

# **TCP2201 Object Oriented Analysis and Design**

## Trim 1 2022/2023

Title: MMU Online Mini-project Management System

Tutorial Group: TT3L

Tutor's Name: Ms Ku Day Chi

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## **Table of Content**

1.0 System Overview	1
1.1 Introduction	1
1.2 Assumptions (Optional)	1
2.0 Use Case Diagram	2
3.0 UML Class Diagram	3
4.0 Collaboration Diagram	5
4.0.1 User Login	5
4.0.2 Create User Account (Admin)	5
4.0.3 Create Project (Admin)	5
4.0.4 Delete Project (Admin)	6
4.0.5 Add Comment (Admin)	6
4.0.6 View Report (Admin)	7
4.0.7 View created projects (Lecturer)	8
4.0.8 Assign student to project (Lecturer)	9
4.0.9 Unassign student to project (Lecturer)	10
4.0.10 Edit project (Lecturer)	11
4.0.11 Deactivate project (Lecturer)	12
4.0.12 Activate project (Lecturer)	12
4.0.13 View Projects(Student)	13
5.0 Behavioural & Flow Models	13
5.1 Sequence Diagram	13
5.1.1 User Login	14
5.1.2 Create User Account (Admin)	15
5.1.3 Create Project (Admin/Lecturer)	16
5.1.4 Delete Project (Admin)	16
5.1.5 Add Comment (Admin)	17
5.1.6 View Report (Admin)	18
5.1.7 View created projects (Lecturer)	19
5.1.8 Assign student to project (Lecturer)	20
5.1.9 Unassign student to project (Lecturer)	21
5.1.10 Edit project (Lecturer)	22
5.1.11 Deactivate project (Lecturer)	23
5.1.12 Activate project (Lecturer)	24
5.1.13 View Projects(Student)	25
5.2 State Diagram	26
Appendix	26

Sample interface screen	27
Login	27
Create User Account(Admin)	27
Create Project (Admin)	27
Delete Project (Admin)	27
Add Comment (Admin)	27
View Reports	27
View created projects (Lecturer)	27
Assign student to project (Lecturer)	27
Unassign student to project (Lecturer)	27
Edit project (Lecturer)	27
Deactivate project (Lecturer)	27
Activate project (Lecturer)	27
View Projects(Student)	27
Sample input /output screens	28
Login	28
Create User Account(Admin)	31
Create Project (Admin)	31
Delete Project (Admin)	31
Add Comment (Admin)	31
View Reports	31
View created projects (Lecturer)	31
Assign student to project (Lecturer)	31
Unassign student to project (Lecturer)	31
Edit project (Lecturer)	31
Deactivate project (Lecturer)	31
Activate project (Lecturer)	31
View Projects(Student)	31

## 1.0 System Overview

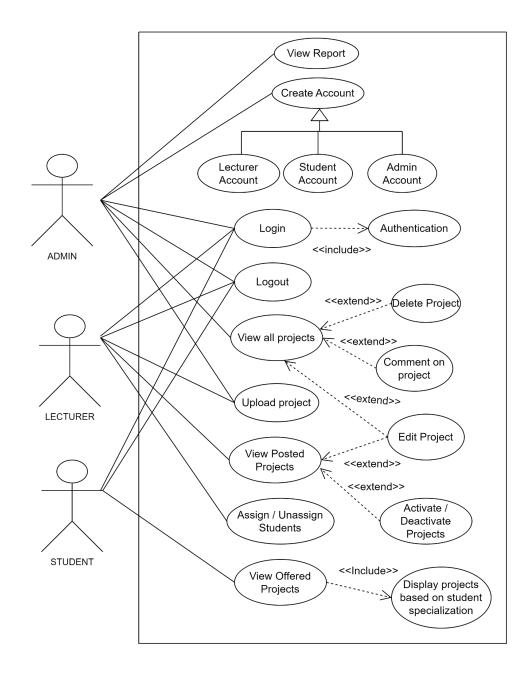
#### 1.1 Introduction

The Mini-project management system is an online tool for MMU lecturers and students who registered with the mini-project subject. The system consists of 3 main users: Admin, Lecturer, Student. Admin will provide the lecturers and students with their own username and password. Admin can add, delete and comment on projects whereas lecturers can upload the content of mini- projects to the system and assign it to the students according to their specialisation. Students are divided according to their specialisation and students are only allowed to access projects under their specialisation only.

### 1.2 Assumptions (Optional)

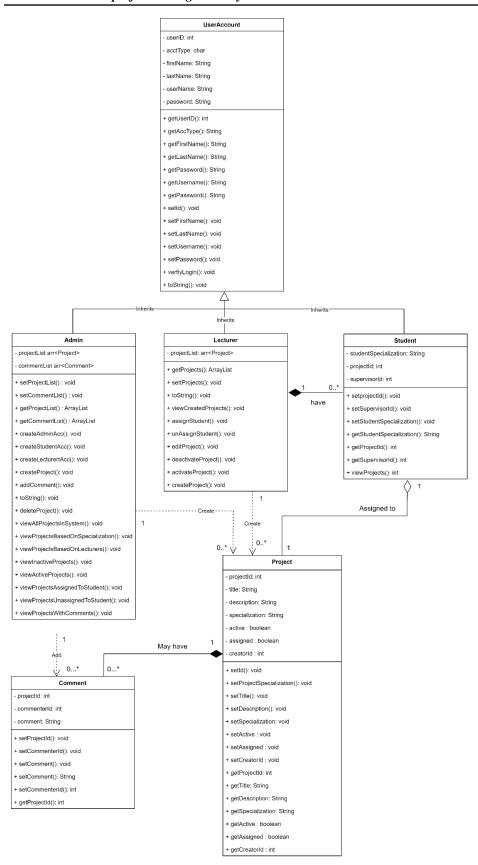
A) There can be multiple projects with the same name.

