



# **Teacher & student communication-based app**

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An undertaking completed in part to meet the requirements for a Bachelor of  
Science in Software Engineering degree

**Department of Software Engineering**  
**Daffodil International University**

Fall – 2023

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## **ACKNOWLEDGEMENT**

I would like to extend my sincere gratitude to Daffodil International University for their unwavering support throughout my academic journey, particularly acknowledging my supervisor, Mr. Biraj Saha Aronya, for his consistent guidance and valuable advice. I want to express my gratitude to all of my instructors, parents, and the constant support of the DIU community. Additionally, I am appreciative of the support and camaraderie of my friends.

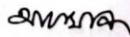
## **Executive Summary**

**Teacher – Student communication app** is to search for teachers by employee ID or email, view teacher routines, email IDs, phone numbers, and counseling hours, and chat with teachers in real time. Teachers can also use the app to update their routines and counselling hour.

### APPROVAL

This project titled on “Teacher & Student Communication based app”, submitted by **Ahsanul Haque Chowdhury (ID: 201-35-531)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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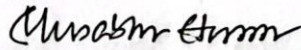
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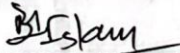
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## DECLARATION

I announce that I am rendering this study document under, Mr. Biraj Saha Aronya Lecturer, Department of Software Engineering, and Daffodil International University. I therefore, state that this work or any portion of it was not proposed here therefore for Bachelor's degree or any graduation.

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# **Chapter I**

## **INTRODUCTION**



## **Chapter 1:**

### **Introduction**

#### **1.1. Project Overview**

This easy-to-use app allows students to search for teachers by employee ID or email, view teacher routines, email IDs, phone numbers, and counseling hours, and chat with teachers in real time. Teachers can also use the app to update their routines and counselling hour.

#### **1.2. Project Purpose**

This application's primary goal is to facilitate simple communication between teachers and students.

##### **1.2.1 Background**

I've seen many applications that use to know about routine of classes, show schedule of teachers but I do not have seen to communicate through the same platform. So, I thought this application can be solving this problem.

##### **1.2.2 Benefits**

The system will helpful both teacher & student. Enhancing interaction between teachers and students for a better learning experience. The system is so safe to communicate.

##### **1.2.3 Goal**

The goal of the student-teacher communication app is to improve communication and collaboration between students and teachers.

#### **1.3 Stakeholders**

I express here three kinds of stakeholder:

- 1) The development group.
- 2) Admin.
- 3) General users.

## 1.4. Proposed System Model

This project will be a communication-based application between teachers and students. Few applications like this one I saw. Second, by implementing a live communication system, we may become more efficient. So, I applied the waterfall model here.

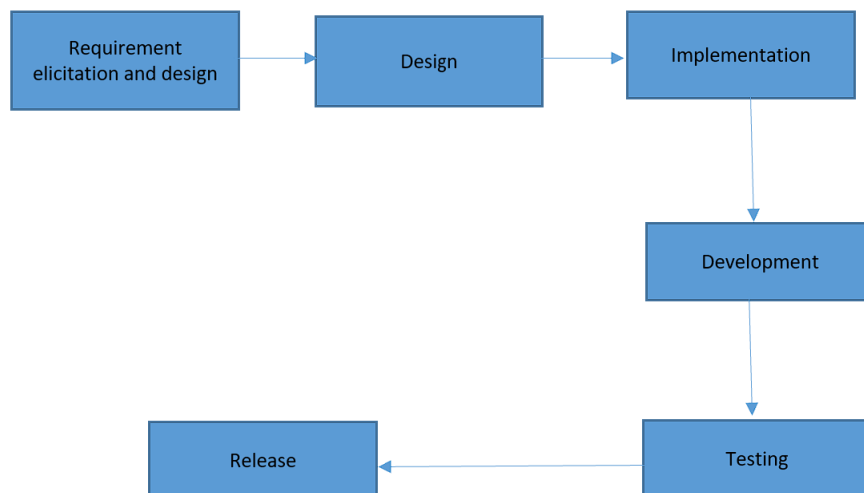
### 1.4.1. Waterfall-Model

Here I have been used the waterfall model, because of that our criteria remain stable and well-defined.

### 1.4.2 Why and how I used waterfall

Waterfall stands out as the prevalent choice for software engineering and information technology projects within the systems development life cycle. It follows a sequential, unidirectional approach reminiscent of a cascading waterfall. I have provided an in-depth analysis of the core components of the Waterfall model, including its phases, benefits, limitations, and strategic comparisons with Agile. Additionally, I have explained two key frameworks that are essential to the Waterfall model: work breakdown structures and the critical path technique. Find helpful resources to help you create efficient Waterfall charts for your next project as well.

Emphasize the regular delivery of functional software. Project foundations should rest upon motivated individuals.



## **1.5. Project Schedule**

Below is a detailed Gantt Chart that shows the project's activities and deliverables along with their estimated start and finish dates. Usually, a schedule is used in project planning and management to attempt.

### 1.5.1. Gantt Chart

This Gantt chart is a tool for production management. I can use this tool to keep track of whether a task is completed.

Activity	Name of Task	W 1 & 2	W 3 & 4	W 5 & 6	W 7 & 8	W 9 & 10	W 11 & 12	W 13 & 14	W 15 & 16	W 17 & 18	W 19 & 20	W 21 & 22	W 23 & 24
Planning	Idea	█											
	Problem Defining	█	█										
	Planning	█	█										
Requirement	Requirement Clarification		█										
	Requirement Analysis		█	█									
System Design	Drawing				█	█							
Database Design	Design Specification				█	█							
Development	Coding					█	█	█	█	█	█		
	Implementation						█	█	█	█	█	█	
Testing						█	█	█	█	█	█	█	
Delivery													█

### 1.5.2. WBS Planning for Development Phase

<b>Activity</b>	<b>Time Duration</b>	<b>Total week</b>
<b>Interview</b>	Week 1	1
<b>Brainstorming</b>	Week 2	1
<b>Problem Defining</b>	Week 3, Week 4	2
<b>Requirement clarification</b>	Week 4, Week 5	2
<b>Requirement analysis</b>	Week 6, week 7	2
<b>Drawing</b>	Week 8	1
<b>Design specification</b>	Week 9, Week 10	2
<b>Coding</b>	Week 11, Week 12, Week 13, Week 14, Week 15	5
<b>Implementation</b>	Week 11, Week 12, Week 13, Week 14, Week 15, Week 16	6
<b>Testing</b>	Week 17, Week 18, Week 19, Week 20, Week 21, Week 22 Week 23	7
<b>Delivery</b>	Week 24	1

## **1.6 Related Work**

I saw few system related my application I have managed. But there is no such application that what I need.

## **1.7 Problem Statements**

- There is no way to direct communicate with one platform.
- Routine update delay.
- Complex counseling process.

## **1.8 Proposed Solution**

Existing system have this problem. So, I am going to fixed and develop that

- Easy way UI design.
- Access to Teacher Contact Information easy way.
- Message for Counseling.
- Routine Update immediately.

**Chapter II**  
**SOFTWARE REQUIREMENT AND IT'S**  
**SPECIFICATION**

## **Chapter 2:**

**Software Requirements Specification:** This delineates the project's user requirements and its inherent nature. Typically, this document is crafted early in the validation phase, serving as a foundational piece for various projects or applications to plan the system effectively. Adhering to specific guidelines is imperative in the preparation of the SRS report. This document archives crucial information related to application details, security considerations, and the planning methodology.

### **2.1 Functional Requirement:**

- User registration login
- Forget password functionality
- Real time chat between student & teacher
- Update teacher routine
- Update teacher counseling hour

### **2.2 Data Requirements we need:**

#### **2.2.1 User Registration**

- User Name
- User Phone
- User Email
- User Password
- User Picture

#### **2.2.2 Routine Creation**

- Days
- Course Name
- Course Title
- Time
- Room number

#### **2.2.3 Counseling Hour Creation**

- Days
- Time
- Room number
- Description



#### **2.2.4 Notice Creation**

- Days
- Time
- Description

#### **2.3 Non-Functional Requirements:**

- Secure user authentication and authorization
- Data encryption and storage
- Real-time chat notifications
- User-friendly interface
- Accessibility features

Table 2.3.1: Software Requirements Specification

<b>ID</b>	<b>Requirement Name</b>	<b>Description</b>	<b>F/N</b>	<b>Priority</b>
<b>01</b>	User Login	Registered user can login	Functional	High
<b>02</b>	User Registration	User can register	Functional	High
<b>03</b>	Create profile	User & admin can create profile	Functional	High
<b>04</b>	Update profile	User & admin can update profile	Functional	Medium
<b>05</b>	Create Routine	User (Teacher) can create Routine	Functional	High

<b>06</b>	Update Routine	User (Teacher) & Admin can update routine	Functional	Medium
<b>07</b>	Create Notice	User (Teacher) can create notice	Functional	High
<b>08</b>	Update Notice	User (Teacher) & Admin can update notice	Functional	Medium
<b>09</b>	Create counseling hour	User (Teacher) can create counseling hour	Functional	High
<b>10</b>	Update counseling hour	User (Teacher) & Admin can update counseling hour	Functional	Medium

## **Chapter III**

### **REQUIREMENTS ANALYSIS**

## Chapter 3:

### 3.1 Use Case Diagram:

#### 3.1.1 Use Case Diagram for Admin:

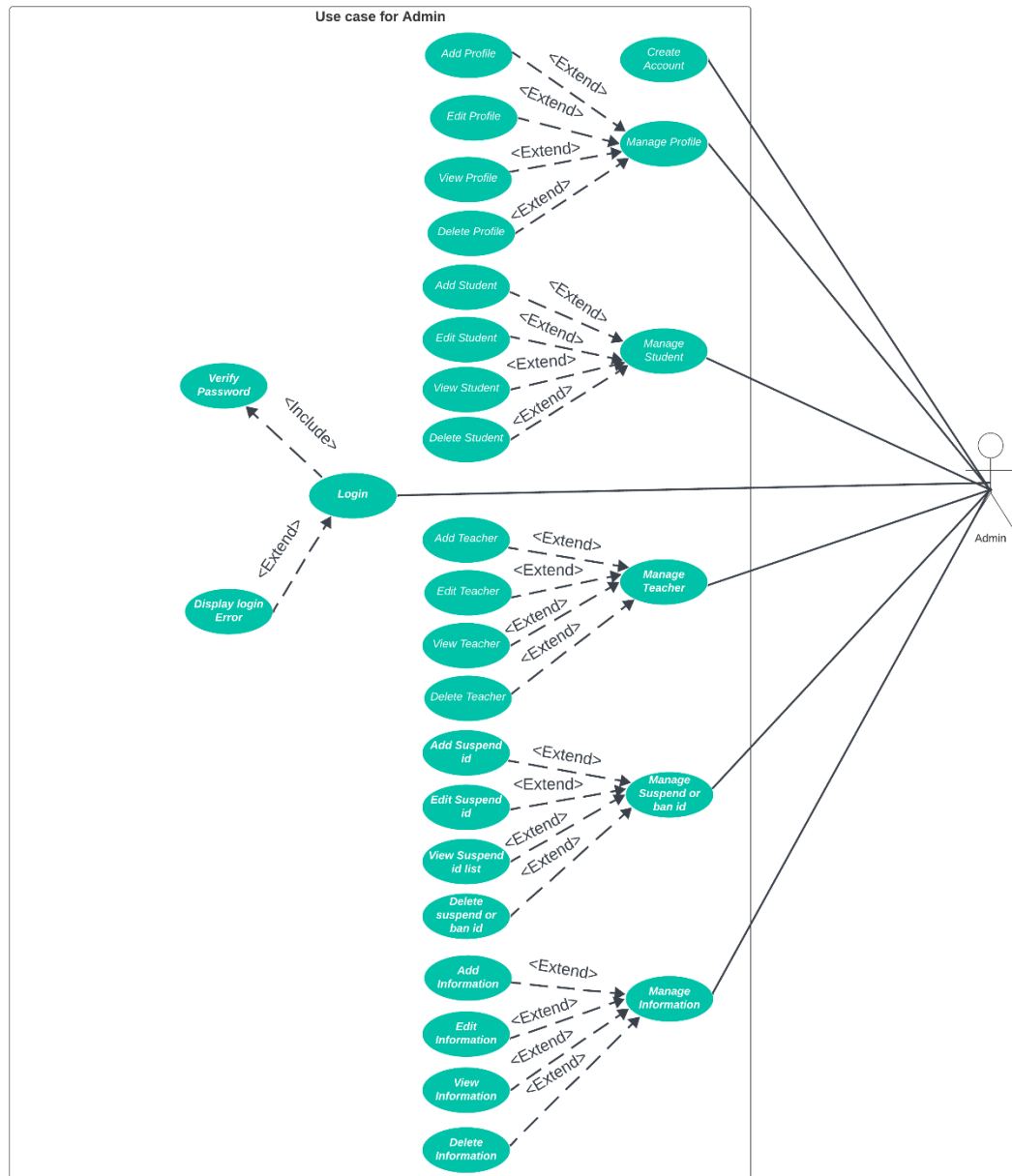


Figure 3.1.1: Use Case Diagram for Admin

### 3.1.1.1 Use Case Description for Admin:

Use Case	Admin Role
<b>Goal</b>	Here admin can manage profile, teacher, student, suspend id, and information.
<b>Preconditions</b>	Authenticated is mandatory by email and password  Admin should be user
<b>Post Condition</b>	They can view, create and update data.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change data.
<b>Description:</b>	Admin will view, create and update data of profile, teacher, student, suspend id, information.
<b>Alternative Flows</b>	N/A

**Use Case Description for Admin manage profile:**

<b>Use Case</b>	<b>Admin Role</b>
<b>Goal</b>	Manage profile
<b>Preconditions</b>	Login must  Admin will be user here
<b>Post Condition</b>	They can view report, add or delete and update data.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change or add data.
<b>Description:</b>	Admin will view, create and update data of profile.
<b>Alternative Flows</b>	N/A

**Use Case Description for Admin manage student:**

<b>Use Case</b>	<b>Admin Role</b>
<b>Goal</b>	Manage student
<b>Preconditions</b>	Registered and login need  User is Admin
<b>Post Condition</b>	Admin can view report, add or delete and update data.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change or add data.
<b>Description:</b>	Admin will view, create and update data of student.
<b>Alternative Flows</b>	N/A



**Use Case Description for Admin manage teacher:**

<b>Use Case</b>	<b>Admin Role</b>
<b>Goal</b>	Manage teacher
<b>Preconditions</b>	Login  User: Admin
<b>Post Condition</b>	They can view, create and update data.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change or add data.
<b>Description:</b>	Admin will view, create and update data of teacher.
<b>Alternative Flows</b>	N/A

**Use Case Description for Admin manage suspend or ban id:**

<b>Use Case</b>	<b>Admin Role</b>
<b>Goal</b>	Manage suspend or ban id
<b>Preconditions</b>	Authenticated and login  User should be Admin
<b>Post Condition</b>	Can view, create and update Suspend id.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change or add data.
<b>Description:</b>	Admin will view, create and update data of suspend id.
<b>Alternative Flows</b>	N/A

**Use Case Description for Admin manage information:**

<b>Use Case</b>	<b>Admin Role</b>
<b>Goal</b>	Manage information
<b>Preconditions</b>	Login with email and password  Admin will use this
<b>Post Condition</b>	Admin can view, create and update information.
<b>Primary Actors:</b>	Admin
<b>Secondary Actors:</b>	Author
<b>Trigger</b>	Change or add data.
<b>Description:</b>	Admin will view, create and update data of information.
<b>Alternative Flows</b>	N/A

### 3.1.2 Use Case Diagram for Teacher:

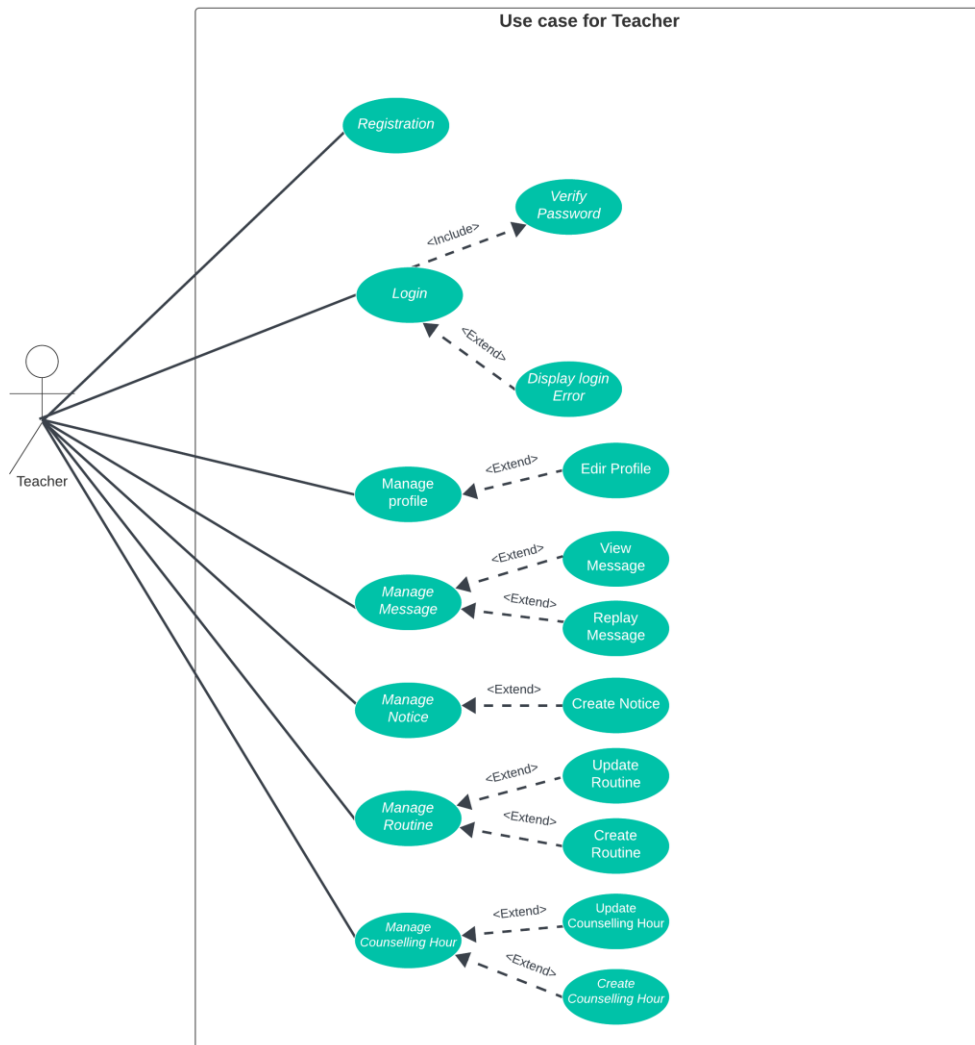


Figure 3.1.2: Use Case Diagram for Teacher

### 3.1.2.1 Use Case Description for Teacher:

Use Case	Teacher Role
<b>Goal</b>	To create counseling hour, routine, notice and manage profile & conversation.
<b>Preconditions</b>	Authenticated by email or id and password User: Teacher
<b>Post Condition</b>	Create, update or delete
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Provide information
<b>Description:</b>	User can create or update counseling hour, create or update routine, create or update notice.
<b>Alternative Flows</b>	N/A

