



CEBU INSTITUTE OF TECHNOLOGY
UNIVERSITY

IT342-Section SYSTEMS INTEGRATION AND ARCHITECTURE 1

FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

Project Title:

Prepared By:

Date of Submission:

Version:

Table of Contents

1.	Introduction.....	3
1.1.	Purpose.....	3
1.2.	Scope.....	3
1.3.	Definitions, Acronyms, and Abbreviations.....	3
2.	Overall Description.....	3
2.1.	System Perspective.....	3
2.2.	User Classes and Characteristics.....	3
2.3.	Operating Environment.....	3
2.4.	Assumptions and Dependencies.....	3
3.	System Features and Functional Requirements.....	3
3.1.	Feature 1:.....	3
3.2.	Feature 2:.....	3
4.	Non-Functional Requirements.....	3
5.	System Models (Diagrams).....	4
5.1.	ERD.....	4
5.2.	Use Case Diagram.....	4
5.3.	Activity Diagram.....	4
5.4.	Class Diagram.....	4
5.5.	Sequence Diagram.....	4
6.	Appendices.....	4

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

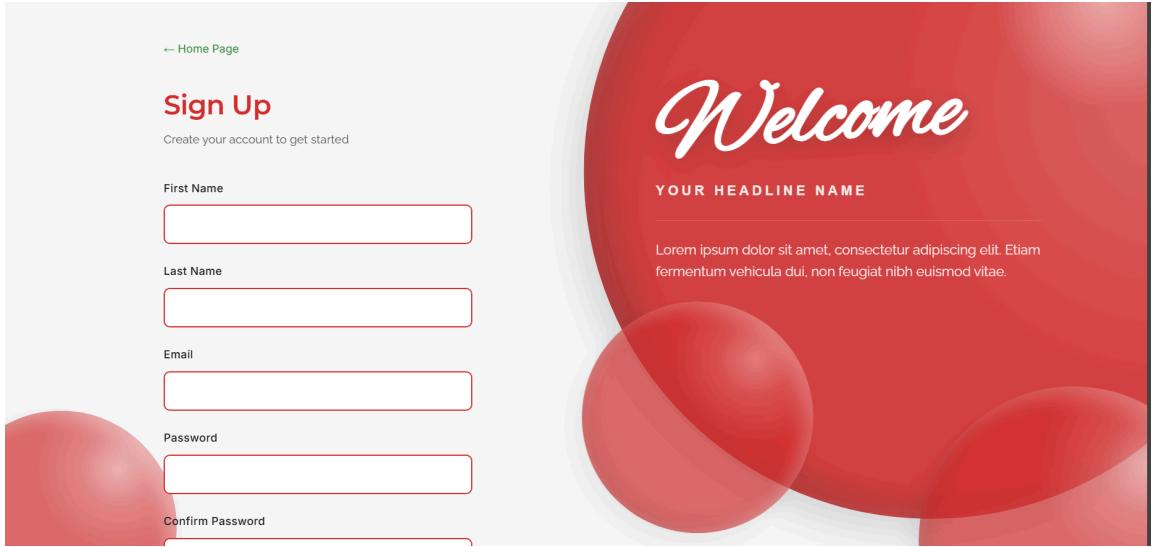
Describe each major feature of the system and its functional requirements.

3.1. Feature 1: Register Page

Description: Allows new users to securely create an account in the system.

Functional Requirements:

- Users can enter required information: name, email, and password.
- The system validates input fields (no empty fields, valid email format).
- Passwords are encrypted before being stored in the database.
- Users receive confirmation of successful registration.
- Display legal notice: *"By continuing, you agree to the Terms of Sale, Terms of Service, and Privacy Policy."*