### 2.0 Use Case Diagram



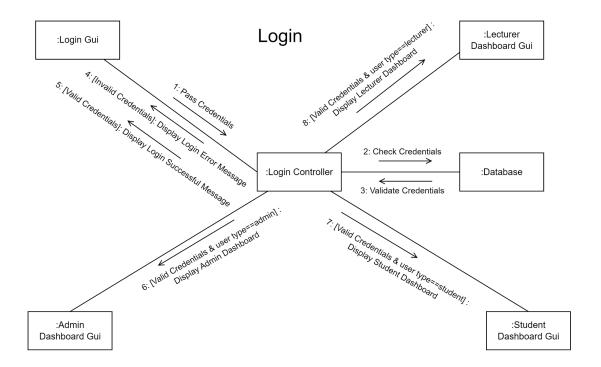
Shown above is the Use Case Diagram of the system which consists of three main actor : Admin, lecturer, student

3.0 UML Class Diagram



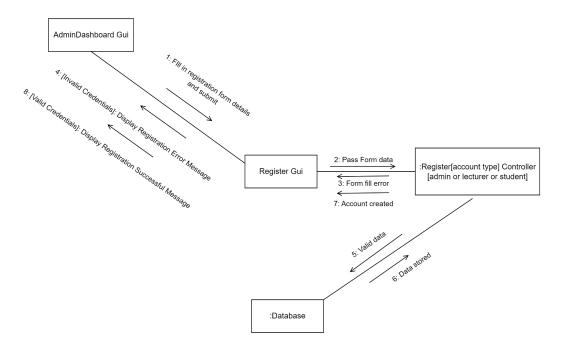
## 4.0 Collaboration Diagram

#### 4.0.1 User Login

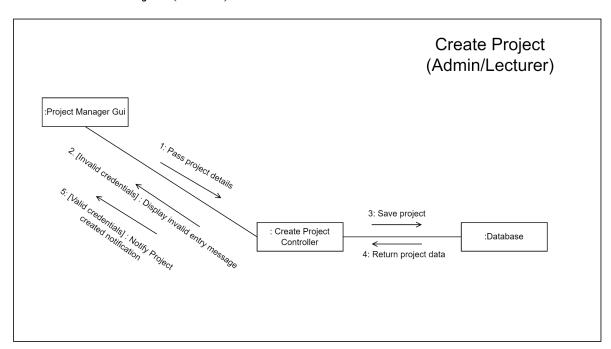


#### 4.0.2 Create User Account (Admin)

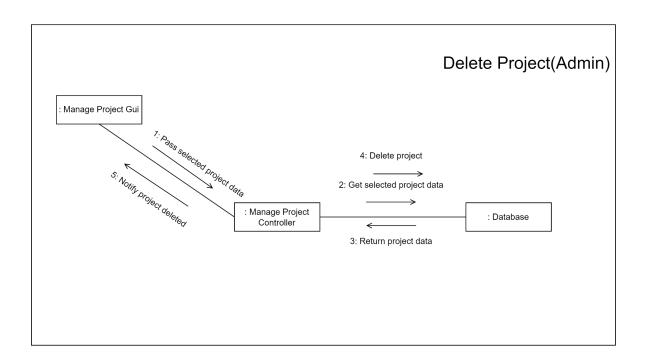
#### Create User Account (Admin)



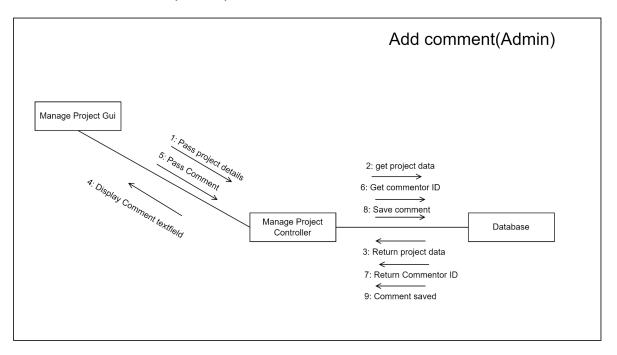
## 4.0.3 Create Project (Admin)



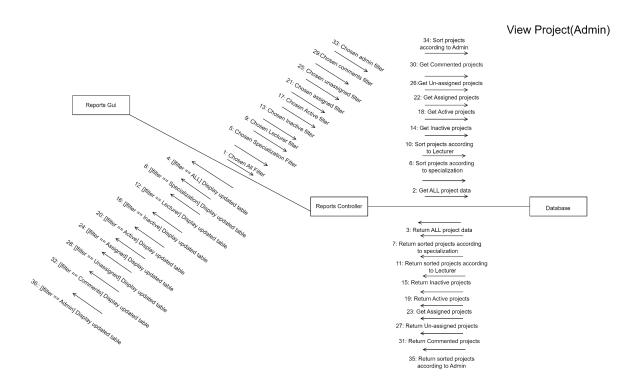
#### 4.0.4 Delete Project (Admin)



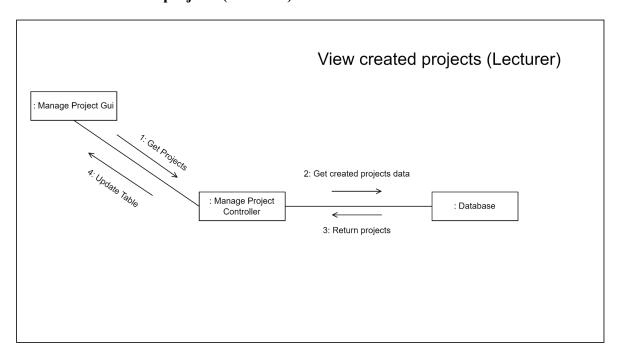
#### 4.0.5 Add Comment (Admin)