**Use Case Description for Teacher manage counseling hour:**

<b>Use Case</b>	<b>Teacher Role</b>
<b>Goal</b>	Manage counseling hour counseling hour
<b>Preconditions</b>	Login need  Teacher will use
<b>Post Condition</b>	Create, update or delete
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Provide information
<b>Description:</b>	User can create or update counseling hour.
<b>Alternative Flows</b>	N/A

**Use Case Description for Teacher manage routine:**

<b>Use Case</b>	<b>Teacher Role</b>
<b>Goal</b>	Manage routine
<b>Preconditions</b>	Login  User: Teacher
<b>Post Condition</b>	Create, update or delete
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Provide information
<b>Description:</b>	User can create or update routine.
<b>Alternative Flows</b>	N/A

**Use Case Description for Teacher manage notice:**

<b>Use Case</b>	<b>Teacher Role</b>
<b>Goal</b>	Manage notice
<b>Preconditions</b>	Registered then login need  User is Teacher
<b>Post Condition</b>	Create, update or delete
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Announce information
<b>Description:</b>	User can brief here any kind of notice.
<b>Alternative Flows</b>	N/A



**Use Case Description for Teacher manage profile:**

<b>Use Case</b>	<b>Teacher Role</b>
<b>Goal</b>	Manage profile
<b>Preconditions</b>	Login  User will be Teacher
<b>Post Condition</b>	Update profile
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Update profile
<b>Description:</b>	User can update their profile
<b>Alternative Flows</b>	N/A

**Use Case Description for Teacher manage conversation:**

<b>Use Case</b>	<b>Teacher Role</b>
<b>Goal</b>	Manage conversation.
<b>Preconditions</b>	Need login here  User is Teacher here
<b>Post Condition</b>	Send and receive messages
<b>Primary Actors:</b>	Teacher
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Send messages
<b>Description:</b>	User can conversation to others
<b>Alternative Flows</b>	N/A

### 3.1.3 Use Case Diagram for Student:

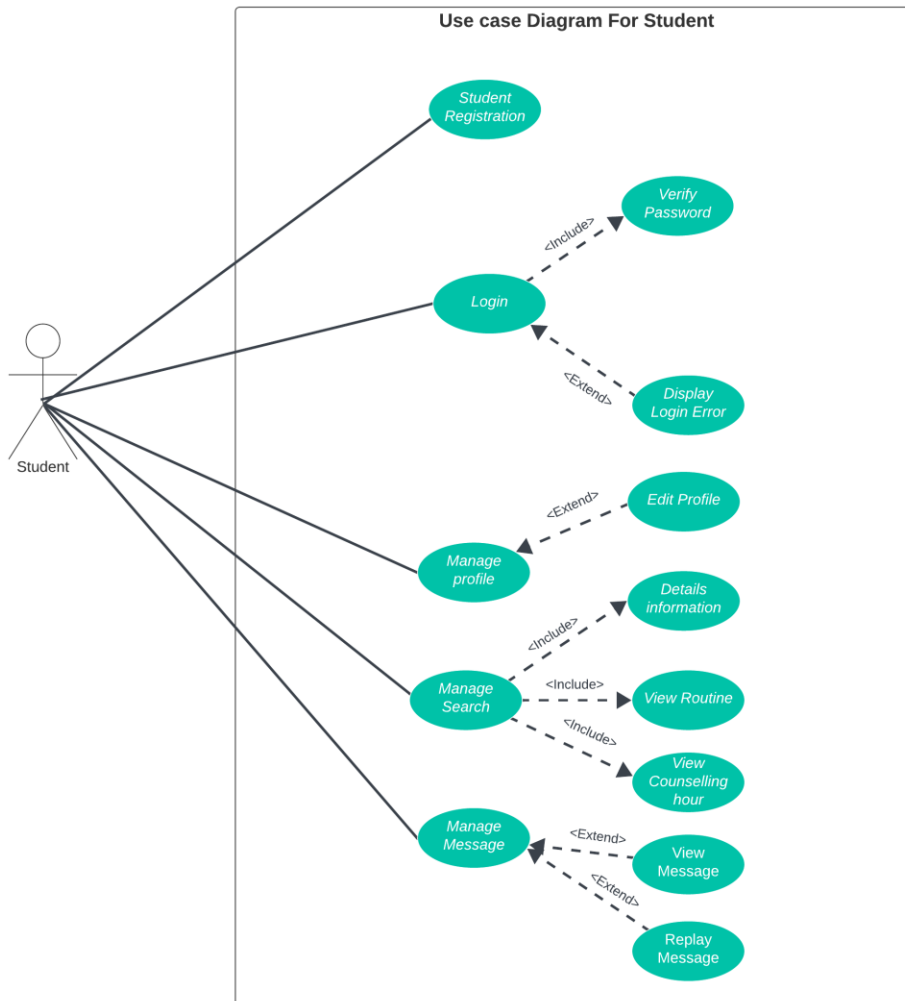


Figure 3.1.3: Use Case Diagram for Student

### 3.1.3.1 Use Case Description for Student:

Use Case	Student Role
<b>Goal</b>	To view routine, counseling hour and do conversation with teacher.
<b>Preconditions</b>	Login to the system  User type must be student
<b>Post Condition</b>	User can view information and do conversation with teacher.
<b>Primary Actors:</b>	Student
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Get information
<b>Description:</b>	User can communicate with teacher and get information about teacher.
<b>Alternative Flows</b>	N/A

**Use Case Description for Student manage profile:**

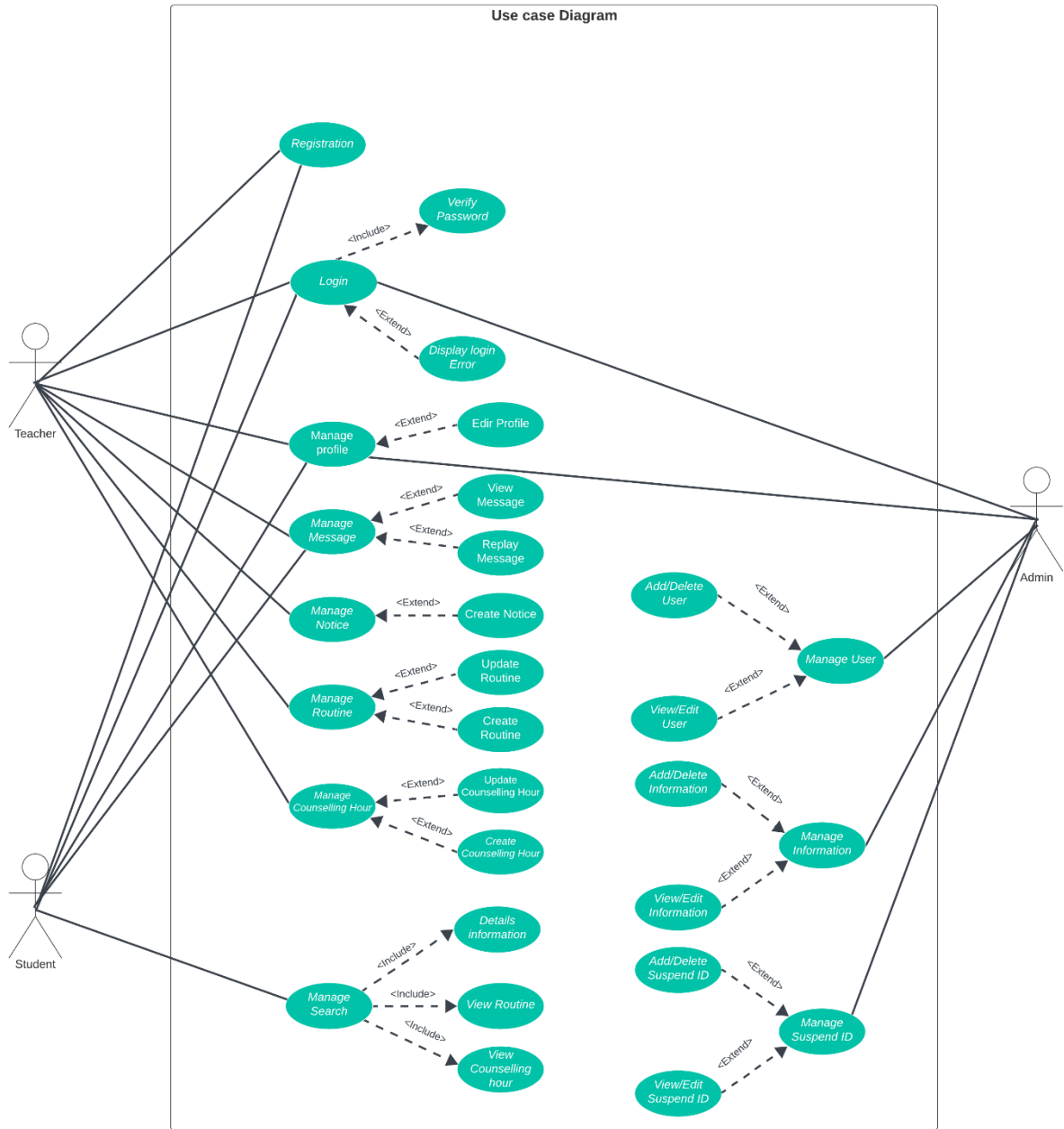
<b>Use Case</b>	<b>Student Role</b>
<b>Goal</b>	Manage profile
<b>Preconditions</b>	Authenticated with email or id and user password User type Student
<b>Post Condition</b>	Update profile
<b>Primary Actors:</b>	Student
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Update profile
<b>Description:</b>	User can update their profile
<b>Alternative Flows</b>	N/A

**Use Case Description for Student manage conversation:**

<b>Use Case</b>	<b>Student Role</b>
<b>Goal</b>	Manage conversation.
<b>Preconditions</b>	Must be login  User type must be Student
<b>Post Condition</b>	Send and receive messages
<b>Primary Actors:</b>	Student
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Send messages
<b>Description:</b>	User can conversation to others
<b>Alternative Flows</b>	N/A

**Use Case Description for Student:**

<b>Use Case</b>	<b>Student Role</b>
<b>Goal</b>	Search for getting information
<b>Preconditions</b>	Authorized login  User type must be Student
<b>Post Condition</b>	Get information
<b>Primary Actors:</b>	Student
<b>Secondary Actors:</b>	Admin
<b>Trigger</b>	Search
<b>Description:</b>	User can get information of teachers like routine, notice and counseling hour
<b>Alternative Flows</b>	N/A





**3.2 Activity Diagram:** This play a crucial role in software engineering by providing insights into the high-level program flow. Additionally, they enable engineers to identify bottlenecks or constraints that may be causing specific events within a system.

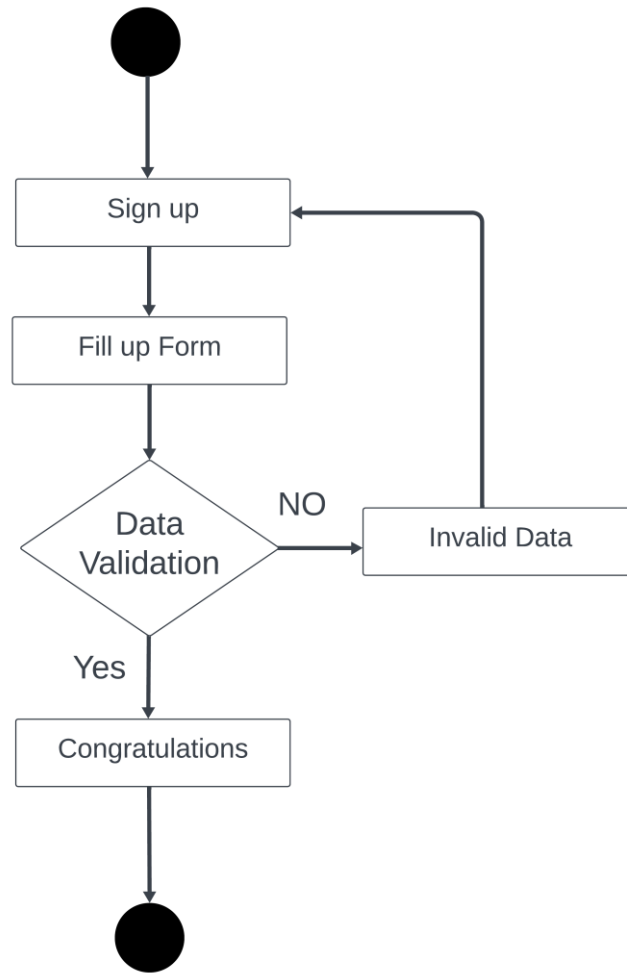


Figure 3.2.1: Activity diagram (User registration)

This figure represents the activity of user registration to continue to the dashboard of user.

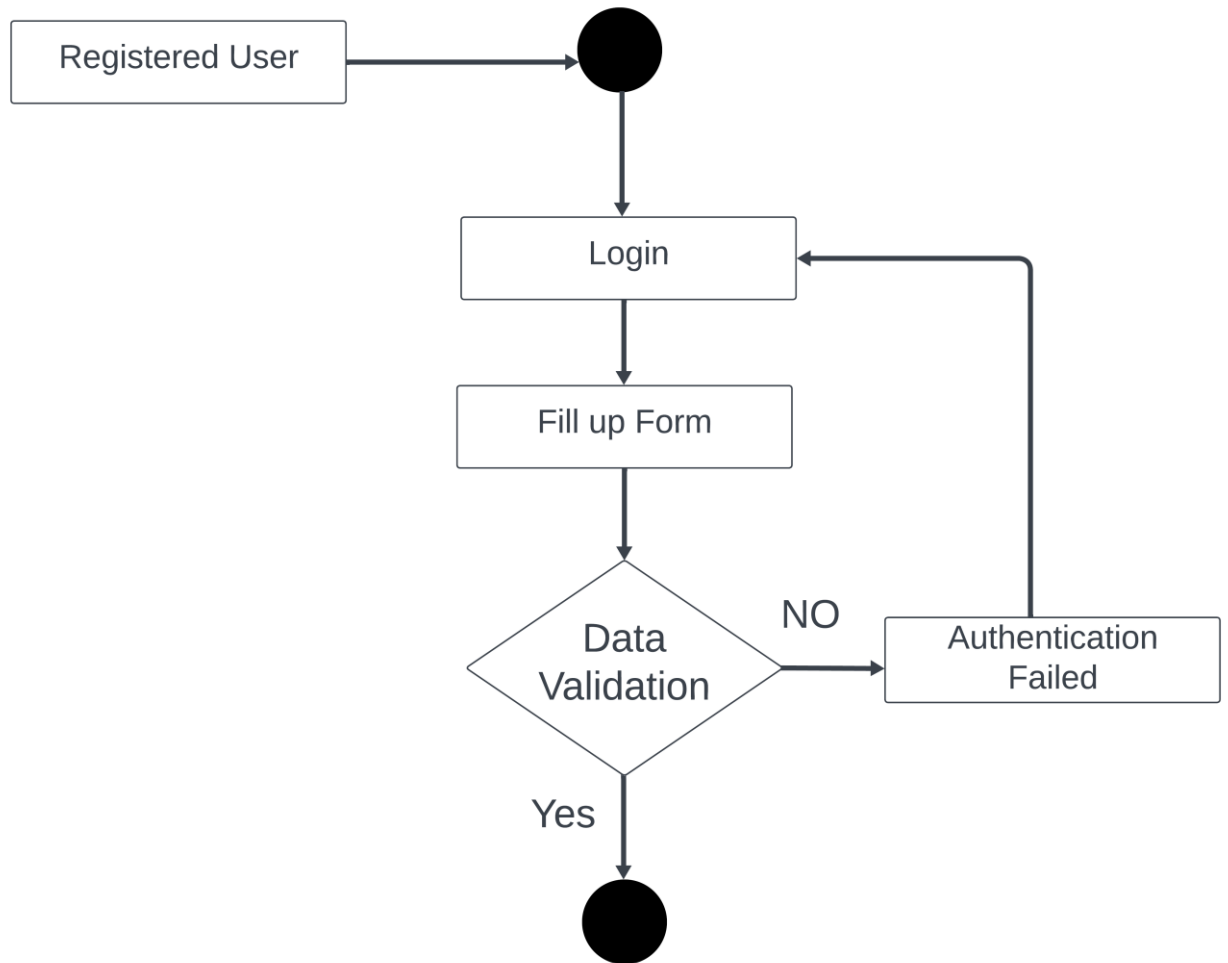


Figure 3.2.2: Activity diagram (User login)

This figure represents how will user login to the system.

