

FINAL YEAR PROJECT MANAGEMENT SYSTEM  
FOR FACULTY OF COMPUTING

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## **CHAPTER 4**

### **IMPLEMENTATION, RESULT AND DISCUSSION**

#### **4.1 Introduction**

The development of the Project Management System for Faculty of Computing will be implemented using the programming language including frameworks such as Laravel and JavaScript. Basically, all the interfaces of the Project Management System for Faculty of Computing will be developed using Laravel. Meanwhile, the validation of the system and form will be developed using the JavaScript language.

Moreover, the development of the Project Management System for Faculty of Computing also will consist of create, retrieve, update, and delete functions. In addition, the project system will implement the database execution in order to store the important data of users.

Once the development of the Project Management System for Faculty of Computing has been completed, the system will be launched using the UMP server. Then, the Project Management System for Faculty of Computing will be tested by the PTA and PSM coordinator, final-year students, and lecturers of Faculty of Computing. The project system will go through 2 testing plans which are User Acceptance Test and Final Acceptance Test. The feedback and result of users during the testing phase will be included in this chapter.

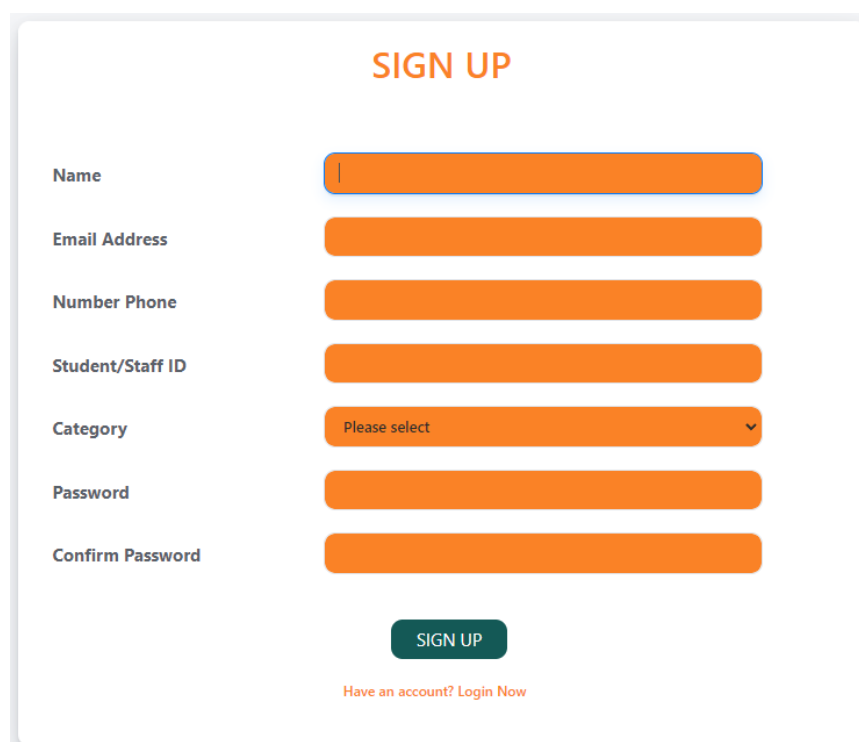
#### **4.2 Implementation Process**

In the implementation process will be discussed the development of the create, update, retrieve, and delete functions in the modules of the Project Management System for Faculty of Computing. Moreover, the implementation process also will be explained in detail about the database execution. Lastly, all the interfaces in the Project Management System for Faculty of Computing will be shown and explained its functionality.

##### **4.2.1 Create Function**

The create functions in the Final Year Project Management System for Faculty of Computing will be displayed in the form for the users to create the important data. Once the users has been fill up the required data in the form, all the information will be securely stored in the database. In the Final Year Project Management System for Faculty of Computing, the create function has been implemented in the form of sign-up, supervisor application, appointment meeting, logbook, and task.

Figure 4.1 shows the sign-up form for the users to create their account by filling up and submitting their personal information in the database of the Final Year Project Management System for Faculty of Computing. Once the users have submitted their personal information, they will obtain their account and has the authorization to access the Final Year Project Management System for Faculty of Computing according to their category. Each user's category such as supervisor, supervisee, and admin has different authorisation functions based on their requirement.



The image shows a web form titled "SIGN UP" in orange text. The form contains the following fields and elements:

- Name:** An orange input field.
- Email Address:** An orange input field.
- Number Phone:** An orange input field.
- Student/Staff ID:** An orange input field.
- Category:** An orange dropdown menu with the text "Please select" and a downward arrow.
- Password:** An orange input field.
- Confirm Password:** An orange input field.
- SIGN UP:** A dark green button with white text.
- Have an account? Login Now:** A link in orange text below the button.

Figure 4.1 The sign-up form

Moreover, Figure 4.2 and 4.3 shows the interface of the supervisor application form. Creating and applying the supervisor application is important for the final year students that are taking the PTA 1 and PSM 1 to get their preferred lecturer to become the supervisor for

their final year project. As usual, the supervisor application data that has been filled up by the users will be inserted into the database table of the supervisor application.

