



# Final Report

An application for student collaboration and connection



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## Details of Project Supervisor and Co-Supervisor

### Proposed Project Supervisor (Academic staff of UCSC)

Name of the supervisor: Dr. Kasun Karunanayake

Signature of the supervisor:



Date: 31/10/2023

### Proposed Project Co-Supervisor (Assigned by the course coordinator)

Name of the co-supervisor: Ms. L. Sanjani M. Gunathilake

Signature of the co-supervisor:



Date: 31/10/2023

# 1. Introduction

## 1.1 Domain description

Every year, for further assistance in academics, students organize “Kuppi” sessions, which is a great help for them for their exams and assignments. One major problem is the lack of effective organization for these Kuppi sessions. Currently, students record these sessions, upload them to YouTube and share the links in batch groups, resulting in scattered links that are difficult to locate when needed. Additionally, there is no centralized repository for the short notes and materials created during these sessions, making it challenging for students to access all the relevant study resources in one place. For students who do repeat examinations, there is no proper way to find the older sessions done by their batches in the past.

Moreover, students often struggle to stay informed about important academic deadlines, such as assignments and exam due dates. The existing virtual learning environment has an event calendar, and a notification bar but it does not have the functionality of reminding the students when the due events approach. With the absence of that, many students miss deadlines, affecting their academic performance and causing unnecessary stress.

There are many student societies and clubs in our university, and they organize various events for the members of the club. These clubs and organizations rely on social media and WhatsApp groups to spread the word about those events. This decentralized approach creates difficulties for students who want to find and attend events happening on campus, leading to missed opportunities for engagement and networking.

The process of conducting student elections, whether for the student union or clubs and societies, lacks transparency and proper management. The current approach, often relying on Google Forms and physical elections, consumes more time and is difficult to manage ensuring privacy.

Another critical issue is the lack of a streamlined process to access student counselors. Despite the presence of counselors on campus, most students are unaware of their availability, and there is no established method to schedule private appointments with them. This hampers students' access to much-needed mental health support and guidance.

## 1.2 Proposed Solution

To address the problems, we have developed “AKA HUB” consisting of five distinct components, each designed to tackle one of the previously mentioned subproblems.

### A hub for resource sharing

Our system has a complete resource-sharing center where authorized students can upload the links to recorded kuppi sessions, short notes, and other relevant links. The other students can view and download those materials through the system. This will facilitate a more organized repository for all the students.

### Academic notification calendar

We will develop a separate calendar to keep the students informed about the assignment and exam dates. The notifications will be sent via email when the due dates approach and the remaining dates for the events will be displayed to the students on the website. Notifications will be sent via email as deadlines approach, and students can customize notification frequency and email preferences. This feature empowers students to better manage their academic responsibilities.

### Dedicated stream for event promotion

Our system will have a separate platform to share the posts of events that are organized by the clubs or societies at UCSC. There is a designated individual from each club who will manage this feed. The students can view these posts and filter the posts as they wish. A separate calendar will also be there which is updated with the upcoming events. And students will be notified via on-site notification when the club representative adds a new event.

### Public voting system

This will facilitate the students to create elections and the others can vote securely. Authorized students can create the elections and specify which group of students can participate in voting. The eligible students can view live results and the creators of elections can generate reports using the results of each election. This system will ensure the privacy of voting and will make it easy for the students to engage in the activity.

### Schedule counselor appointments

This part of the system is made especially for engaging with the counselors in the university. Students can reserve the time slots by viewing the availabilities of counselors and meeting with them privately and confidentially. We hope that this will encourage the students to engage more with counselors and take their advice. Counselors will also have the facility to upload any materials related to mental health.

With these defined boundaries, we aim to create a better system that addresses the identified challenges and fulfills the needs of UCSC students effectively.

## 1.3. Project Goals and Objectives

Our main goal is to create a web-based system for undergraduate students in our university to access and share various types of educational and extracurricular resources, such as kuppi videos, notes, club and society updates, and more. Through that, we can enhance the learning experience and academic performance of the students, as well as foster a sense of community and belonging among them. This system can also facilitate student counseling services, public voting, feedback mechanisms, and shared calendar features for students. These are some of the other goals of the project.

### Objectives

- Identify the requirements and expectations of the target users (undergraduate students) through surveys and interviews.
- Develop a web application that provides a comprehensive and integrated platform for student collaboration and education, with features such as kuppi video viewing, resource sharing, club, and society feed, public forum and polls, private counseling, and shared calendar.
- To provide a user-friendly, customizable, and accessible interface for the web application that can be used from any device.
- To learn and apply the latest technologies and best practices related to web application development and enhance our technical skills.

## 1.4. Project Scope

### 1.4.1 Project Constraints

- The project may face delays or difficulties in the development process due to various possible factors, such as technical issues, design changes, user feedback, or unforeseen circumstances.
- Resource constraints may arise if the number of users increases, as the server capacity and bandwidth may be insufficient to handle the traffic and data.
- This project will be hosted online; therefore, the cost of implementation and maintenance will become a constraint, especially if the number of users increases, as the hosting and API costs will increase.
- All students or counselors should register for the app to use most of the functionalities and join the platform.
- All the users are undergraduates registered at our university. So, it is assumed that they possess a valid student email provided by the university.
- Only undergraduate students and counselors can sign up for the system, and no other users can create accounts.
- All users can filter by resource type, rating, category, and keyword when searching for resources.

- Only students that are designated by authorized student representatives can create kuppi videos and share academic materials,
- Only students watch kuppi videos, join activities by clubs and societies, participate in public forums and polls, access shared calendars, and connect with friends. Counselors can only provide counseling services and communicate with students who request them.
- All users can share updates to the public feed, but only those who are not blocked or muted can view those updates.
- The resource status will only be visible if it is not restricted by the friend being viewed.
- The student or counselor has to agree to the terms and conditions of the platform before using it. They also have to respect the privacy and rights of other users and follow the code of conduct of the platform.
- The management portal can be accessed by the administrators and moderators of the platform. They can monitor and moderate the content and activities of the platform, such as verifying users, approving resources, removing inappropriate posts, banning or warning violators, etc.
- Since only students that are designated by authorized student representatives can create and share academic material it is assumed that the quality and accuracy of them are within acceptable ranges
- The app will not determine the quality or accuracy of the resources.
- The users have to report any issues or problems they encounter while using the platform to the support team via a button click. They can also send feedback or suggestions for improvement via a form.

#### 1.4.2 Project Assumptions

- It is assumed that most students and relevant stakeholders will actively adopt and use the platform once it is introduced.
- It is assumed that user-generated content, such as Kuppi session materials and event details, will be accurate and free from harmful or malicious content.
- It is assumed that counselors will actively manage their availability on the platform, allowing students to book appointments during the designated hours.
- It is assumed that privileged users will actively participate in approving other users in the system.
- It is assumed that a little cost of expenses will be paid by donations for platform deployment and maintaining domain, and hosting facilities when needed in later versions of the system.

## 2. Project Feasibility

### 2.1 Technical Feasibility

This section evaluates the viability and suitability of implementing our web-based platform using the selected technical solutions. The main deliverable of this project is a web app built using HTML 5, CSS 3, and JavaScript in the front end and PHP in the backend which uses MySQL as the database.

Apache HTTP Server is used to run the PHP applications. The platform relies on; YouTube API to embed kuppi videos and uses PHPMailer to send emails and notifications. In addition to that, GitHub is used as the code collaborative and version control tool and then we use collaborative tools like Zoom, and Google Meet to manage our communication processes.

We also use various libraries such as JQuery and Axios JS to enhance the functionality and performance of our web app. For documentation, we use tools like Google Docs, MS Word, MS Excel, Google Sheets, etc. For UML diagrams and drawings, we use tools like Draw.io and Visual Paradigm. For prototype and UI/UX design, we use tools like Figma. For file storage, we use tools like Google Drive. For project management, we use tools like Trello. For text editors, we use tools like Visual Studio Code, Atom, Sublime Text, IntelliJ IDEA, etc.

Most of these technologies are either open source or freely available. The team has to acquire sufficient technical knowledge before and during the development of the system. It is a challenging task, but the timeline allows us to learn the necessary skills and technologies before starting the actual development work and the rest while building the system itself. The system can be easily hosted on any cloud provider as we would not be using any proprietary or vendor-specific technologies.

Therefore, this project can be stated to be technically feasible, as it can be implemented using the available technologies and technical skills.

### 2.2 Economical Feasibility

In assessing the financial dimensions of our project, we have taken strategic steps to ensure its economic viability and sustainability. The backbone of our platform's functionality lies in its hosting, which will be facilitated through Amazon Web Services' free tier capacity, initially catering to moderate site traffic. As our user base expands, potential scaling needs may incur additional hosting costs.

Establishing a recognizable online presence is paramount, and we plan to acquire a ".LK" domain, an investment of approximately Rs 3,000 per year. Utilizing emails for notifications and integrating a notification area within the platform incur no additional costs.

Our development strategy focuses on cost-effectiveness, making use of open-source technologies and free tools like Visual Studio Code, encouraged by the benefits of the "GitHub Student Developer Pack" available to university students.

As a dedicated team of university undergraduates, we are committed to driving the project forward through our collaborative efforts, negating external development costs. Through meticulous expense management, we are confident that our project is economically feasible, allowing us to deliver a valuable and sustainable solution to our users.

## 2.3 Legal and Ethical Feasibility

In this part, we're going to talk about the legal and ethical aspects of our project. This means making sure our project follows the rules and is morally right.

When it comes to the law, we're very careful about how we handle people's information. We want to keep their data safe and private. We'll ask for their permission before using any of their data, and we'll only let authorized people see it. We'll also explain everything clearly in our rules and policies so that everyone knows their rights and how we'll protect their information.

On the ethical side, we believe in being open and fair. We'll always tell people what our platform is for and what it can do with their information. We'll only use their data for the things they agree to. Everyone will have control over their data, and they can change or remove it if they want. When it comes to events and elections, we'll treat everyone the same way and make sure everything is fair.

For the counseling part, we'll keep everything private. Only the right people will have access to students' information and their counseling sessions. We also care about the content shared on our platform. We want it to be helpful and respectful. People will be encouraged to share good stuff, and we'll let authorized people remove anything that's not okay. In elections, we'll make sure things are fair by letting people vote without showing who they voted for. We'll follow a clear process to run elections and make sure everyone can see what's happening.

Our main goal is to create a safe and trusted platform where everyone can learn and share while following the rules and treating each other fairly.

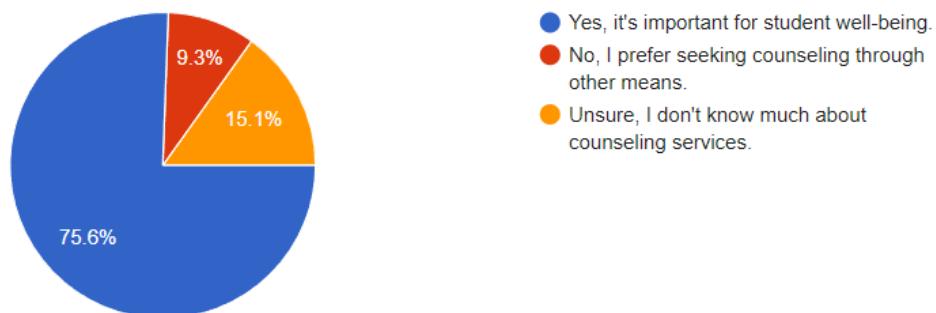
## 2.4 Social Feasibility

We conducted a survey using google forms to collect the ideas of the undergraduates at our university. It had more than 100 responses and most of them were very positive in their opinion. So, we can safely assume that people are willing to use our system and most of the people mentioned that it's better to have an online platform for this idea. The following images show some of the responses we received during the survey.

Do you think having a section to connect with student counselors for guidance and support would be beneficial?

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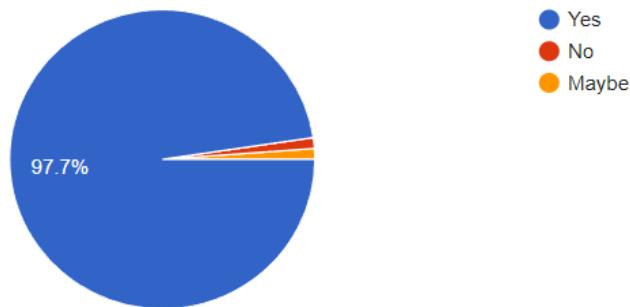
86 responses



Are you interested in a web application that allows you to view organized kuppi videos and download study materials which were shared by your batch mates ?

[!\[\]\(e462f608b89f421f9d905728e26f6429\_img.jpg\) Copy](#)

86 responses



● Yes

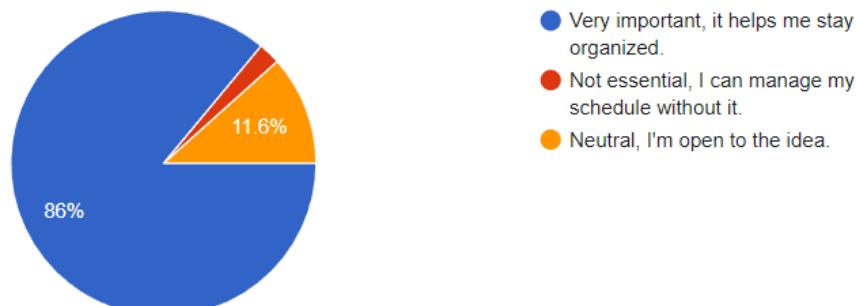
● No

● Maybe

How important are real-time notifications for assignment due dates and exam schedules to you?

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86 responses



● Very important, it helps me stay organized.

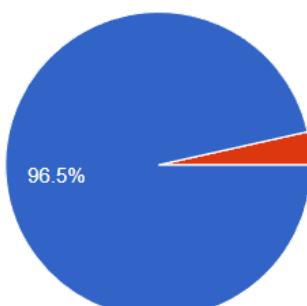
● Not essential, I can manage my schedule without it.

● Neutral, I'm open to the idea.

Overall, do you think this web application would be beneficial for the student community?

[!\[\]\(758fecfcf97b15b743a123b5de83ec46\_img.jpg\) Copy](#)

86 responses



● Yes, it would be valuable.

● No, I don't think it's necessary.

## 2.5 Operational Feasibility

Operational feasibility refers to the analysis of how well the proposed solution solves the problems and satisfies the requirements identified in the requirements-gathering phase. Considering the identified problem, the proposed system fulfills all the requirements of the students that they are faced even in busy exam time periods.

By addressing the challenges of scattered Kuppi session materials, decentralized event announcements, missed academic deadlines, limited access to student counselors, and lack of transparent student elections, the platform aims to streamline operations and promote efficiency across various aspects of university life.