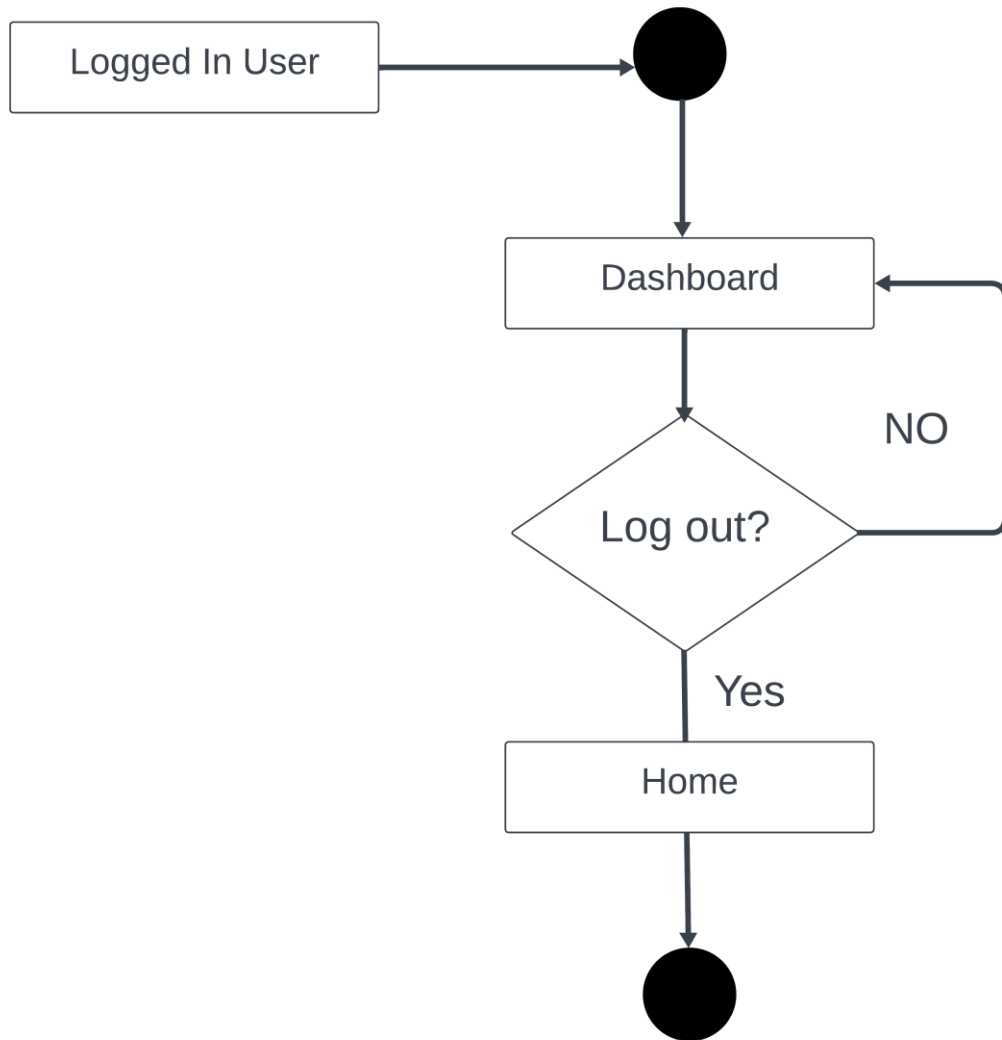


Figure 3.2.3: Activity diagram (User logout)

This figure represents how user will logout from the system.

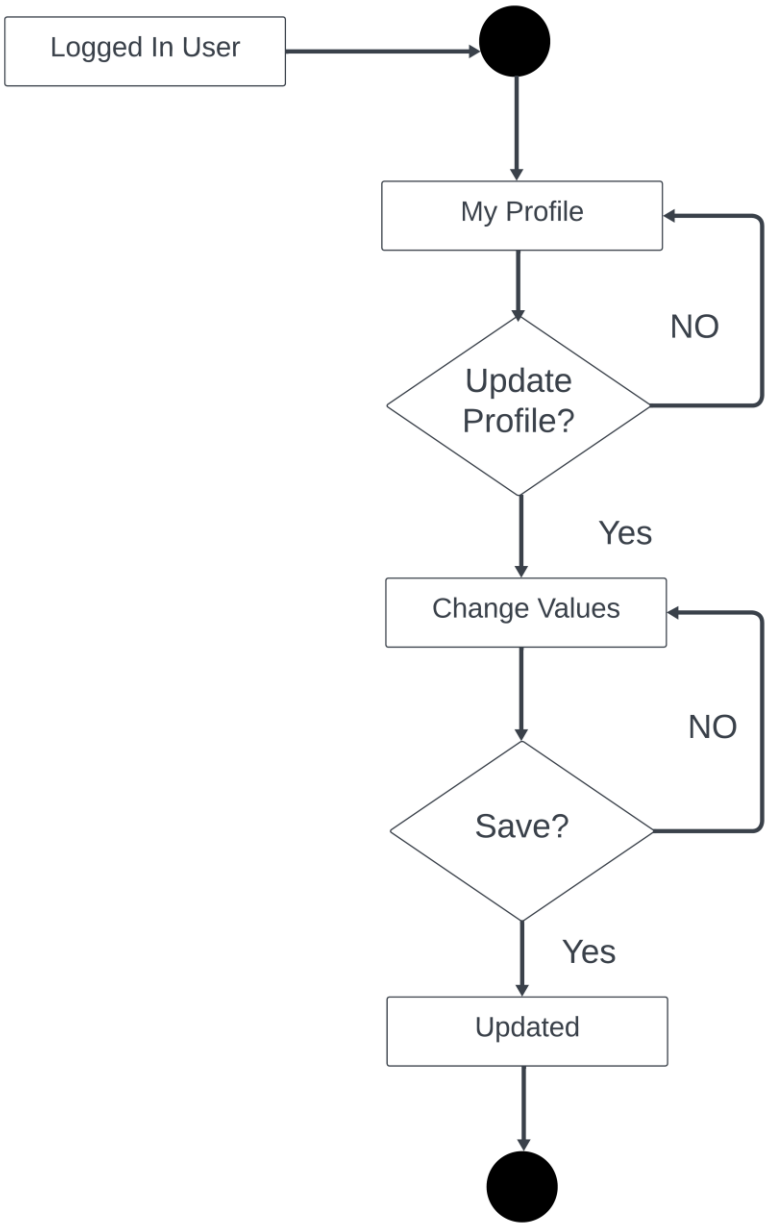


Figure 3.2.4: Activity diagram (User profile)

This figure represents the activity of user profile. While user create an account then their information will show by their profile.

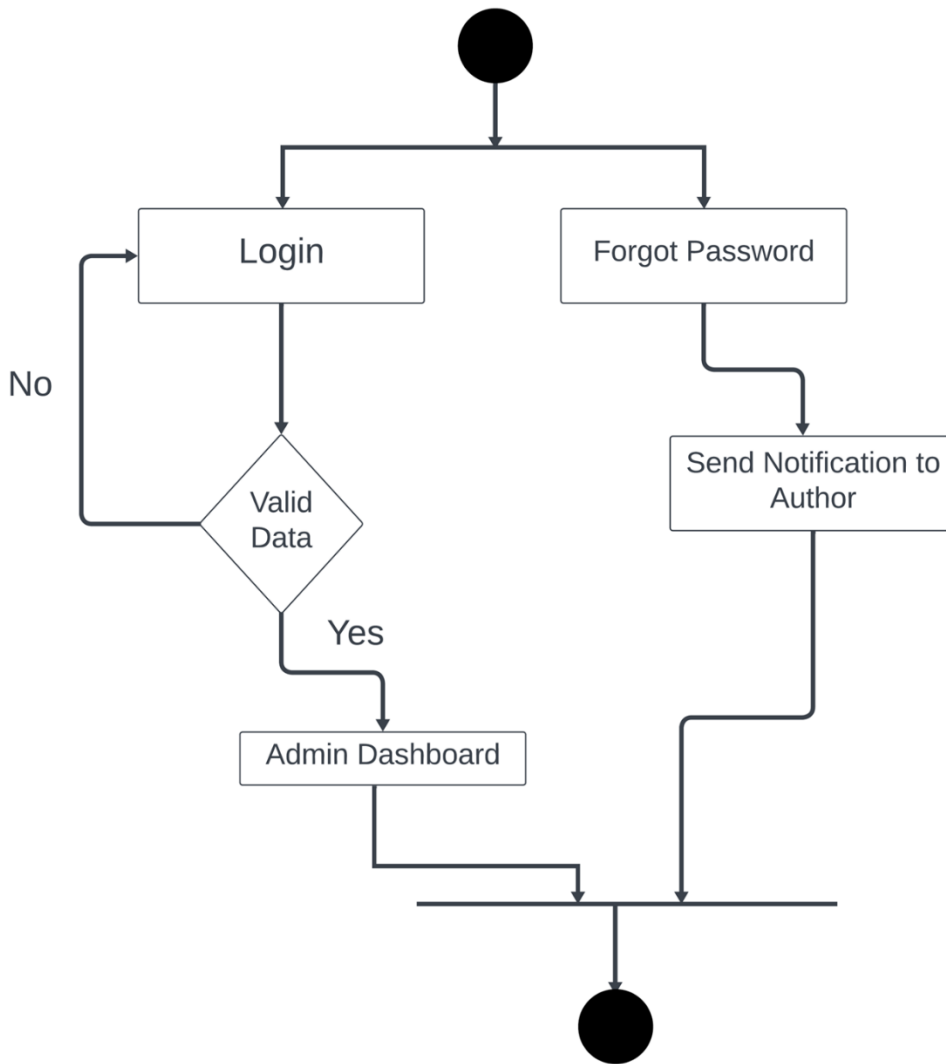


Figure 3.2.5: Activity diagram (Admin login)

This figure show how Admin will login to the system for manage their credential.

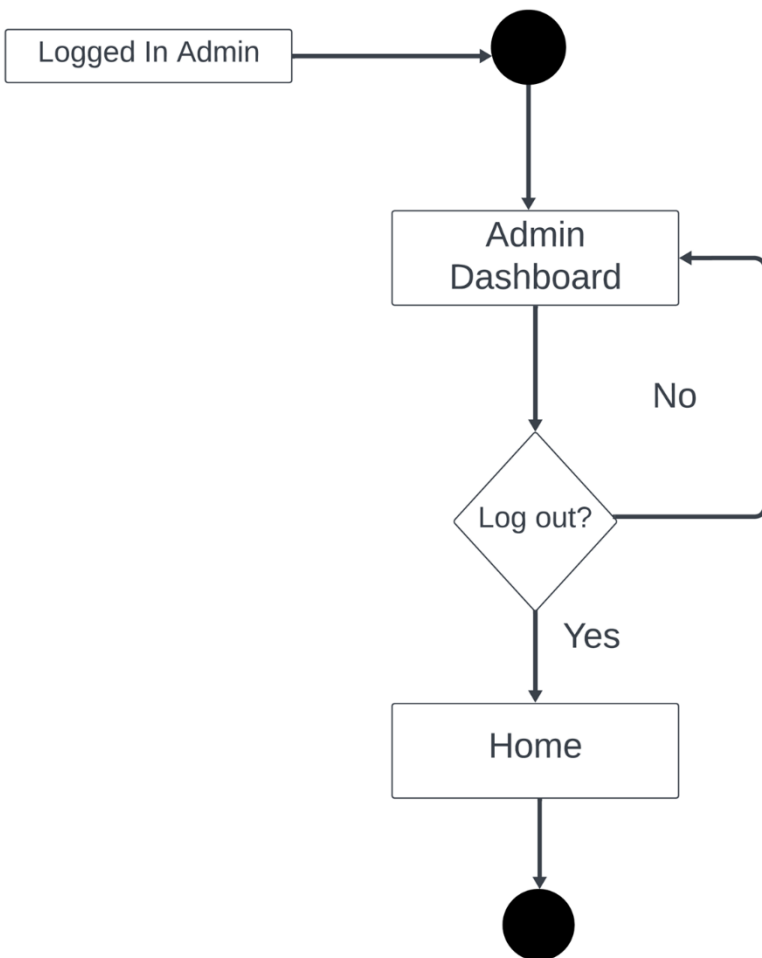


Figure 3.2.6: Activity diagram (Admin logout)

This figure show how Admin will logout from the system.

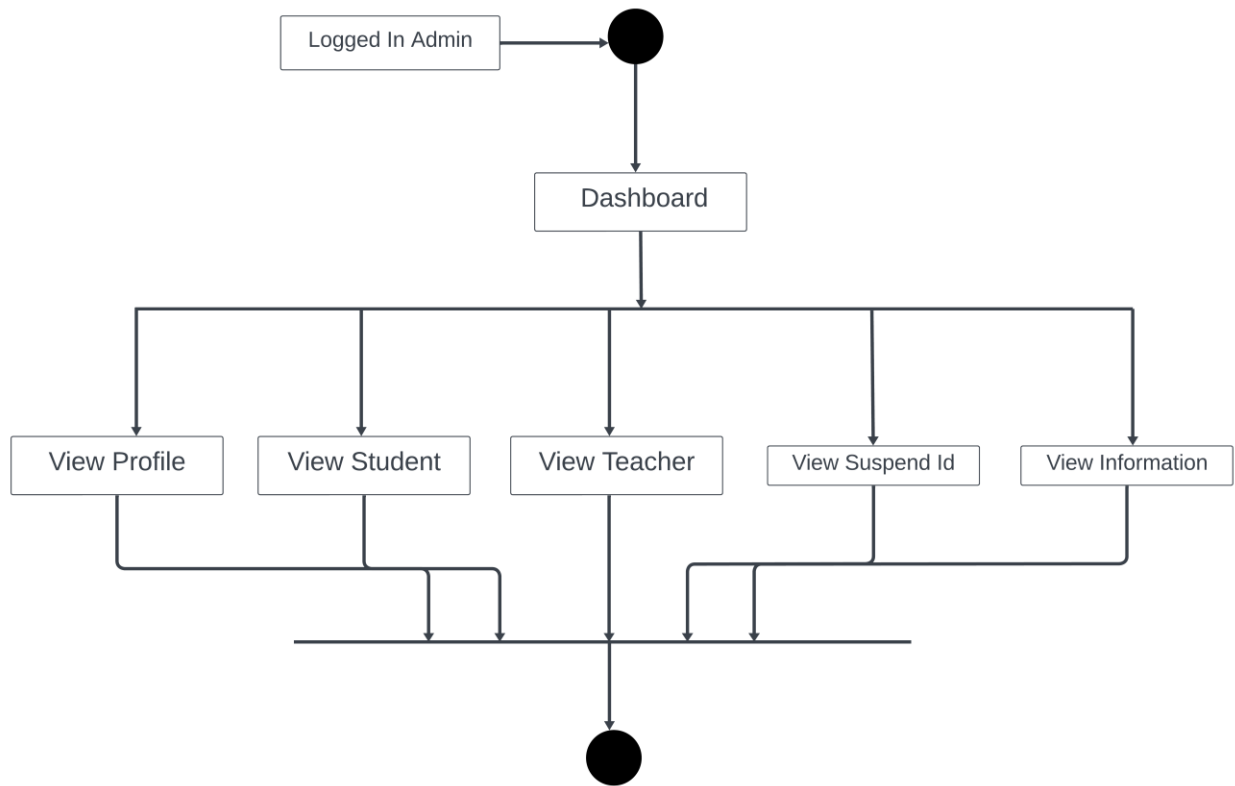


Figure 3.2.7: Activity diagram (Admin Dashboard)

This figure shows about admin dashboard. It also shows the role of admin.

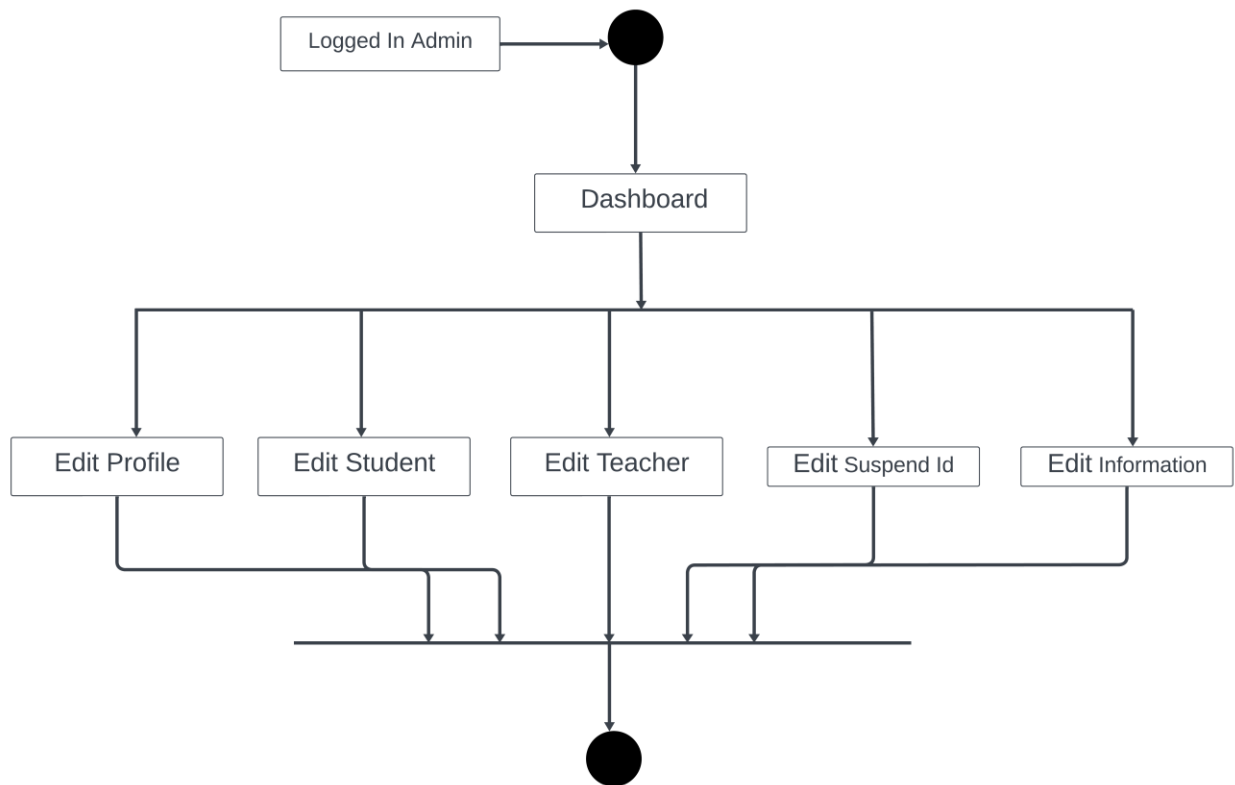


Figure 3.2.8: Activity diagram (Admin panel)

This figure shows about admin panel. It also shows what can do admin. For an example admin can edit profile, student, teacher, suspend id and information.