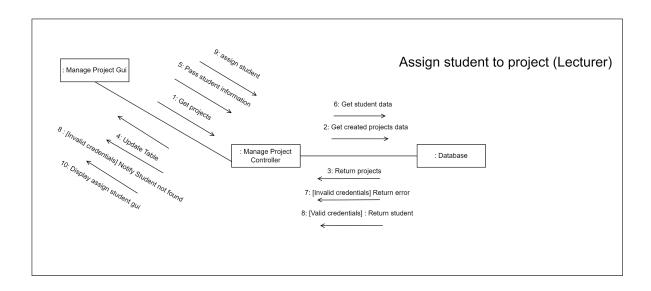
#### 4.0.6 View Report (Admin)



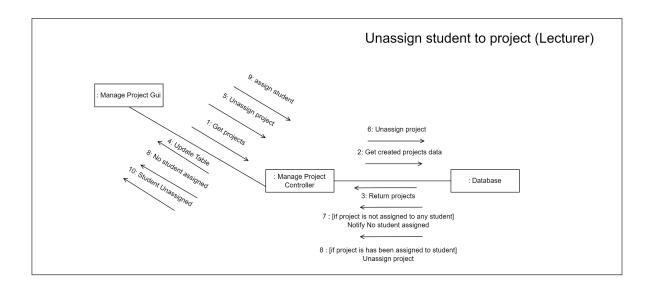
## 4.0.7 View created projects (Lecturer)



## 4.0.8 Assign student to project (Lecturer)

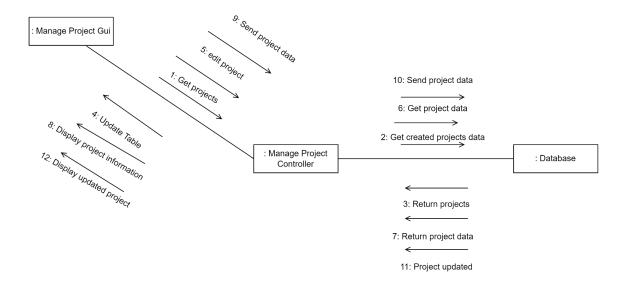


## 4.0.9 Unassign student to project (Lecturer)



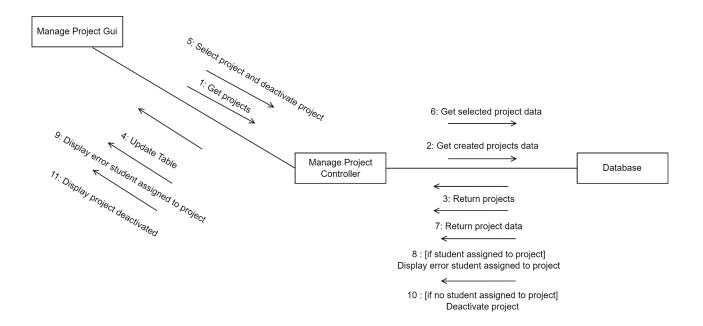
## 4.0.10 Edit project (Lecturer)

## Edit project (Lecturer)



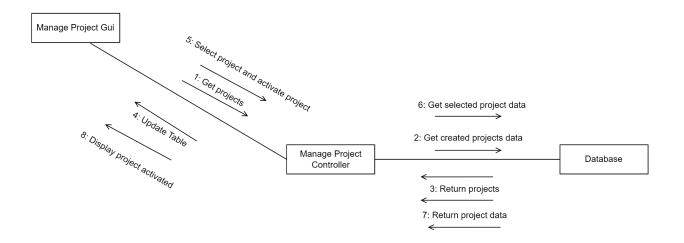
#### **4.0.11 Deactivate project (Lecturer)**