Our solution is a web application accessed through the internet. So, to use and operate the system,

- Users are required to have an internet connection.
- A mobile phone or a computer with a recent version of a web browser installed should be available.
- Users must have a basic knowledge of IT & using the internet.

The results of the survey that we conducted also indicate the user satisfaction with the proposed system. Therefore, we can conclude that our project is operationally feasible.

## 2.6 Schedule Feasibility

- The project spans a duration of **9 months**.
- According to that, the estimated man-hours for the project completion can be mentioned as follows,
  - Weekdays working hours = 5 hours
  - Weekend working hours = 5 hours
  - Number of group members = 4
  - Number of weeks = 36
  - Total man hours =  $(5 + 5) * 4 * 36$  hours = 1440 hours
- We are using an **iterative waterfall model** for development and with requirement gathering almost done, we can predict that with the identified features and scope it is possible to finish the other tasks of the SDLC and complete the development of the product by the January of 2024.

Also, requirements are almost stable at this point so there won't be any major changes to the requirements that can affect the schedule of the project.

### 3. Requirements

#### 3.1 Stakeholders

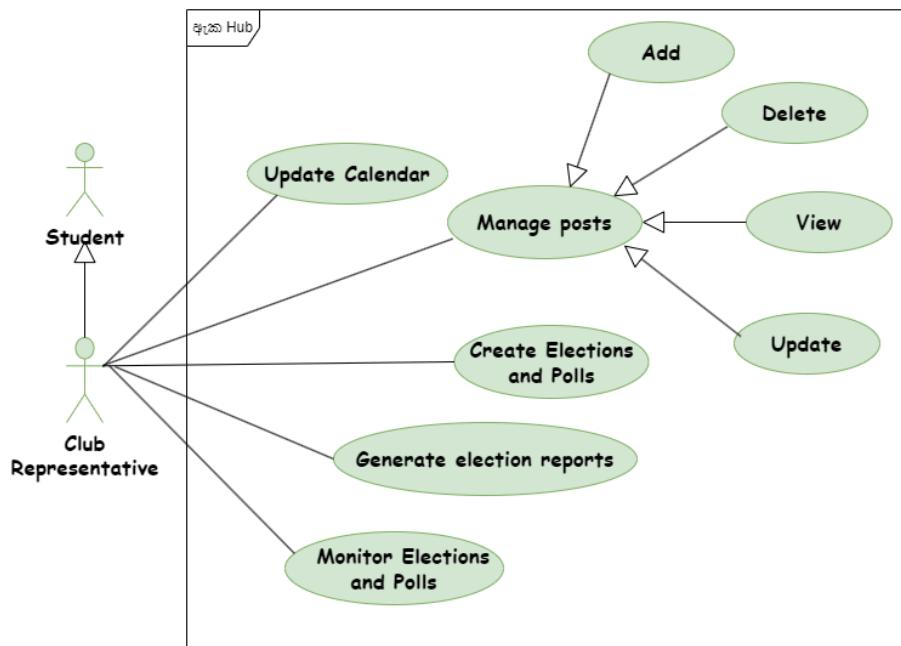
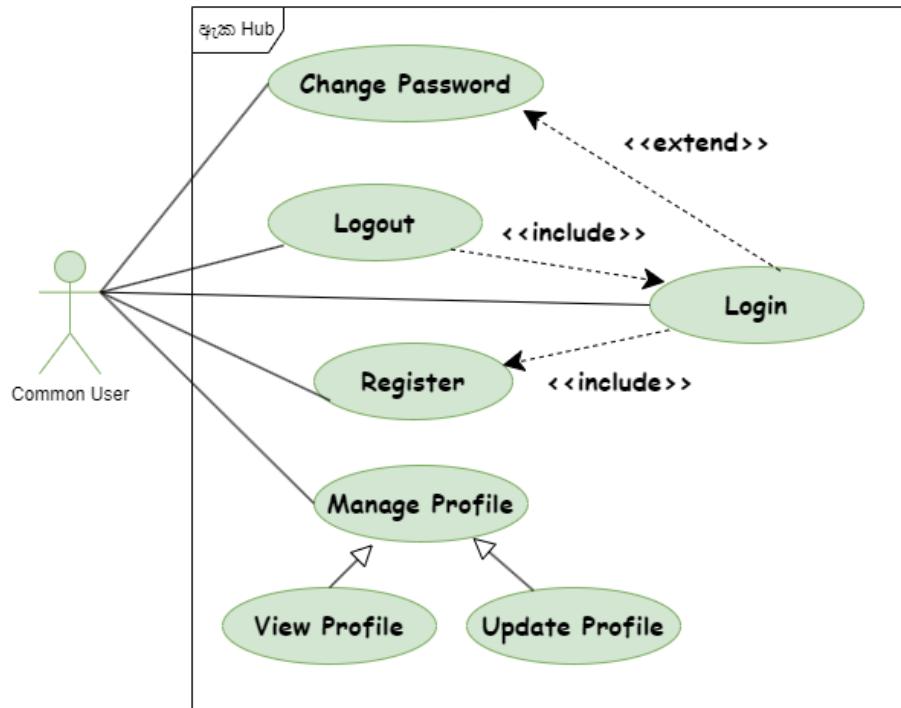
In requirement identification the users of the system have been identified as follows.

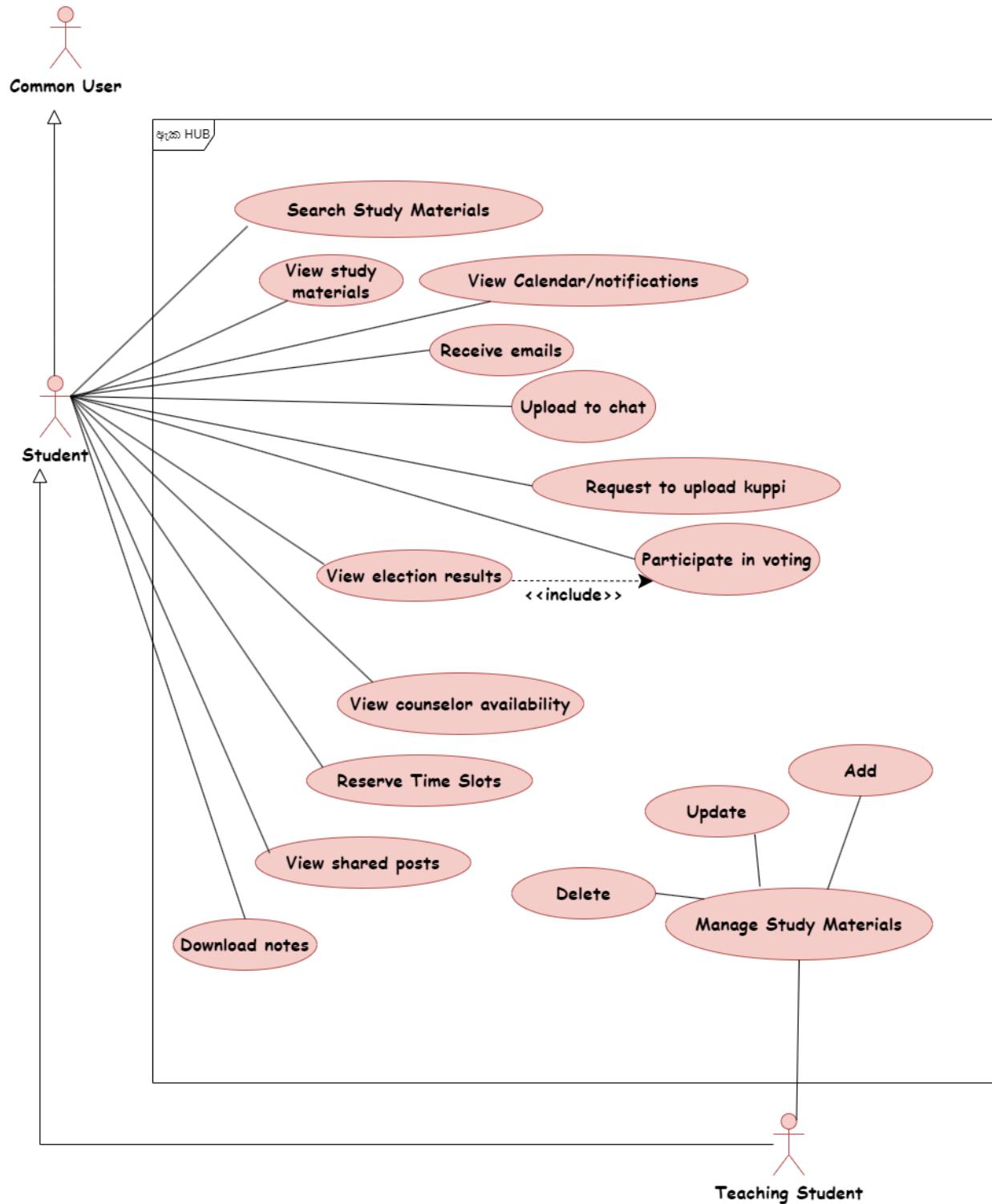
- Common User
- Student
- Student Representative
- Club Representative
- Counselor
- Admin
- Super Admin

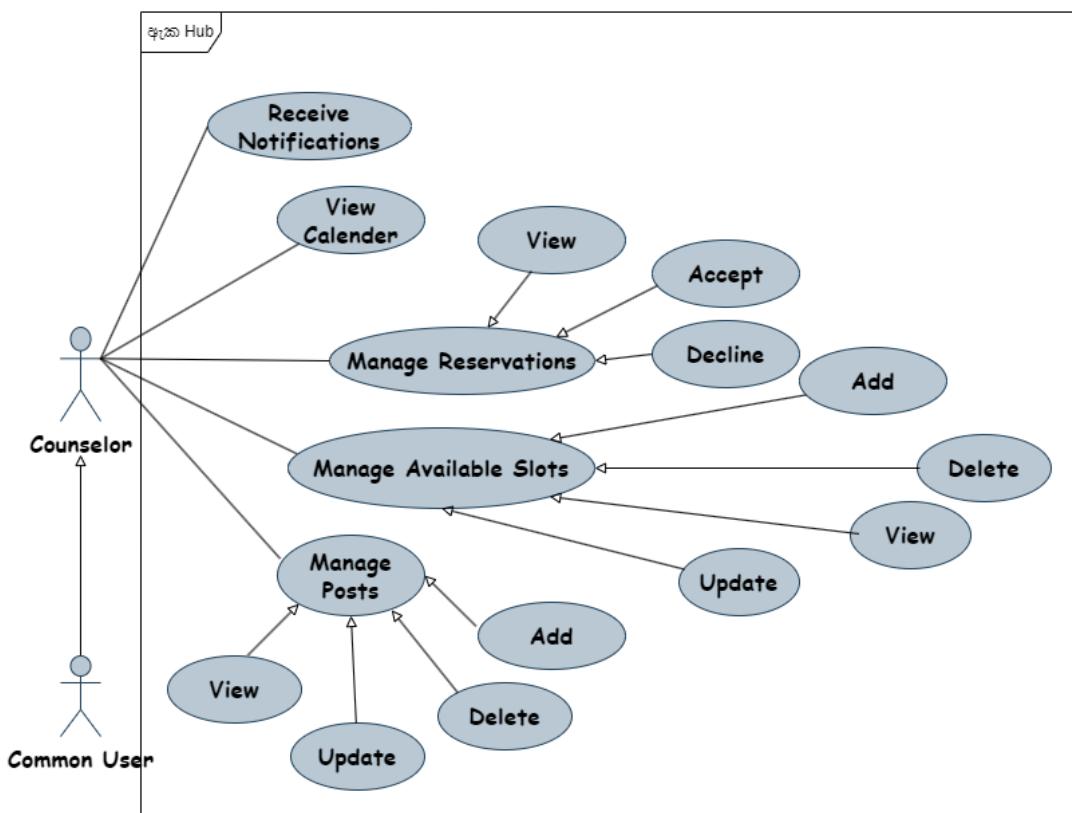
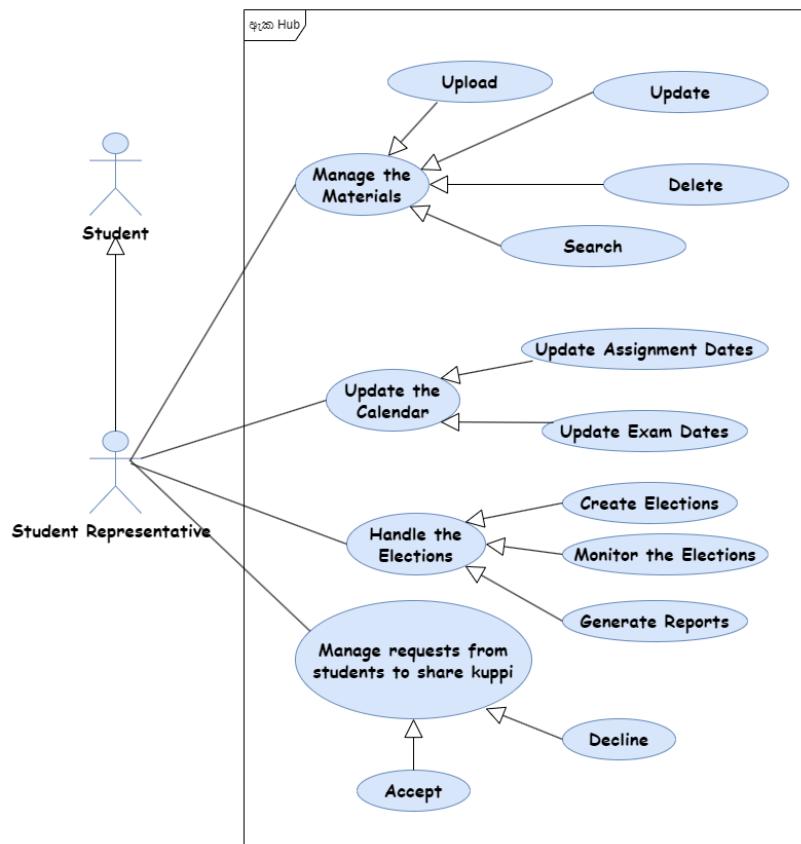
### 3.2 Use Case Diagrams

The use case diagram for the complete system can be viewed here:

<https://drive.google.com/file/d/1aqjEVSU1HCZpX9moTnjHc63x3HFwA3W/view?usp=sharing>







