CEBU INSTITUTE OF TECHNOLOGY
UNIVERSITY

IT342-G3
SYSTEMS INTEGRATION AND ARCHITECTURE 1

FUNCTIONAL REQUIREMENTS SPECIFICATION (FRS)

Project Title: Standup-Sync Lite

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1. Introduction

1.1. Purpose

The purpose of Standup-Sync Lite is to provide a dedicated environment for developers to manage their daily workflow while automating the creation of professional status updates. The system is designed to reduce manual effort in preparing updates by transforming task activity from the system's dashboard into structured standup summaries.

1.2. Scope

Standup-Sync Lite is a task-management and reporting tool.

- In-scope: User accounts, a task management board with status tracking (To-Do, In-Progress, Done), a "Blocker" flagging system, and a generate feature that produces "Yesterday/Today/Blockers" reports based on user activity by date.
- Boundaries: The system is a standalone productivity aid; it does not feature real-time chat or direct integration with third-party code repositories.

1.3. Definitions, Acronyms, and Abbreviations

- Standup: A daily meeting covering what a persons did Today/Yesterday and if they are experiencing any blockers.
- Blocker: A specific tag applied to a task indicating it cannot be progressed due to an external dependency.
- Task Board: The central dashboard / interface where tasks are added and organized by their current status.

2. Overall Description

2.1. System Perspective

Standup-Sync Lite serves as a centralized hub that captures a developer's daily output. It acts as a bridge that translates technical task management into summarized and structured report that is ready for meetings.

2.2. User Classes and Characteristics

- Developers: Primary Users who need to organize their daily task and report progress.
- Freelancers: Users who need simple and efficient reporting of daily work to clients

2.3. Operating Environment

Hardware Requirements:

- Phone, Desktop or Laptop
- Minimum 4GB RAM

Software Requirements:

- Web Browsers
- Database

Development Tools

- IDE

2.4. Assumptions and Dependencies

This system assumes that the users will update their task statuses daily to ensure report accuracy. This system depends on browser compatibility and database availability.

3. System Features and Functional Requirements

3.1. Feature 1: User Management

Description: Allows users to register and login to securely access the system.

- The system shall allow new users to register with username, email and password.
- The system shall authenticate users during login.
- The system shall allow users to log out securely
- The system shall prevent unauthorized access to the dashboard.

3.2. Feature 2: Task Board (Categorized by Status)

Description: Provides a centralized dashboard where users create and manage the status of their tasks

Functional Requirements:

- The system shall allow users to create tasks with a title and description
- The system shall categorize tasks into three states: “To-Do”, “In Progress”, “Done”
- The system shall allow users to move tasks between these categories as work progresses.

3.3. Feature 3: Blocker Tracking

Description: A feature to identify and document blockers.

Functional Requirements:

- The system shall allow users to flag any task as "Blocked."
- When a task is flagged as blocked, the system shall prompt the user to enter a "Reason for Blocker."
- The system shall visually distinguish blocked tasks on the dashboard.

3.4. Feature 4: Standup Report Generator

Description: A feature that generates a summarized stand-up report based on the date of tasks.

Functional Requirements:

- The system shall pull all "Done" tasks into a "Yesterday" section and all "In-Progress/Blocked" tasks into "Today/Blockers."
- The system shall generate a text-based preview of the report for user review.
- Upon Generation, the system shall provide a copy to clipboard function for external sharing.

4. Non-Functional Requirements

- User task data must be saved automatically to prevent data loss.
- Access to the dashboard must be restricted to authenticated users only.
- The report generation feature should compile the summary in under 10 seconds.