## Deactivate project (Lecturer)

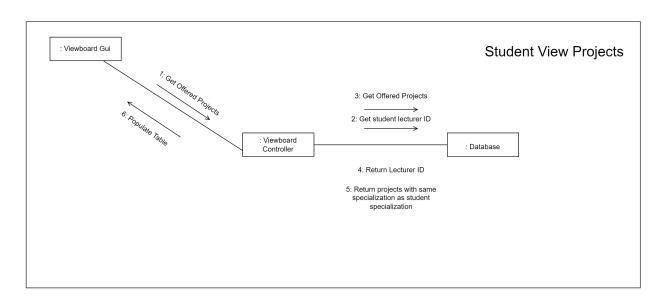


## 4.0.12 Activate project (Lecturer)

## Activate project (Lecturer)



#### 4.0.13 View Projects(Student)

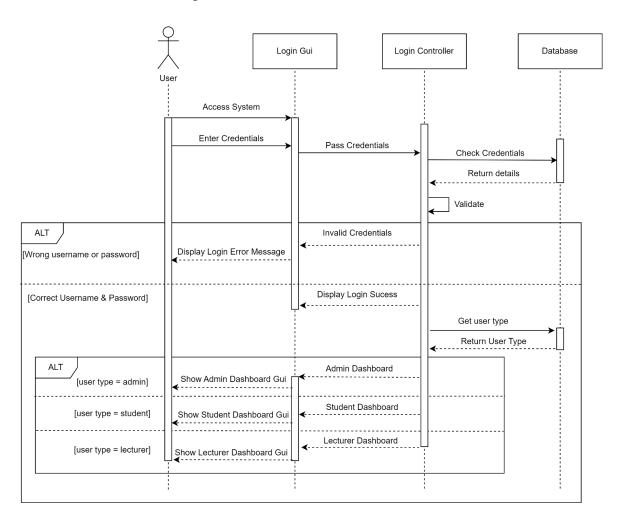


## 5.0 Behavioural & Flow Models

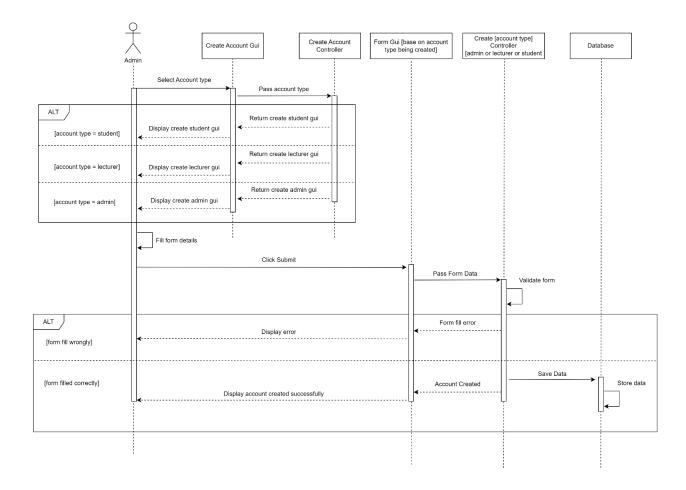
## **5.1 Sequence Diagram**

#### 5.1.1 User Login

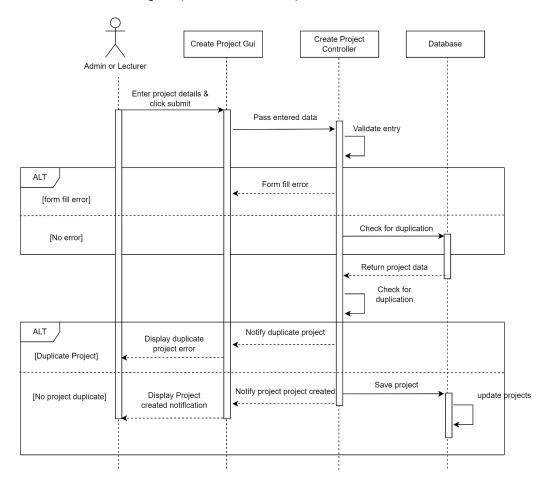
## Login



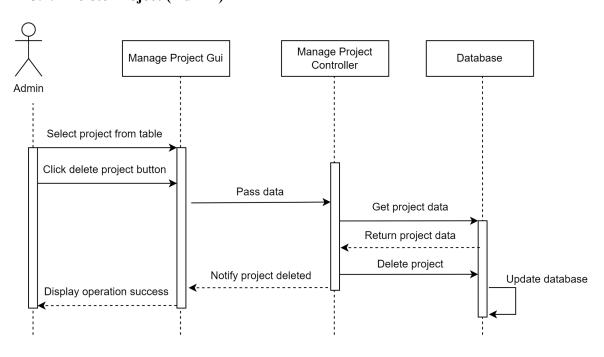
#### **5.1.2 Create User Account (Admin)**