SECTION A: STUDENT DETAILS	
Name	Nur Afiqah Binti Mohammed Jamil
Student ID	CA20157
Phone Number	01165422117
Email	afiqah@gmail.com
SECTION B: PROJECT DETAILS	
Semester	
Supervisor Name	EN. ABBAS SALIIMI BIN LOKMAN

Figure 4.2 Supervisor application form

Proposed Title	
Background Problem	
Objective <i>*Must have 3 objective and numbering each objective*</i>	
Scope <i>*Must numbering each scope*</i>	
Project Domain	
I declare that the idea of this project is from <input type="radio"/> Lecturer <input type="radio"/> Student	
SUBMIT	

Figure 4.3 Continue supervisor application form

In the Final Year Project Management System for Faculty of Computing, users can create an appointment meeting between supervisor and supervisee using the appointment meeting form. Figure 4.4 shows the interface of the appointment meeting form.

Meeting Title	<input type="text"/>		
Supervisor Name	<input type="text" value="PM. TS. DR. AWANIS BINTI ROMLI"/>	Date	<input type="text" value="dd/mm/yyyy"/>
Time Start	<input type="text" value="--:-- --"/>	Time End	<input type="text" value="--:-- --"/>
Purpose	<input type="text"/>		
<input type="button" value="SUBMIT"/> <input type="button" value="CANCEL"/>			

Figure 4.4 Appointment meeting form

Once the meeting between the supervisor and supervisee has been completed, the users especially the supervisee are required to create the logbook information. Logbook information will store all the meeting information details in the database. For instance, week, date, time start, time end, and progress of the meeting. Figure 4.5 shows the interface of the logbook form.

Week	<input type="text"/>	Date	<input type="text" value="dd/mm/yyyy"/>
Time Start	<input type="text" value="--:-- --"/>	Time End	<input type="text" value="--:-- --"/>
Supervisor Name	<input type="text" value="PM. TS. DR. AWANIS BINTI ROMLI"/>		
Progress	<input type="text"/>		
<input type="button" value="SUBMIT"/> <input type="button" value="CANCEL"/>			

Figure 4.5 Logbook form

The users is able to create the project task using the task form as shown in Figure 4.6. The project task information will be stored in the database table of task.

<input type="button" value="TO DO"/>			
Task Title	<input type="text"/>	Assignor	<input type="text" value="Nurayuni Binti Nordin Sin"/>
Due Date	<input type="text" value="dd/mm/yyyy"/>	Priority	<input type="text" value="Low"/>
Status	<input type="text" value="On Track"/>	Task Details	<input type="text"/>
<input type="button" value="SUBMIT"/> <input type="button" value="CANCEL"/>			

Figure 4.6 Task form

#### 4.2.2 Retrieve Function

In the Final Year Project Management System for Faculty of Computing, the retrieve function will be obtained the data from the database and display it on the interfaces. Figure 4.7 shows the supervisor quota information that retrieves from the database table of supervisor quota.

STAFF NAME	EMAIL	EXPERT GROUP	CURRENT SUPERVISION				SUPERVISION QUOTA	AVAILABILITY QUOTA	APPLICATION OF CURRENT SUPERVISION
			PTA 1	PTA 2	PSM 1	PSM 2			
En. Abbas Saliimi Bin Lokman	abbas@ump.edu.my	VISIC	0	2	0	6	9	1	1
Pm. Ts. Dr. Awanis Binti Romli	awanis@ump.edu.my	EDUTECH	0	0	0	1	3	2	3

Figure 4.7 Supervisor quota information

Once the supervisee has completed applying the supervisor application, the Final Year Project Management System for Faculty of Computing will be displayed the supervisor application information as shown in Figure 4.8. The supervisor application information such as supervisor name, proposed title, and status application has been retrieved from the database table of supervisor application.

SUPERVISOR NAME	PROPOSED TITLE	STATUS APPLICATION
PM. TS. DR. AWANIS BINTI ROMLI	Project Management System for Faculty of Computing	In Progress

Figure 4.8 Supervisor application information

Besides, the appointment meeting data that created and stored in the appointment database table will be displayed in the appointment meeting interface as shown in Figure 4.9.

APPROVED

▲ No Data

IN PROGRESS

Review Supervisee Modules

Date:	2023-05-04
Start Time:	13:00:00
End Time:	14:00:00
Meeting Personal:	PM. TS. DR. AWANIS BINTI ROMLI
Purpose:	Present and demo supervisee modules

Figure 4.9 Appointment meeting information

Likewise, all the logbook data in the database that has been created by the supervisee will be displayed in the interface of the logbook module as shown in Figure 4.10.

+

INSERT LOGBOOK

DATE	TIME		PROGRESS	SUPERVISOR COMMENT	APPROVAL	UPDATE
	START	END				
2023-04-06	10:46:00	11:46:00	Show system		In Progress	<div>UPDATE</div>

Figure 4.10 Logbook information

In addition, the task information in the database table of tasks will be displayed in the task module interface as shown in Figure 4.11. The displayed task data will make it easier for the users to review the project task that they have created.

