SYSTEM REQUIREMENTS DOCUMENT (SRD)

1. Introduction

This document outlines the requirements for the Student project and dissertation System designed to automate manual performed activities for project and dissertation.

1.1 System Overview

The system will enable administrator, supervisors, and students to list, search, and manage project and dissertation activities efficiently. It will include features for secure progress, announcements, and detailed dissertation data management.

1.2 Intended Audience

i. Administrator
ii. Supervisor
iii. Students

1.3 Context Diagram

i. Users: Student, Supervisor

2. System requirements

System requirements involve tools and data needed for developing a system. These requirements consists of hardware and software requirements.

2.1 Hardware requirements

These refer to the physical components or devices that are necessary for the system to function properly. These requirements outline the minimum specifications and capabilities of hardware components to support the system operation and meets its performance needs.

Personal computer: Used to searching information online, collecting and storing data, designing the application using the UML diagrams and implementing the web application using visual studio code.

2.2 Software requirements

S/N	Software	Details
1.	Visual studio code	Light code editor used for debugging and building web and mobile application
2.	XAMPP server	This is the development server software that simplifies the setup and configuration of a local web server environment. It is used to allow interaction of the application with the database (MySQL).
3.	Star UML, draw.io and Figma	This are software used for system analysis and design

3. User requirements

These are the requirements which describes what the computer system should be capable to do and describe the environmental need which the proposed software is to satisfy. It include two types which are functional and non-functional requirements.

3.1 Functional Requirements

These are those requirements that define what the system must do, its features and its functions. Functional requirement of this system include:

i. The system shall allow user to register and login
ii. The system shall allow administrator to manage both supervisor and student
iii. The system shall allow administrator to post project related updates
iv. The system shall allow both student and supervisor to view all the project related updates posted by the administrator

v. The system shall allow student registering of title
vi. The system shall allow administrator to assign supervisor
vii. The system shall student to view the assigned supervisor
viii. The system shall allow supervisor to view the assigned student
ix. The system shall allow student to upload documents such as reports, SRS
x. The system shall allow student to book for consultation with supervisor
xi. The system shall allow supervisor to cross-check and accept consultation
xii. The system shall allow supervisor to provide feedback on uploaded document by student
xiii. The system shall allow student to view feedback provided by supervisor

3.2 Non-Functional Requirements

These are the requirements which specify criteria that can be used to judge the operation of the system rather than specific behaviors. Non-functional requirements include the following:

i. Performance: The system should be responsive and scalable to handle a large number of users and listing.
ii. Security: Implementation of the secure authentication and essential data encryption
iii. Reliability: The system should be available and reliable, minimizing downtime and ensure data integrity.
iv. Usability: The user interface should be intuitive and easy to navigate for both student, supervisor and administrator
v. Compatibility: The system should be compatible with different device and browsers

4. Interface Requirements

4.1 User Interface (UI)

i. Designed using MUI (Material-UI) for a modern and responsive layout.
ii. Accessible design with clear fonts, icons, and navigation structure.

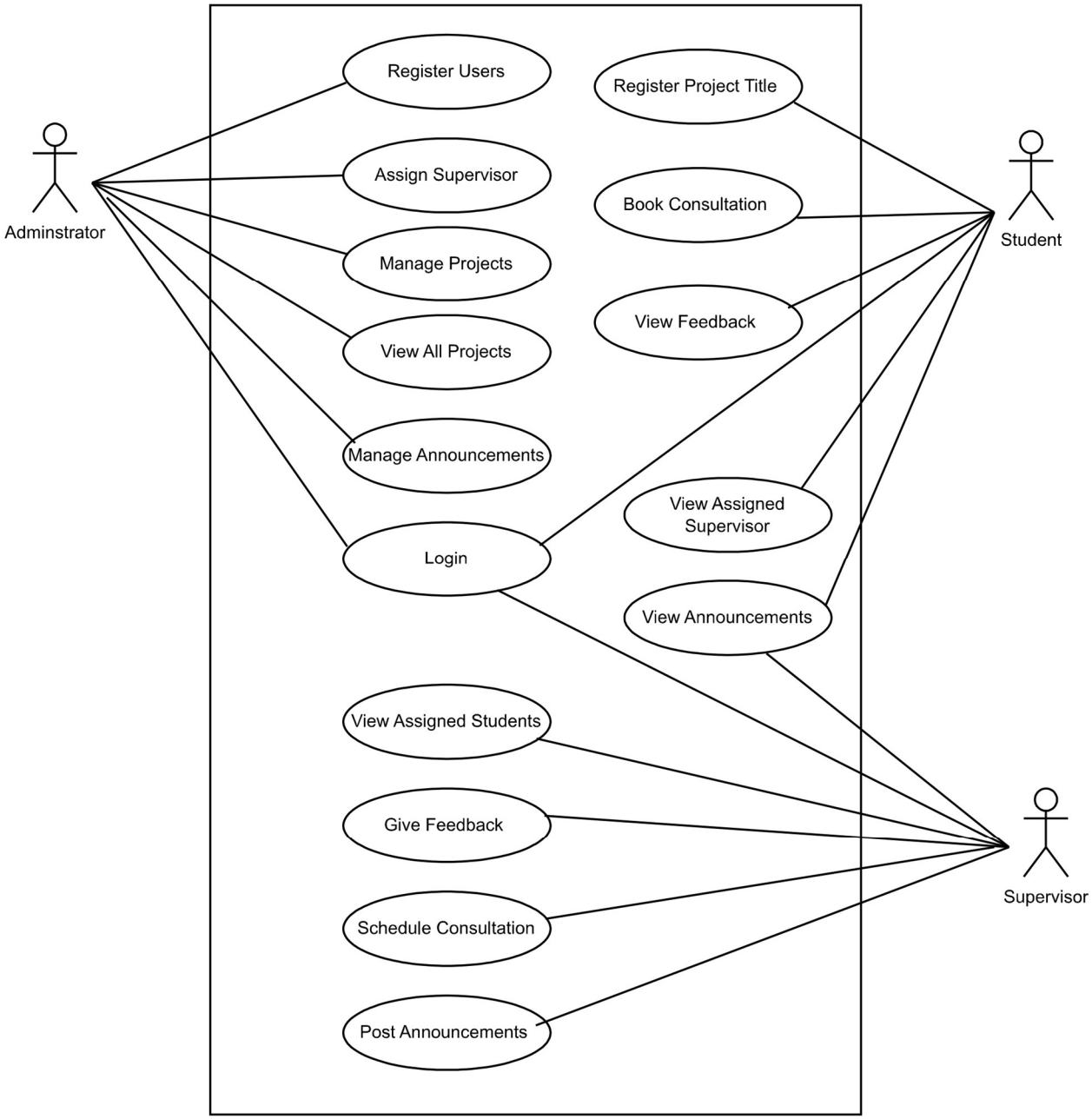
4.2 API Interfaces

i. RESTful APIs to manage user data and student listings.

5. Acceptance Criteria

i. All core functionalities (registration, login and student listing) must work without errors.
ii. UI must be responsive and accessible.
iii. Easy access of administrator's contact information (email and phone number).

6. Use Case diagram



7. Architecture diagram