## **5.1.3** Create Project (Admin/Lecturer)

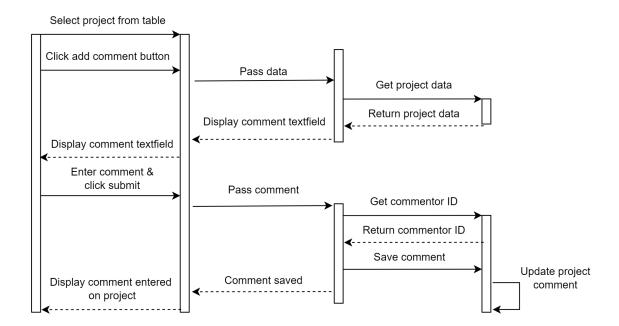


### 5.1.4 Delete Project (Admin)

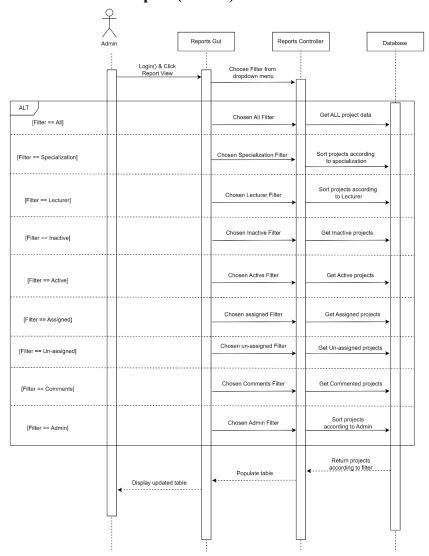


#### 5.1.5 Add Comment (Admin)

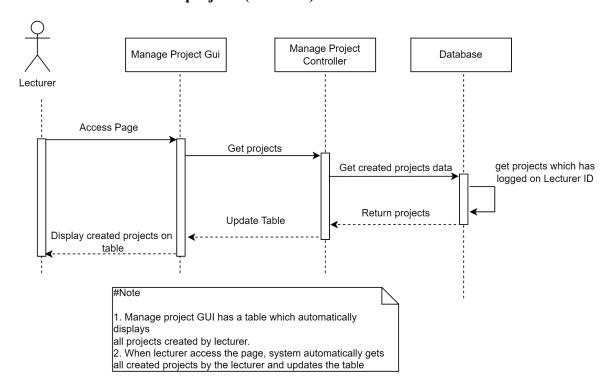




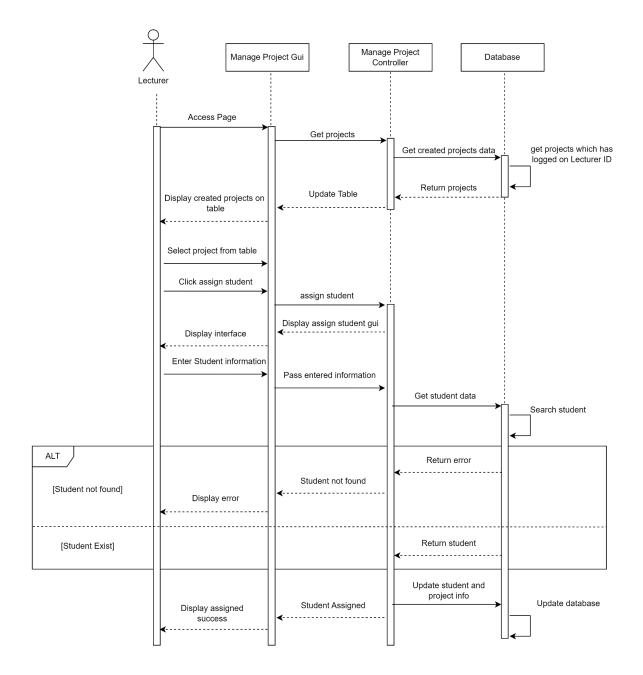
#### 5.1.6 View Report (Admin)



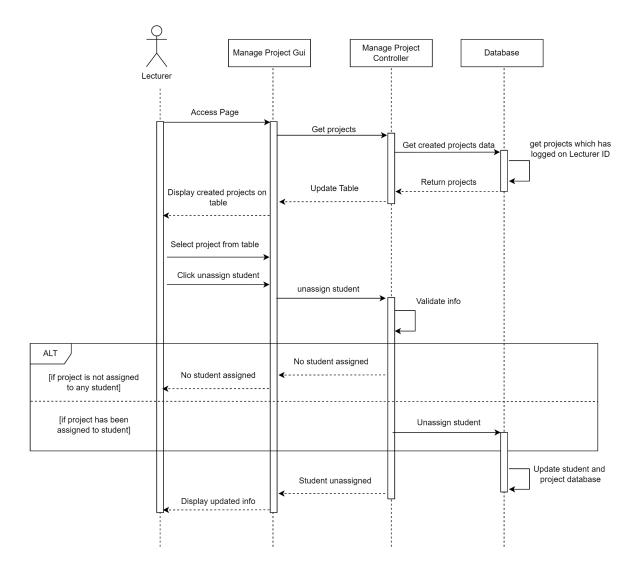
#### 5.1.7 View created projects (Lecturer)



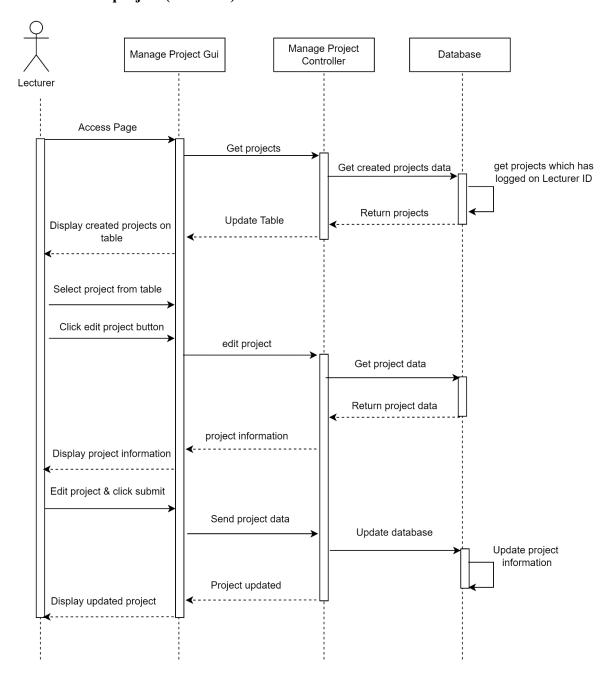
#### 5.1.8 Assign student to project (Lecturer)



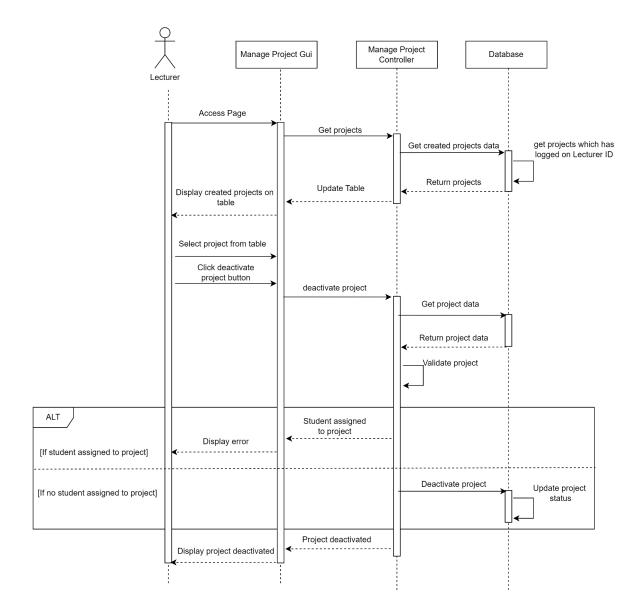
#### 5.1.9 Unassign student to project (Lecturer)