TO DO

⊕ Add Task

Supervisor Module

Assignor: Nurayuni Binti Nordin Sin

Priority: High

Status: On Track

Due: 2023-05-04

View

IN-PROGRESS

⊕ Add Task

DONE

⊕ Add Task

Figure 4.11 Task information

In the reporting module, the task and project submission information will be displayed using the visualisation graph. Based on Figures 4.12 and 4.13, the task information such as total status, total priority, and total task completion will be displayed in the pie and doughnut charts. Meanwhile, the project submission data will be displayed in the numbering. All the displayed data has been retrieved from the database tables of task and project submission.

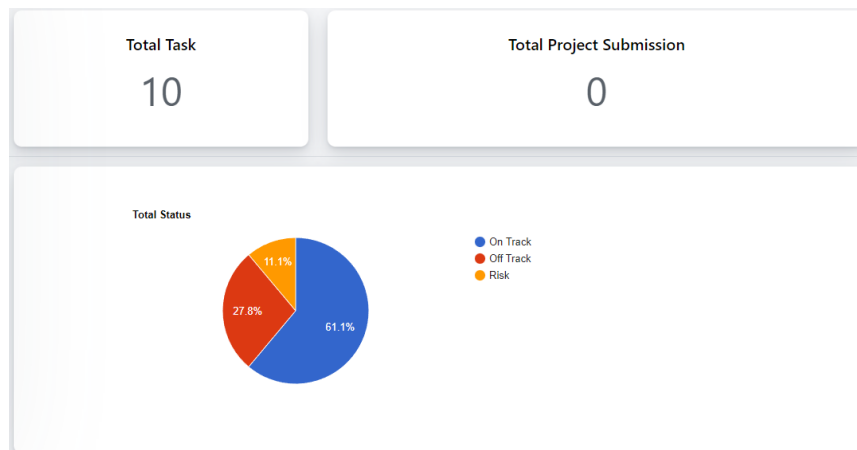


Figure 4.12 Reporting data

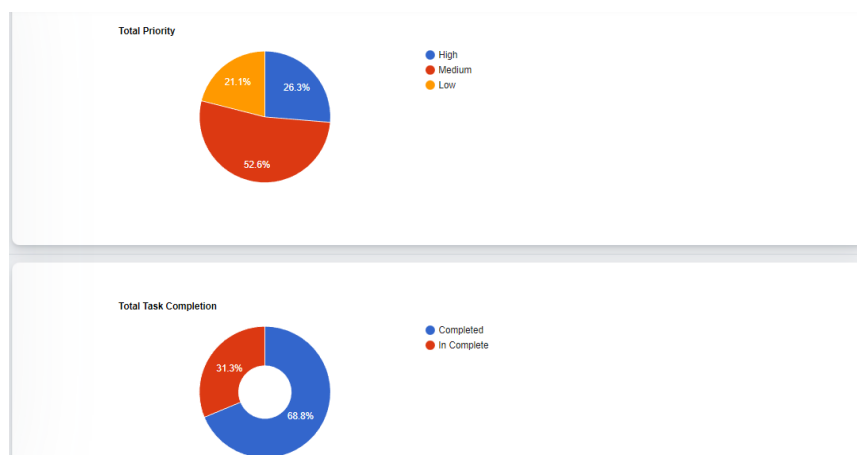


Figure 4.13 Continue reporting data

Figure 4.14 shows the interface that displayed the evaluation information that retrieve from the database table of evaluation.

Number	12
Date	01/02/2023
Time	11:00 AM - 12:00 PM
Location	BZ-03-076
Evaluators Name	1. DR. JAMALUDIN BIN SALLIM 2. PM. DR. NORAZIAH BINTI AHMAD

Figure 4.14 Evaluation information

Once the supervisor and coordinator have approved the supervisor application, the information of students' final year project will be displayed on the FYP library interface as shown in Figure 4.15. The final year project information has been retrieved from the database table of supervisor applications.



Show 10 entries

Search semester

STUDENT NAME	SUPERVISOR NAME	EXPERT GROUP	PROJECT TITLE	BACKGROUND PROBLEM	OBJECTIVE	SCOPE
Nurayuni Binti Nordin Sin	PM. TS. DR. AWANIS BINTI ROMLI	EDUTECH	Project Management System for Faculty of Computing	The project status and submission that relied on the email is quite difficult for the manager or supervisor to monitor and view the overall project progress.	1. To study the functionality and design elements in the existing system. 2. To develop a final year project management system for the Faculty of Computing. 3. To evaluate the effectiveness and functionality of the project management system.	1. Supervisor 2. Supervisee 3. Coordinator PTA & PSM

Showing 1 to 1 of 1 entries

Previous 1 Next

Figure 4.15 FYP library

### 4.2.3 Update Function

The users have been given the authority to change the data in the database by using the update function. In the Final Year Project Management System for Faculty of Computing, the users are able to update the appointment meeting if, the status of the appointment is still in progress. Once the status appointment has been approved, the users are not being able to update the appointment meeting information. Figure 4.16 shows the appointment form for updating the appointment meeting data.