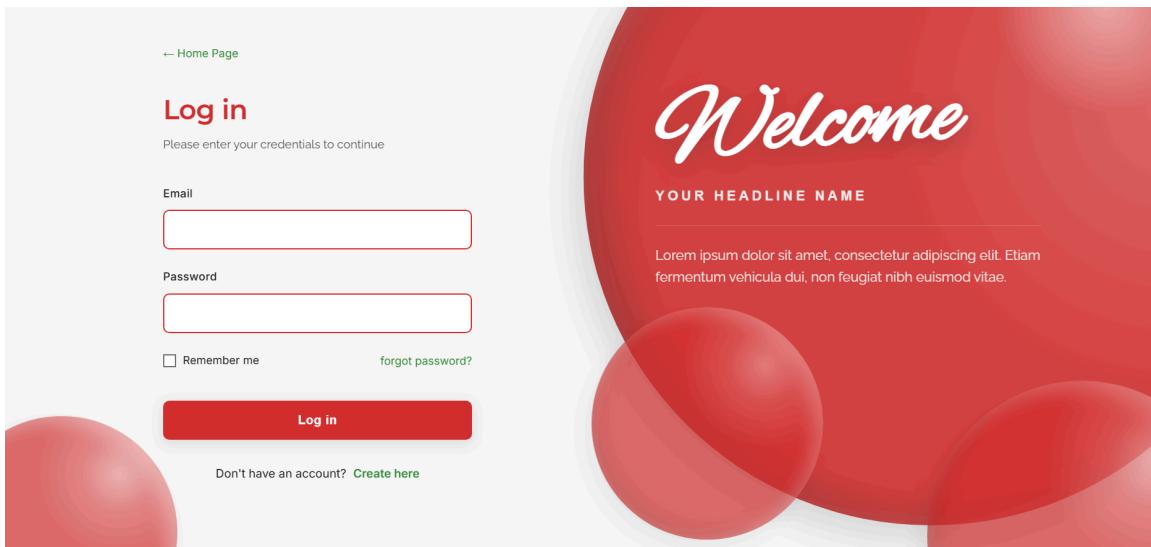


3.2. Feature 2: Login Page

Description: Enables registered users to access the system securely

Functional Requirements:

- Users can log in using email and password.
- The system validates credentials and shows error messages for invalid login attempts.
- Support “Remember Me” for persistent login sessions.
- Users can reset their password via “Forgot Password.”
- Optional: Login via Google or Apple accounts (OAuth).

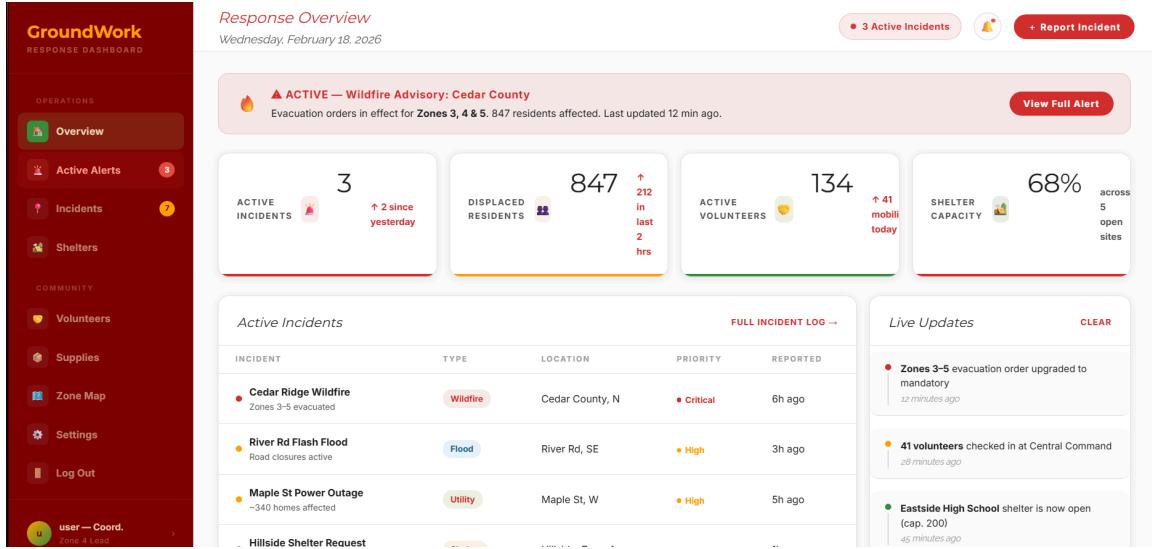


3.3. Feature 3: Dashboard/Profile Page (Protected)

Description: Displays personalized user information and allows profile management.

Functional Requirements:

- Only authenticated users can access dashboard and profile pages.
- Users can view profile details such as name and email.
- Users can update their profile with proper validation.
- All updates are securely stored in the backend.
- Unauthorized users are redirected to the login page.



3.4. Feature 4: Logout Functionality

Description: Allows users to safely end their session.

Functional Requirements:

- Users can log out via a logout button.
- Logging out clears all session data and authentication tokens.
- Users are redirected to the login or landing page after logout.
- Ensure web and mobile sessions are properly terminated.