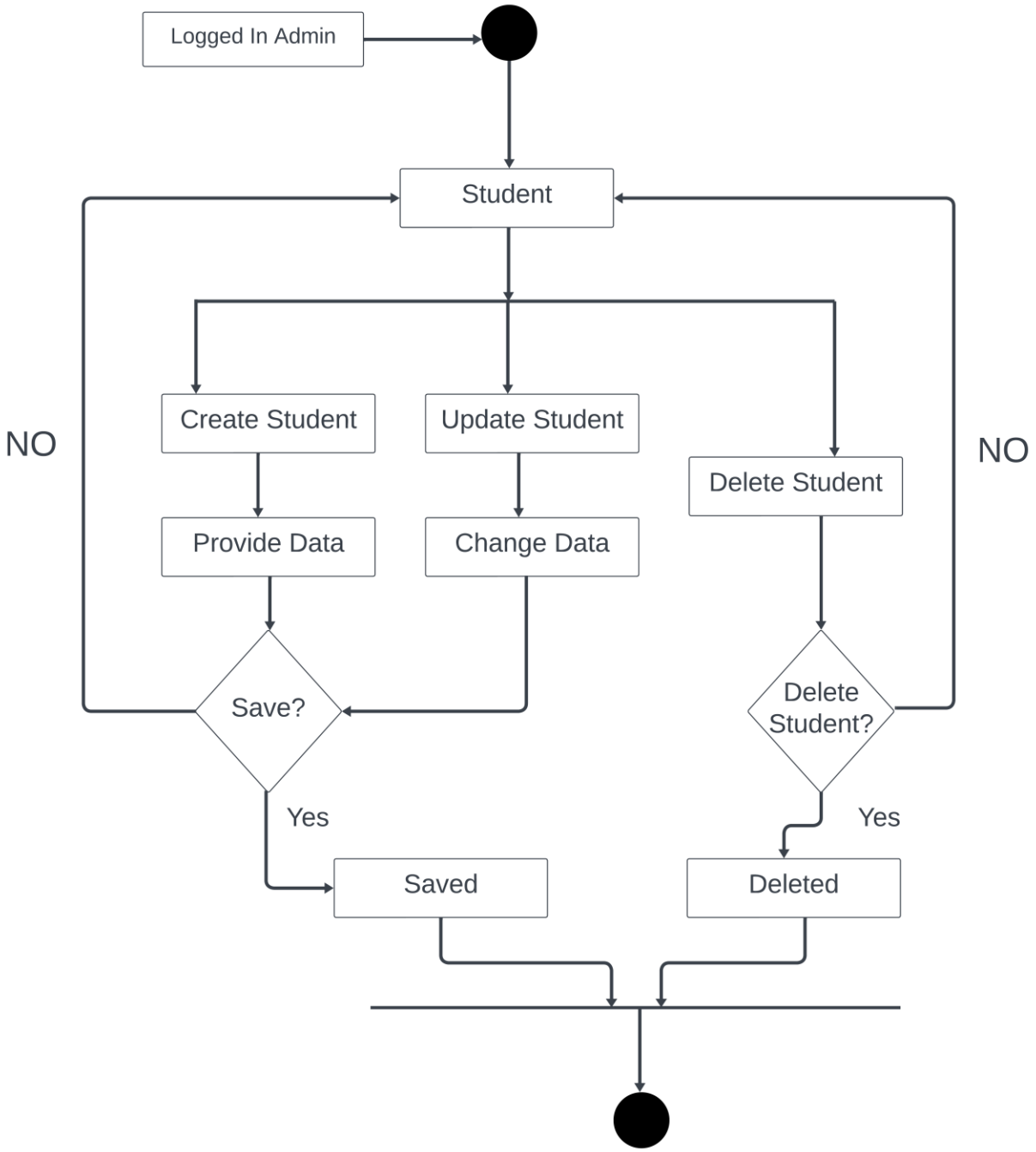


Figure 3.2.9: Activity diagram (Student control center)

This figure shows about student control panel. Basically, it represents how student will manage by admin.

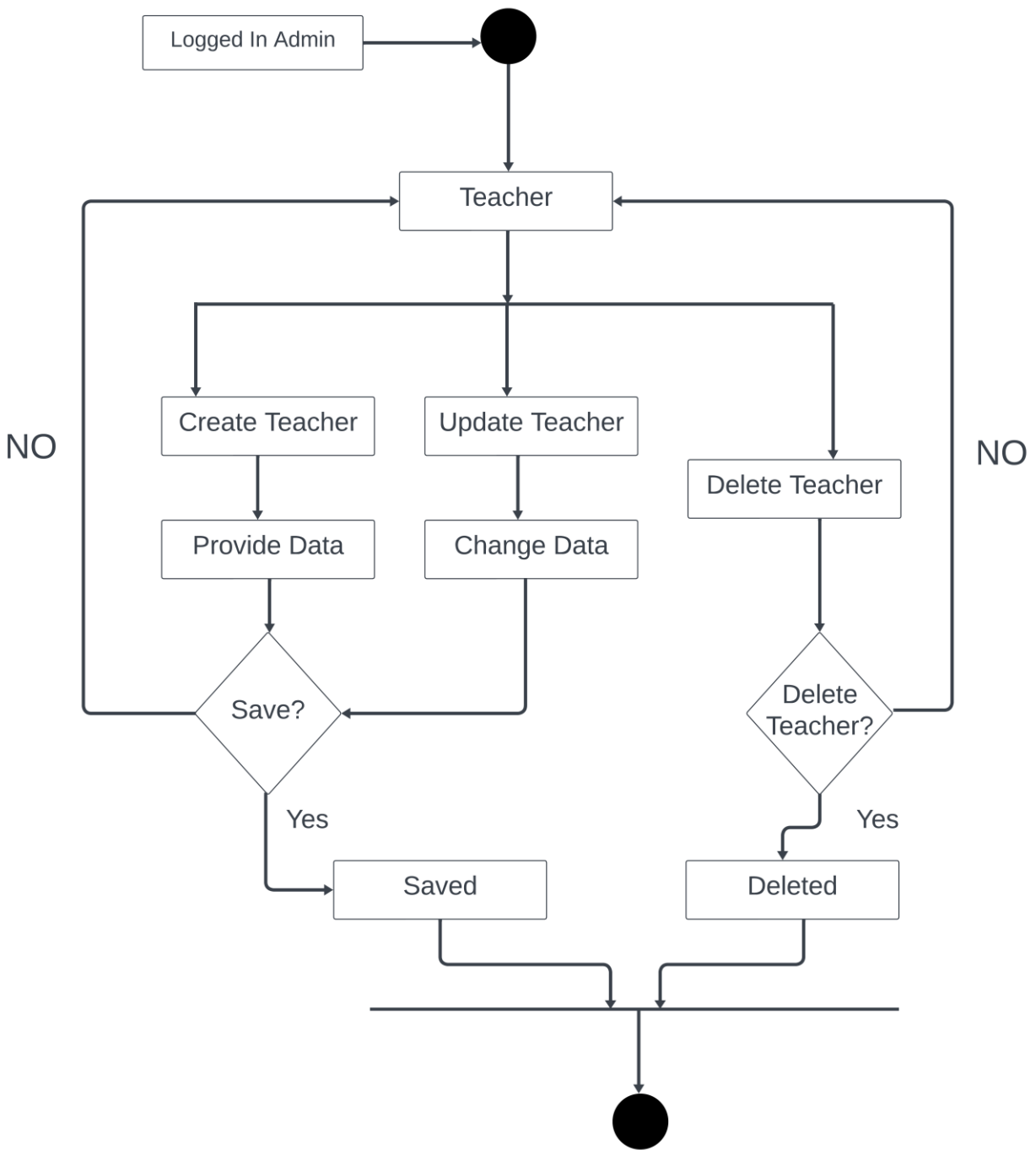


Figure 3.2.10: Activity diagram (Teacher control center by admin)

This figure shows about teacher control panel. Basically, it represents how teacher will manage by admin.

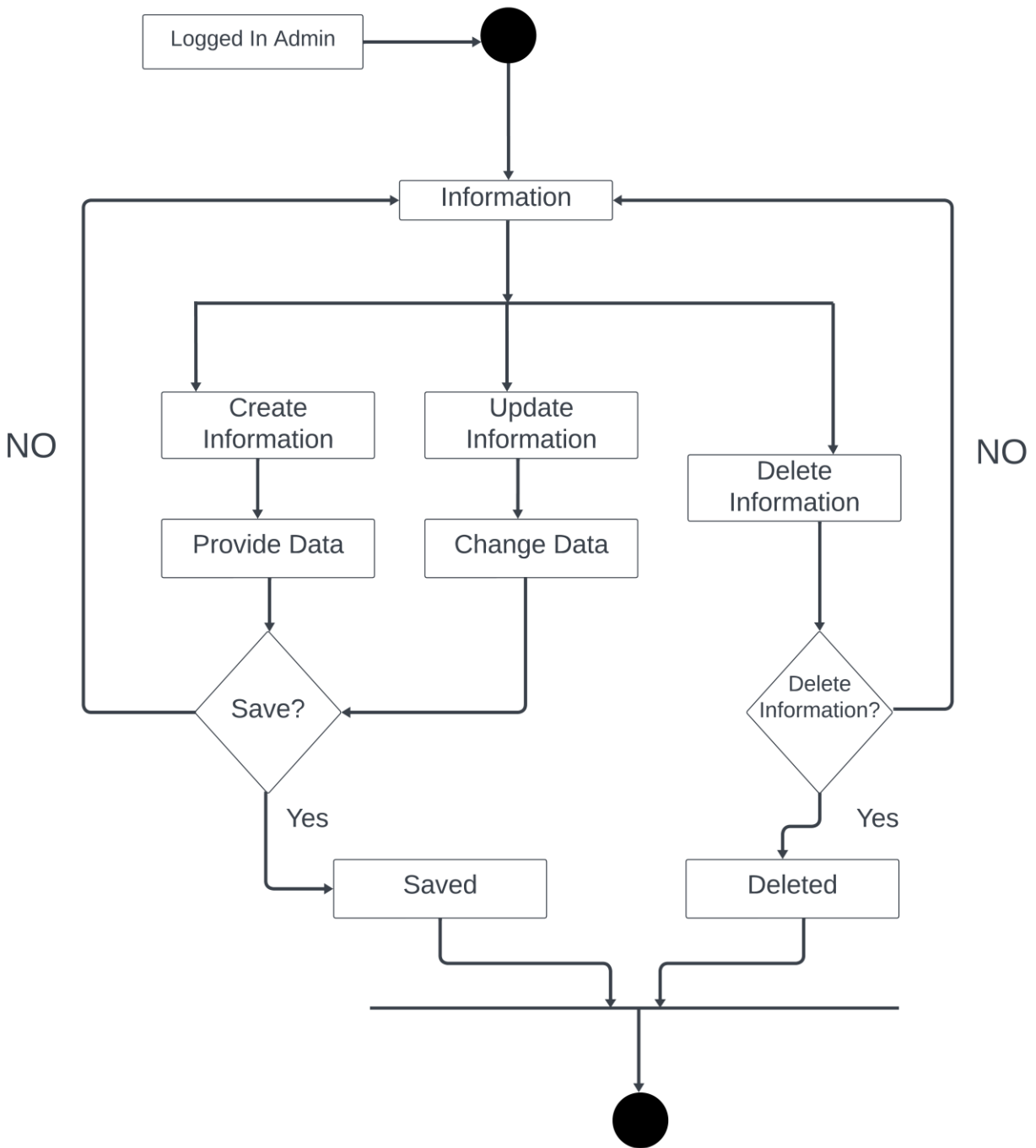


Figure 3.2.11: Activity diagram (Information control center by admin)

This figure shows about information control panel. Basically, it represents how information will manage by admin.

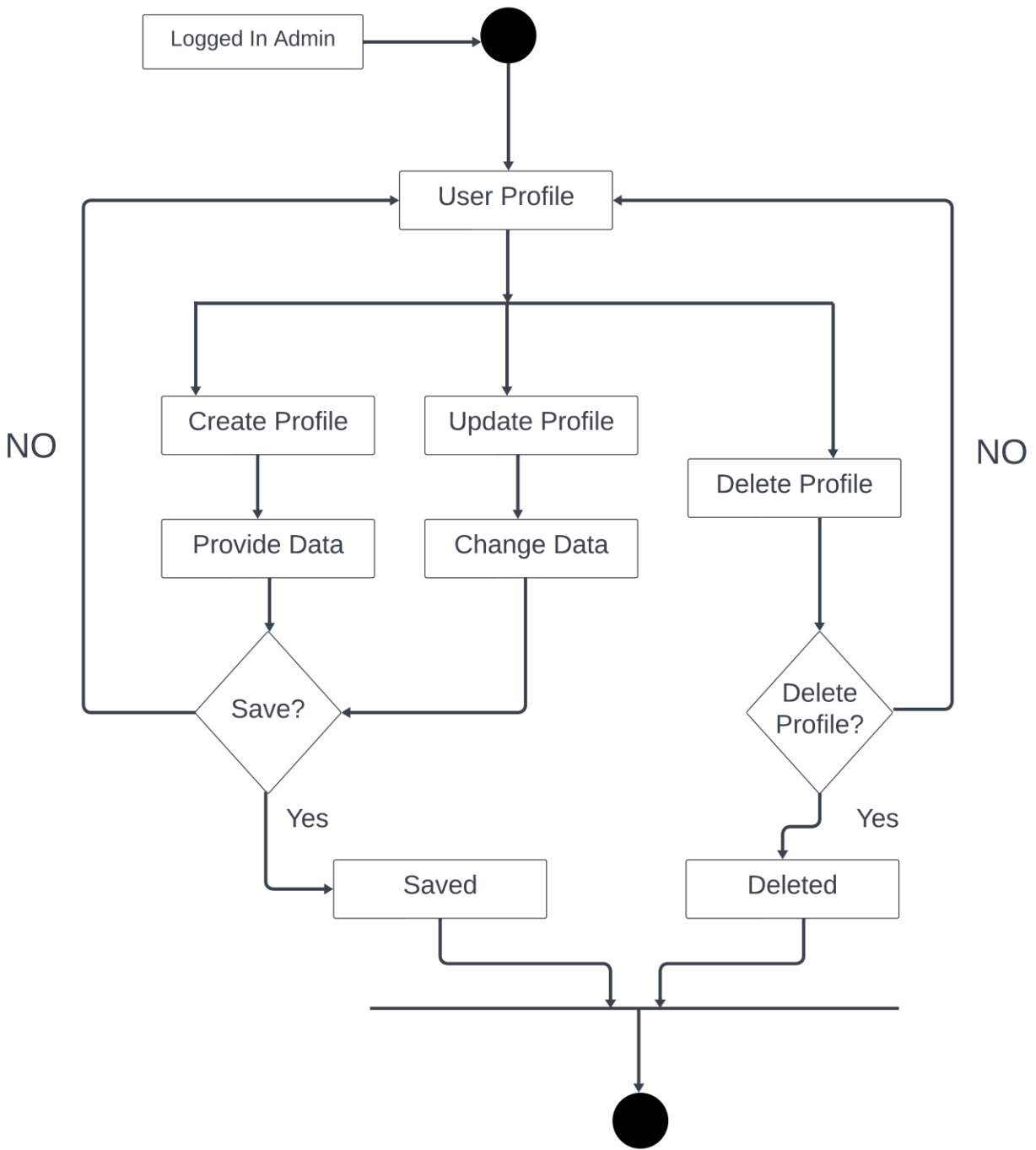


Figure 3.2.12: Activity diagram (User profile control center by admin)

This figure shows about user profile control panel. Basically, it represents how user profile will manage by admin.

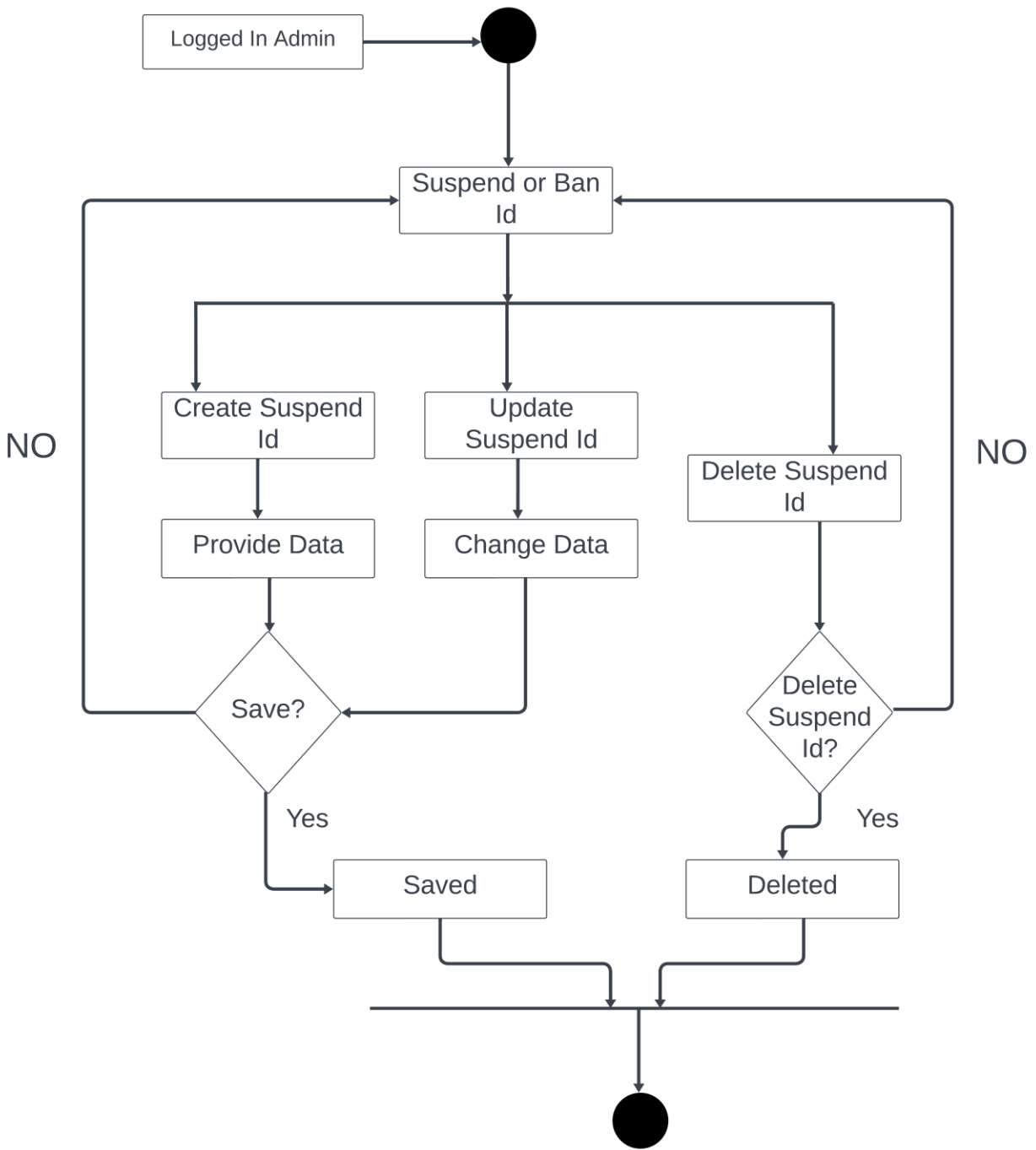


Figure 3.2.13: Activity diagram (Suspend id control center by admin)

This figure shows about suspend id control panel. Basically, it represents how suspend id will manage by admin.