### 3.3 Use Case Narratives

Use Case	<b>Register</b>
Use Case Number	1
Summary	User registers to the system before logging in by validating their email address.
Actors	Student, Super Admin
Preconditions	Student must have logged into their university email account.
Description	<ol style="list-style-type: none"> <li>1. Student clicks “Register”</li> <li>2. System shows the registration form.</li> <li>3. Student enters the university email address.</li> <li>4. Student enters a password.</li> <li>5. Student clicks “Register”</li> <li>6. System sends a verification OTP number to the email.</li> <li>7. Student enters the OTP number.</li> <li>8. System stores details of the student in the database if OTP is valid.</li> <li>9. Student is directed to the Home Page.</li> </ol>
Alternative	<ol style="list-style-type: none"> <li>1. Student completes up to step 7 in description.</li> <li>2. System asks to recheck and enter the OTP again if invalid.</li> <li>3. Return to step 2 in alternative if OTP is invalid again.</li> </ol>
Exceptions	Already registered users
Postconditions	None

Use Case	<b>Login</b>
Use Case Number	2
Summary	User logs in to the system with the given credentials during the registration process. User can choose the forget password option and system will send a link to the given email address to recover the password.
Actors	Student, Student representative, Club representative, Counselor, Admin, Super Admin
Preconditions	Student, Student representative and Club representative and Super admin must have registered with the system before and the counselor and admin must got their respective account credentials.
Description	<ol style="list-style-type: none"> <li>1. User clicks “Login”</li> <li>2. System shows the login form.</li> <li>3. User enters the email address.</li> <li>4. User enters the password.</li> <li>5. User clicks “Login”</li> <li>6. System validates the details.</li> <li>7. Return to step 2 if details are invalid.</li> <li>8. User is directed to respective home page if details are valid</li> </ol>
Alternative	<ol style="list-style-type: none"> <li>1. User clicks “Forgot Password.”</li> <li>2. System sends a link to update the password to the given email address.</li> <li>3. User adds a new password.</li> <li>4. Return to step 2 in description.</li> </ol>
Exceptions	Not registered users
Postconditions	None
Assumption	<ol style="list-style-type: none"> <li>1. The user account has a valid email address linked to it. If not, the user must be registered first.</li> <li>2. Only the genuine users have access to the registered email account.</li> <li>3. Email which is entered by the user when registering is set to be as user ID.</li> <li>4. User ID of the user can be used to uniquely identify the account during login.</li> <li>5. User ID cannot change, it is unique for each person</li> </ol>

Use Case	<b>Log out</b>
Use Case Number	3
Summary	User logs out of the system.
Actors	Student, Student Representative, Club Representative, Counselor, Admin, Super Admin
Preconditions	User must be logged in to the system.
Description	<ol style="list-style-type: none"> <li>1. User clicks “Logout”</li> <li>2. System directs user back to the login page.</li> </ol>
Exceptions	Users who are not logged in to the system.
Postconditions	None

Use Case	<b>Change Password</b>
Use Case Number	4
Summary	User can change their password at any time by giving the current password and email address.
Actors	Student, Student Representative, Club Representative, Counselor, Admin, Super Admin
Preconditions	User must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. User goes to their profile.</li> <li>2. Click on “Change password”.</li> <li>3. User is directed to change password screen.</li> <li>4. User enters current password.</li> <li>5. User re-enters current password.</li> <li>6. User enters new password.</li> <li>7. System updates the database if the current password is correct.</li> <li>8. Return to step 3 if current password is incorrect.</li> </ol>
Exceptions	None
Postconditions	None

Use Case	<b>Edit Profile</b>
Use Case Number	5
Summary	User can edit details such as name, profile picture, alternative email address in their profile
Actors	Student, Student Representative, Club Representative, Counselor, Admin, Super Admin
Preconditions	User must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. User clicks on “Profile”.</li> <li>2. System displays the details in the respective user profile.</li> <li>3. User clicks “Edit”.</li> <li>4. System displays the profile details in editable mode.</li> <li>5. User enters new details.</li> <li>6. User clicks “Confirm”.</li> <li>7. System updates the details in database.</li> <li>8. System prompts the user “Changed successfully”.</li> <li>9. User clicks “Done”</li> </ol>
Exceptions	None
Postconditions	None

Use Case	<b>Search study materials</b>
Use Case Number	6
Summary	Students can search the study materials that have been uploaded by entering keywords or using filters.
Actors	Student
Preconditions	Student must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. Student goes to the dashboard.</li> <li>2. Student enters keywords in the search box.</li> <li>3. Student clicks “Search”.</li> <li>4. If any materials are found which corresponds to the keywords they are displayed.</li> <li>5. If nothing is found system prompts “Match not found”</li> </ol>
Alternative	<ol style="list-style-type: none"> <li>1. Student goes to the dashboard.</li> <li>2. Student set/undo any filters.</li> <li>3. If any materials are found which corresponds to the filters they are displayed.</li> <li>4. If nothing is found system prompts “Match not found”.</li> </ol>
Exceptions	None
Postconditions	None

Use Case	<b>Upload materials to chat</b>
Use Case Number	7
Summary	Students can upload notes and pictures to the public chat.
Actors	Student, Student Representative, Club Representative
Preconditions	Student must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. Student opens the chat.</li> <li>2. Student clicks on the tag icon.</li> <li>3. System lets the user to select a pdf or image.</li> <li>4. Selected file is uploaded to the chat if the size is less than 4MB.</li> <li>5. System prompts user an error message if the size is greater than 4MB and return to step 3.</li> </ol>
Exceptions	None
Postconditions	None

Use Case	<b>Request to upload study materials</b>
Use Case Number	8
Summary	Students who do kuppi sessions can request access to share study materials to the system by sending a request to the student representative.
Actors	Student
Preconditions	Student must log in to the system. Student is not a student representative.
Description	<ol style="list-style-type: none"> <li>1. Student clicks “Request upload access”</li> <li>2. System prompts a message saying, “Confirm Request”.</li> <li>3. Student confirms the message.</li> <li>4. System sends the request to Student representative account.</li> </ol>
Exceptions	None
Postconditions	<ol style="list-style-type: none"> <li>1. If the student representative accepts the request of the student, the student will be given the functionalities to upload, update and delete study materials.</li> <li>2. If the student representative declines the request of the student, the student won’t be given any new functionalities.</li> </ol>

Use Case	<b>Participate in voting</b>
Use Case Number	9
Summary	A student receives a notification about an ongoing voting event and participates in the voting process.
Actors	Student
Preconditions	<p>Student must log to the account.  A voting event is currently active and accessible on the platform.  The respective student account is eligible to vote in the ongoing election.</p>
Description	<ol style="list-style-type: none"> <li>1. The student receives a notification indicating an ongoing voting event on.</li> <li>2. Student clicks the link provided in the notification.</li> <li>3. The system displays the voting interface.</li> <li>4. Student selects the desired candidate.</li> <li>5. The system prompts the student to submit their vote.</li> <li>6. The student submits their choices.</li> <li>7. System updates the database with the selection of the student.</li> </ol>
Exceptions	The other students who the election is not shared with.
Postconditions	<p>The student cannot submit any other votes to that election.  The live results of the election are displayed to the student.</p>

Use Case	<b>View Election Final Results</b>
Use Case Number	10
Summary	The student accesses the system to view the results of a recently concluded voting process.
Actors	Student
Preconditions	<p>The student is registered and logged in to the system.</p> <p>The election event has concluded, and the results have been published on the system.</p> <p>The student was eligible to vote in the concluded election.</p>
Description	<ol style="list-style-type: none"> <li>1. System displays a notification or a highlighted section indicating "Voting Results" on the homepage.</li> <li>2. Student clicks on the "Voting Results" notification or section.</li> <li>3. The system navigates the student to the dedicated "Voting Results" page.</li> <li>4. The student reviews the displayed results which are with a nice data visualization.</li> </ol>
Exceptions	Students who are not eligible to that particular election.
Post conditions	None

Use Case	<b>Reserve available timeslots updated by the counselor</b>
Use Case Number	11
Summary	Student views the counselor's available time slots for private appointments. He finds a convenient time to make an appointment. He reserves.
Actors	Student
Preconditions	Student must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. Student sees the calendar which is regularly updated by the counselor.</li> <li>2. The student selects a preferred date and time slot for the counseling session.</li> <li>3. The system prompts the user to confirm the selected time.</li> <li>4. The student clicks "Confirm".</li> <li>5. System updates the database that the slot has been reserved.</li> </ol>
Exceptions	Students who are not logged in to the system.
Post conditions	<ol style="list-style-type: none"> <li>1. The reserved time slot is no longer available for other students, ensuring the student's preferred appointment time.</li> <li>2. The student receives notifications and reminders about the scheduled counseling session as the appointment date approaches.</li> </ol>

Use Case	<b>View Shared Event Posts</b>
Use Case Number	12
Summary	The student accesses shared posts area to view event posts shared by student clubs and organizations.
Actors	Student
Preconditions	Student must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. The student navigates to the "Events" section of the system.</li> <li>2. The system displays a feed of event posts.</li> <li>3. The student scrolls through the event feed to browse the various event posts shared by different student groups.</li> </ol>
Exceptions	None
Post conditions	None

Use Case	<b>Download Shared Notes and materials.</b>
Use Case Number	13
Summary	The student accesses to download shared study materials, notes, and resources uploaded by other students.
Actors	Student
Preconditions	Student must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. The modules will be categorized. And students can find materials by searching.</li> <li>2. The platform displays a list of available materials.</li> <li>3. Students can view materials and chose what they want to download.</li> <li>4. Students click on the title or download button associated with that material.</li> </ol>
Exceptions	The material should be accessible for student's batch.
Post conditions	None

Use Case	<b>Upload Study Materials and lesson links</b>
Use Case Number	14
Summary	Student Rep Logs to the system and upload materials and lesson links for the relevant academic module
Actors	Student Representative, Teaching Student
Preconditions	<p>The Student Representative is authorized by the system admin and granted the functionalities.</p> <p>The teaching student has received the respective functionalities.</p> <p>Users must log in to the system.</p>
Description	<ol style="list-style-type: none"> <li>1. User clicks the add button by locating the specific module.</li> <li>2. User fills details such as Lesson title.</li> <li>3. User attaches the study material file (e.g., PDF, document.) or attaches the YouTube link of the lesson.</li> <li>4. After verifying the information and file, the user clicks the "Upload" button.</li> <li>5. The system processes the uploaded material and displays a confirmation message upon successful upload.</li> </ol>
Exceptions	Users can upload materials for his batch only.
Post Conditions	The uploaded study material becomes accessible to students registered in the associated academic module.

Use Case	<b>Delete Study Materials</b>
Use Case Number	15
Summary	User Logs to the system and delete a selected material or lesson links for the relevant academic module.
Actors	Student Representative, Teaching Student
Preconditions	<p>User must log in to the system.</p> <p>User previously uploaded study materials that need to be deleted.</p>
Description	<ol style="list-style-type: none"> <li>1. The system displays a list of study materials and lesson links for a specific academic module.</li> <li>2. User identifies the study material to delete.</li> <li>3. For each selected study material, the user clicks on a "Delete" button.</li> <li>4. The system prompts the user to confirm their intention to delete the selected material.</li> <li>5. Upon confirmation, the system processes the deletion request and removes the selected study materials from the system's database and user access.</li> </ol>
Exceptions	Users can delete a selected materials from his batch only.
Post conditions	The deleted material is no longer accessible for students.

Use Case	<b>Update Study Materials</b>
Use Case Number	16
Summary	User Logs to the system and updates selected materials from the relevant academic module.
Actors	Student Representative, Teaching student
Preconditions	User must log in to the system. User has previously uploaded study materials that require updates.
Description	<ol style="list-style-type: none"> <li>1. The system displays a list of study materials and lesson links for a specific academic module.</li> <li>2. User identifies the study material to update.</li> <li>3. For each selected study material, the user clicks on a "Edit" button.</li> <li>4. User does edit process.</li> <li>5. User clicks the update button.</li> <li>6. The system prompts the user to confirm their intention to update the selected material.</li> <li>7. Upon confirmation, the system processes the update request and updates the selected study materials in the system's database and user access.</li> </ol>

Use Case	<b>Update Calendar</b>
Use Case Number	17
Summary	Student Rep Logs to the system and updates the calendar from the assignment due dates, exam dates.
Actors	Student Representative
Preconditions	The Student Representative must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. The Student Representative navigates to the calendar.</li> <li>2. The system displays a calendar interface featuring existing assignment dates and exam dates.</li> <li>3. Using the calendar interface, the Student Representative selects the date for upcoming assignment's due date or an exam.</li> <li>4. Upon inputting the necessary details, the Student Representative confirms the calendar update by clicking "Update" button.</li> <li>5. The system processes the calendar update, ensuring that the newly added assignment due date or exam date.</li> </ol>
Exceptions	Student Rep can update calendar from exam or assignment due dates for his batch only.
Post Conditions	Students receive notifications for the assignment deadlines and exam dates due to the updated calendar.

Use Case	<b>Update Calendar</b>
Use Case Number	18
Summary	User logs to the system and updates the calendar from upcoming event dates.
Actors	Club Representative
Preconditions	The Club Representative must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. Club Representative navigates to the calendar section.</li> <li>2. The platform displays a calendar interface featuring existing dates, such as upcoming event dates.</li> <li>3. Using the calendar interface, the Club Representative selects the specific date.</li> <li>4. Upon inputting the necessary details, the Club Representative confirms the calendar update by clicking a "Save" or "Update" button.</li> <li>5. System processes the calendar update.</li> </ol>
Exceptions	User should be an authorized Club representative in the system by admin.
Post Conditions	Students receive notifications for the upcoming event dates due to the updated calendar.

Use Case	<b>Create Elections</b>
Use Case Number	19
Summary	User can log in to the system and create an election or a poll by entering the relevant details and they can specify the students who can vote in the election.
Actors	Student Representative, Club representative, Admin
Preconditions	User must log in to the system.
Description	<ol style="list-style-type: none"> <li>1. User navigates to the "Elections" section of the system,</li> <li>2. System provides options for creating a new election.</li> <li>3. User defines the election title, description, and purpose.</li> <li>4. User specifies the eligible voter groups (e.g., specific batch).</li> <li>5. User specifies the start and end dates for election.</li> <li>6. After completing the required fields and settings, the Student Representative confirms the creation of the election or poll by clicking a "Publish" button.</li> </ol>
Alternative	<ol style="list-style-type: none"> <li>1. User navigates to the "Polls" section of the system,</li> <li>2. System provides options for creating a new poll.</li> <li>3. User defines the poll title, description, and purpose.</li> <li>4. User specifies the eligible voter groups (e.g., specific batch).</li> <li>5. User sets the poll question and provides multiple answer options.</li> <li>6. User specifies the start and end dates for polling.</li> <li>7. After completing the required fields and settings, the Student Representative confirms the creation of the election or poll by clicking a "Publish" button.</li> </ol>
Post Conditions	Students can make their vote and submit in between the given time.

