



**INFO 3305 SEM 2**  
**WEB APPLICATION DEVELOPMENT**

**LECTURER NAME:**

Mohd Khairul Azmi Bin Hassan

**SECTION 2**

**Proposal Group Project :**  
**SPM Student Learning Platform**

No.	Name	Matric No
1	Aina Najwa Maisarah Binti Mohamad Zulkarnain	2212708
2	Husna Nadhirah Binti Khairul Anwar	2211170
3	Irdeena Zahierah Binti Zukipeli	2210496
4	Ahmad Syameer Syafiq bin Zulkefli	2121797

## 1.0 INTRODUCTION

The **SPM Student Learning Platform** is a web application designed to support SPM students in their studies by providing a comprehensive and interactive online learning environment. Utilising the Laravel MVC framework, the platform aims to offer a seamless user experience with features designed to meet the specific needs of SPM students.

With the rapid advancement of technology, traditional methods of learning are evolving, and online education is becoming increasingly popular. The SPM Student Learning Platform leverages this trend by providing a convenient and accessible platform for students to engage with their studies anytime, anywhere.

By integrating the Laravel MVC framework, the platform ensures scalability, security, and maintainability, allowing for seamless updates and enhancements over time. Through a user-friendly interface, students can navigate through various features effortlessly, making their learning journey intuitive and enjoyable.

The **core features** of the platform includes:

- User Authentication
- Chapter Management
- Reflection Journals
- Profile Viewing

The SPM Student Learning Platform aims to empower students with the tools and resources they need to succeed academically while fostering a culture of lifelong learning and self-improvement. By harnessing the power of technology, the platform strives to revolutionise the way SPM students engage with their studies, paving the way for a brighter future.

## 2.0 OBJECTIVES

The main objectives of the SPM Student Learning Platform are:

- To provide an easy-to-use platform for SPM students to access study materials.
- To allow students to add, edit, and delete their reflections on what they have learned.
- To enable students to view and manage their profiles and track their achievements.
- To offer a secure login/logout system for user authentication.

### **3.0 FEATURES AND FUNCTIONALITIES**

#### **1. User**

##### **i) Registration**

Allow new user to create an account

- Form to enter user details. For example, username, email and password
- Validate email and password
- Save user details to the database

##### **ii) Login**

Allow registered user to log in

- Form to enter username and password
- Validate the database entered
- Redirect to the dashboard

##### **iii) Logout**

- Redirect to login page after logout

##### **iv) Reset Password**

Allow user to reset their password if forgotten

- Form to confirm email address
- Send password to user's email
- Form to set a new password

## **2. Chapter**

### **i) Search**

Allow students to search for subjects and chapters

- Search bar to input keywords

### **ii) Add Chapter**

- Form to enter chapter details. For example, title and content
- Save chapter details to the database
- Display new chapter in the chapter list

### **iii) Edit Chapter**

- Allow user to edit existing chapter details
- Form to edit the chapter details
- Update chapter details on the database after submission

### **iv) Delete Chapter**

- Pop-up box to confirm the deletion
- Remove chapter from database

### **v) View List of Chapter**

- Display list of chapters available for a subject
- There are options to view, edit or delete

## **3. Reflection Journal**

### **i) Add**

- Allow students to write their reflection on what they have learned
- Form to enter reflection details based on topic selection
- Save reflection to the database
- Display the new reflection in the list

### **ii) Edit**

- Allow students to edit the existing reflection details
- Form to edit the reflection details
- Update reflection details in the database

### **iii) Delete**

- Pop-up box to confirm the deletion
- Remove reflection from the database

### **iv) View**

- Display list of reflection written for every topic
- There are options to view, edit or delete

#### **4. Profile**

##### **i) View profile details**

- Fetch student's details from the database
- Display student's details
- There are options to edit or delete the information

##### **ii) View achievements**

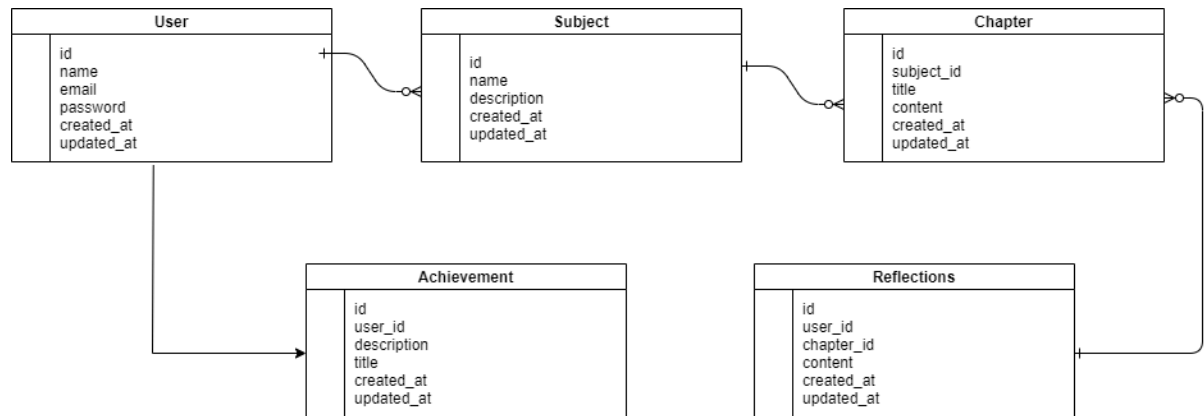
Allow students to see their achievement based on how many they interact with the platform