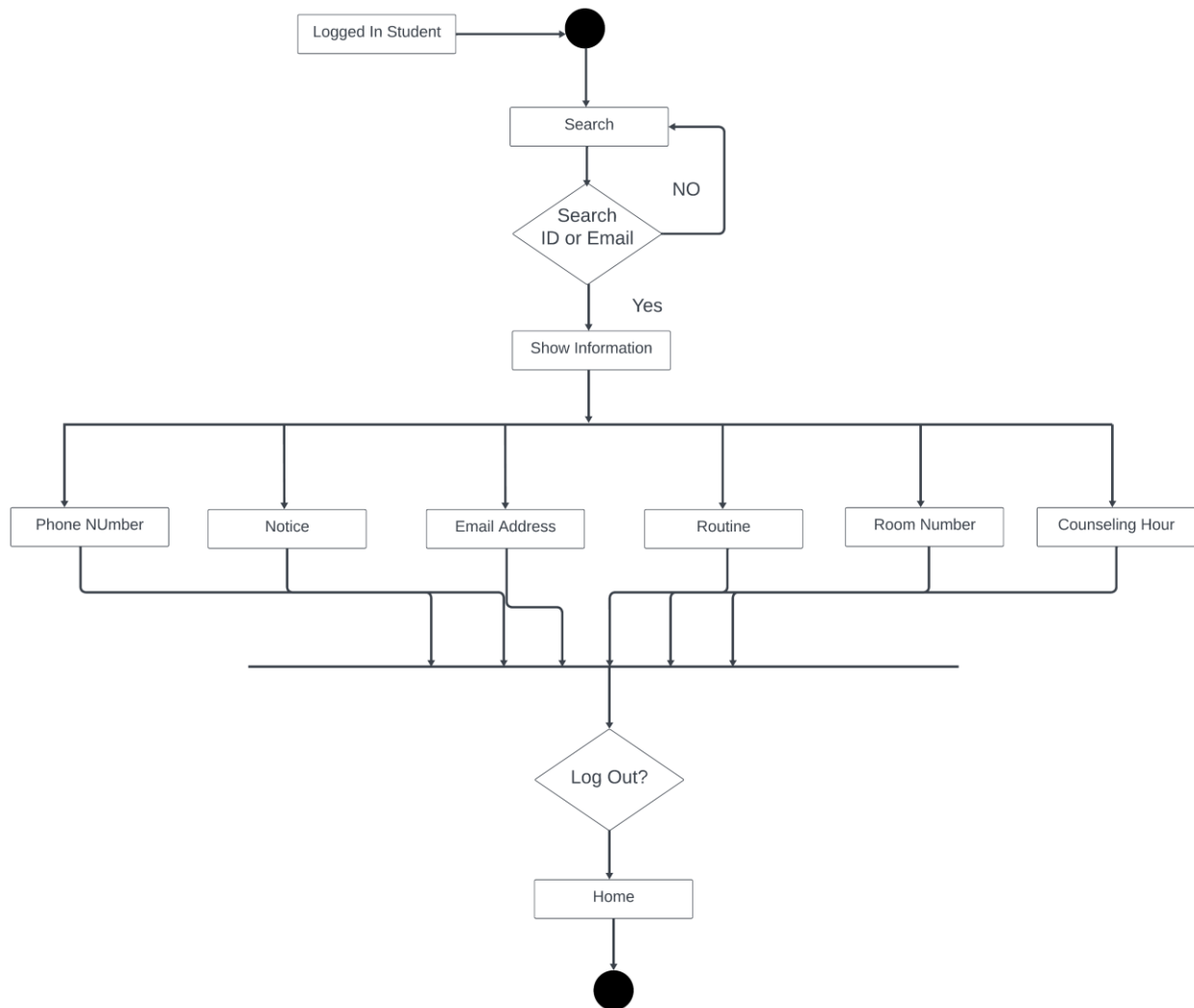


Figure 3.2.14: Activity diagram (Student search)

When student will search by teacher id then they can see information about teacher as like Routine, Notice, Phone number, Room number, Counseling hour And Email address.

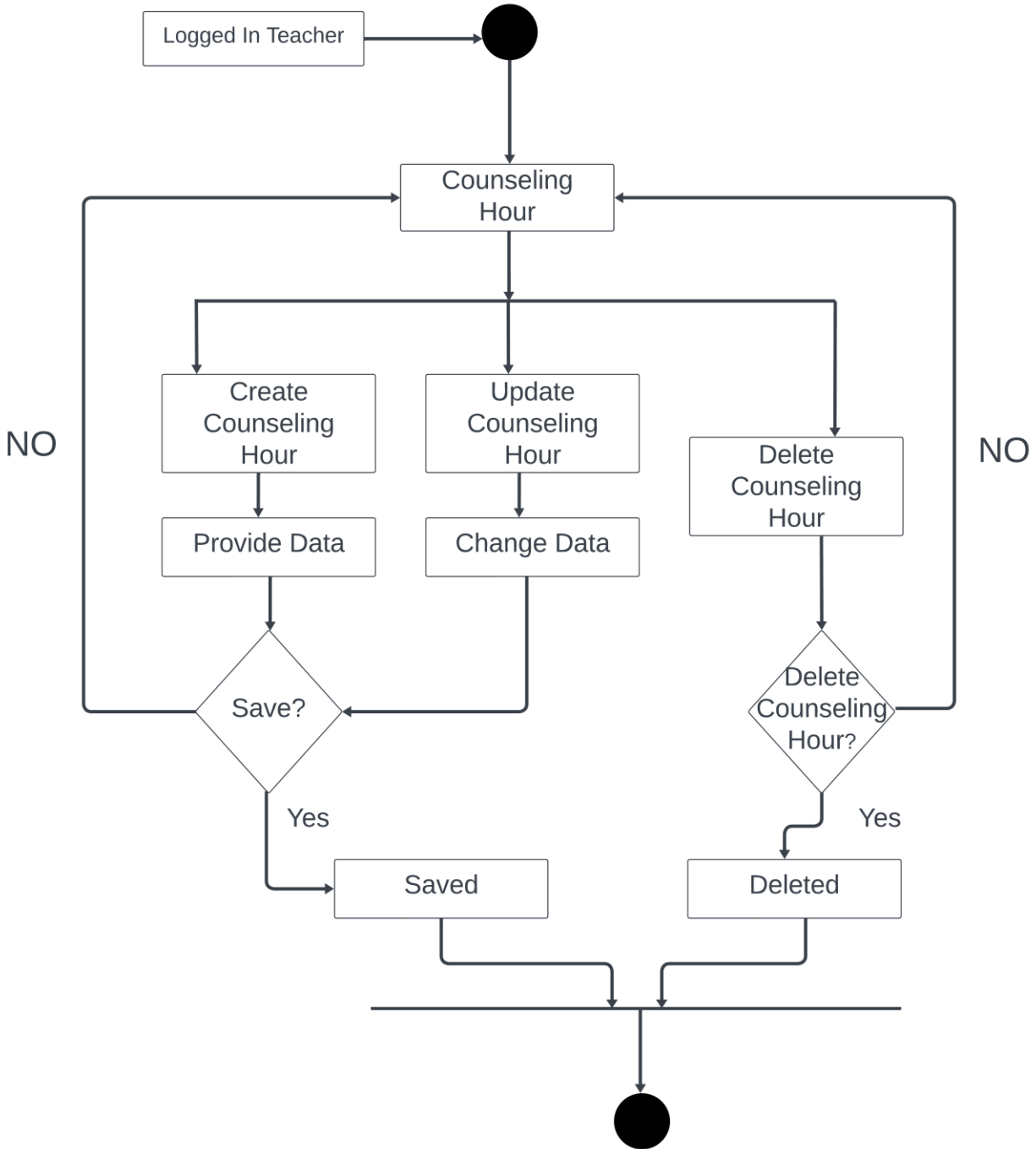


Figure 3.2.15: Activity diagram (Teacher counseling hour)

Student can see counseling hours of teacher so that they can communicate each other about course related problem.

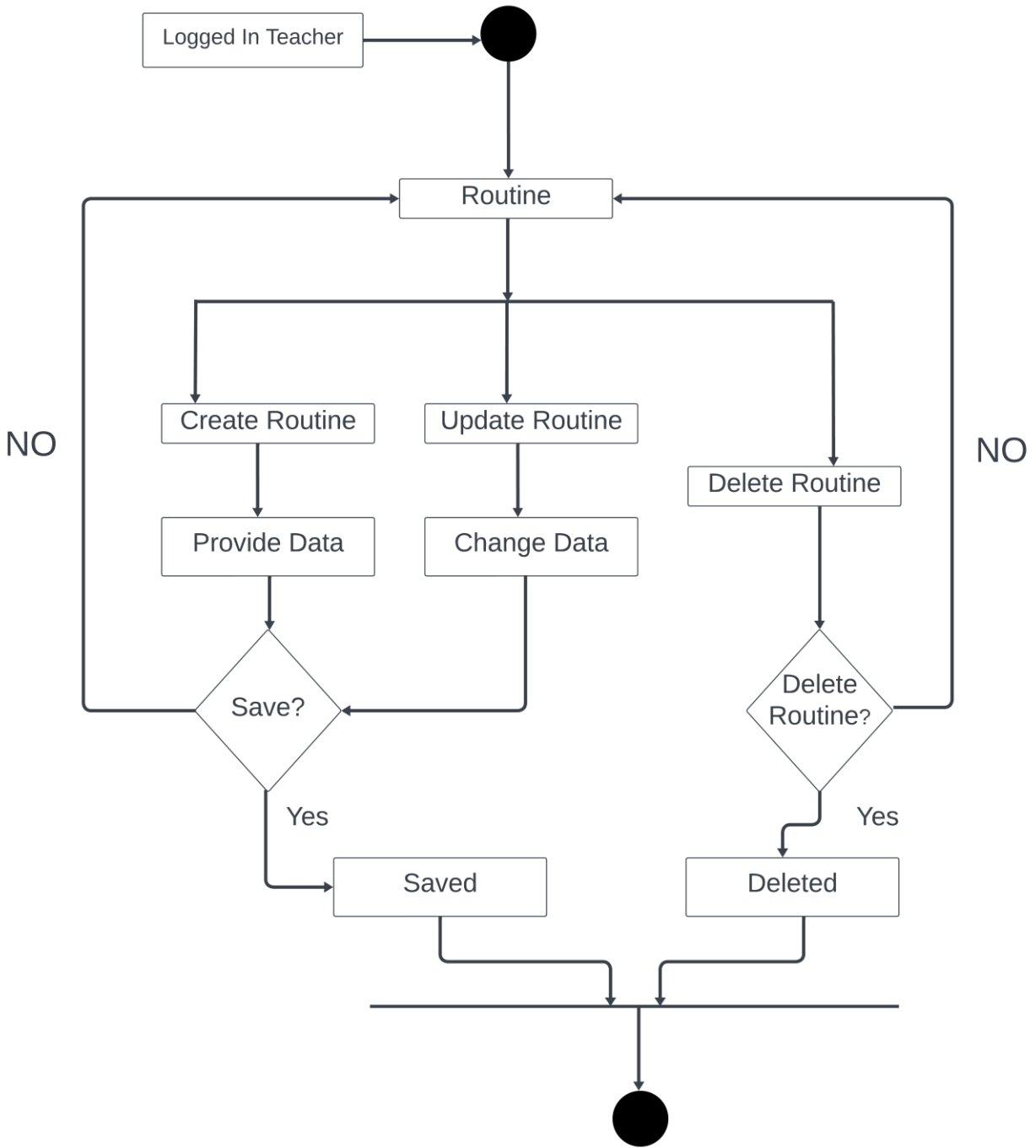


Figure 3.2.16: Activity diagram (Teacher routine)

This figure talks about student class time with no delay. So that student can attend there classes regularly.



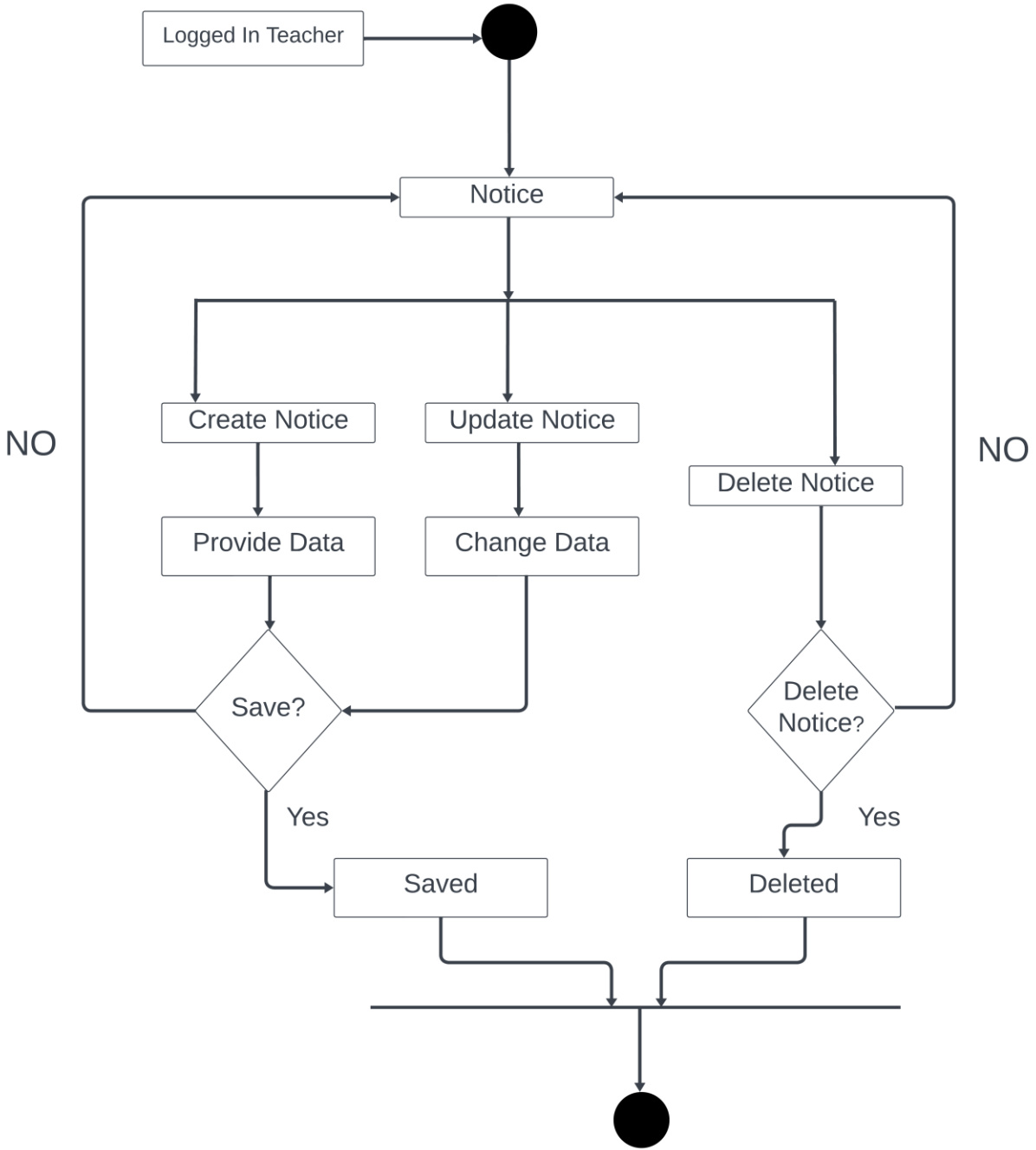


Figure 3.2.17: Activity diagram (Teacher notice)

While teacher have to brief about any topic then they can use this feature.

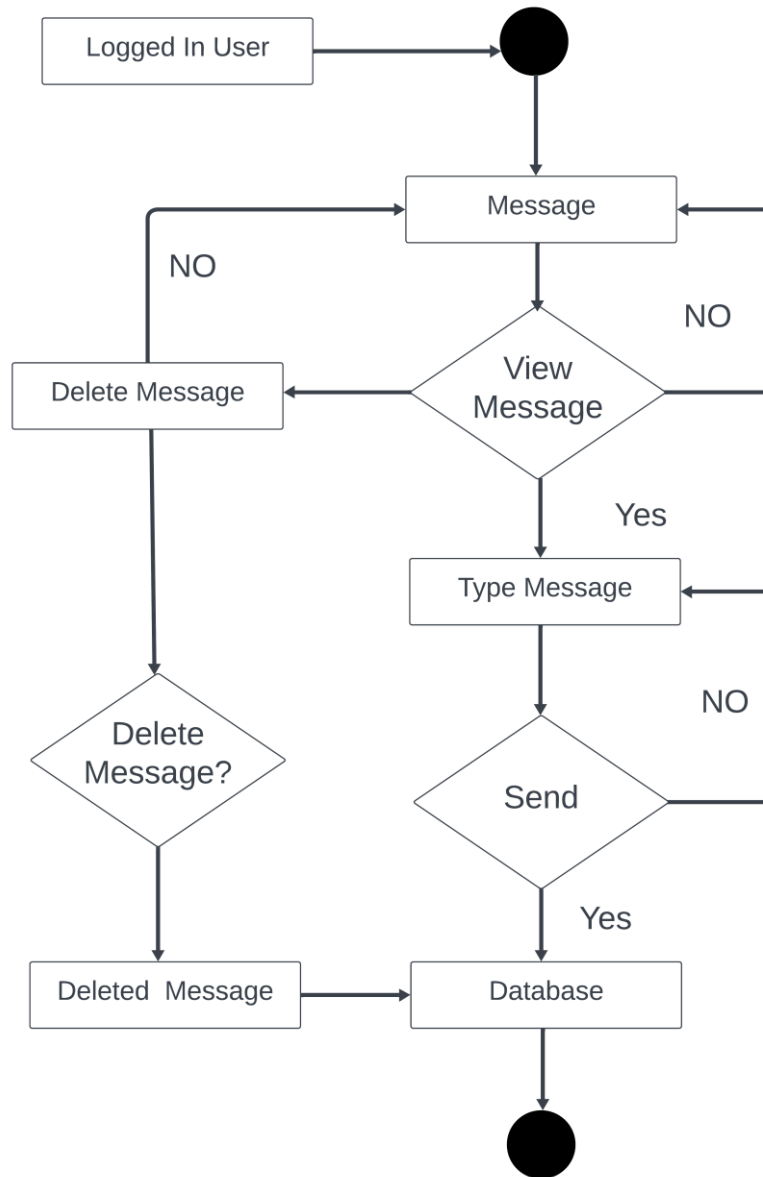


Figure 3.2.18: Activity diagram (User messages)

This figure shows way of conversation between teacher and student.