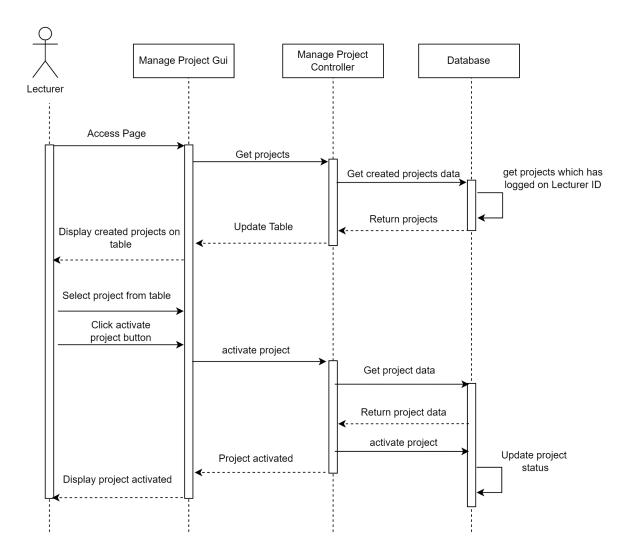
#### **5.1.10** Edit project (Lecturer)



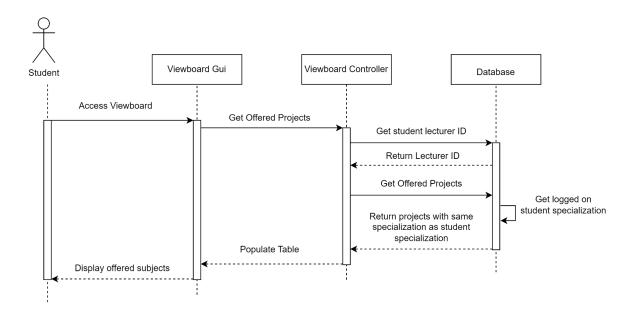
#### **5.1.11 Deactivate project (Lecturer)**