Use Case	<b>Delete Elections</b>
Use Case Number	20
Summary	Admin can delete election-related data and results.
Actors	Admin
Preconditions	Admin is logged into the system. Elections have taken place.
Description	<ol style="list-style-type: none"> <li>1. Admin navigates to the "Elections" section.</li> <li>2. System displays a list of past elections.</li> <li>3. Admin selects a specific election to delete.</li> <li>4. System shows the details of the selected election.</li> <li>5. Admin confirms the decision to delete the election.</li> <li>6. System prompts for confirmation.</li> <li>7. Admin confirms the deletion.</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Election-related data and results are deleted from the system.

Use Case	<b>Manage Requests</b>
Use Case Number	21
Summary	Student Representatives accept requests of Kuppi uploaders and give them access and decline not applicable requests of students to appointed as Kuppi Uploaders. Admin accept requests of Student Representatives and give them access and decline requests of Student Representatives who are not eligible.
Actors	Student Representative, Admin
Preconditions	Student Representatives and admins must have log in to the account. Student Representatives must have authorized by the admin
Description	<ol style="list-style-type: none"> <li>1. The user receives a notification whenever a student requests a role.</li> <li>2. User checks the eligibility of the student.</li> <li>3. Then user clicks the notification in the notification panel.</li> <li>4. Then user can accept or decline the student's request.</li> </ol>
Exceptions	A student representative in a batch able to accept requests of the students in same batch
Postconditions	After accepting requests, the appointed students must have relevant access to the system

Use Case	<b>Upload Posts</b>
Use Case Number	22
Summary	Users can upload relevant posts according to their roles
Actors	Club representative, Counselor, Admin
Preconditions	Users must have log in to the account. Club Representatives must have authorized by the admin
Description	<ol style="list-style-type: none"> <li>1. Select “Upload post” option.</li> <li>2. Then Upload the post.</li> <li>3. Then select the audience.</li> <li>4. Then click “Publish” Option</li> </ol>
Exceptions	The post is displayed to target audience in the announcement feed.
Postconditions	When the post published a notification goes through on-site notifications for the target audience.

Use Case	<b>Delete Posts</b>
Use Case Number	23
Summary	Users can delete unwanted and out of date posts, that they are published.
Actors	Club representative, Counselor, Admin
Preconditions	There must be a previously published post. Users must have log in to the account. Club Representatives must have authorized by the admin
Description	<ol style="list-style-type: none"> <li>1. Select relevant post that uploaded by user.</li> <li>2. Then select “Delete Post” option.</li> <li>3. Then click “Confirm”.</li> </ol>
Exceptions	The deleted post is not visible to any person in the target audience.
Postconditions	The deleted post is not recoverable. Admins have the access to delete any of unwanted and out of dated posts

Use Case	<b>Update Posts</b>
Use Case Number	24
Summary	Users can update relevant posts which they are posted and currently available in the feed.
Actors	Club representative, Counselor, Admin
Preconditions	<p>There must be a previously updated post.</p> <p>Users must have log in to the account.</p> <p>Club Representatives must have authorized by the admin</p>
Description	<ol style="list-style-type: none"> <li>1. Select relevant post that uploaded by user.</li> <li>2. User selects “Update Post” option.</li> <li>3. User makes necessary changes to the post.</li> <li>4. User clicks “Republish”.</li> </ol>
Exceptions	The updated post is displayed to target audience in the announcement feed.
Postconditions	When the published post updated, a notification goes through on-site notifications for the target audience.

Use Case	<b>View Posts</b>
Use Case Number	25
Summary	Users can view the posts which displayed in the feed. Post publishers can also view the posts in the feed which they were published.
Actors	Club representative, Counselor, Admin, Student representative, Student
Preconditions	There must be a previously uploaded post. Users must have log in to the account. The post uploaders must have uploaded posts.
Description	<ol style="list-style-type: none"> <li>1. Go to the dashboard.</li> <li>2. In the dashboard there is a separate section for posts.</li> <li>3. By clicking each post, we can have a detailed view.</li> </ol>
Exceptions	The relevant posts are displayed on the feed of the target audience.
Postconditions	When a user views a post, the view count for the post must have to be updated automatically.

Use Case	<b>Generate Reports</b>
Use Case Number	26
Summary	Users can generate reports about the elections and polls which they are created. Admin can generate reports about the system and student engagements in the system.
Actors	Club representative, Student representative, Admin
Preconditions	There must be a previously created election or poll. Users must have log in to the account. Club Representatives and student representatives must have authorized by the admin.
Description	<ol style="list-style-type: none"> <li>1. Select relevant election/poll that created by the user.</li> <li>2. Then select “Analysis” option.</li> <li>3. Then select “Generate Report” option.</li> <li>4. After that the pdf file of the report is downloaded.</li> </ol>
Exceptions	The downloaded report includes all the relevant detailed analytics with charts.
Postconditions	None

Use Case	<b>View Live Responses</b>
Use Case Number	27
Summary	Users can view live responses of the ongoing elections and polls in the system.
Actors	Club representative, Student representative, Admin
Preconditions	<p>There must be an ongoing election or poll.          Users must have log in to the account.          Club Representatives and student representatives must have authorized by the admin</p>
Description	<ol style="list-style-type: none"> <li>1. Navigate to the Election and poll section in the system.</li> <li>2. Select the ongoing election or poll that wanted to view live responses.</li> <li>3. Then select “View Live Responses” option.</li> </ol>
Exceptions	The live results and analytics are displayed in the charts.
Postconditions	None

Use Case	<b>View Reservations</b>
Use Case Number	28
Summary	Users can view the student information about the reservations and past reservations of the student.
Actors	Counselor
Preconditions	<p>Users must have log in to the account.          A students must have reserve counseling sessions with counselor.</p>
Description	<ol style="list-style-type: none"> <li>1. Navigate to the reservation section in the system.</li> <li>2. Select relevant Reservation.</li> <li>3. Then select “View Details” option.</li> </ol>
Exceptions	<p>The student details are listed under the student information section.          The student’s past reservations listed under the Past Activity section.</p>
Postconditions	After the counseling session completed the reservation goes to the completed sessions section.

Use Case	<b>Add time Slots</b>
Use Case Number	29
Summary	Users can add their available time slots for counseling sessions in the system calendar.
Actors	Counselor
Preconditions	Users must have log in to the account.
Description	<ol style="list-style-type: none"> <li>1. Navigate to the “Update calendar” section in the system.</li> <li>2. Then there is a calendar to update time slots.</li> <li>3. Click on a relevant date in the calendar then select “update time slots” option.</li> <li>5. Then in the update time slots section counselor can publish his available time slots.</li> </ol>
Exceptions	The updated time slots are displayed for all the students in counselor booking section.
Postconditions	None

Use Case	<b>Delete Available Time Slot</b>
Use Case Number	30
Summary	Student counselors can delete their available time slots for physical meetings.
Actors	Counselor
Preconditions	Student Counselor is logged into the system. At least one available time slot has been created by the Student Counselor.
Description	<ol style="list-style-type: none"> <li>1. Student Counselor navigates to the "My Schedule" section.</li> <li>2. System displays a list of the Student Counselor's available time slots.</li> <li>3. Student Counselor selects a specific time slot to delete.</li> <li>4. System shows the details of the selected time slot.</li> <li>5. Student Counsellor confirms the decision to delete the time slot.</li> <li>6. System prompts for confirmation.</li> <li>7. Student Counsellor confirms the deletion.</li> </ol>
Exceptions	None
Postconditions	Selected available time slot is deleted from the Student Counsellor's schedule.

Use Case	<b>Update Available Time Slot</b>
Use Case Number	31
Summary	Student counsellors can update details of their available time slots for physical meetings.
Actors	Student Counsellor
Preconditions	Student Counselor is logged into the system. At least one available time slot has been created by the Student Counselor.
Description	<ol style="list-style-type: none"> <li>1. Student Counselor navigates to the "My Schedule" section.</li> <li>2. System displays a list of the Student Counselor's available time slots.</li> <li>3. Student Counselor selects a specific time slot to update.</li> <li>4. System shows the details of the selected time slot.</li> <li>5. Student Counselor makes necessary changes to the time slot details (date, time, location, etc.).</li> <li>6. Student Counsellor confirms the updated details.</li> <li>7. System verifies the entered details and updates the time slot.</li> </ol>
Alternative	In step 6, if entered details are invalid, Student Counselor is prompted to correct the information.
Postconditions	Selected available time slot is updated with the new details.

Use Case	<b>View Available Slots</b>
Use Case Number	32
Summary	Students can view the available time slots of student counsellors for scheduling meetings.
Actors	Student
Preconditions	Student is logged into the system. At least one student counsellor has created available time slots.
Description	<ol style="list-style-type: none"> <li>1. Student navigates to the "Counsellor Availability" section.</li> <li>2. System displays a list of available student counsellors.</li> <li>3. Student selects a specific student counsellor to view their available time slots.</li> <li>4. System shows the available time slots of the selected student counsellor.</li> </ol>
Exceptions	None
Postconditions	Student gains access to the available time slots of the selected student counsellor for scheduling meetings.

Use Case	<b>Accept Counsellor Reservations</b>
Use Case Number	33
Summary	Student counsellors can accept reservations from students for physical meetings.
Actors	Student Counsellor
Preconditions	Student Counselor is logged into the system. Student has made a reservation request
Description	<ol style="list-style-type: none"> <li>1. Student Counselor navigates to the "Reservations" section.</li> <li>2. System displays a list of pending reservation requests.</li> <li>3. Student Counselor selects a specific reservation request.</li> <li>4. System shows the details of the reservation request.</li> <li>5. Student Counselor reviews the request details and confirms availability.</li> <li>6. Student Counselor clicks "Accept" for the reservation.</li> <li>7. System sends a notification to the student confirming the accepted reservation</li> </ol>
Alternative	In step 6, if the Student Counselor cannot confirm availability, they click "Decline" and proceed to the "Decline Counsellor Reservations" use case.
Exceptions	None
Postconditions	Student reservation status is updated to "Accepted." Student receives a notification confirming the accepted reservation.

Use Case	<b>Decline Counsellor Reservations</b>
Use Case Number	34
Summary	Student counsellors can decline reservations from students for physical meetings.
Actors	Student Counsellor
Preconditions	Student Counselor is logged into the system. Student has made a reservation request
Description	<ol style="list-style-type: none"> <li>1. Student Counselor navigates to the "Reservations" section.</li> <li>2. System displays a list of pending reservation requests.</li> <li>3. Student Counselor selects a specific reservation request.</li> <li>4. System shows the details of the reservation request.</li> <li>5. Student Counselor reviews the request details and decides to decline.</li> <li>6. Student Counselor enters a reason for declining the reservation.</li> <li>7. Student Counselor clicks "Decline" for the reservation.</li> <li>8. System sends a notification to the student explaining the declined reservation</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Student reservation status is updated to "Declined." Student receives a notification explaining the declined reservation.

Use Case	<b>Create Counsellor Account</b>
Use Case Number	35
Summary	Admin can create new student counsellor accounts.
Actors	Admin
Preconditions	Admin is logged into the system.
Description	<ol style="list-style-type: none"> <li>1. Admin navigates to the "Admin Dashboard" section.</li> <li>2. Admin clicks "Create New Counselor Account."</li> <li>3. System presents a form to enter counsellor details (name, email, etc.).</li> <li>4. Admin enters the required details.</li> <li>5. Admin clicks "Create Account."</li> <li>6. System verifies the entered details and creates the counsellor account.</li> <li>7. System sends a notification to the new counsellor with login credentials.</li> </ol>
Alternative	In step 7, if entered details are invalid, Admin is prompted to correct the information.
Exceptions	None
Postconditions	New student counsellor account is created and added to the system.

Use Case	<b>Delete Counsellor Account</b>
Use Case Number	36
Summary	Admin can delete existing student counsellor accounts
Actors	Admin
Preconditions	Admin is logged into the system. At least one student counsellor account exists.
Description	<ol style="list-style-type: none"> <li>1. Admin navigates to the "Counsellor Management" section.</li> <li>2. System displays a list of current counsellors.</li> <li>3. Admin selects a specific counsellor account to delete.</li> <li>4. System shows the details of the selected counsellor account.</li> <li>5. Admin confirms the decision to delete the account.</li> <li>6. System prompts for confirmation.</li> <li>7. Admin confirms the deletion.</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Selected student counsellor account is deleted from the system.

Use Case	<b>View System Logs</b>
Use Case Number	37
Summary	Admin can view logs of system activities and events.
Actors	Admin
Preconditions	Admin is logged into the system.
Description	<ol style="list-style-type: none"> <li>1. Admin navigates to the "System Logs" section.</li> <li>2. System displays a list of recent system activities and events.</li> <li>3. Admin selects a specific log entry to view details.</li> <li>4. System shows detailed information about the selected log entry.</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Admin gains insight into system activities and events.

Use Case	<b>View System Analytics</b>
Use Case Number	38
Summary	Admin can view analytics and statistical data about system usage and performance.
Actors	Admin
Preconditions	Admin is logged into the system.
Description	<ol style="list-style-type: none"> <li>1. Admin navigates to the "System Analytics" section.</li> <li>2. System displays a dashboard with various analytical data and visualizations.</li> <li>3. Admin can interact with the dashboard to view different metrics and insights.</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Admin gains an understanding of system usage patterns and performance metrics.

Use Case	<b>Create Admin Account</b>
Use Case Number	39
Summary	Super admin can create new admin accounts.
Actors	Super Admin
Preconditions	Super admin is logged into the system.
Description	<ol style="list-style-type: none"> <li>1. Super admin navigates to the "Super admin Dashboard" section.</li> <li>2. Super admin clicks "Create New Admin Account."</li> <li>3. System presents a form to enter admin details (name, email, etc.).</li> <li>4. Super admin enters the required details.</li> <li>5. Super admin clicks "Create Account."</li> <li>6. System verifies the entered details and creates the admin account.</li> <li>7. System sends a notification to the new admin with login credentials.</li> </ol>
Alternative	In step 7, if entered details are invalid, Super admin is prompted to correct the information.
Exceptions	None
Postconditions	New admin account is created and added to the system.

Use Case	<b>Delete Admin Account</b>
Use Case Number	40
Summary	Super admin can delete existing admin accounts
Actors	Super admin
Preconditions	Super admin is logged into the system. At least one admin account exists.
Description	<ol style="list-style-type: none"> <li>1. Super admin navigates to the "Admin Management" section.</li> <li>2. System displays the details of current admin.</li> <li>3. Super admin confirms the decision to delete the account.</li> <li>4. System prompts for confirmation.</li> <li>5. Super admin confirms the deletion.</li> </ol>
Alternative	None
Exceptions	None
Postconditions	Selected admin account is deleted from the system.

## 3.4 Functional Requirements

### 3.4.1 Common User

This is used for the ease of describing and categorizing the requirements. He contains all the basic functionalities which are common to every user that we have identified. All the other users will be sub classes of this user.