**3.3 Sequence diagram:** Basically I use this diagram to show how my system will work by follow a sequence .

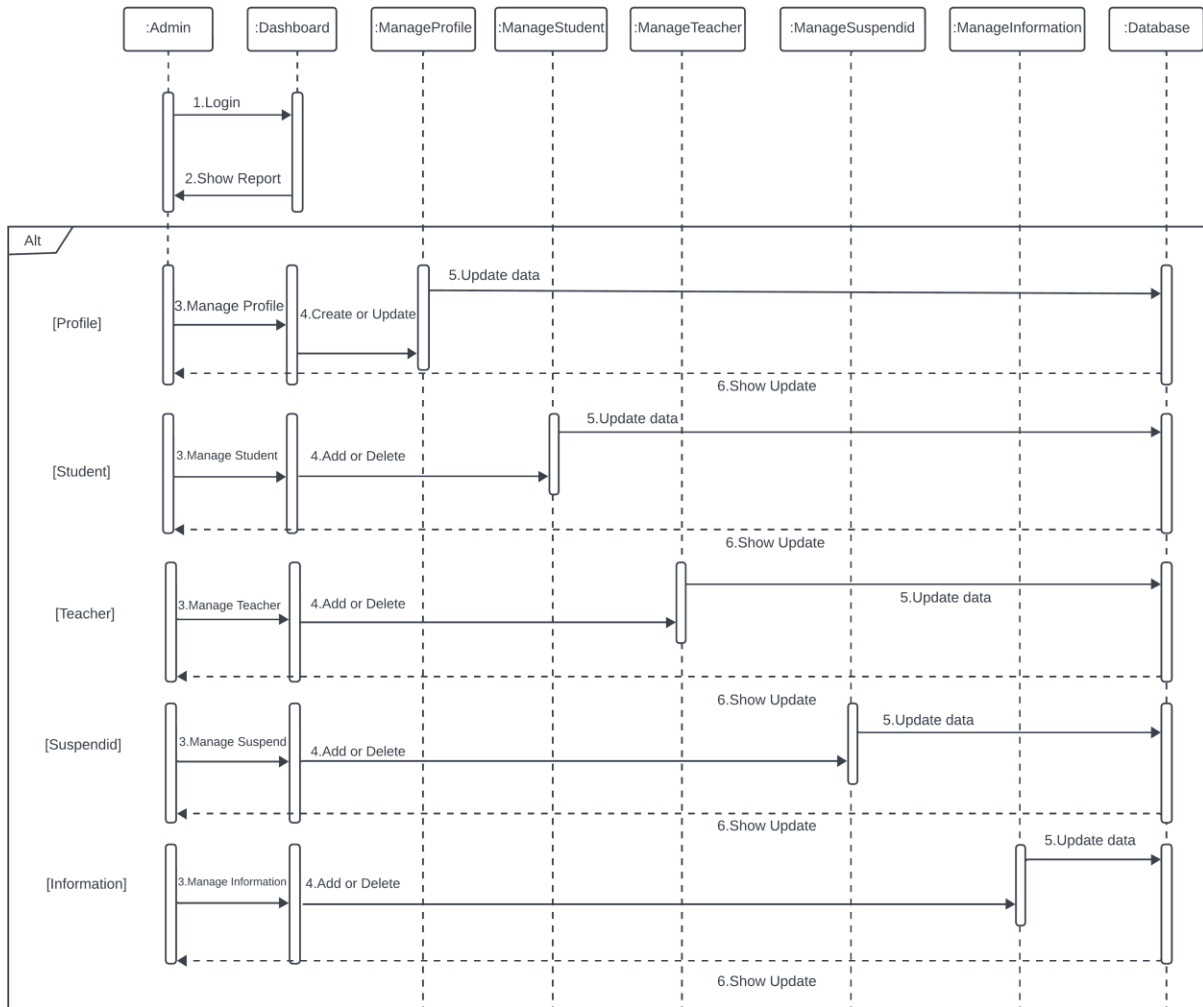


Figure 3.3.1: Sequence diagram (Admin)

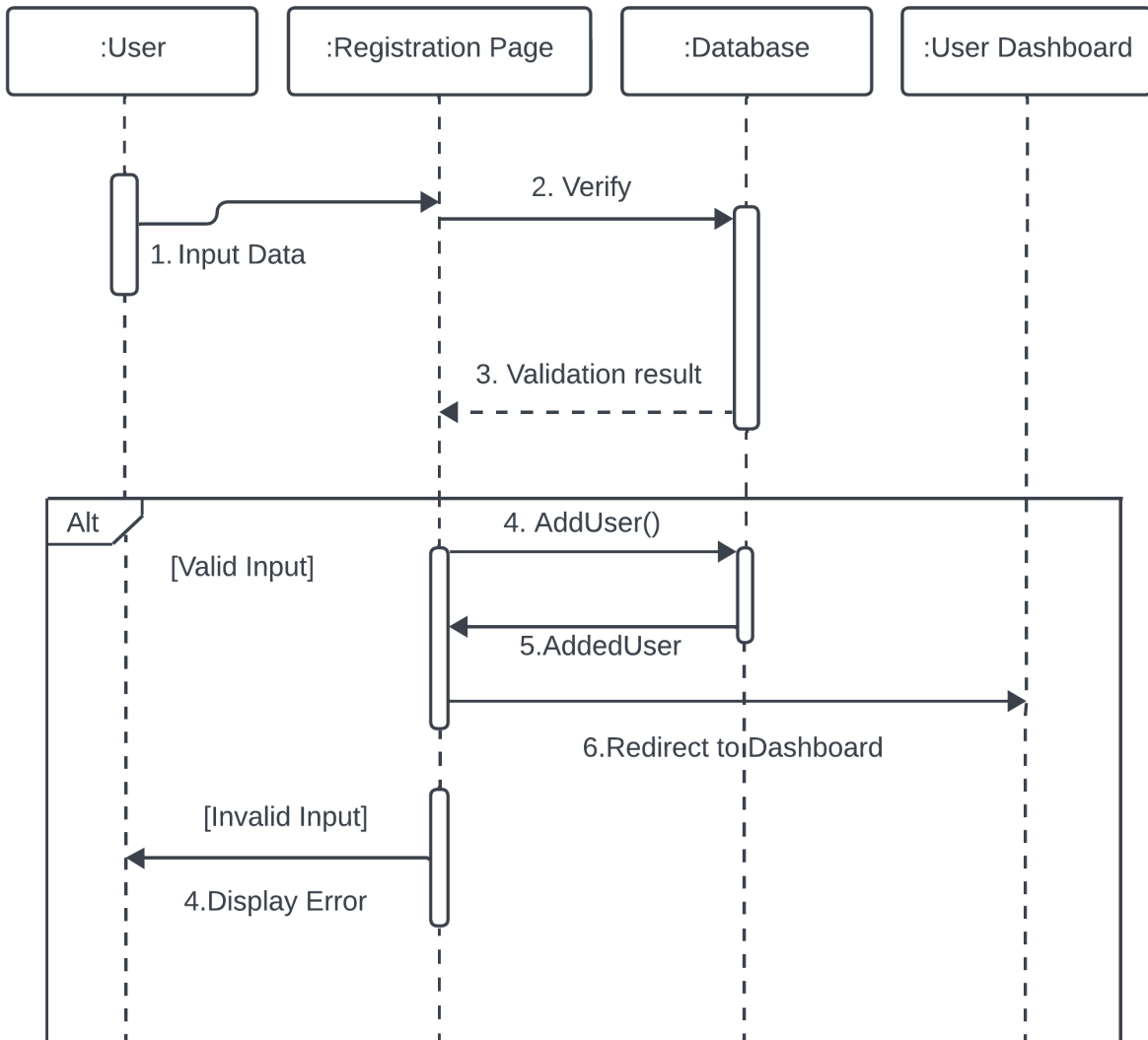


Figure 3.3.2: Sequence diagram (Registration)

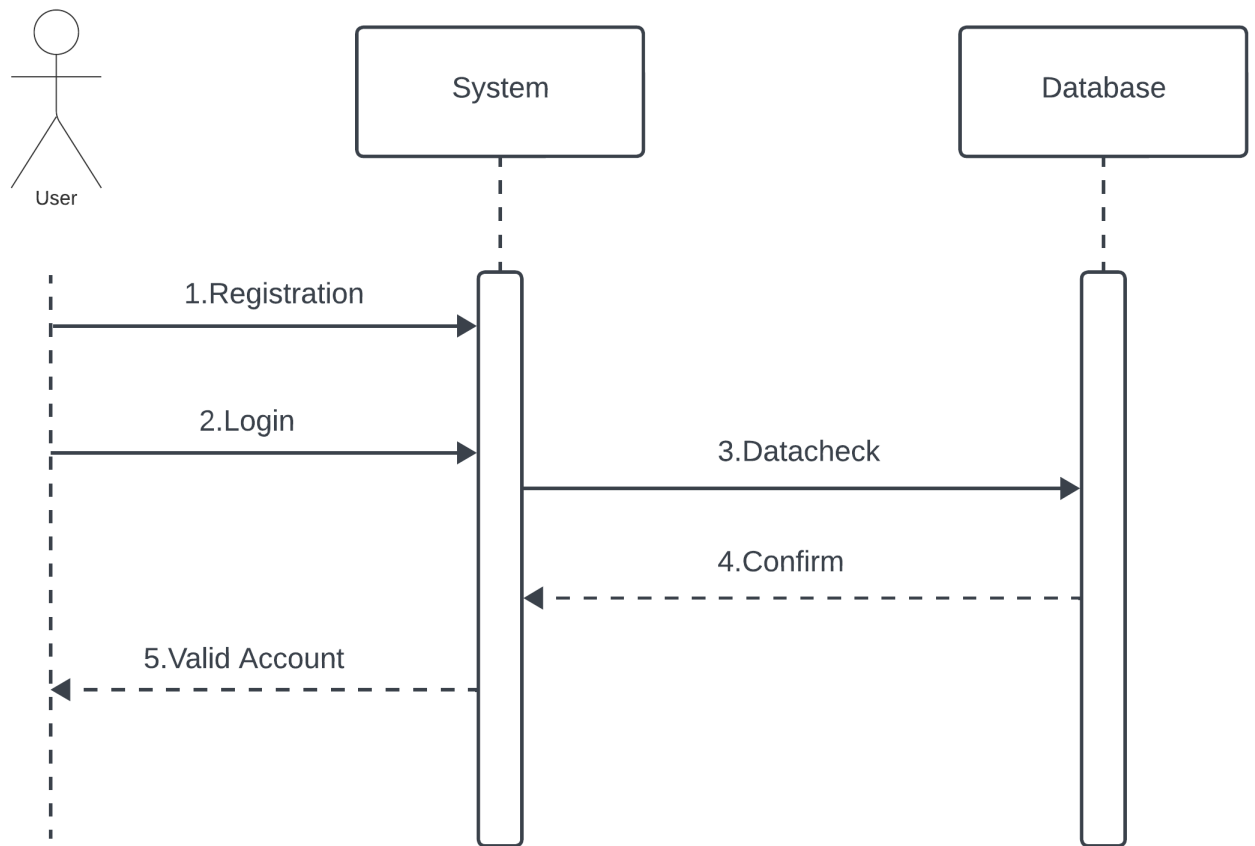


Figure 3.3.3: Sequence diagram (Login)

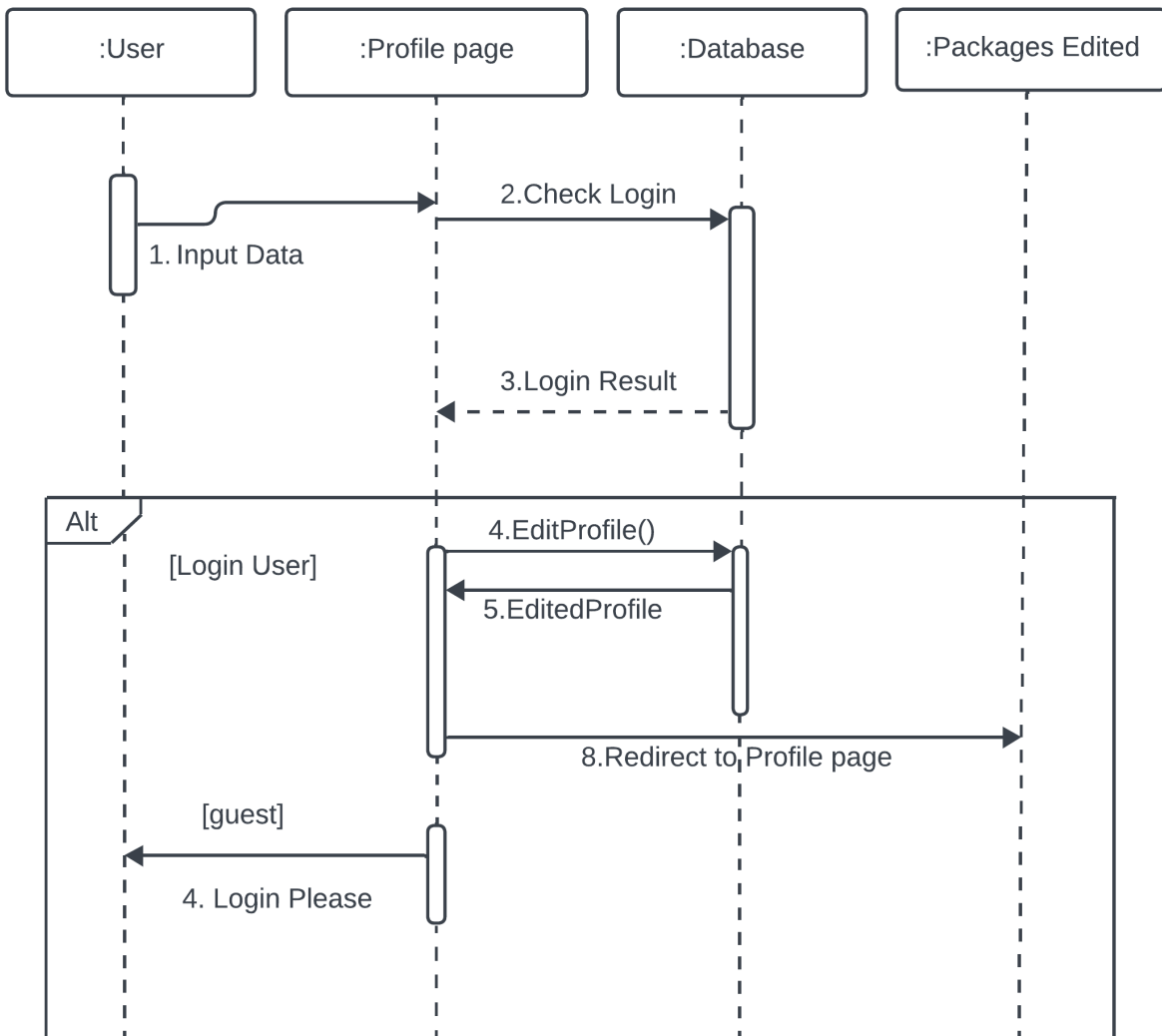


Figure 3.3.4: Sequence diagram (Profile)

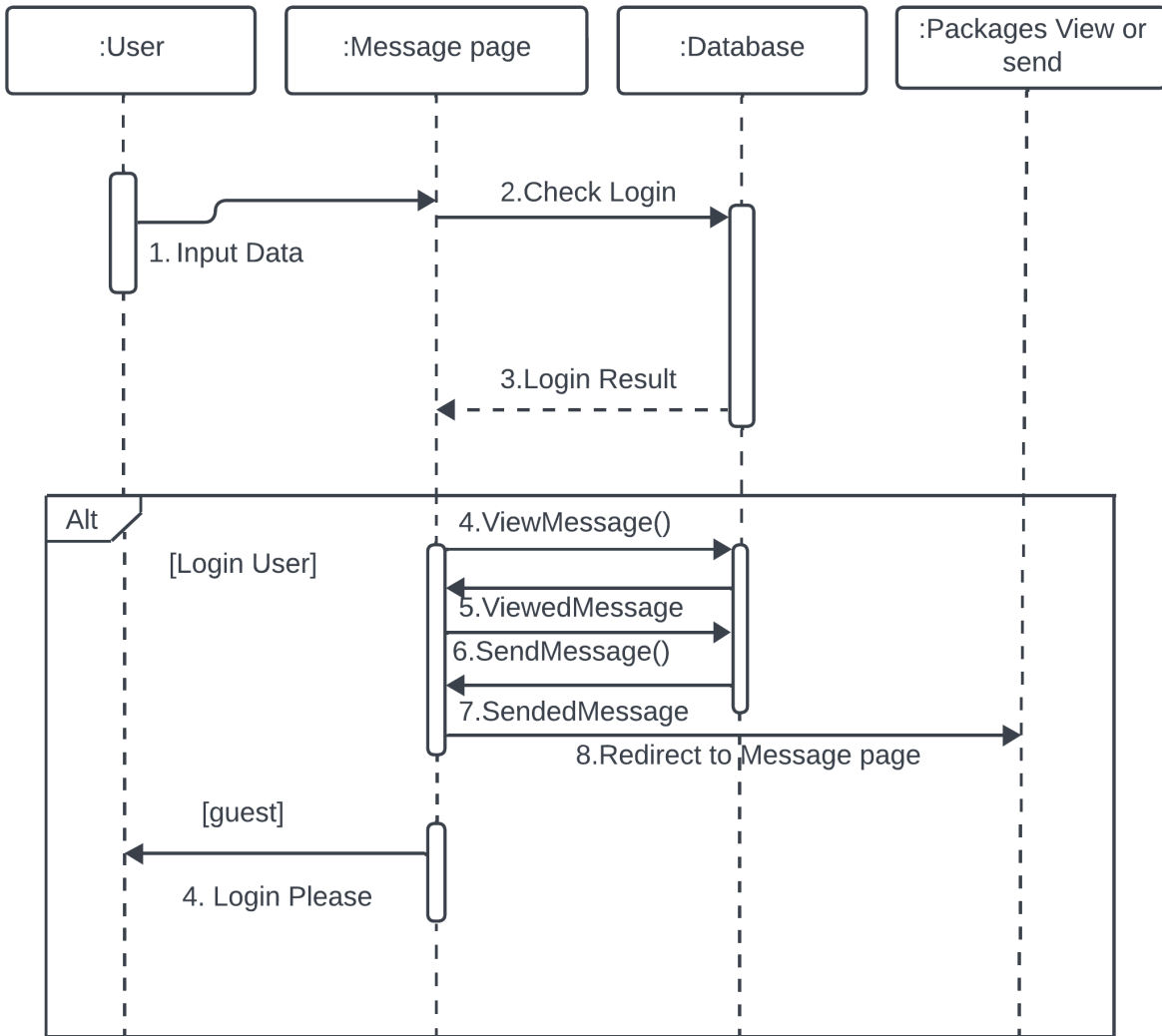


Figure 3.3.5: Sequence diagram (Messages)