Meeting Title	Review Supervisee Modules		
Date	04/05/2023		
Time Start	01:00 PM	Time End	02:00 PM
Purpose	Present and demo supervisee modules		
<div> <div>UPDATE</div> <div>BACK</div> <div>DELETE</div> </div>			

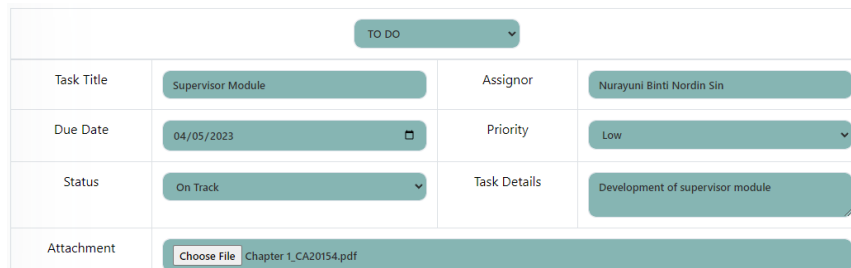
Figure 4.16 Update function in appointment meeting

In addition, the users also can edit the logbook information as shown in Figure 4.17. The logbook information can be edited if, the status logbook is still 'In Progress' only.

Week	5	Date	06/04/2023
Time Start	10:46 AM	Time End	11:46 AM
Progress	Show system		
<div> <div>UPDATE</div> <div>BACK</div> <div>DELETE</div> </div>			

Figure 4.17 Update function in the logbook

Moreover, the Final Year Project Management System for Faculty of Computing provides flexibility for the users which are supervisors and supervisees to update the task information. For example, update the progression, task title, due date, status, priority, task details, and attach the file as shown in Figure 4.18.

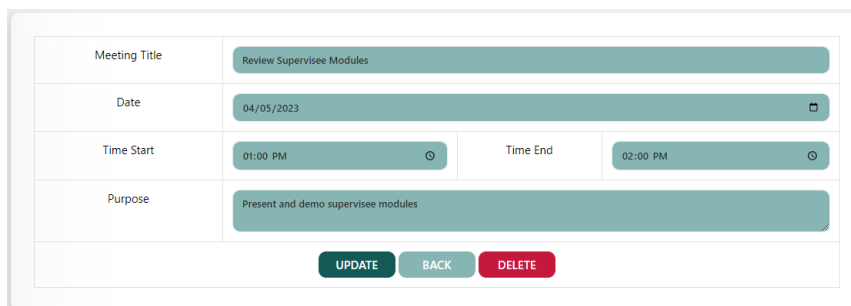


TO DO			
Task Title	Supervisor Module	Assignor	Nurayuni Binti Nordin Sin
Due Date	04/05/2023	Priority	Low
Status	On Track	Task Details	Development of supervisor module
Attachment	Choose File Chapter 1_CA20154.pdf		

Figure 4.18 Update function in task

#### 4.2.4 Delete Function

The Final Year Project Management System for Faculty of Computing has given the opportunity for the users to remove the wrong data by utilizing the delete function. Figure 4.19 shows that the user is able to delete the appointment meeting data. The appointment meeting data can be deleted if, the status appointment is 'In Progress' only. Otherwise, the appointment meeting data cannot be deleted.



Meeting Title	Review Supervisee Modules		
Date	04/05/2023		
Time Start	01:00 PM	Time End	02:00 PM
Purpose	Present and demo supervisee modules		
<div> <div>UPDATE</div> <div>BACK</div> <div>DELETE</div> </div>			

Figure 4.19 Delete function in appointment meeting

Meanwhile, Figure 4.20 shows that the users are also able to delete the logbook data. Likewise the appointment, the logbook data also can be deleted if the status logbook is 'In Progress'.

Week	5	Date	06/04/2023
Time Start	10:46 AM	Time End	11:46 AM
Progress	Show system		
<div> <div>UPDATE</div> <div>BACK</div> <div>DELETE</div> </div>			

Figure 4.20 Delete function in the logbook

## 4.2.5 Database Implementation

During the development of the Final Year Project Management System for Faculty of Computing, the project system will use phpMyAdmin as the database in order to store all users' required data. The Final Year Project Management System for Faculty of Computing has 6 tables in the database that are named fypfk. Those 6 tables are appointment, infoprofile, logbook, supervisorapply, task, and users.

Figure 4.21 shows the users table in the fypfk database. The users table will store all the user's personal information that has been filled up and submitted using the sign-up form. Once the user's personal information has been stored in users table, they can access the Final Year Project Management System for Faculty of Computing.