- Can register to the system.
- Can login to the system.
- Can logout from the system.
- Can change their password.
- Can view and update their user profile.

### 3.4.2 Student

- Can view the study materials uploaded in the system.
- Can download the short notes uploaded in the system.
- The students who do kuppi sessions can request access from the student representative to upload materials to the system.
- Can view academic and event calendars.
- Can receive onsite notifications or/and email notifications.
- Can view the posts shared in public forum, event feed and counselor feed.
- Can participate in elections.
- Can view results of the elections.
- Can view the availability of the counselors and reserve time slots.
- Can share materials to the public chat.

### 5.4.3 Student Representative

- Has all the functionalities of the student.
- Can create elections and generate reports from the results.
- Can update the calendar with assignment and exam dates.
- Can manage the study materials by updating, deleting, and uploading.
- Can accept or decline the requests sent by the students to upload study materials.

### 3.4.4 Club Representative

- Has all the functionalities of the student.
- Can create elections and generate reports from the results.
- Can update the calendar with the upcoming events of their club/society.
- Can manage the posts in the club feed by uploading, updating, deleting and viewing.

### 3.4.5 Counselor

- Can add, delete, update, and view the available timeslots.
- Can view, decline, or accept the reservations done by the students.
- Can receive notifications when a student request to reserve a timeslot.
- Can manage the counselor feed by uploading, updating and deleting the posts.

### 3.4.6 System Admin

- Can view the system analytics and logs in the system.
- Can generate reports from the analytics.
- Can accept or decline the requests done by the students as student representatives and club representatives.
- Can manage the posts and materials shared in the system by viewing, updating, uploading, and deleting.
- Can create or delete the counselor accounts.

### 3.4.7 Super Admin

- Can create, delete, and moderate the admin account.

## 3.5 Quality Attributes

### 3.5.1 Reliability

- The shared study materials will be kept up to date via the student representatives and administrators.
- The server will be hosted on a cloud platform and will be accessible at any time.
- Dynamic Load Balancing will be used to handle traffic spikes.
- The system will be continuously checked for errors and bugs to improve reliability.

### 3.5.2 Security

- Students' personal details are secured from other users. Even the admin cannot access the details of the students who request for counseling sessions.
- When a user wants to create an account, his account is verified using his university mail, and their passwords will be secured by using hashing.
- Some user logs will be created for tracking sensitive actions in our system.
- We implement secure authentication mechanisms and role-based access control to protect user accounts and sensitive information from unauthorized access.

### 3.5.3 Usability

- Using confirmation messages to minimize user errors.
- Customized and simple-to-use layouts.
- Providing a mobile-friendly user interface.
- Easily navigable interface.

### 3.5.4 Performance

- The main logic of resource expensive areas of the code will be thoroughly tested and optimized to get the maximum possible performance.
- The database will be normalized to allow fast transactions.
- Database queries that are used will be optimized to enable faster running times and minimize computing time.

### 3.5.5 Availability

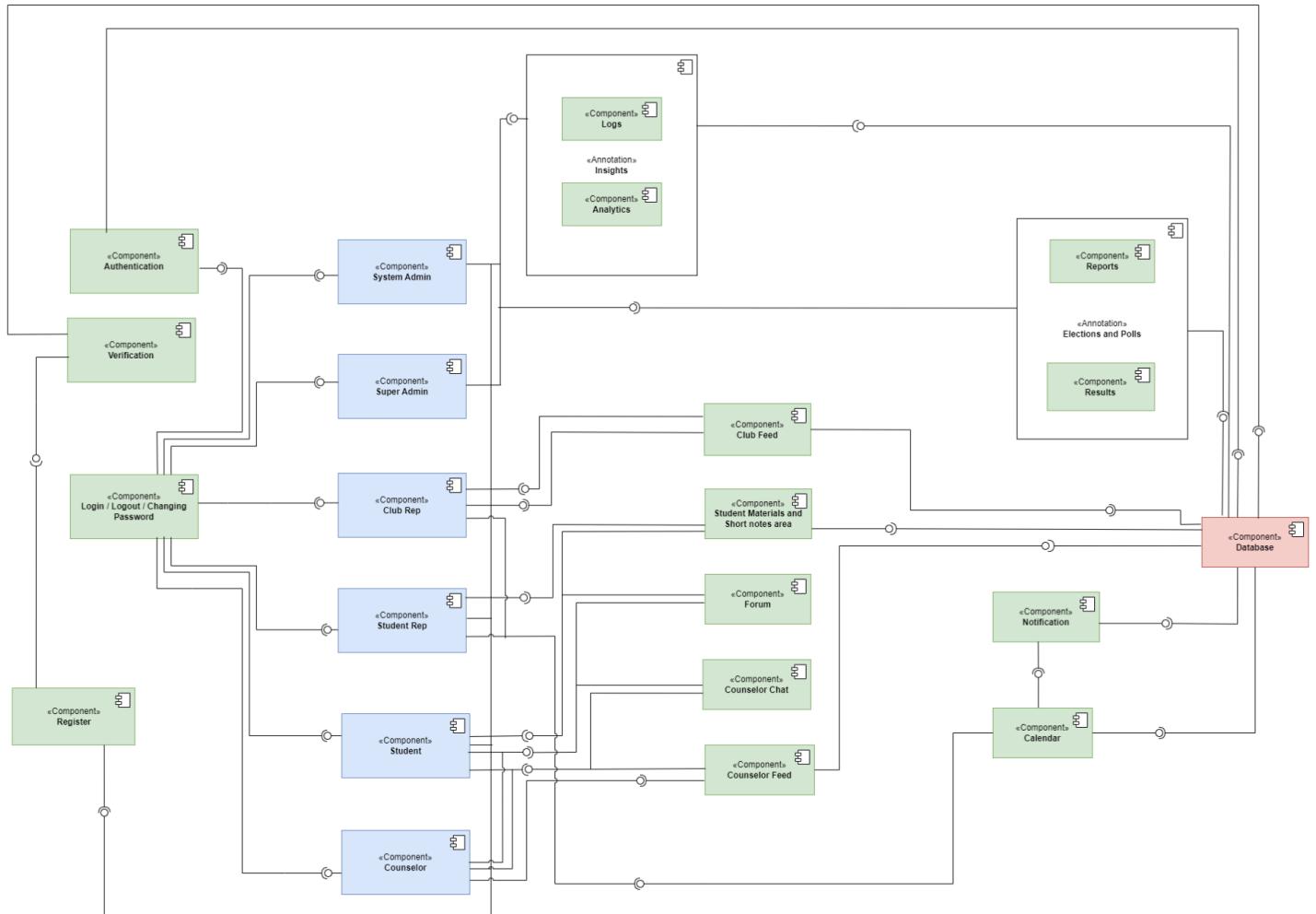
- We are using Amazon Web Services so our system will have a 99.95% uptime except in the case of maintenance or crashes.
- The application is containerized and deployed directly on a container runtime (a PaaS) of the cloud provider.
- Application and infrastructure configuration is committed to the source repository (for better consistency) Disaster Recovery As the application is containerized there won't be a problem recovering the application.
- Schedule frequent maintenance windows during periods of low demand to install updates, optimize databases, and resolve any potential issues ahead of time.
- We are to use a docker image for our platform. This ensures that the application runs reliably from development to production settings. It also makes it easier to deploy the platform on numerous servers and cloud services.

## 4. System Architecture

### 4.1 Component Diagram

The complete component diagram can be viewed from:

[https://drive.google.com/file/d/14\\_VUz3NKMb5k1PKLA6uaXMesEFHsZ03g/view?usp=sharing](https://drive.google.com/file/d/14_VUz3NKMb5k1PKLA6uaXMesEFHsZ03g/view?usp=sharing)



## 4.2 Components and their responsibilities

### 4.2.1 Register Component

- Responsible for all the functions related to the registration of users

### 4.2.2 Login Component

- Responsible for all the functionalities related to the login of users.

### 4.2.3 Verification Component

- Responsible for the functionalities of verifying the user details when they register to the system.

### 4.2.4 Authentication Component

- Responsible for the functionalities of verifying and confirming user's identity when they log in to the application.

### 4.2.5 Notification Component

- Manages all aspects of sending messages and alerts to users. It handles the delivery of various types of notifications, including updates, reminders and important information ensuring a timely delivery.

### 4.2.6 Calendar Component

- Responsible for displaying assignment deadlines, exam schedules, club event details and counselor availability. It offers real time updates to users.

### 4.2.7 Database Component

- Responsible for transferring data to and from the database to the relevant queries

### 4.2.8 Election and Poll Component

- Responsible for secure and transparent student elections, enabling the creation, management, and monitoring of polls and elections. It provides an interface for conducting elections, displaying live results, and generating reports.
- It contains two subcomponents
  - Report component: responsible for the report generation of the election and poll results
  - Results component: responsible for displaying live results when the election/poll is ongoing and displaying the results when the election/poll is over

#### 4.2.9 Insights Component

- The Insights component in AkaHUB manages logs and system analytics.
- It contains two subcomponents
  - System logs component: responsible for capturing and storing system logs.
  - System analytics component: responsible for providing analytics for user behavior and performance of the system
- This component enables comprehensive system monitoring, log tracking, and analytical insights.

#### 4.2.10 System Admin Component

- Responsible for the functionalities accessible to the system admin. It provides access to enable viewing of system analytics and logs, generating analytical reports, approving requests from student and club representatives, managing system content, and maintaining counselor accounts by creating or deleting them.

#### 4.2.11 Student Component

- Responsible for the functionalities accessible to students. It provides access to academic resources, event details, voting features, scheduling tools, and counseling services.

#### 4.2.12 Student Representative Component

- Responsible for the functionalities accessible for the student representatives. It allows to create elections, update the calendar with academic dates, manage study materials, and oversee content requests.

#### 4.2.13 Club Representative Component

- Responsible for the functionalities accessible for the club representatives. It allows to create elections, generate result reports, update the calendar with their club's upcoming events, and oversee club feed posts.

#### 4.2.14 Counselor Component

- Responsible for the functionalities accessible for the counselor. It provides access to manage timeslots for available counseling schedules. They can respond to student reservations, receive notifications for reservation requests, and manage the counselor feed.

#### 4.2.15 Super Admin Component

- Responsible for the functionalities accessible for the super admin. It provides access to create and manage admin accounts.

#### 4.2.16 Club Event Feed Component

- Allows club representatives to share, update, and manage posts related to their club's activities, events.

#### 4.2.17 Shared Materials Component

- Hosts a repository of educational resources such as notes, recorded lectures, and supplementary materials uploaded by students, fostering a centralized hub for academic content.

#### 4.2.18 Counselor Chat Component

- Provides a private and secure space for students to engage in one-on-one discussions with counselors. Contains encryption of messages passed in between and hiding user details who are engaged in the chat.

#### 4.2.19 Public Forum Component

- Serves as an open platform where users can engage in discussions, share information, and interact with each other.

#### 4.2.20 Counselor Feed Component

- Permits counselors to share, update, and manage informational posts.

### 4.2 Component Interactions

#### 1. User Registration component

##### With Frontend User Interface:

It collects user-entered registration details and validate user-provided information. This interaction is triggered when the user submits the registration form.

##### With User Authentication Components:

It interacts with User Authentication Component to verify the data's security and accuracy during the user registration process. The User Registration component sends the user's registration details to the User Authentication Component for security checks and also communicates to ensure the provided data is valid. This interaction occurs as part of the user registration process.

##### With User Database:

It communicates with the User Database to store the user's registration details securely. It sends the user's registration information to the User Database for storage. This interaction is initiated after the registration information is validated. The User Database component securely stores the user's account information, enabling future login and user management.

## 2. User Login Component

### With Frontend User Interface:

It collects user-entered login credentials from the frontend. It receives and forwards the user's login information to the authentication component. This interaction is initiated when a user submits the login form. The User Login component initiates the authentication process.

### With Authentication Component:

It interacts with the Authentication Component to verify user credentials and determine if access should be granted. The User Login component sends the user's provided credentials to the Authentication Component. The interaction is initiated after the user submits their login credentials. The Authentication Component verifies the user's credentials. If successful, the User Login component grants access to the application. If unsuccessful, it may display an error message.

### With User Database:

It communicates with the User Database to retrieve user account information for authentication. It sends the user's credentials to the User Database for comparison. This interaction occurs as part of the authentication process. The User Database component checks the credentials and provides the necessary information for authentication.

## 3. Authentication

### User Registration Component:

The User Registration Component collaborates with User Authentication to securely store and authenticate user credentials. During user registration, the component verifies and stores the user's authentication credentials, such as a password hash and username, in a secure manner.

### User Login:

Users interact with the User Authentication Component through the login page, providing their credentials for authentication. User-provided credentials are sent to the User Authentication Component for validation. Successful authentication grants access to the user, while unsuccessful attempts trigger appropriate error handling.

## 4. Notification Component

### Calendar Component:

The notification component fetches data from the calendar component in order to send email and onsite notifications to the users. When a new event is added to the calendar, the notification component fetches the data and create the relevant notification and pass the notification data to the database component. This assures sending real time notifications for all users who are related to the added new event.

## 5. Election and Polls Component

The Elections and Polls component manages the entire voting process and report generation. It receives voting data from the Database Component, processes it to create detailed reports on election outcomes and poll results. These reports, triggered by completed voting cycles, offer users comprehensive insights into voting trends and candidate standings.