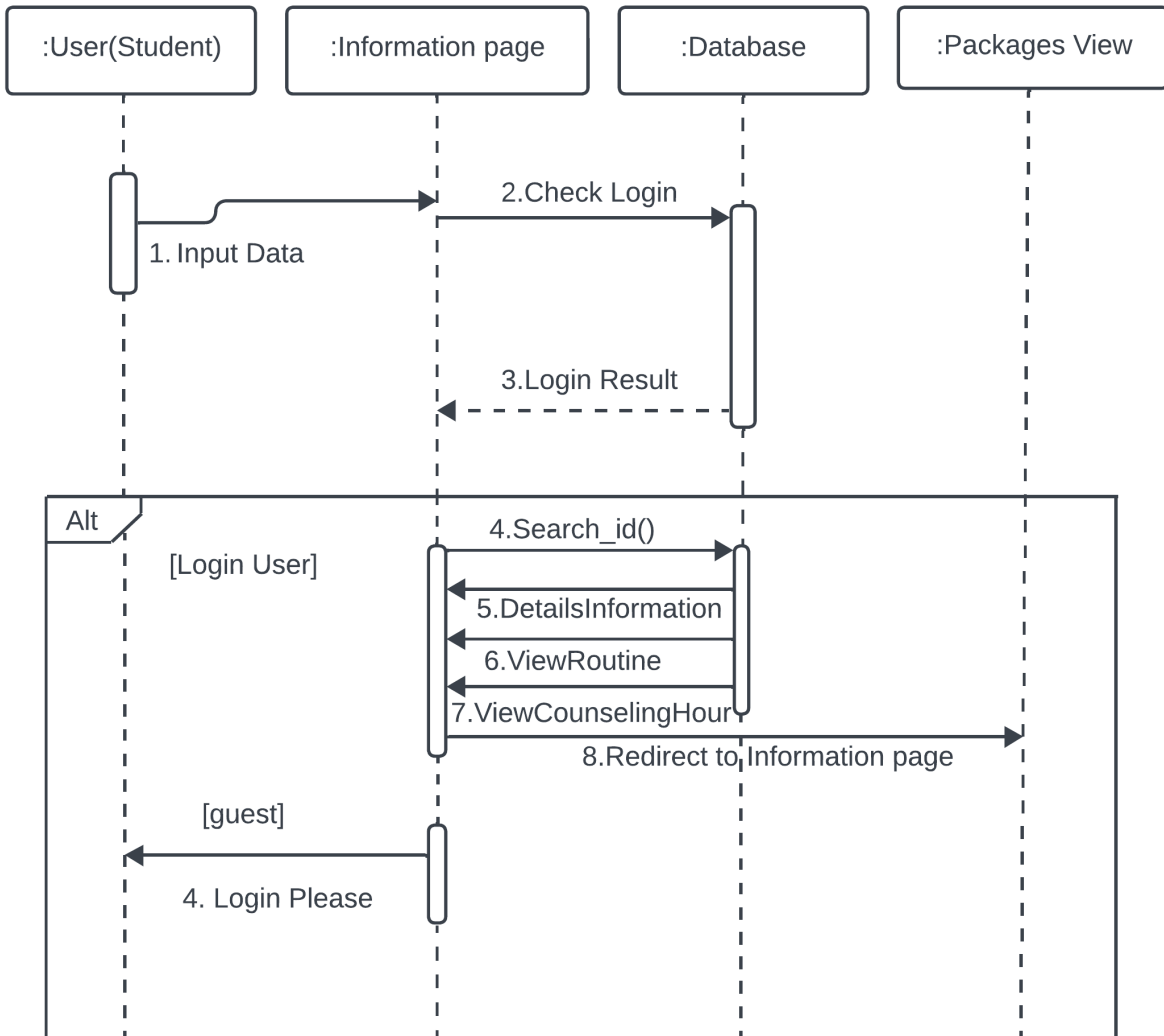


Figure 3.3.6: Sequence diagram (Information)



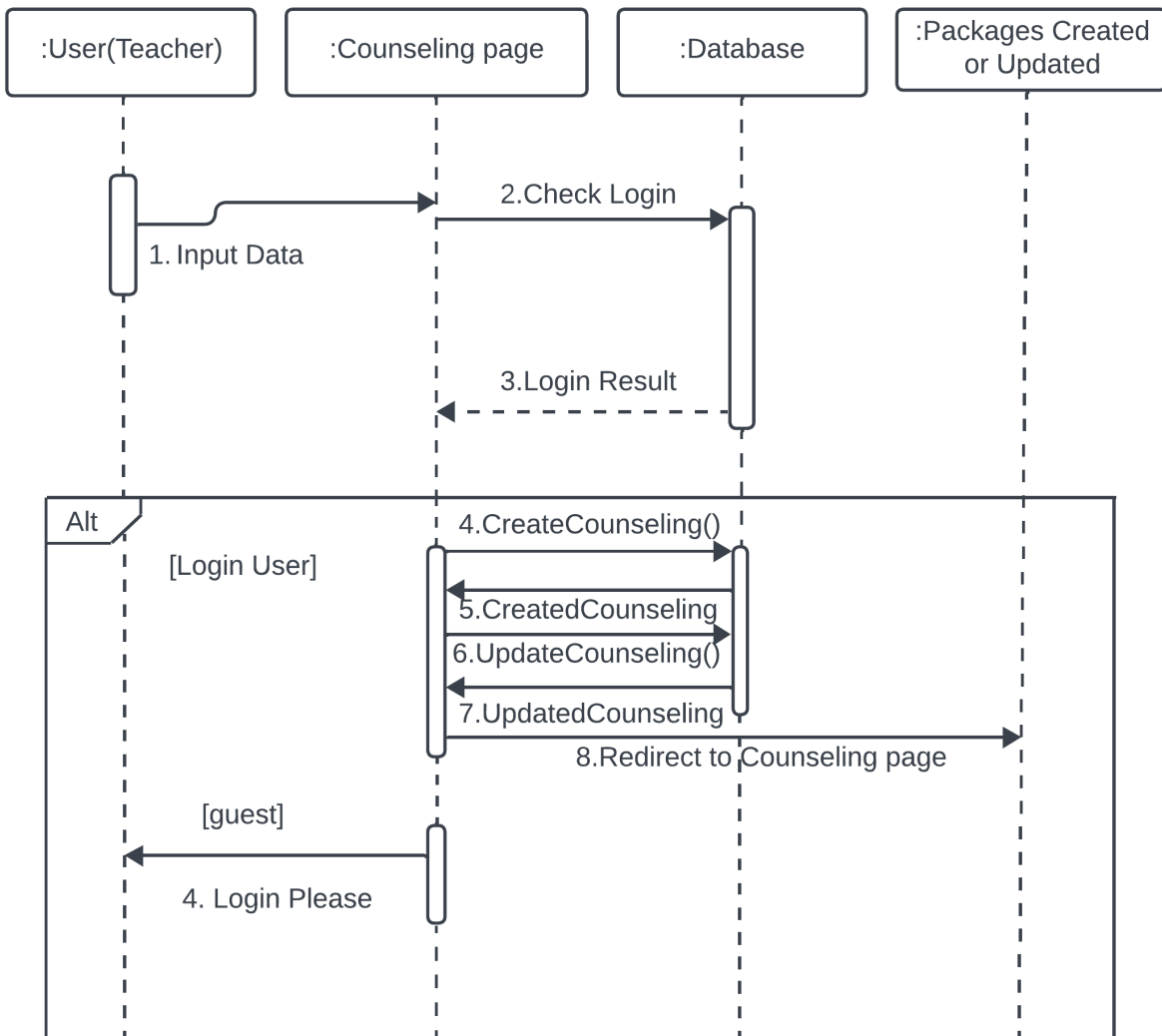


Figure 3.3.7: Sequence diagram (Counseling hour create or update)

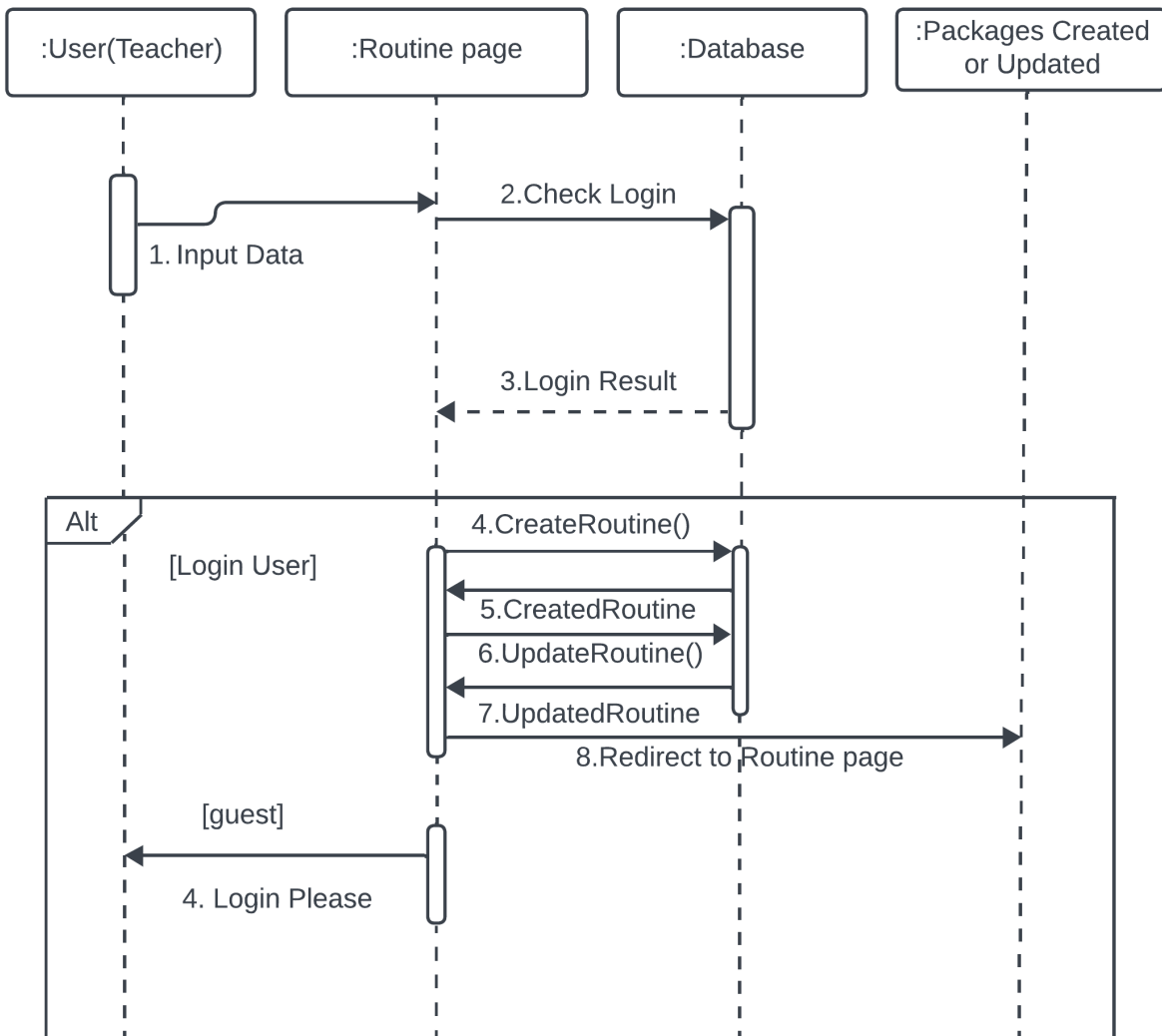


Figure 3.3.8: Sequence diagram (Routine create or update)

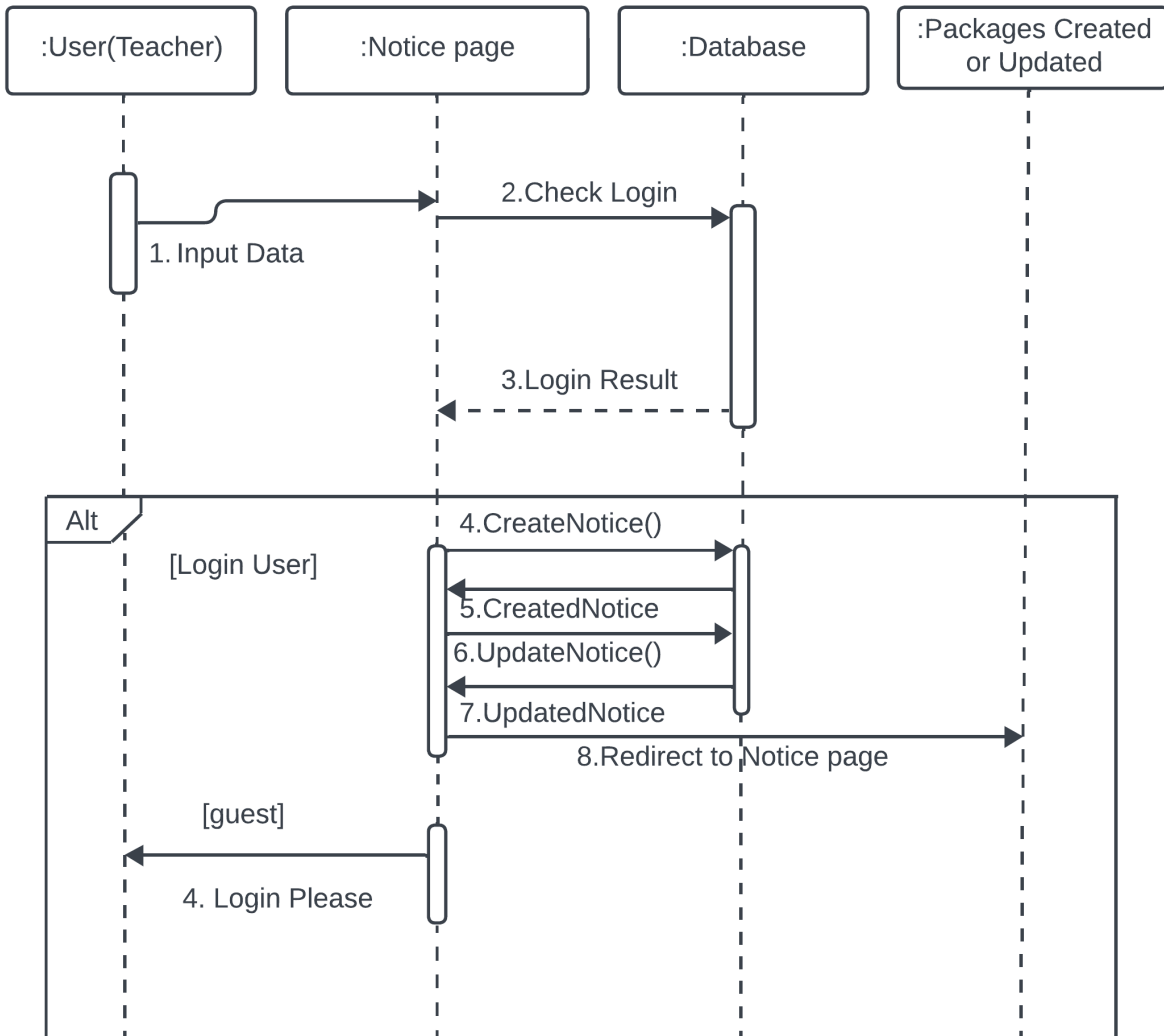


Figure 3.3.9: Sequence diagram (Notice create or update)

**3.4 ER Diagram:** It is possible to visually depict many entities inside a system and demonstrate their interrelationships. In essence, it displays the system's entity.

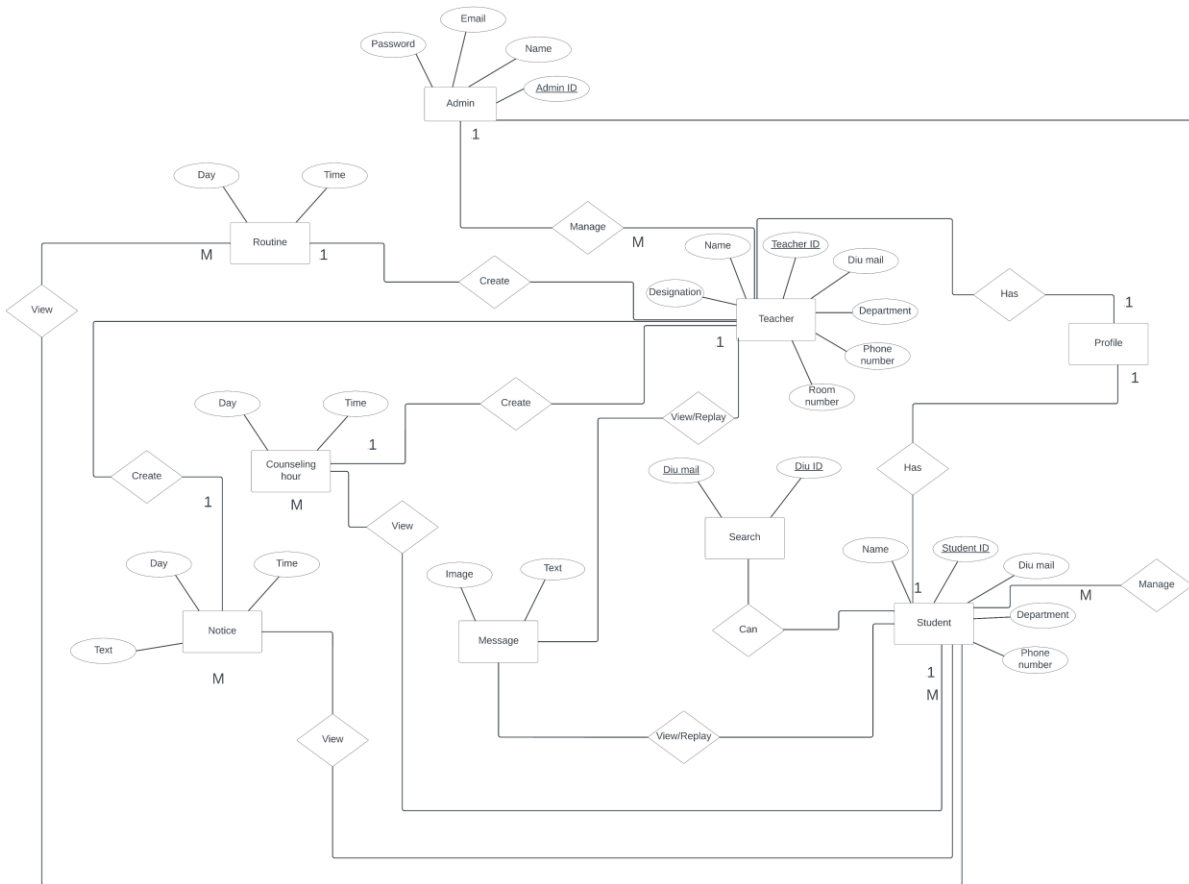


Figure 3.4.1: ER Diagram

**3.5 Class Diagram:** To clearly map out the structure of a particular system, it is standard practice to use useful types of diagrams to depict classes, characteristics, functions, and relationships between objects or classes.