	id	name	email	email_verified_at	numPhone	matric	password	category
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Nurayuni Binti Nordin Sin	yuni@gmail.com	NULL	0103654281	CA20154	\$2y\$10\$6JdM1Onk0SYX7yBmh66pSeOrTEV3qF83o9R4IK2A...	Student
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Huda Binti Ramli	huda@gmail.com	NULL	12345678911	CA20156	\$2y\$10\$5F5mW0XhgT.4hP0dgyYhZe1Y5EVpvWZ56zPDHVVSAYX...	Student
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	EN. ABBAS SALIMI BIN LOKMAN	abbas@ump.edu.my	NULL	0121234567	AR15678	\$2y\$10\$vtcOuk25S2mIA707CnNXudP8Aty5MDBATfRm.TGOb...	Staff
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	TS. DR. JUNAIDA BINTI SULAIMAN	junaida@ump.edu.my	NULL	0145637825	AT12345	\$2y\$10\$55fteWfHnbcEJsvmfquu0N.4JXu0XmkZLIM007nTO7...	Staff
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	PM. TS. DR. AWANIS BINTI ROMLI	awanis@ump.edu.my	NULL	0135478911	AR98765	\$2y\$10\$4RHP5qyA.r46A6106AJGmuxCkLF0JHUWQOq5XCgATH...	Staff
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	Nur Afqah Binti Mohammed Jamil	afiqah@gmail.com	NULL	01165422117	CA20157	\$2y\$10\$KD3fJ.amvBjohXOTY5fB2e40r7hfs26UzauulKWBByG...	Student
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	Nurayuni Binti Nordin Sin	ayuni@gmail.com	NULL	0103654281	CA20154	\$2y\$10\$ebWHZ5vvcv9NAUQZURORQeW5J11QFtEJSUHLfShak6...	Student

Figure 4.21 Users table

Figure 4.22 shows the appointment table. The appointment table will contain the appointment information of the meeting between the supervisor and supervisee. The appointment meeting information has been received from the appointment meeting form.

id	superviseeID	supervisorID	appointTitle	appointDate	startTime	endTime	purpose	statusAppoint	appointLocation	created_at	updated_at
1	7	5	Review Supervisee and Admin Modules	2023-05-04	13:00:00	14:00:00	Present and demo the supervisee and admin modules ...	In Progress	NULL	NULL	2023-04-27 14:11:25
3	8	6	Review Supervisee Modules	2023-05-04	13:00:00	14:00:00	Present and demo supervisee modules	In Progress	NULL	NULL	NULL

Figure 4.22 Appointment table

Figure 4.23 shows the infoprofile table that only has the additional information of users. If the users are supervisees, they are required to store their course information whether PTA 1, PTA 2, PSM 1 or PSM 2. If the users are supervisors, they need to store their expert group information whether ViSiC, MIRG, EDUTECH or so on.

	id	userID	course	expertGroup	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	1	PSM 2	NULL	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	2	2	PSM 1	NULL	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	3	4	NULL	ViSiC	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	4	5	NULL	MIRG	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	5	6	NULL	EDUTECH	NULL	NULL

Figure 4.23 Infoprofile table

Figure 4.24 shows the logbook table that will store the activity or progression of the meeting between the supervisor and supervisee. All the data in the logbook table will be obtained from the logbook form.

	id	superviseeID	supervisorID	weekLog	dateLog	timeStart	timeEnd	progress	comment	approval	created_at	updated_at
<input type="checkbox"/> Edit Copy Delete	1	2	6	4	2023-04-06	10:00:00	11:00:00	Show CRUD	NULL	In Progress	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	2	8	6	5	2023-04-06	10:46:00	11:46:00	Show system	NULL	In Progress	NULL	NULL
<input type="checkbox"/> Edit Copy Delete	3	7	5	5	2023-04-12	11:00:00	12:00:00	Show the user interface and report	NULL	In Progress	NULL	2023-04-12 13:37:29

Figure 4.24 Logbook table

Figure 4.25 shows the supervisorapply table that will store all the supervisor application and final year project information. The data in the supervisorapply table will be gained from the supervisor application form.

id	superviseeID	supervisorID	semester	proposedTitle	problemStatement	objective	scope	domain	declaration	dateAgree	statusApplied
1	8	6	Semester 2 2022/2023	Project Management System for Faculty of Computing	The project status and submission that relied on t...	1. To study the functionality and design elements ...	1. Supervisor 2. Supervisee 3. Coordinator PTA &...	Web based system	Student	NULL	In Progress

Figure 4.25 Supervisorapply table

Figure 4.26 shows the task table that obtains the data from the task form. The task table will consist of the supervisees' project tasks.

	id	superviseeID	titleTask	assignor	dueDate	priority	status	taskDetails	progress	attachment	created_at	updated_at
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	1	7	Staff Module Development	Nur Atiqah Binti Mohammed Jamil	2023-05-12	Medium	On Track	All staff interface and function	To Do	1681358564.pdf	NULL	2023-04-13 04:02:44
<input type="checkbox"/> <a href="#">Edit</a> <a href="#">Copy</a> <a href="#">Delete</a>	3	8	Supervisor Module	Nurayuni Binti Nordin Sin	2023-05-04	High	On Track	Development of supervisor module	To Do	NULL	NULL	NULL

Figure 4.26 Task table

## 4.2.6 Interfaces

### Supervisor Modules

### Supervisee Modules

The supervisee has 9 modules which are home, supervisor quota, supervisor application, appointment meeting, logbook, my task, reporting, evaluation, submission, and FYP library. Each module has a different functionality based on the users' requirements.

Figure 4.27 shows the home interface for the supervisee once they have successfully login the Final Year Project Management System for Faculty of Computing. In the home interface, the supervisee is able to review the announcement from the PSM and PTA coordinator on the announcement board section.