#### **5.1.12** Activate project (Lecturer)

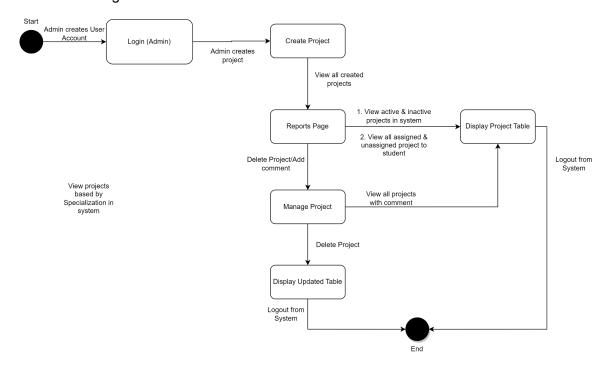


## 5.1.13 View Projects(Student)

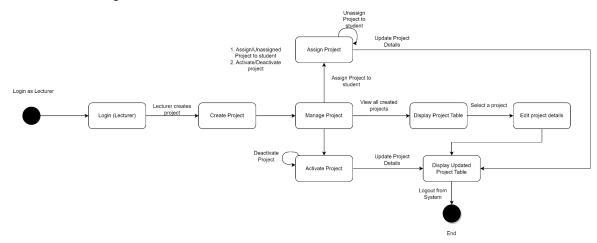


## 5.2 State Diagram

## Admin State Diagram



#### Lecturer State Diagram



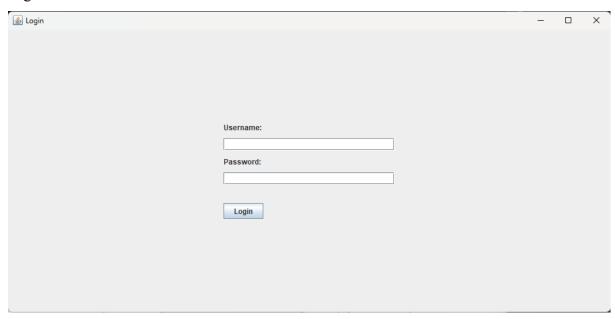
#### Student State Diagram



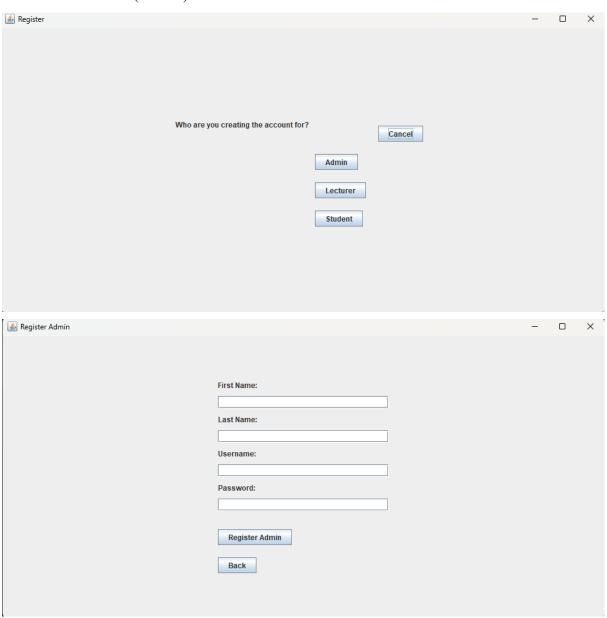
## **Appendix**

Sample interface screen

## Login

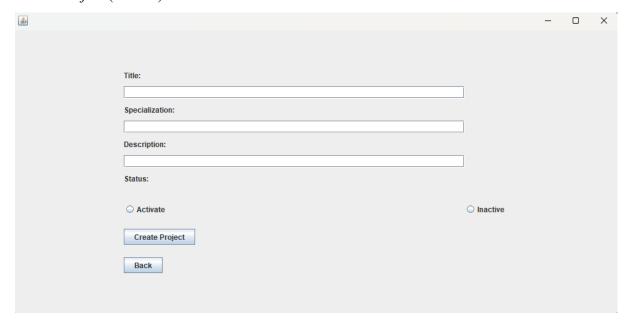


## Create User Account(Admin)

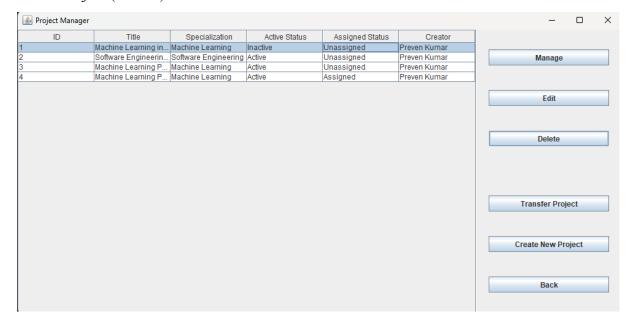


🙆 Register Lecturer			-	×
		First Name:		
		Last Name:		
		Last Hames		
		Username:		
		Password:		
		Register Lecturer		
		Back		
🙆 Register Student		-	-	×
	First Name:			
	Last Name:			
	Username:			
	Password:			
	T doorlord.			
	Specialization:			
	Supervisor:			
	2 : Preven Kumar	▼		
	Pagint - St.	doub		
	Register Stu	uent		
	Back			

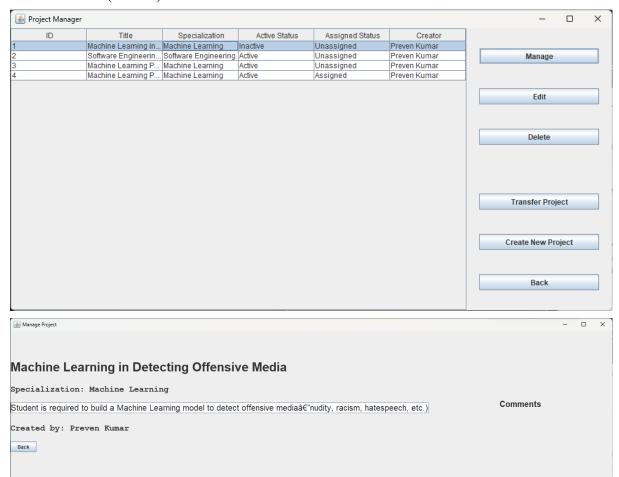
## Create Project (Admin)



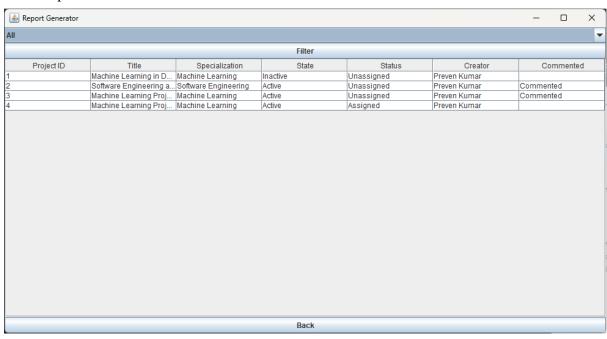
## Delete Project (Admin)