Figure 3.5.1: Class diagram

### 3.6.BlockDiagram:

A block diagram illustrates the structure of a system by using blocks to represent its key components or functions, connected by lines to depict the relationships between these blocks. This type of diagram is extensively utilized in engineering across disciplines such as hardware design, electronic design, software design, and the creation of process flow diagrams.

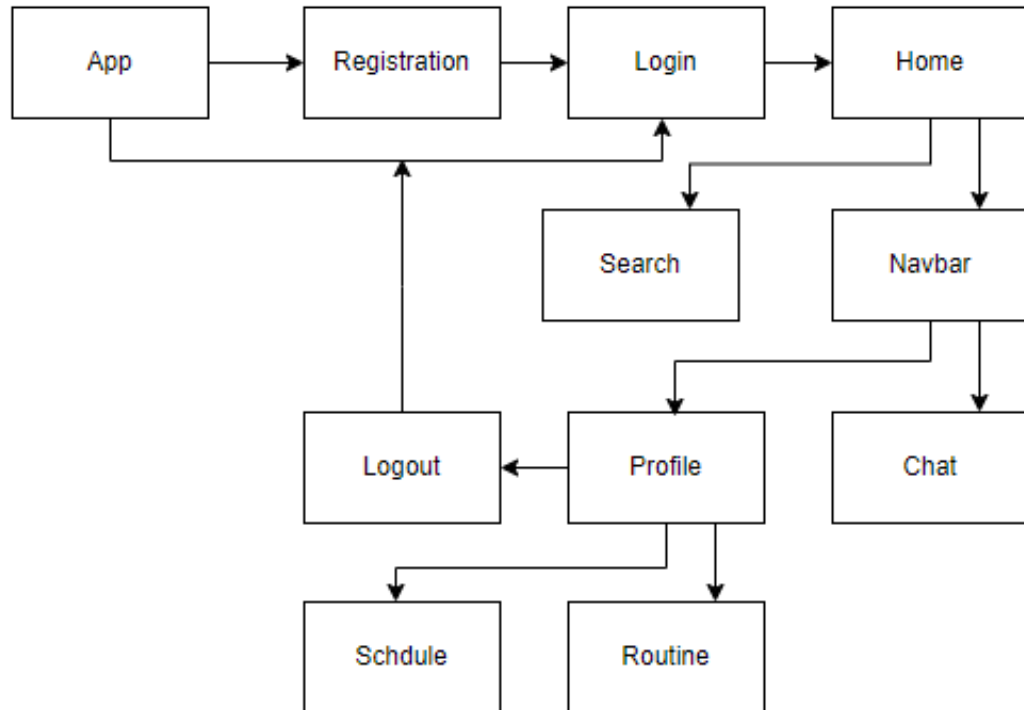


Figure 3.6.1: Block diagram

# **Chapter IV**

## **SYSTEM DESIGN SPECIFICATION**

## **Chapter 4:**

### **Development Tool & Technology**

The following list includes the technologies and tools utilized in this project:

#### **4.1 User Interface Technology**

- Android Studio

#### **4.2 Framework**

- Flutter

#### **4.3 Programming Language**

- Dart



# **Chapter V**

## **USER MANUAL**

## 5.1 User Interface

**5.1.1 Homepage:** This is the application's homepage. This home page appears on the display when the user logs in.

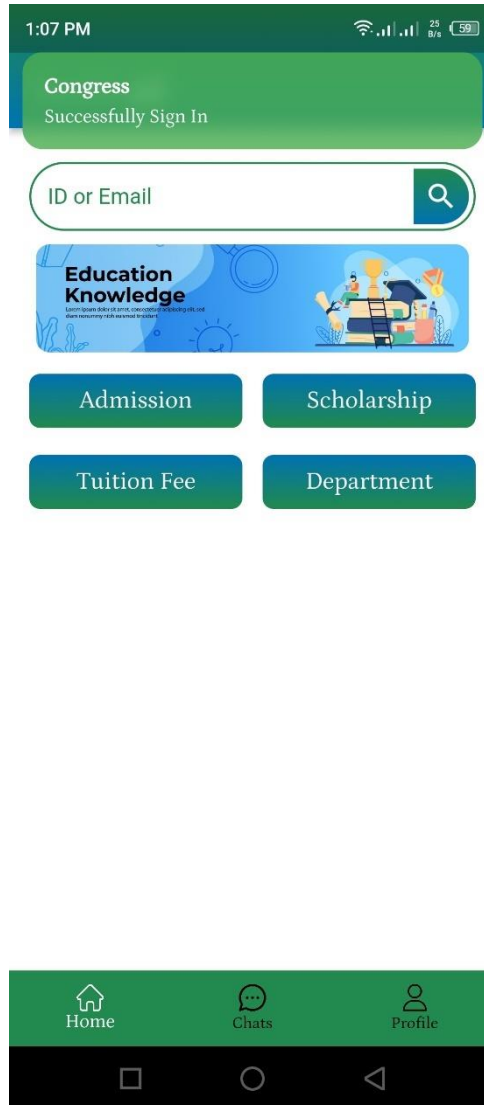


Figure 5.1.1: home page

**5.1.2 Registration page:** A user need to be registered before use this application.

1:05 PM

Register New Account

Full Name

DIU Mail

DIU ID

Select your department ▼

Teacher ▼

Select your designation ▼

Room No

Password

Sign Up

Already have an account? [Sign In](#)

Figure 5.1.2: UI for Registration page

**5.1.3 Login page:** Here user can login to the application by this page.

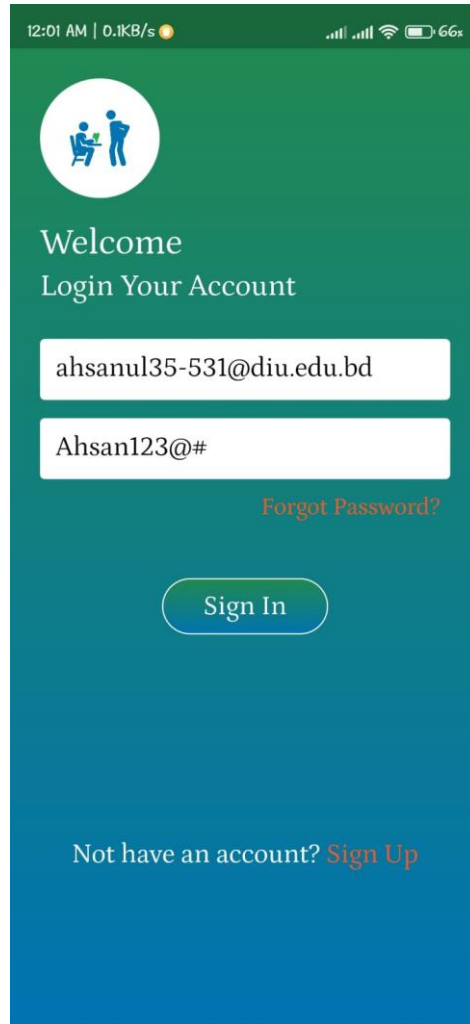


Figure 5.1.3: UI for User login

**5.1.4 See profile:** User can see their profile here.

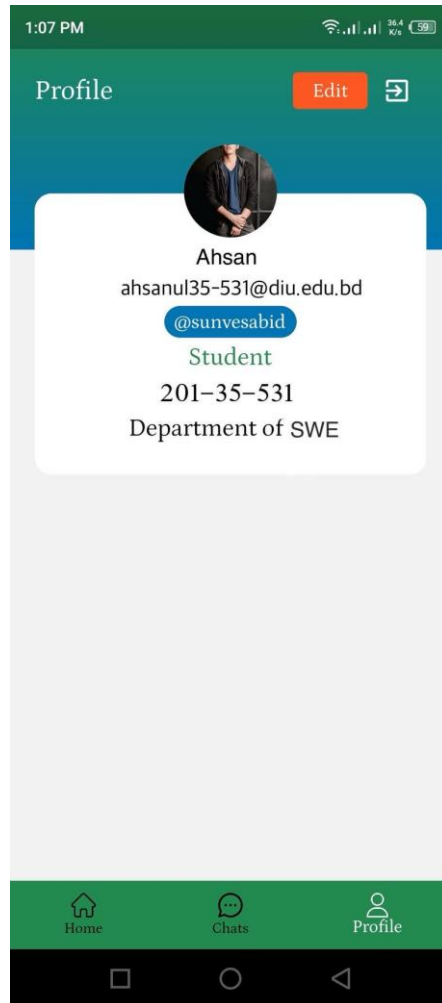


Figure 5.1.4: UI for See profile

**5.1.6 Message option:** Users conversation from this option.

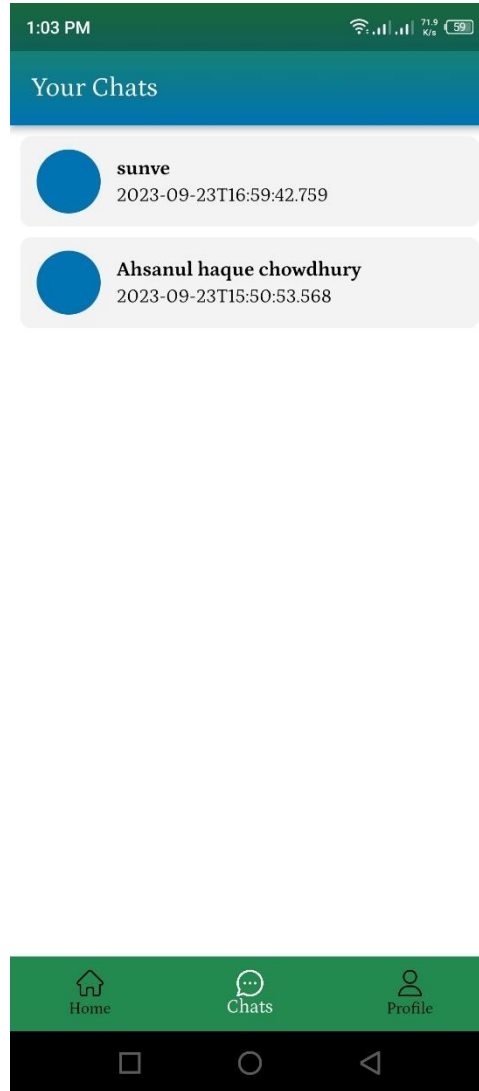




Figure 5.1.6: UI for conversation

**5.1.7 Create routine:** Teacher can create routine from this page.

1:04 PM Wi-Fi 17 B/s 50%

## Weekly Schedule

Day	Time							
	8.30	9.30	10.30	11.30	12.30	1.30	2.30	3.30
	-	-	-	-	-	-	-	-
	9.30	10.30	11.30	12.30	1.30	2.30	3.30	4.30
Sat								
Sun								
Mon								

Figure 5.1.7: UI for create routine

**5.1.8 Search ID to get information:** Student get information about teacher from this page.

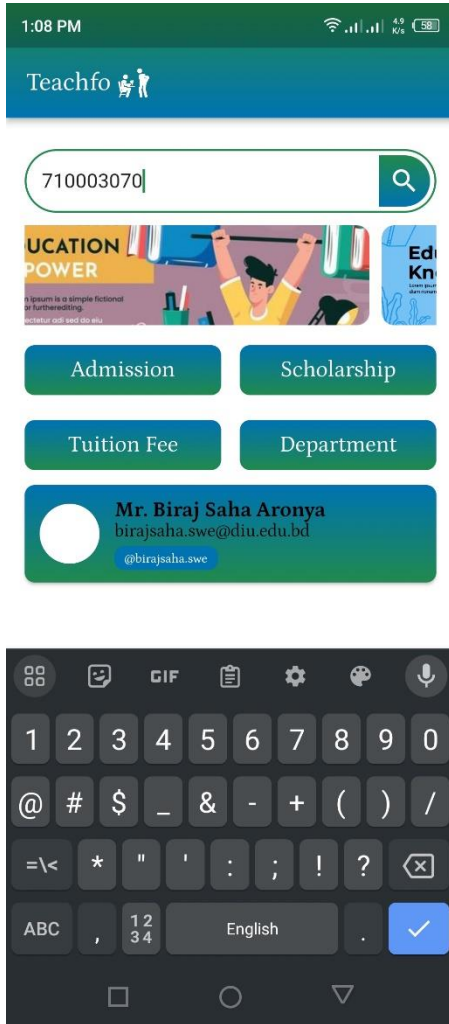


Figure 5.1.7: UI for search id for get information



**5.1.8 Search ID result:** Student get information page.

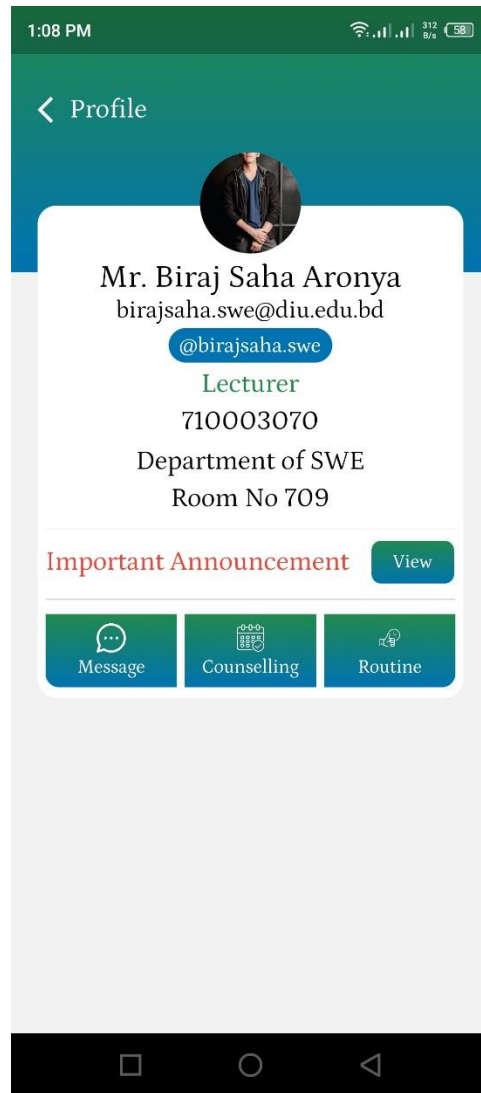


Figure 5.1.8: UI for search result

**5.1.9 Message box:** Conversation between student and teacher.

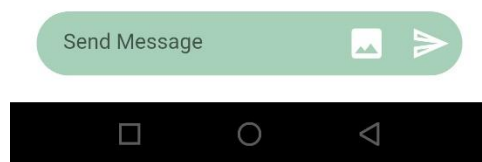
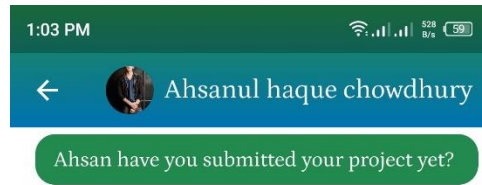


Figure 5.1.9: UI for message box

# **Chapter VI**

## **TESTING**

## **Chapter 6:**

### **6 System Testing**

#### **6.1 System Testing**

The testing process assesses a software application's functionality to determine whether it satisfies user needs and finds system flaws.

The significance of system testing

- System testing is the application's initial level of testing.
- Must observe the object of testing, the anticipated result, and the actual input.
- A project lacking a test plan indicates a low-quality system that was produced. It is also unacceptable.
- Data will be used to test the system's capability and determine whether it can manage conditions ranging from simple to extreme.

<b>Test case #1</b>		<b>Case name:</b> Create routine		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/09/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to create new routine				
<b>Precondition:</b> Teacher Login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data is in case	Application create routine successfully	Pass	
<b>Post Condition:</b> User registration and login				
<b>Fail Case:</b> System will show error				

<b>Test case #2</b>		<b>Case name:</b> Create counseling hour		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to create counseling hour				
<b>Precondition:</b> Teacher login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application create counseling hour successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				

<b>Test case #3</b>		<b>Case name:</b> Create notice		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to create Notice				
<b>Precondition:</b> Teacher login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application create Notice successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				

<b>Test case #4</b>		<b>Case name:</b> View routine		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to view routine				
<b>Precondition:</b> Student login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application show routine successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				

<b>Test case #5</b>		<b>Case name:</b> View notice		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to view notice				
<b>Precondition:</b> Student login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application show notice successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				

<b>Test case #6</b>		<b>Case name:</b> View counseling hour		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to view counseling hour				
<b>Precondition:</b> Student login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application show counseling hour successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				

<b>Test case #7</b>		<b>Case name:</b> View information		
<b>System:</b> Communication based application		<b>Subsystem:</b> N/A		
<b>Designed by:</b> Ahsanul		<b>Design date:</b> 11/9/2023		
<b>Executed by:</b>		<b>Executed date:</b>		
<b>Short Desc:</b> Target to view information				
<b>Precondition:</b> Student & teacher login				
<b>Step:</b>	<b>Action</b>	<b>Response</b>	<b>Pass/ Fail</b>	<b>Comment</b>
1	All data in case	Application show information successfully	Pass	
<b>Post Condition:</b> N/A				
<b>Fail Case:</b> System will show error				



## **Chapter VII**

### **CONCLUSION**

## **Chapter 7:**

### **Project Summary**

#### **7.1 Limitations**

- This system has no way to class time alarm
- No way to print routine or counseling hour schedule

#### **7.2 Obstacle & Achievements**

Obstacle:

- Cop up with new technology

**Achievements:**

- Learnt a new technology experience
- Build a production level android application.

#### **7.3 Future Work**

Even if the system was developed well, there will be some significant changes in the future, such as:

- Multiple admin for different department
- Course wise video for learning
- Quiz system will be added
- IOS device capability will be added

## REFERENCES

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2. Teacherkit classroom manager teacherkit.com Retrieved 1 December 2023 from, <https://play.google.com/store/apps/details?id=com.teacherkit.app&hl=en&gl=US&pli=1>
3. Student for lanschool clasic software lanschool.com Retrieved 1 December 2023 from, <https://play.google.com/store/apps/details?id=com.lanschool.student&hl=en&gl=US>
4. Inclass software inclass.com Retrieved 1 December 2023 from, <https://play.google.com/store/apps/details?id=com.peoplelink.inclass&hl=en&gl=US>