## 6. Calendar Component

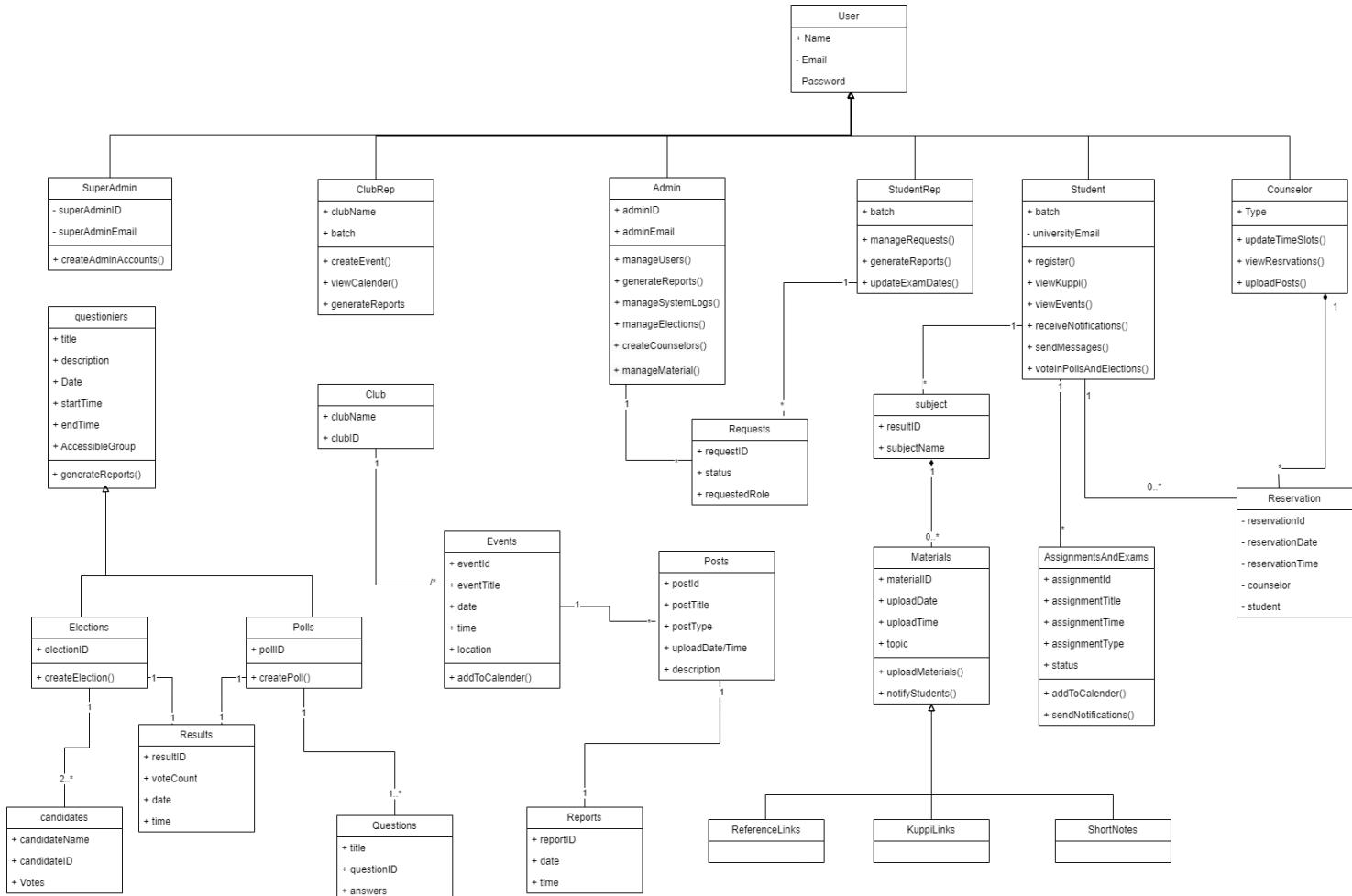
The Calendar component interacts with the database to exchange event and appointment details. It retrieves new event information and appointment details from the database while sending this information to the Notification component. The Notification component then utilizes these details to send relevant notifications to the users.

# 5. System Design

## 5.1 Class Diagram

You can view the complete class diagram using the following link :

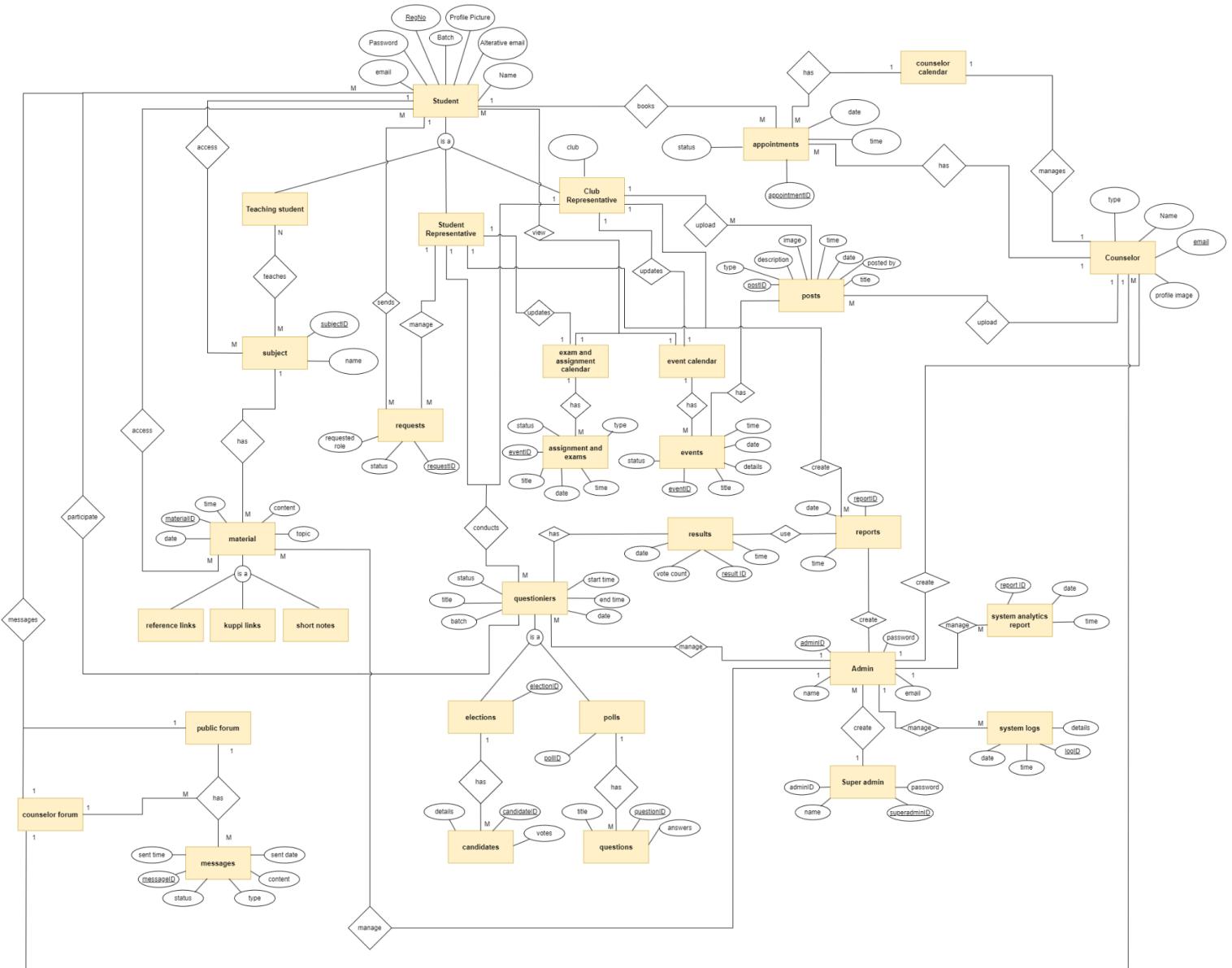
<https://drive.google.com/file/d/1jw-7f6DXpRGh4FsyjLt01TacaZwXba4W/view?usp=sharing>



## 5.2 ER Diagram

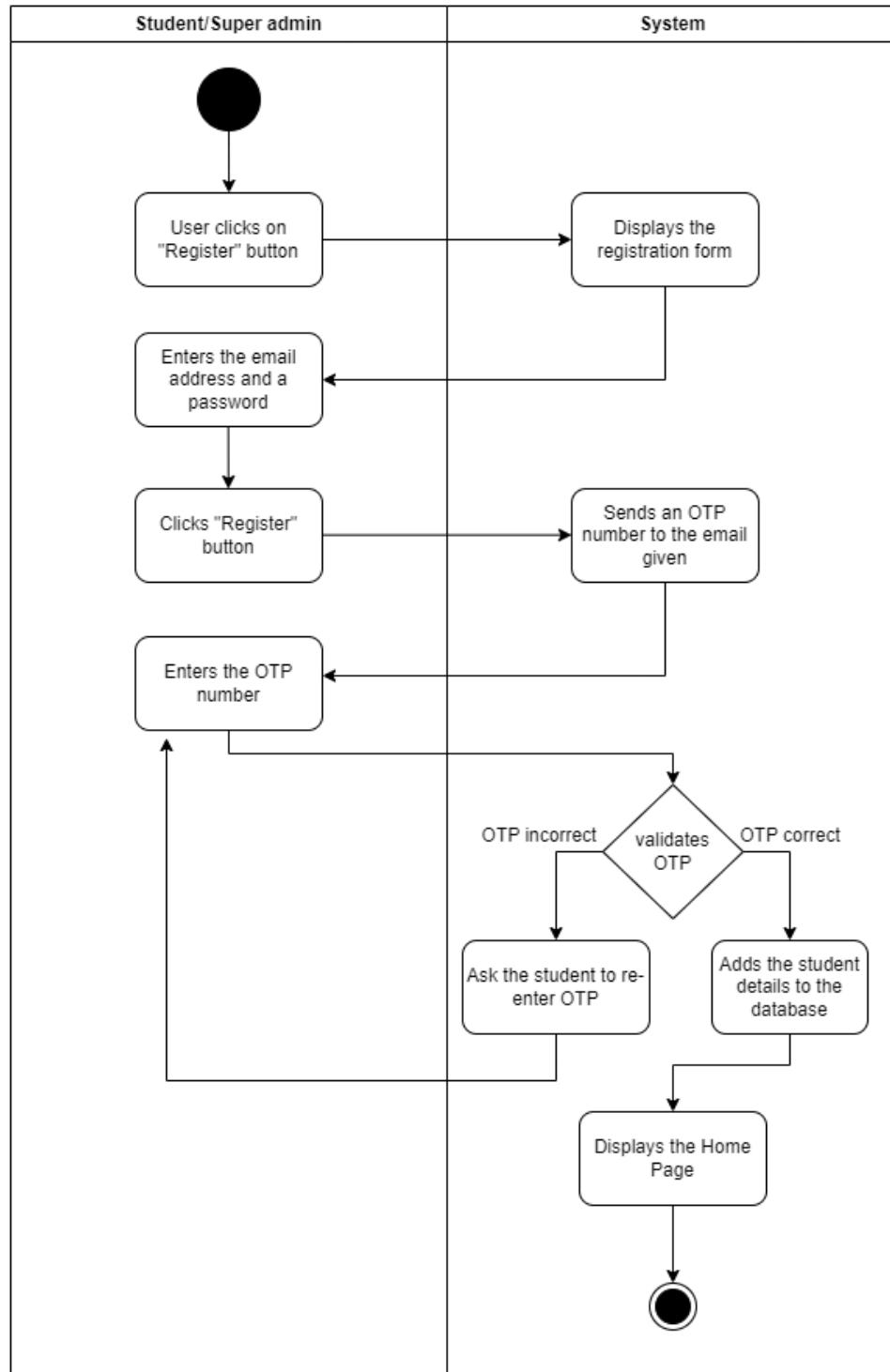
You can view the complete ER diagram from the following link:

[https://drive.google.com/file/d/1X7QDt6fAlwLMoivGjgMatr\\_6m4WXGcLw/view?usp=sharing](https://drive.google.com/file/d/1X7QDt6fAlwLMoivGjgMatr_6m4WXGcLw/view?usp=sharing)

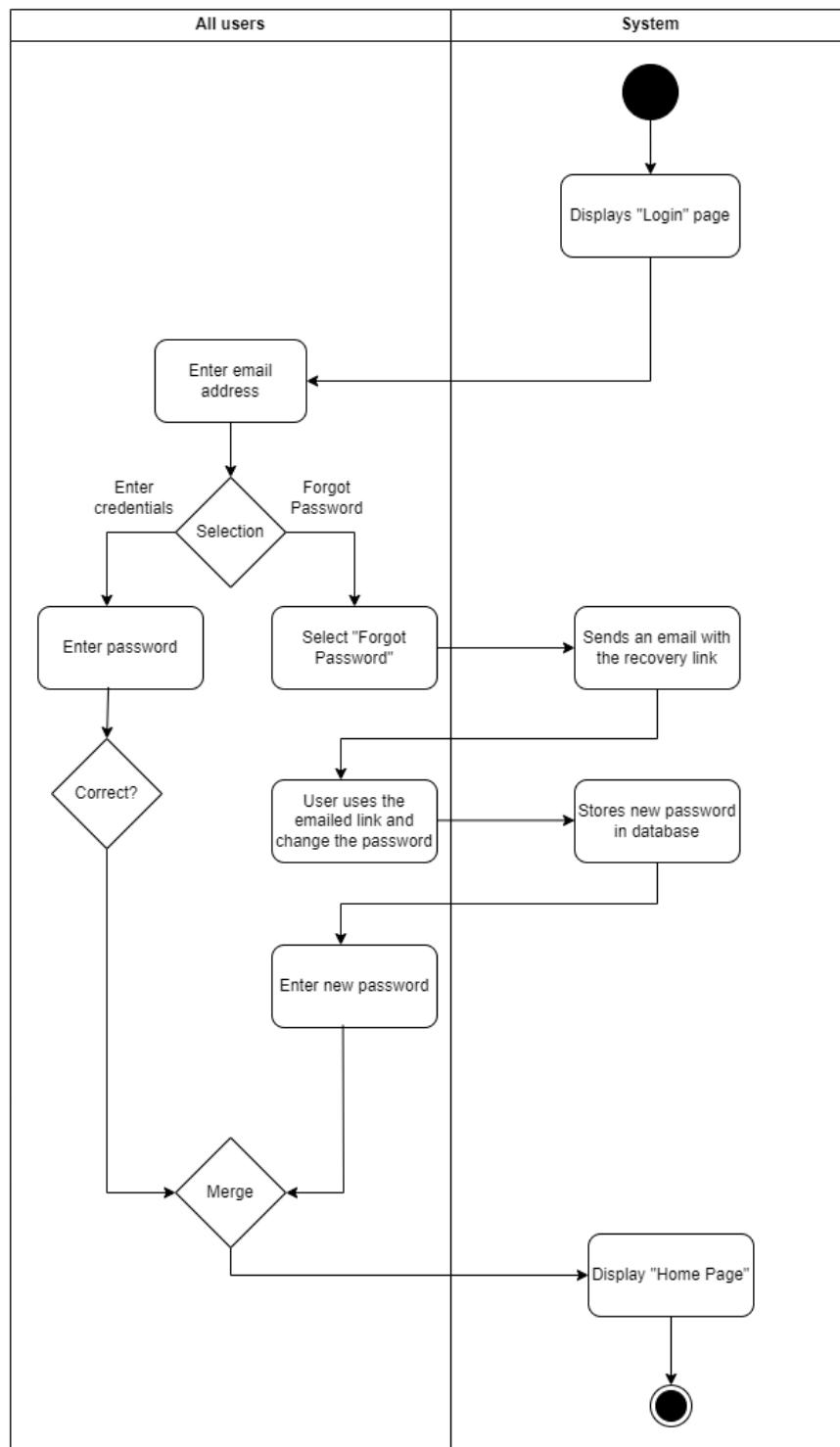


## 5.3 Activity Diagrams

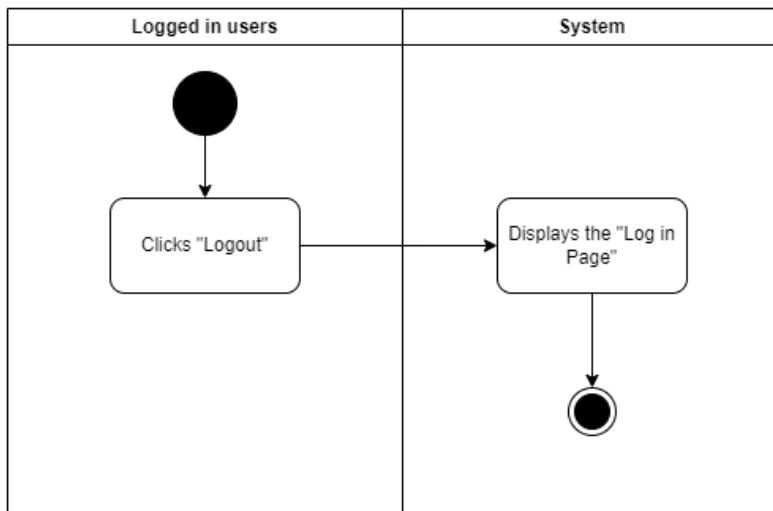
### 7.3.1 Student/Super admin registers to the platform