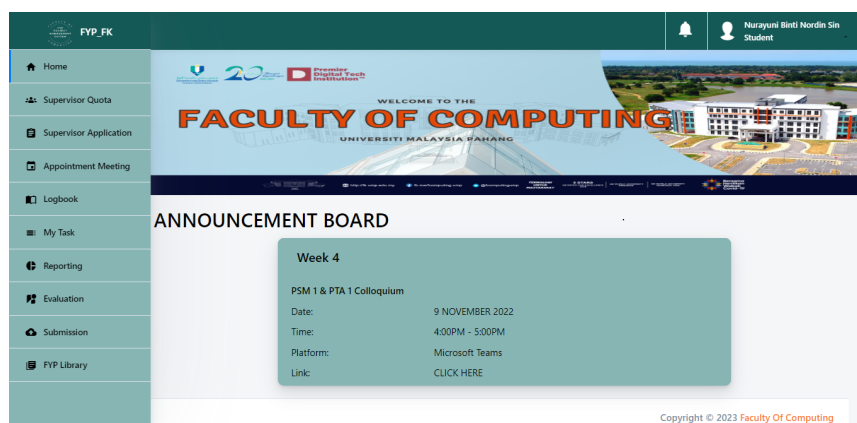


Figure 4.27 Home interface

Besides, Figure 4.28 shows the supervisor quota interface for the supervisee to view the list of supervisor including their total supervisee quota information.

STAFF NAME	EMAIL	EXPERT GROUP	CURRENT SUPERVISION				SUPERVISION QUOTA	AVAILABILITY QUOTA	APPLICATION OF CURRENT SUPERVISION
			PTA 1	PTA 2	PSM 1	PSM 2			
En. Abbas Salimi Bin Lokman	abbas@ump.edu.my	VISIC	0	2	0	6	9	1	1
Pm. Ts. Dr. Awanis Binti Romli	awanis@ump.edu.my	EDUTECH	0	0	0	1	3	2	3

Figure 4.28 Supervisor quota interface

Figure 4.29 and 4.30 shows the supervisor application form interface to help the supervisee in applying their preferred staff as supervisor of their final year project. The supervisor application form interface will be displayed if, the supervisee did not apply and has the supervisor yet.

### SECTION A: STUDENT DETAILS

Name: Nur Afiqah Binti Mohammed Jamil

Student ID: CA20157

Phone Number: 01165422117

Email: afiqah@gmail.com

### SECTION B: PROJECT DETAILS

Semester:

Supervisor Name: EN. ABBAS SALIMI BIN LOKMAN

Proposed Title:

Figure 4.29 Supervisor application form interface

Background Problem:

Objective: *\*Must have 3 objective and numbering each objective\**

Scope: *\*Must numbering each scope\**

Project Domain:

I declare that the idea of this project is from  
☐ Lecturer ☐ Student

**SUBMIT**

Figure 4.30 Continue the supervisor application form interface

However, the supervisee is able to view the supervisor application interface as shown in Figure 4.31 once the supervisee has applied the supervisor application. Basically, the supervisee is able to view the application of the supervisor's name, proposed title, and status application.

SUPERVISOR NAME	PROPOSED TITLE	STATUS APPLICATION
PM. TS. DR. AWANIS BINTI ROMLI	Project Management System for Faculty of Computing	In Progress

Figure 4.31 Supervisor application interface

Moreover, Figure 4.32 shows the meeting schedule interface. In the meeting schedule interface, the supervisee is able to create the appointment meeting by clicking the 'BOOK MEETING' button. Apart from that, the supervisee also is able to view the information of the meeting schedule. Based on Figure 4.32, the supervisee is able to view the meeting schedule that has been approved and in progress. If the meeting schedule is still in progress status, the supervisee is able to edit the appointment meeting information by clicking the title of the meeting appointment.

Review Supervisee Modules	
Date:	2023-05-04
Start Time:	13:00:00
End Time:	14:00:00
Meeting Personal:	PM. TS. DR. AWANIS BINTI ROMLI
Purpose:	Present and demo supervisee modules

Figure 4.32 Meeting schedule interface

Figure 4.33 shows the logbook interface that consists of meeting information between the supervisor and supervisee. For example, the date, time start, time end, progress, supervisor comment, and approval of the meeting. Besides, the supervisee is able to create the

logbook in the logbook interface by clicking the ‘INSERT LOGBOOK’ button. Furthermore, the supervisee also is able to update the logbook information data by clicking the ‘UPDATE’ button.

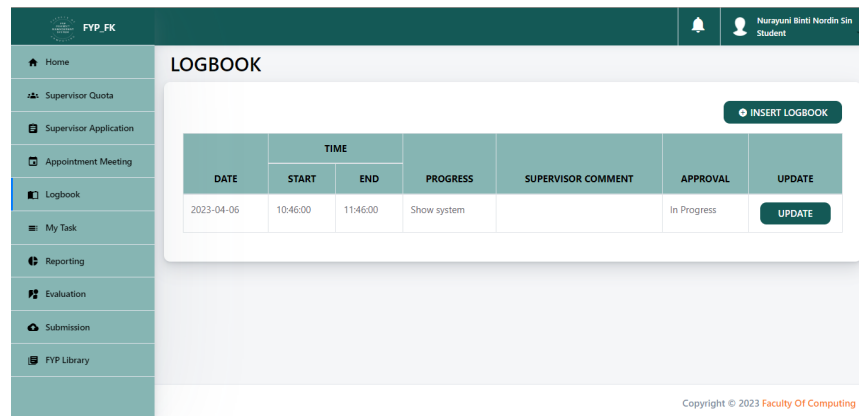


Figure 4.33 Logbook interface

In my task interface, the supervisee is able to review their project task as shown in Figure 4.34. The Final Year Project Management System for Faculty of Computing has implemented the Kanban-style in order to categorize the project task progression whether in the ‘TO DO’, ‘IN PROGRESS’ or ‘DONE’. Furthermore, the supervisee also is able to create the project task by clicking the ‘Add Task’ that has been provided on each category. The Final Year Project Management System for Faculty of Computing also has provided the update and delete function to edit and delete the project task data by clicking the ‘View’ button.