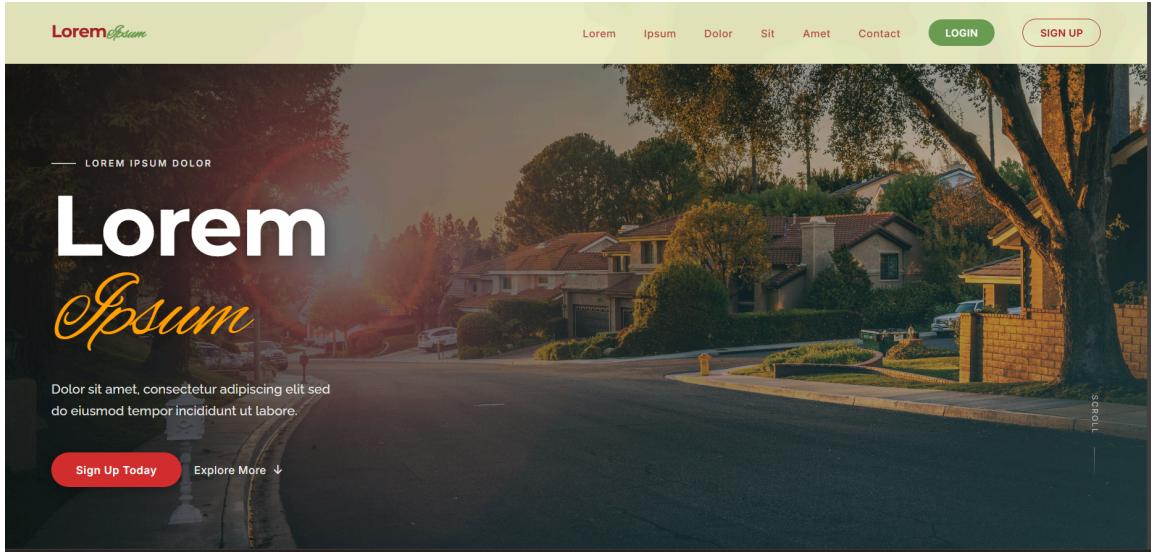


3.5. Feature 5: Landing Page

Description: Provides an entry point to the application, showcasing key information and navigation options for users.

Functional Requirements:

- Displays a welcoming interface with branding and key highlights.
- Provides navigation links to Sign Up and Login pages.
- Should be responsive for both web and mobile screens.
- Optional: Include hero images, animations, or call-to-action buttons.



4. Non-Functional Requirements

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

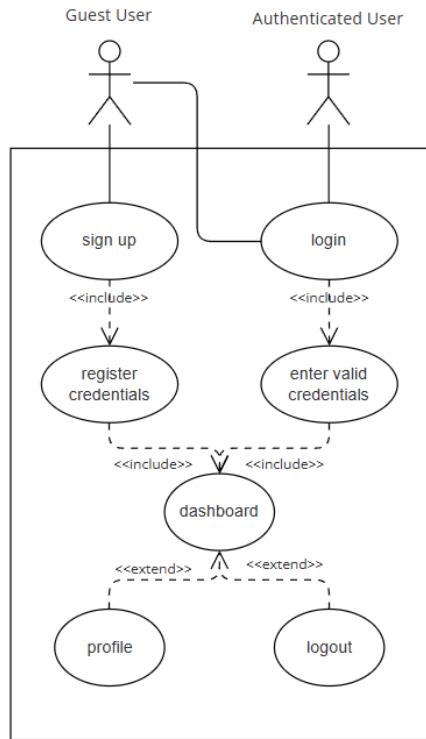
5. System Models (Diagrams)

Insert the necessary diagrams for the system:

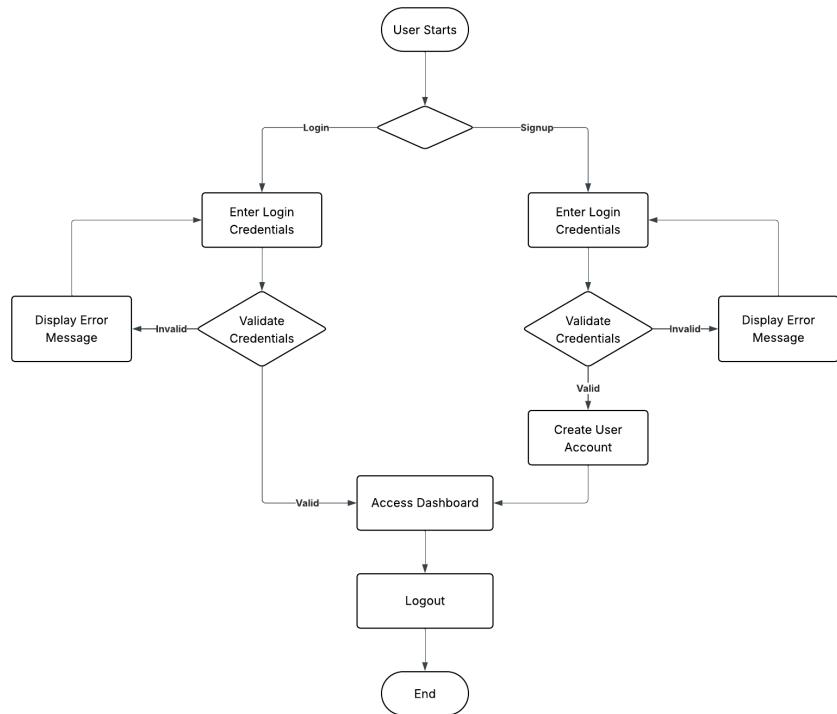
5.1. ERD

USER	
PK	id
string	email
string	username
string	password_hash
string	status
datetime	email_verified_at
datetime	last_login_at
datetime	created_at
datetime	updated_at

5.2. Use Case Diagram



5.3. Activity Diagram



5.4. Class Diagram

Insert ERD here

5.5. Sequence Diagram

Insert ERD here

6. Appendices

Include any additional information, references, or support materials.