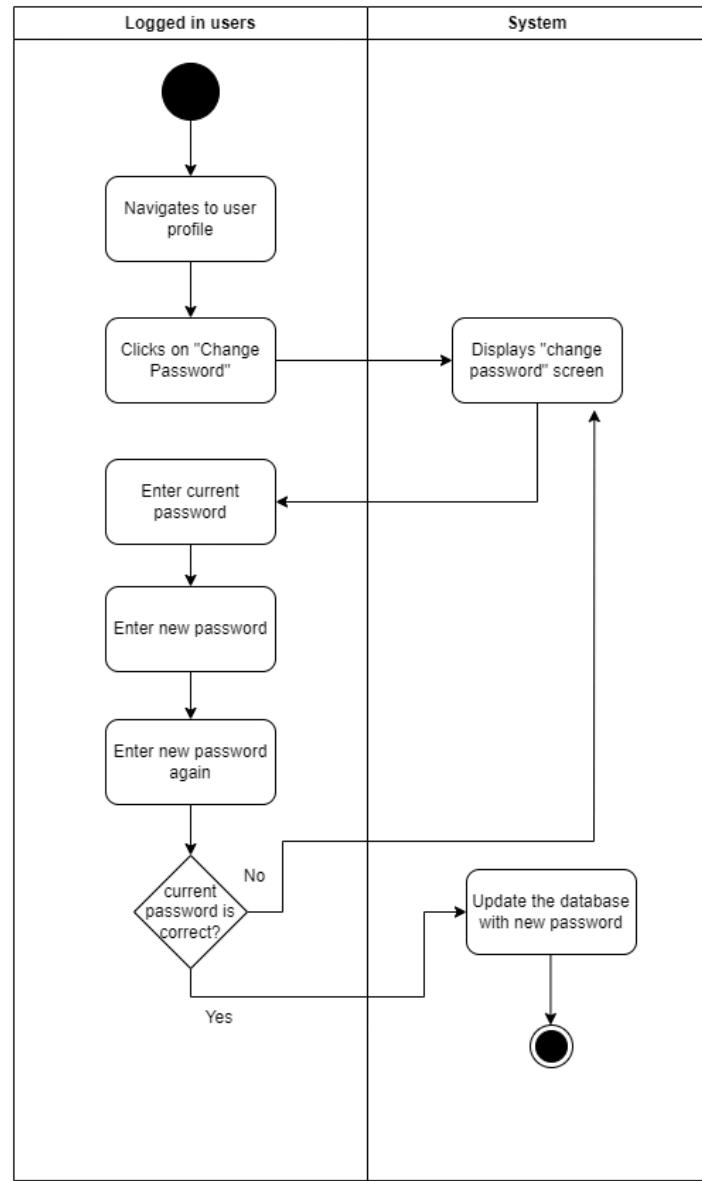
### 7.3.2 All users log in to the platform



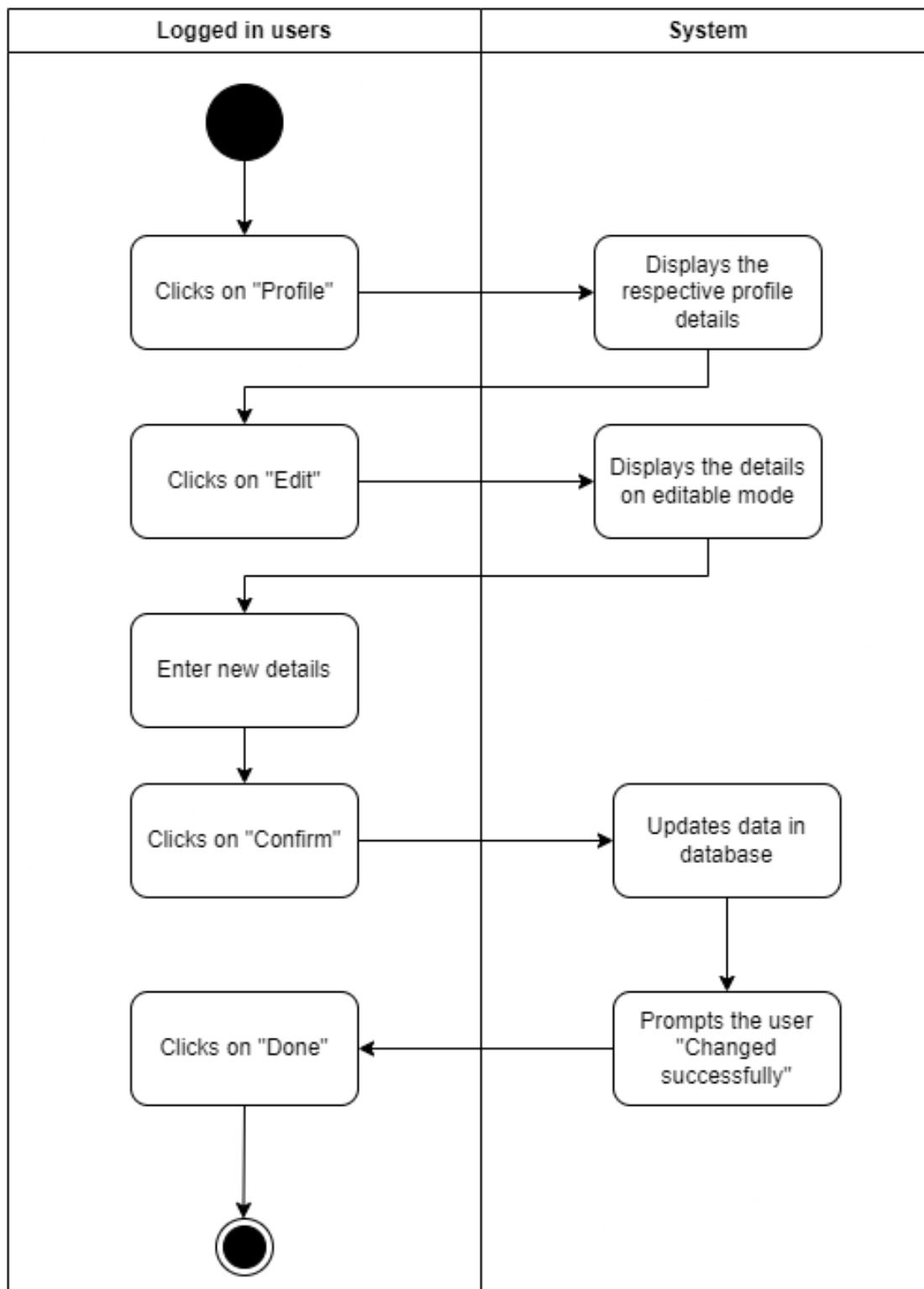
### 7.3.3 All users log out from the system



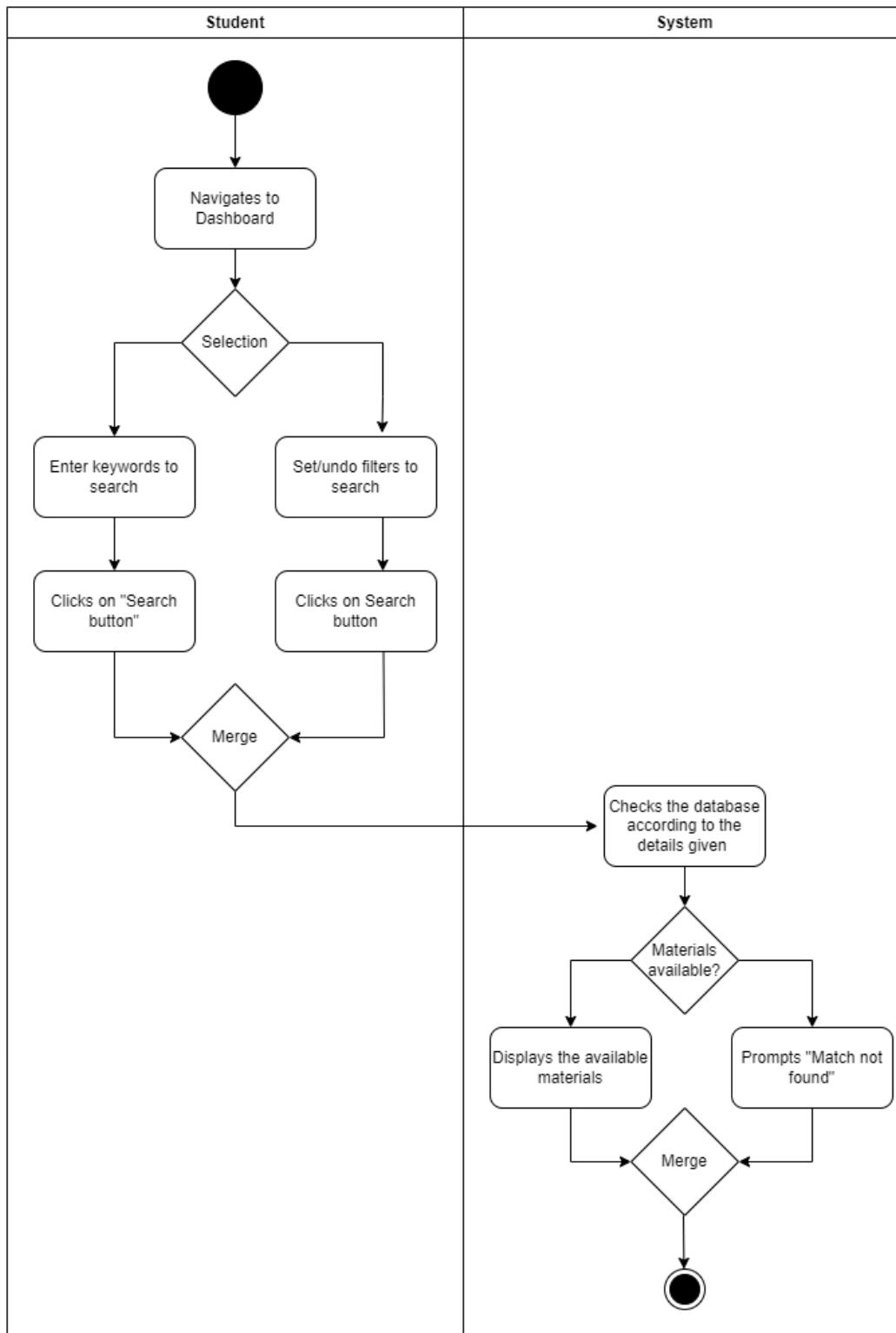
### 7.3.4 All users change password of their account



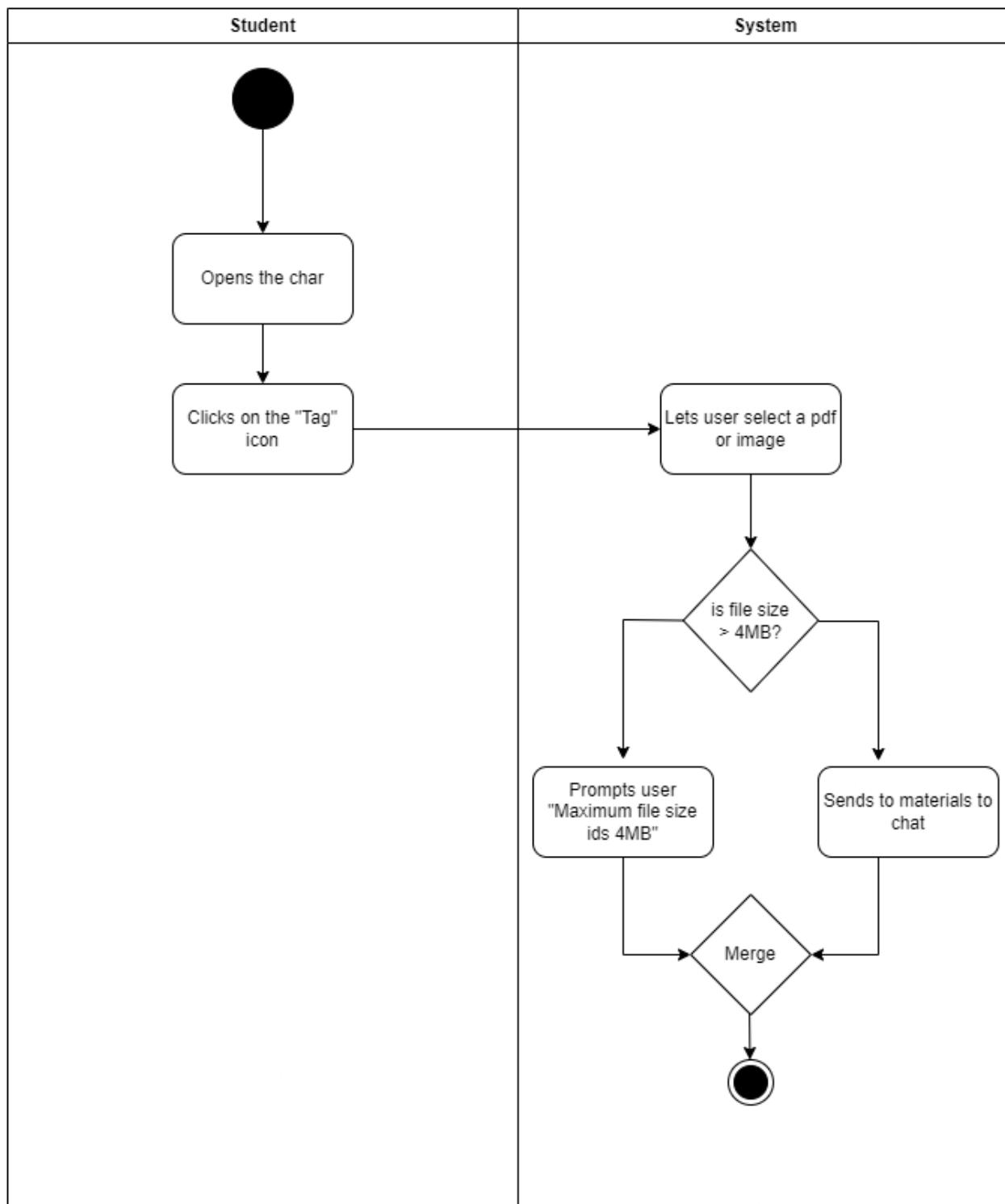
### 7.3.5 All users can edit their profile details