#### Add Comment (Admin)

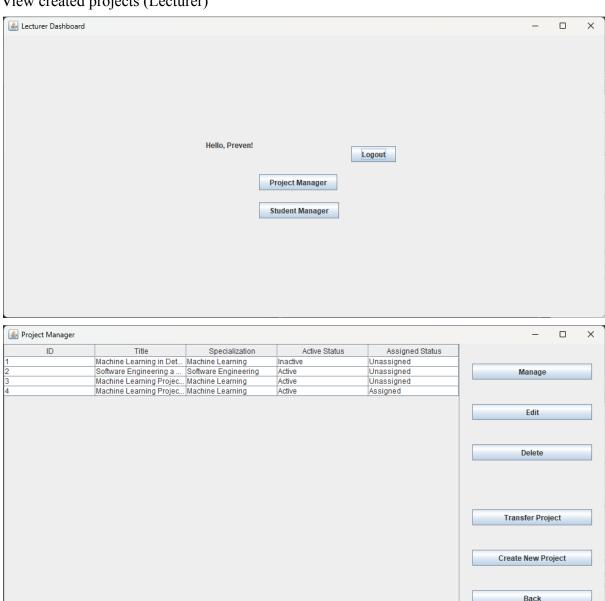


#### View Reports

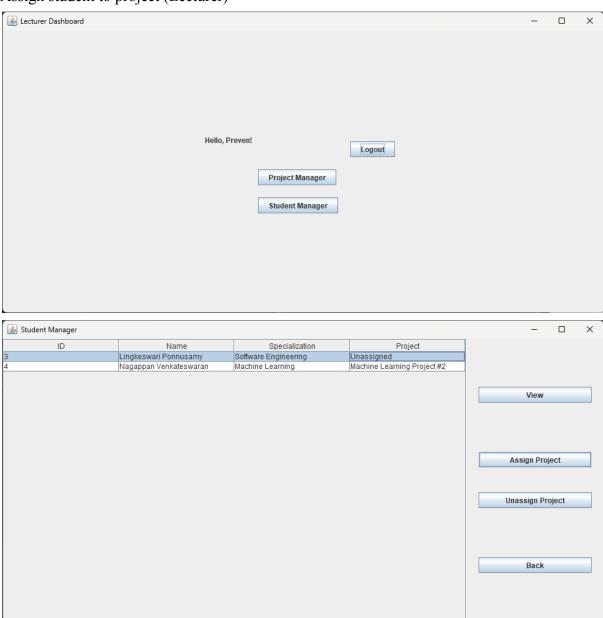


Comment

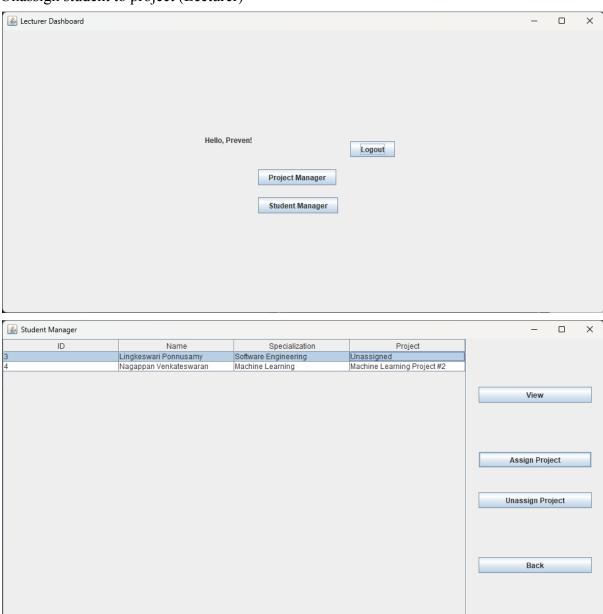
#### View created projects (Lecturer)



## Assign student to project (Lecturer)



## Unassign student to project (Lecturer)



Edit project (Lecturer)

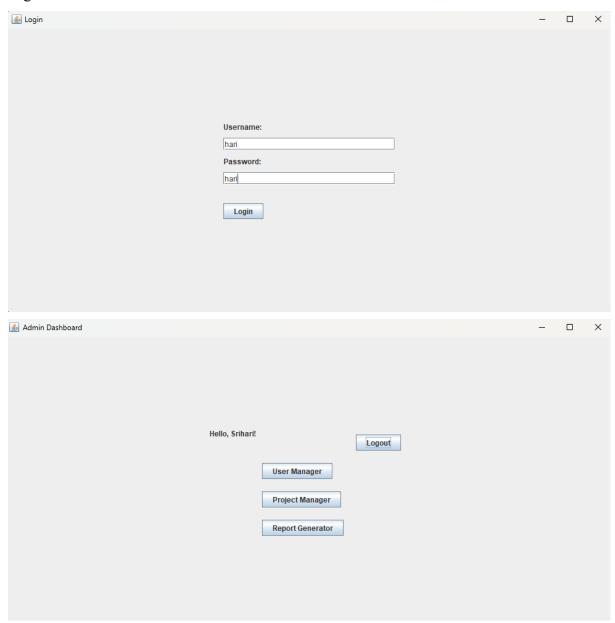
Deactivate project (Lecturer)

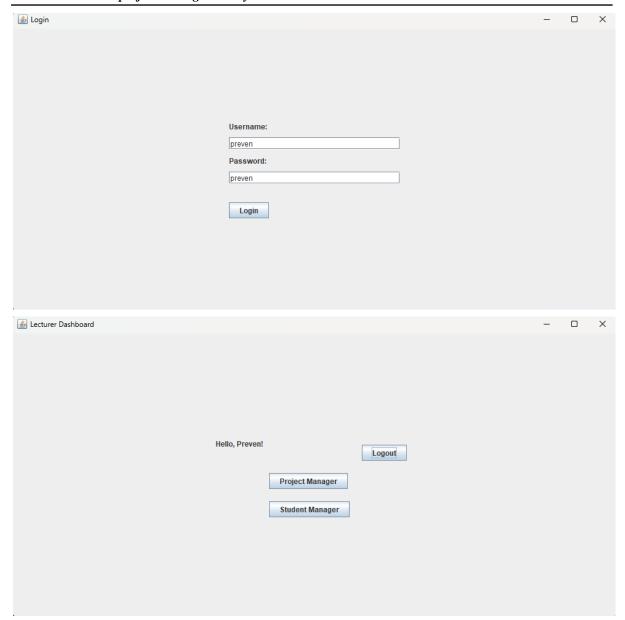
Activate project (Lecturer)

View Projects(Student)

## Sample input /output screens

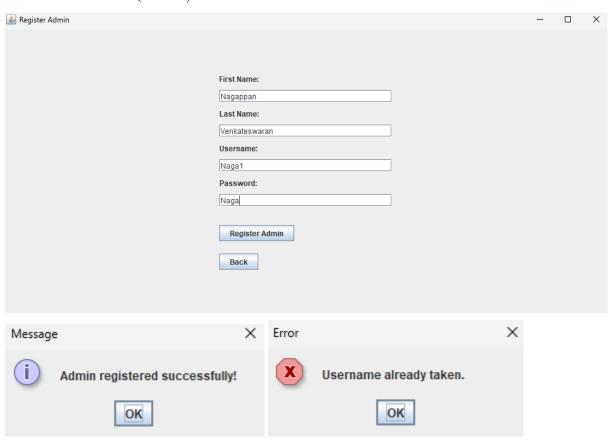
## Login





<u>≨</u> Login				-		×
	Username: naga Password: naga					
Project Manager				_		×
Here's your project.		Logout		-	0	×
Here's your project.	Specialization Machine Learning		Title	-	0	×
Here's your project.	Specialization Machine Learning	Logout Machine Learning Proje	Title ct#2	-		×

#### Create User Account(Admin)



Create Project (Admin)

Delete Project (Admin)

Add Comment (Admin)

View Reports

View created projects (Lecturer)

Assign student to project (Lecturer)

Unassign student to project (Lecturer)

Edit project (Lecturer)

Deactivate project (Lecturer)

Activate project (Lecturer)

View Projects(Student)