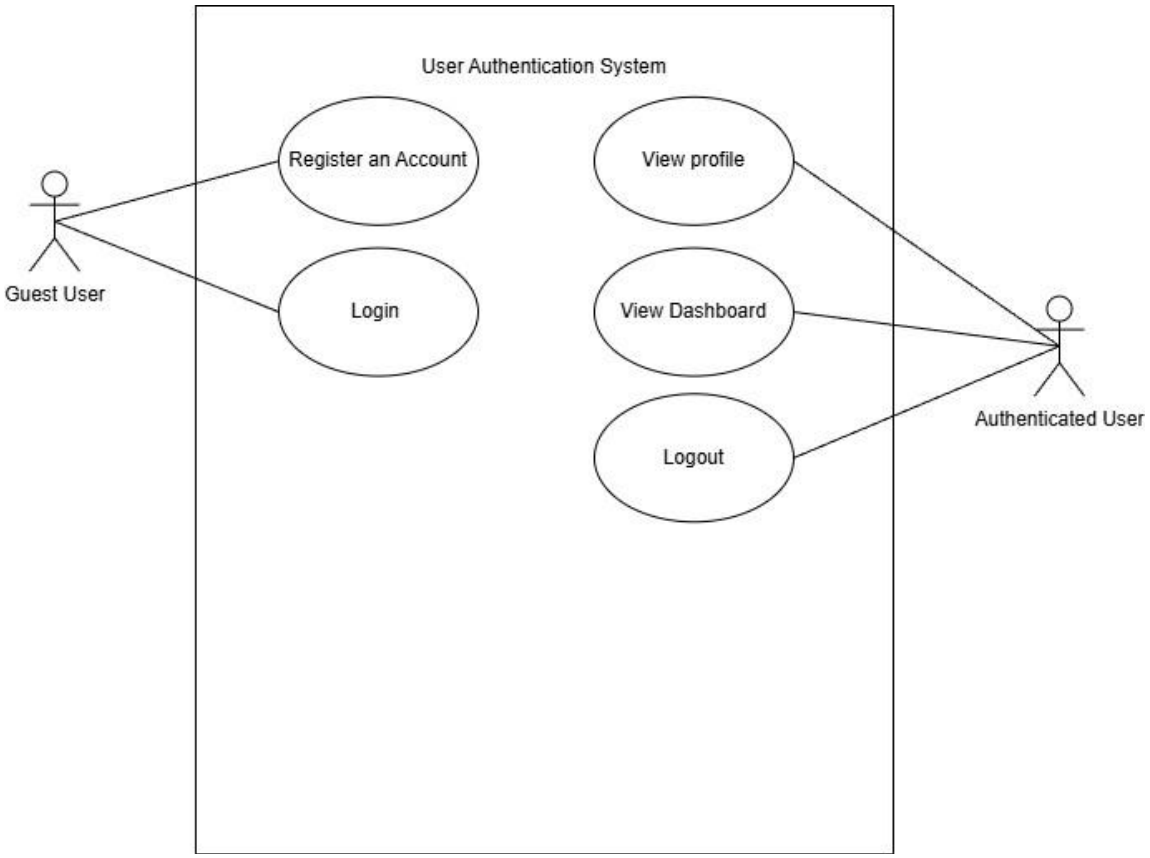
5. System Models (Diagrams)

Insert the necessary diagrams for the system:

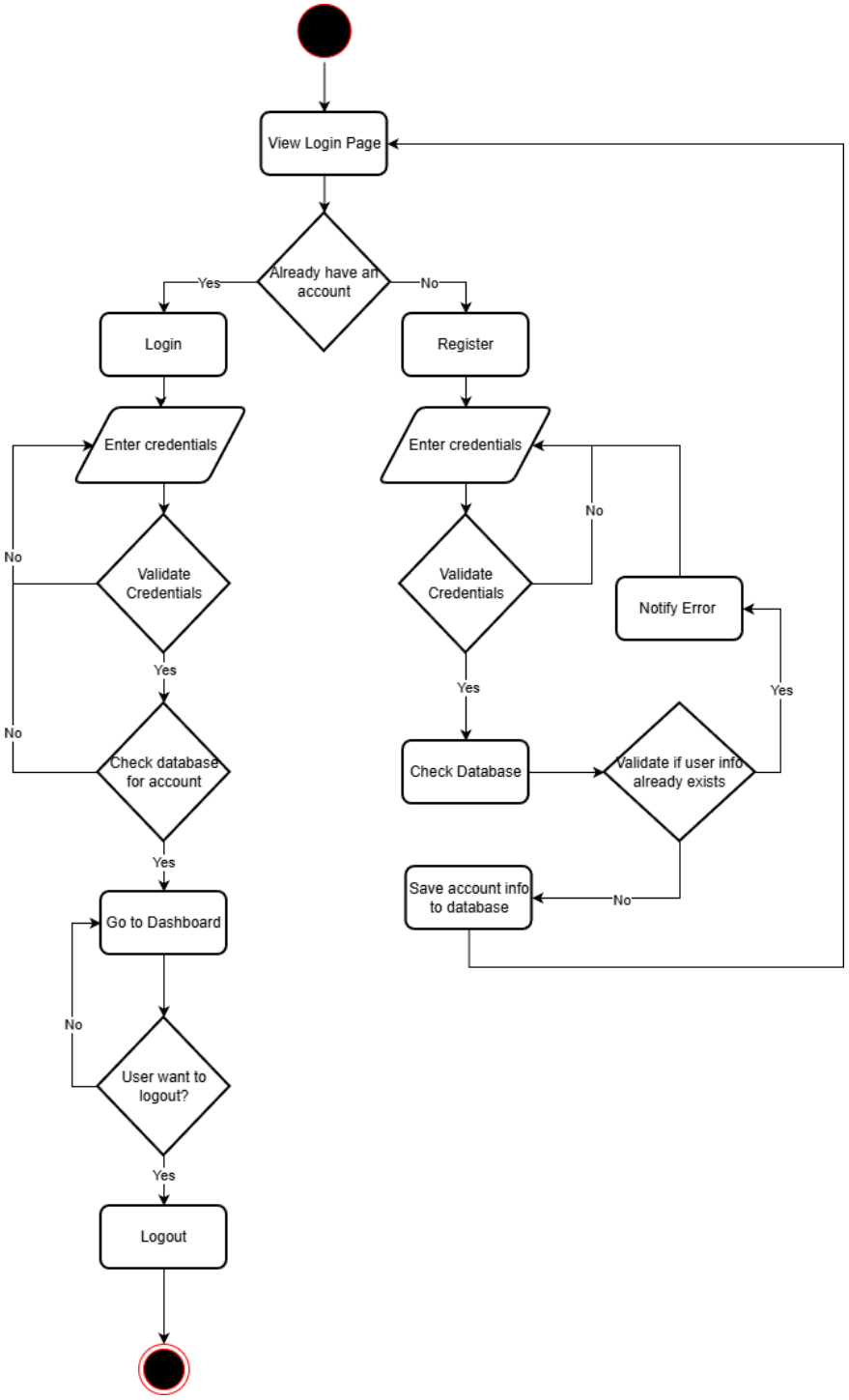
5.1. ERD

Users	
PK	<u>userID</u>
	userName : string
	password : string
	userType : boolean
	email : string

