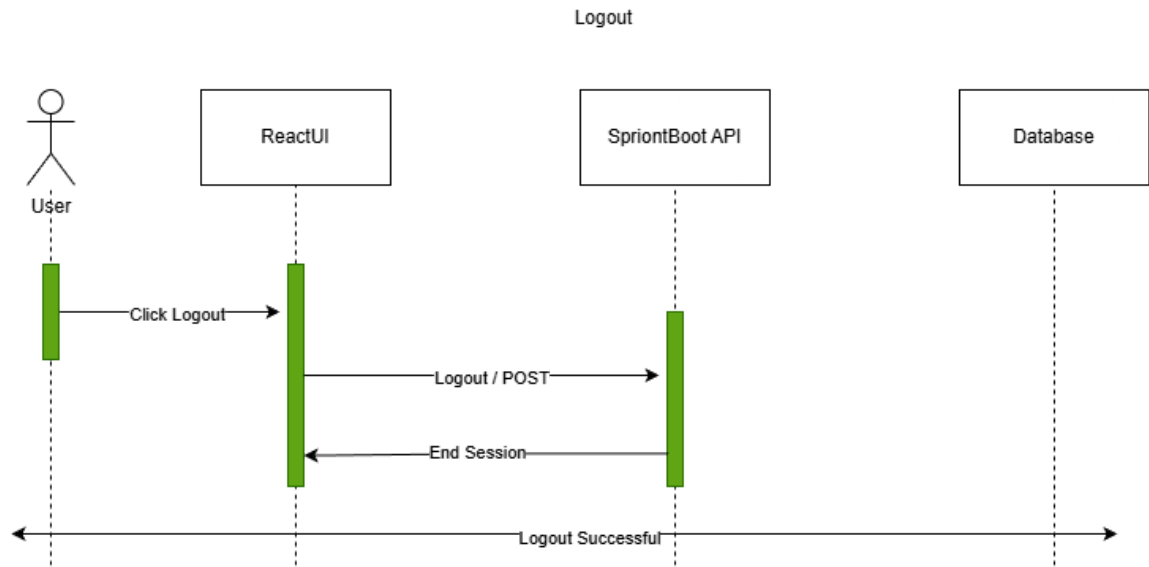
AuthService
+ register() + login() + logout() + validate()

PasswordEncoder
+ encode() + matches()

UserRepository
+ findByEmail() + save() + exists() + delete()

## 5.5. Sequence Diagram





## 6. Appendices

Include any additional information, references, or support materials.