- Fetch achievements from the database
- Display list of achievements

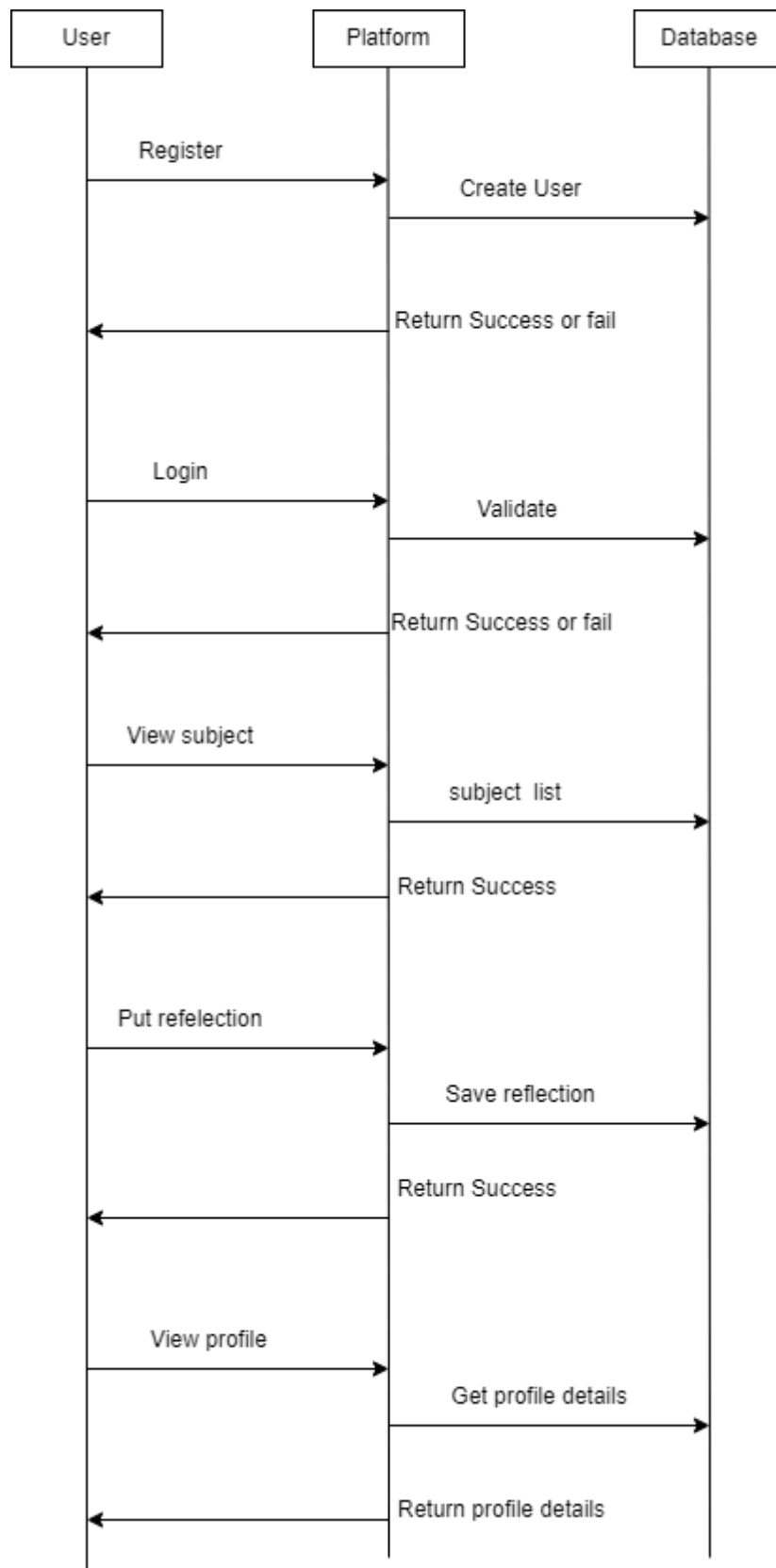
##### **iii) View Registered subjects**

- Fetch registered subject from the database
- Display list of subject registered

## 4.0 ER DIAGRAM



## 5.0 SEQUENCE DIAGRAM



## 6.0 REFERENCES

1. SPMFlix. (2024, May 3). SPMFlix - Malaysia's Largest Free Online Learning Platform  
<https://www.spmflix.com/>
2. GeeksforGeeks. (2024, February 27). *How to design ER diagrams for project management Software*. GeeksforGeeks.  
<https://www.geeksforgeeks.org/how-to-design-er-diagrams-for-project-management-software>
3. Drexel University's School of Education. (n.d.). Benefits of Online and Virtual Learning. Retrieved from  
<https://drexel.edu/soe/resources/student-teaching/advice/benefits-of-online-and-virtual-learning/>