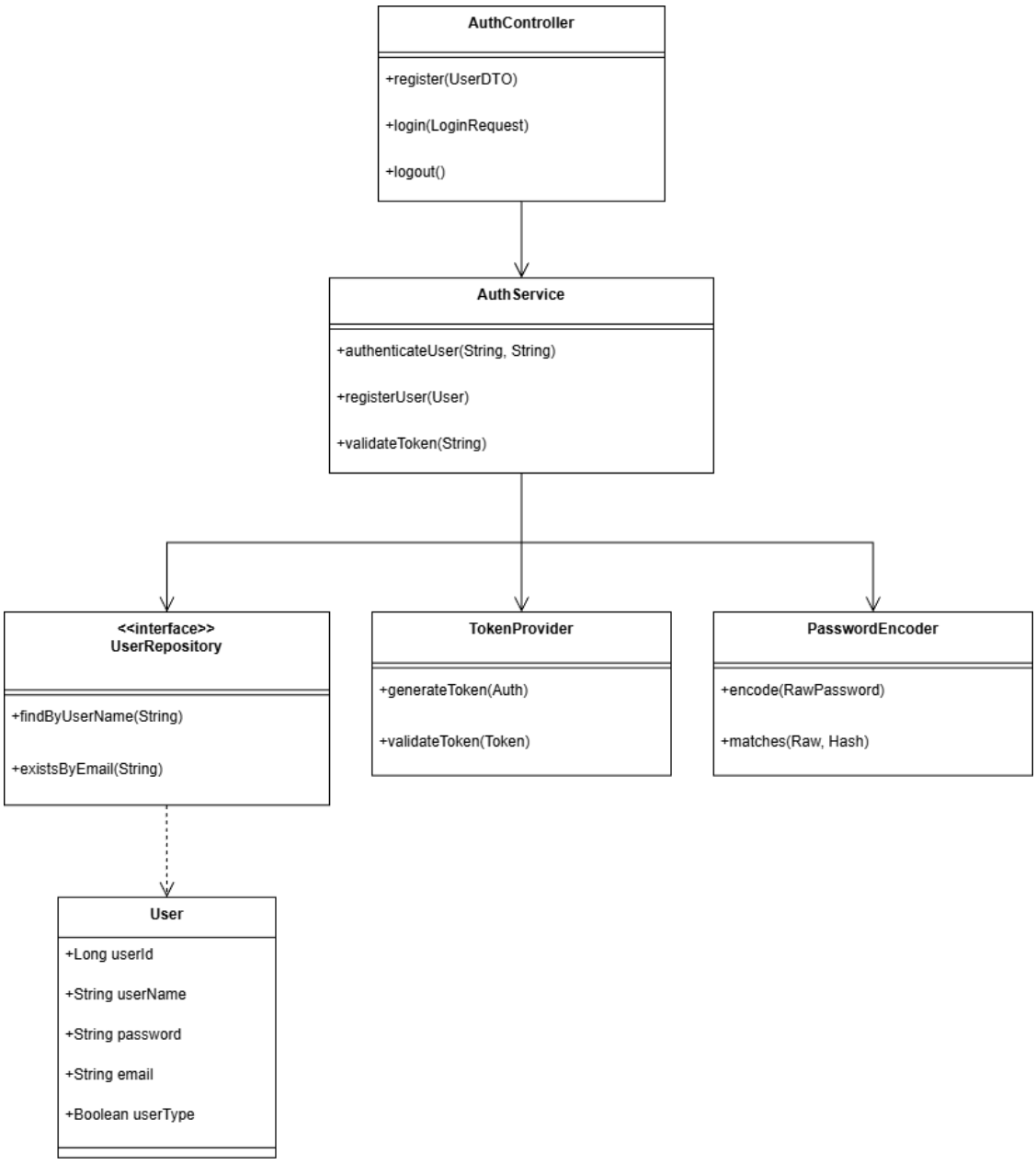
5.2. Use Case Diagram



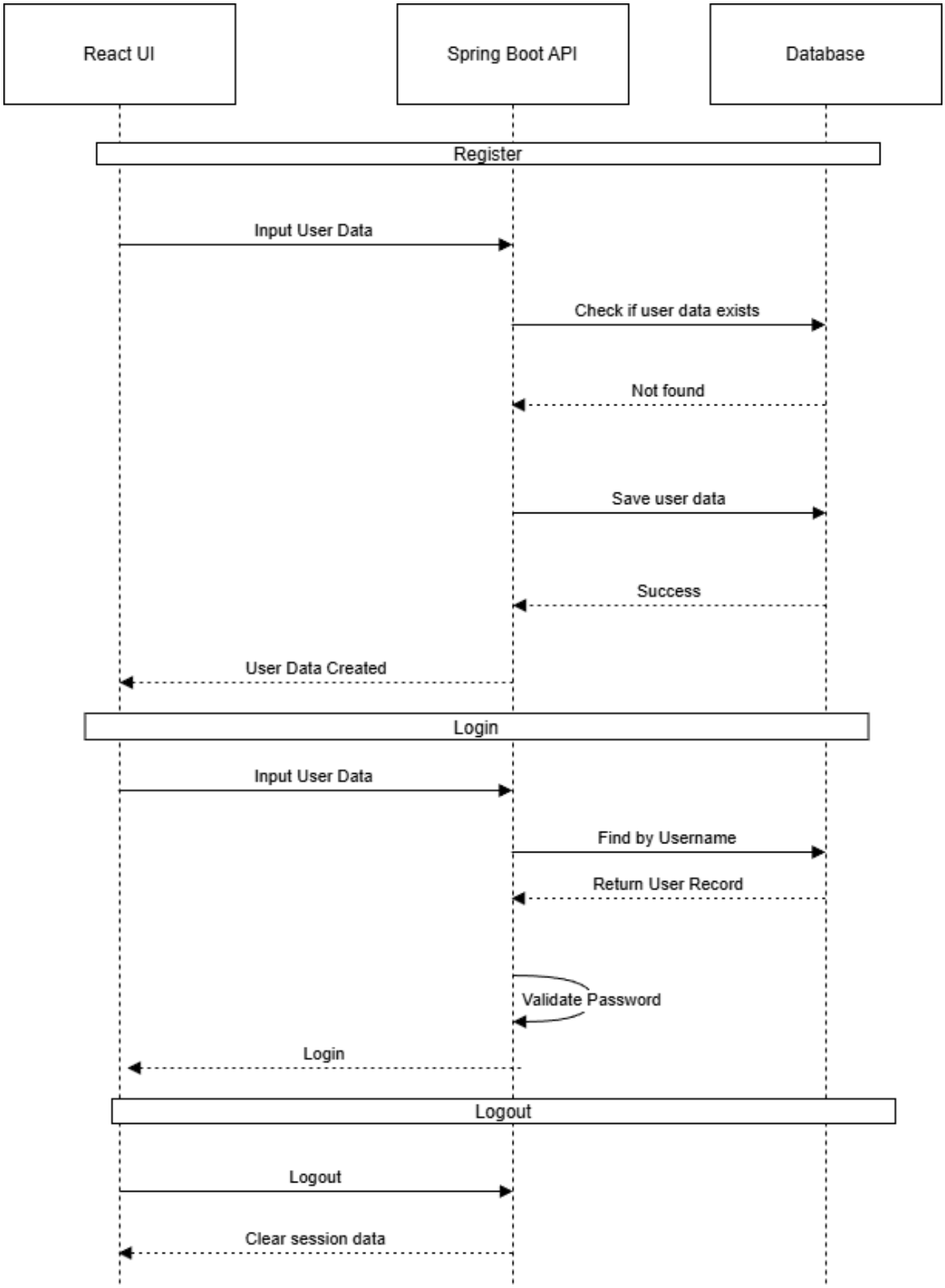
5.3. Activity Diagram



5.4. Class Diagram



5.5. Sequence Diagram