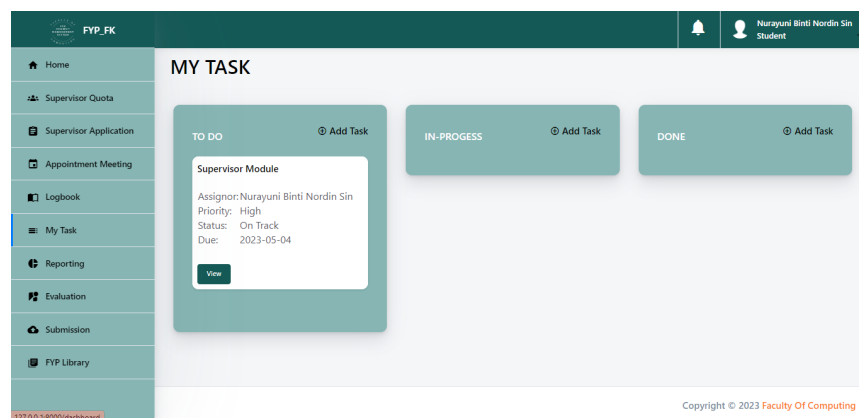


Figure 4.34 My task interface

Figure 4.35 and 4.36 shows the reporting of the supervisee’s project in the graph visualization such as pie and doughnut chart. The reporting was generated from the data of project tasks and submission.



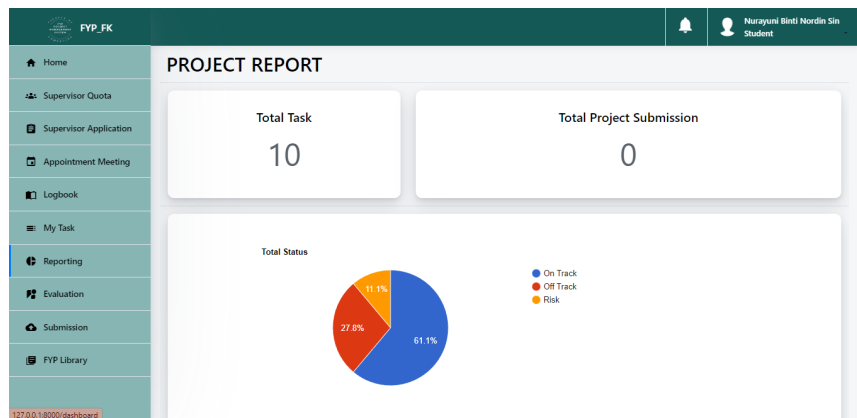


Figure 4.35 Reporting interface

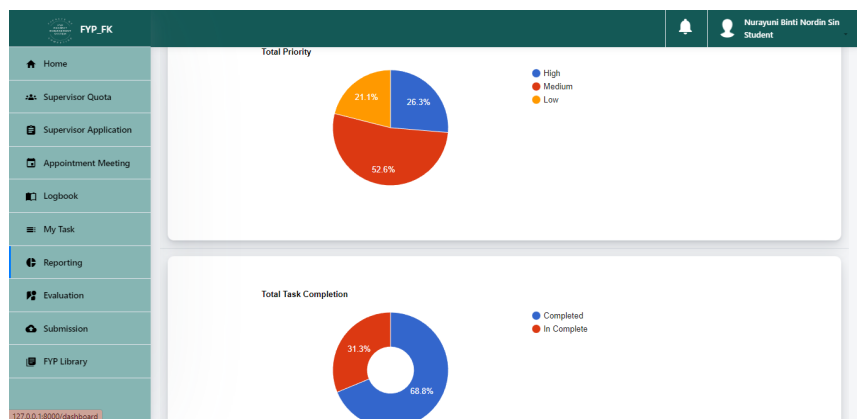


Figure 4.36 Continue reporting interface

Figure 4.37 shows the evaluation information interface for the supervisee to review about their evaluation information in more detail. For instance, the evaluation information of date, time, location, and evaluator's name.