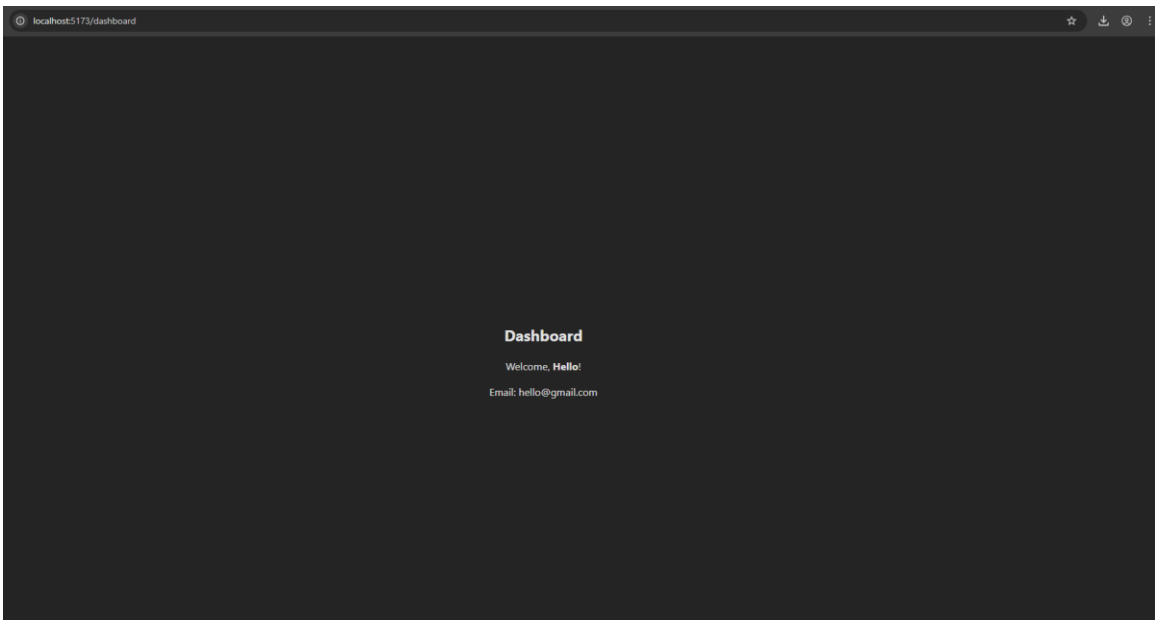


6. Appendices

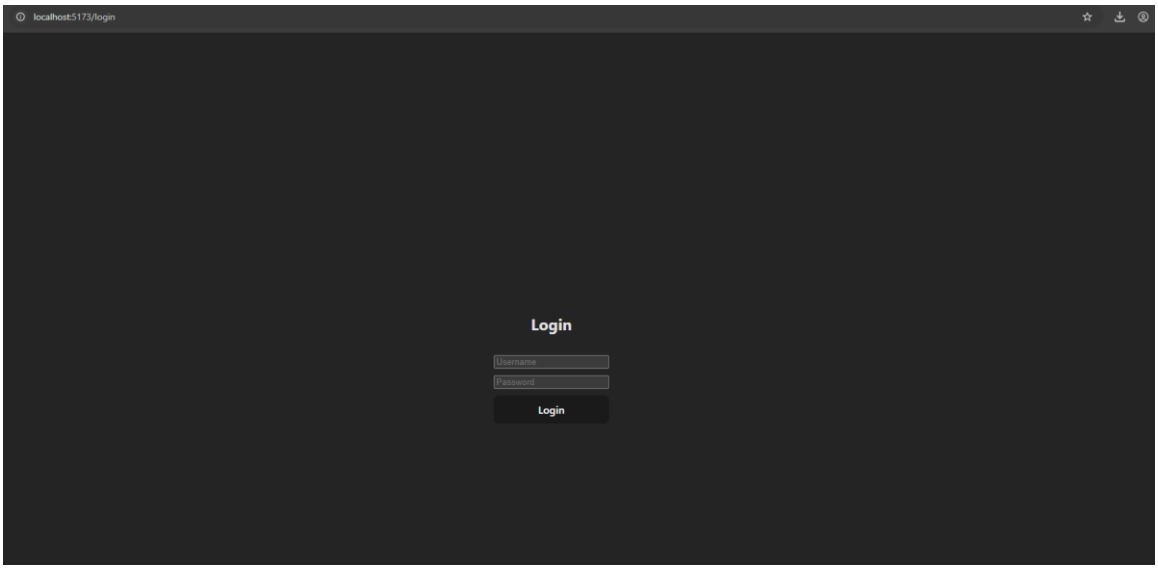
Include any additional information, references, or support materials.

SCREENSHOTS:

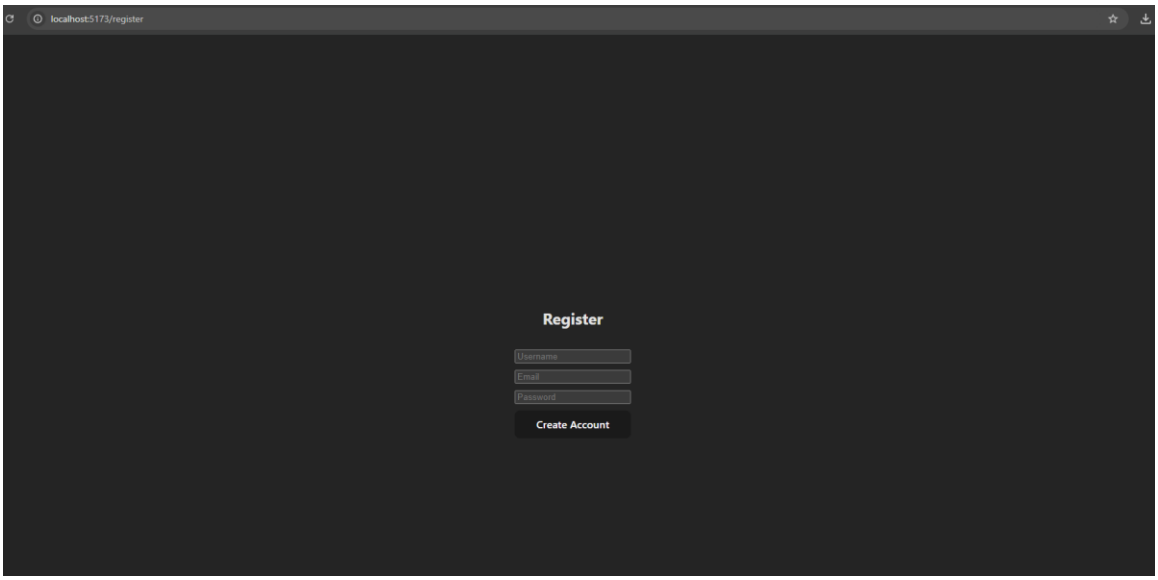
DASHBOARD



LOGIN



REGISTER


localhost:5173/register
Register
Username
Email
Password
Create Account