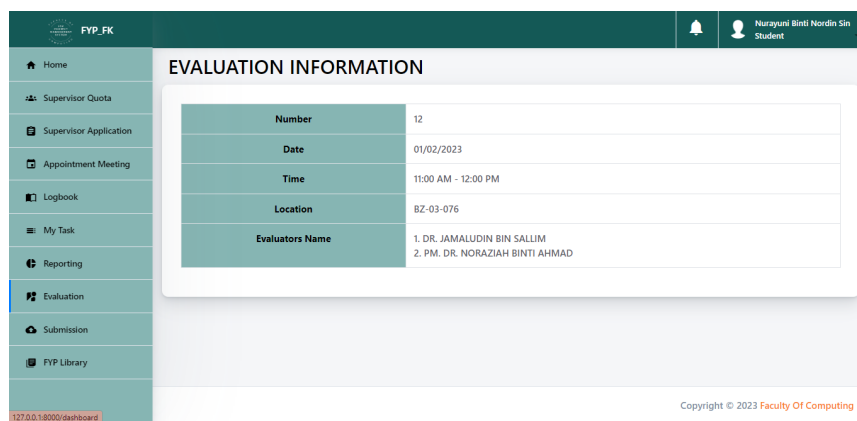


Figure 4.37 Evaluation information interface

Figure 4.38 shows the project submission interface. The project submission interface will provide the list of required submissions for the supervisee. The list of required

submissions has been created by the coordinator. Once the supervisee has clicking the title of the submission, the supervisee will directly go to the interface as shown in Figure 4.39.

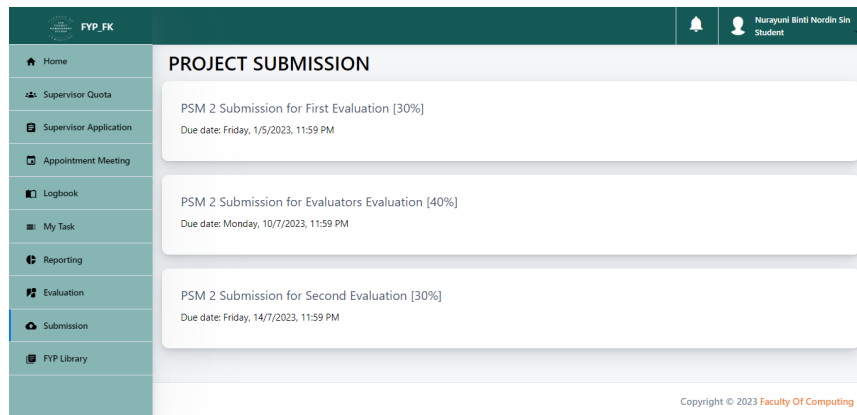


Figure 4.38 Project submission interface

Figure 4.39 shows the interface to create the submission project. In this interface, the supervisee is required to upload the project file and click the ‘SUBMIT’ button in order to create the submission.

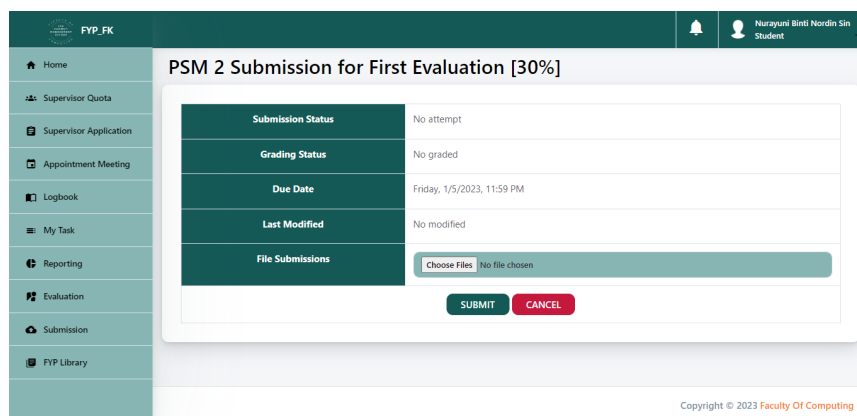


Figure 4.39 Submission interface

Lastly, Figure 4.40 shows the FYP Library interface for the supervisee to review and search the previous final year project that has been completed by alumni students of the Faculty of Computing.

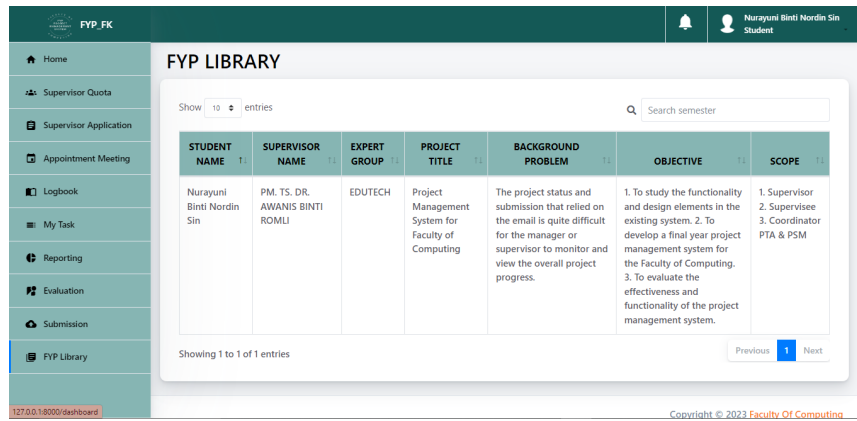


Figure 4.40 FYP Library interface

## Admin Modules

### 4.3 Testing and Result Discussion