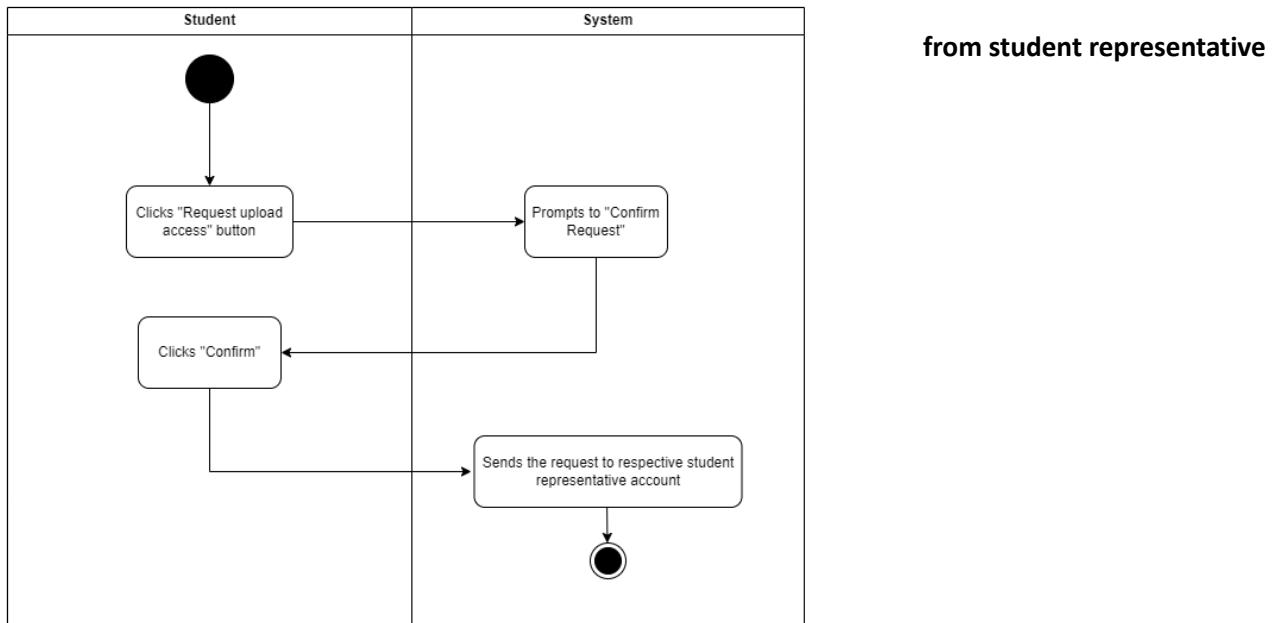
### 7.3.6 Students can search for study materials



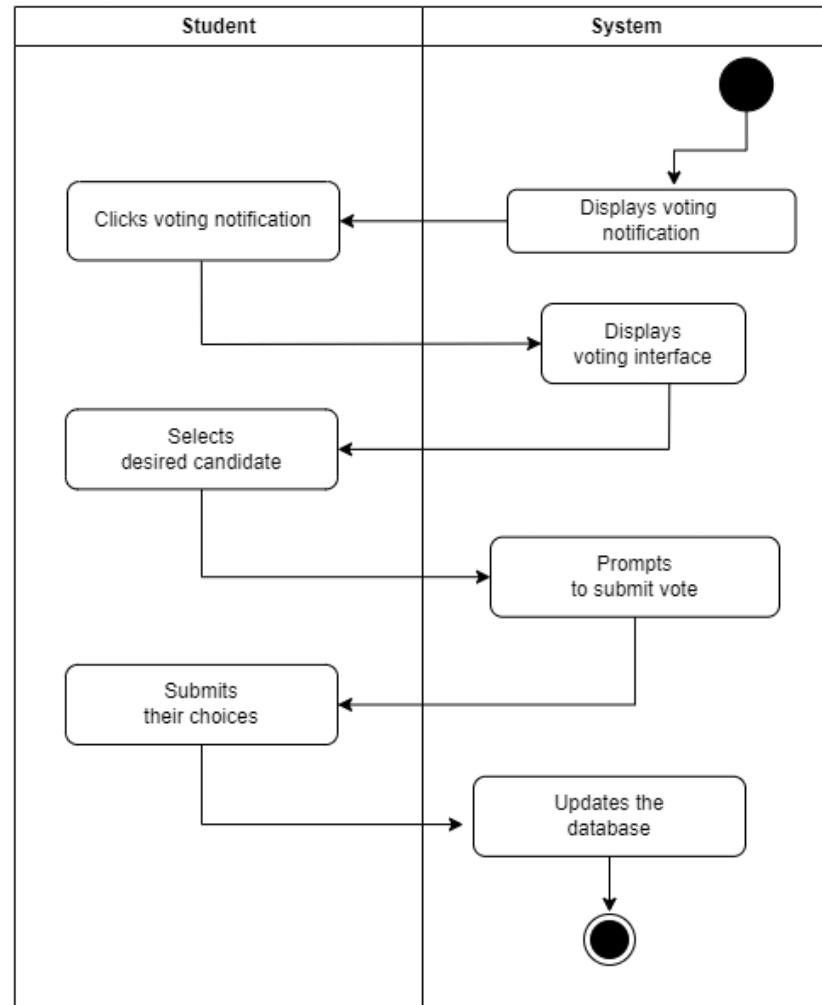
### 7.3.7 Students can upload materials to the public chat

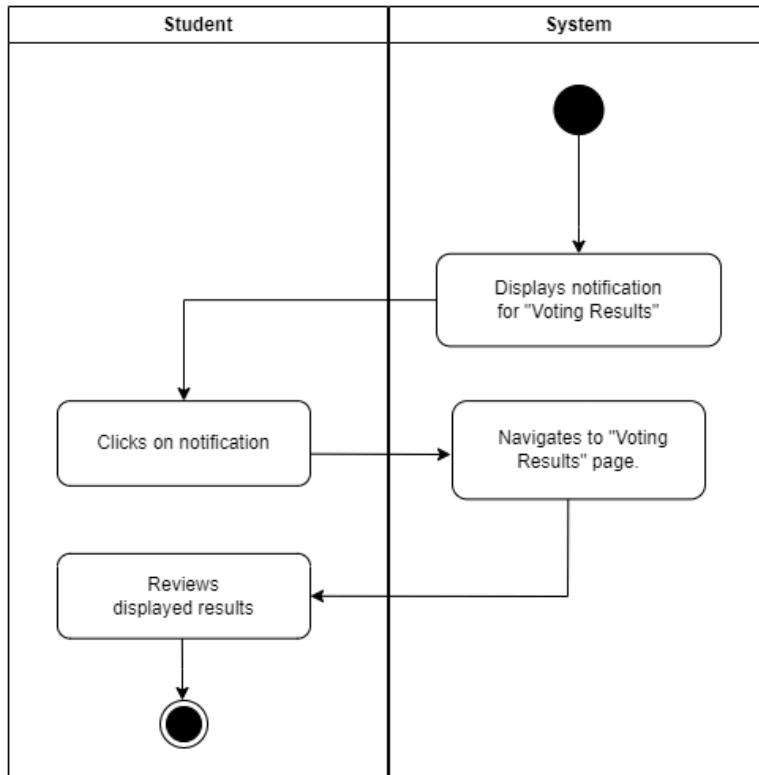


### 7.3.8 Student can request to upload materials

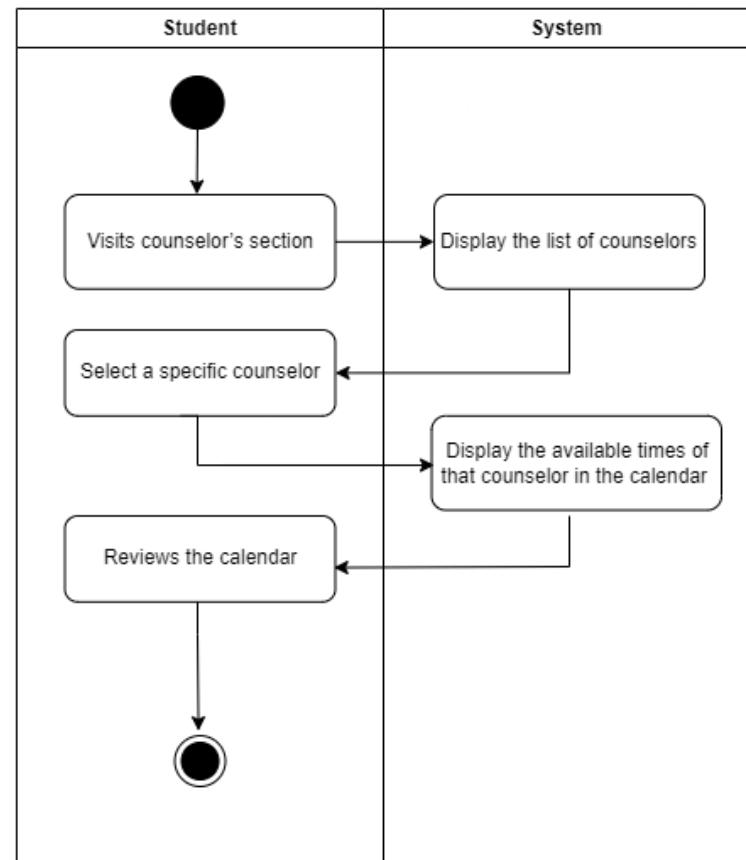


### 7.3.9 Students participate in voting

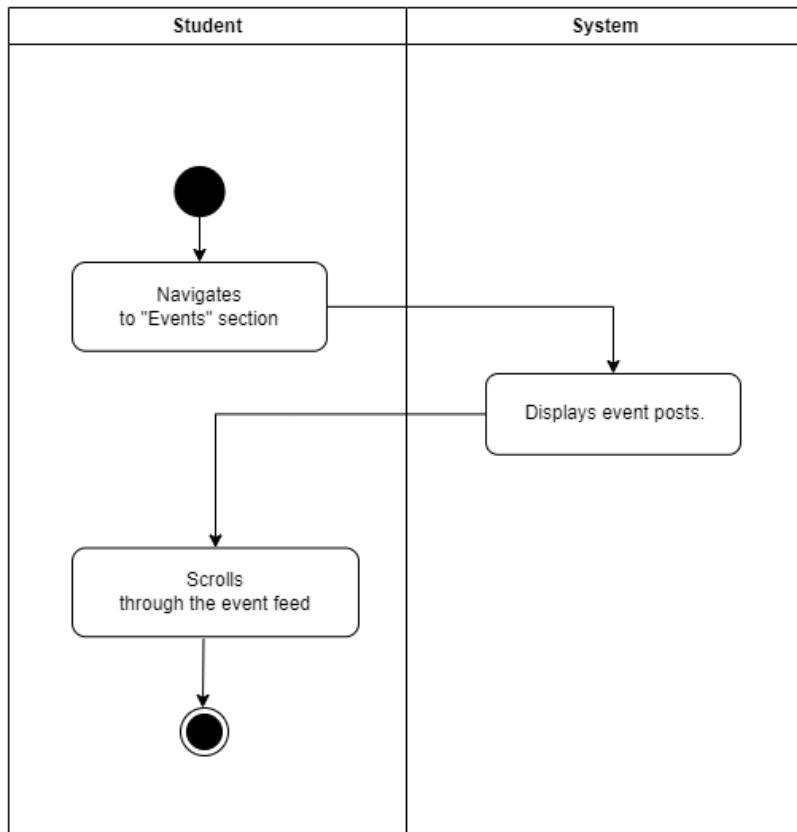




**7.3.10 Students view final  
results of elections and polls**



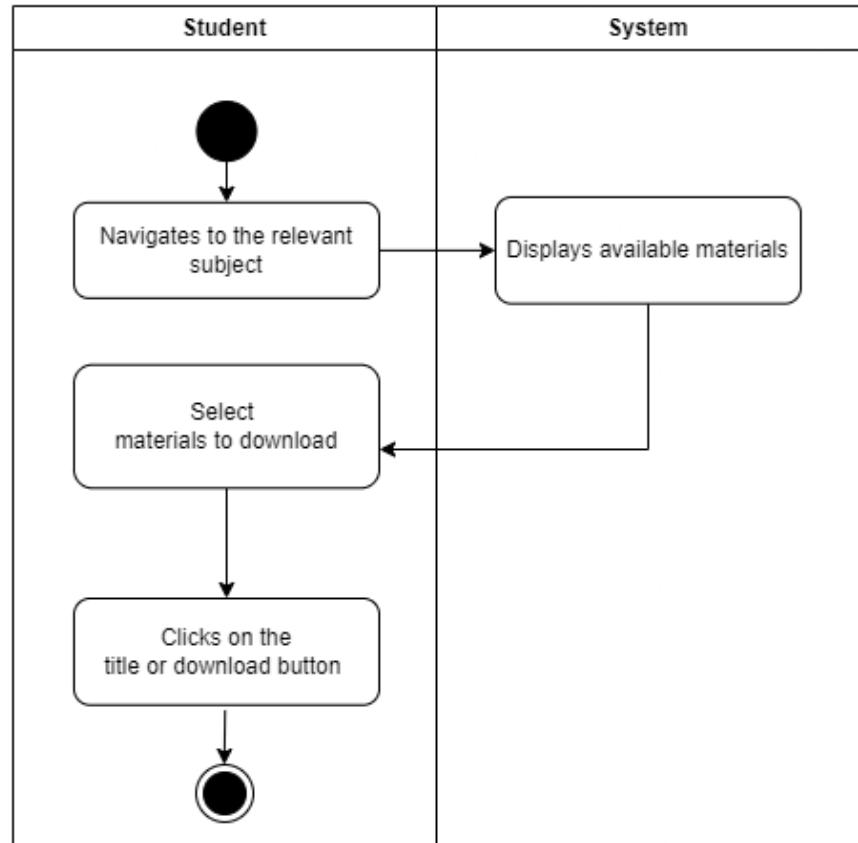
**7.3.11 Students reserve available  
time slots of counselors**

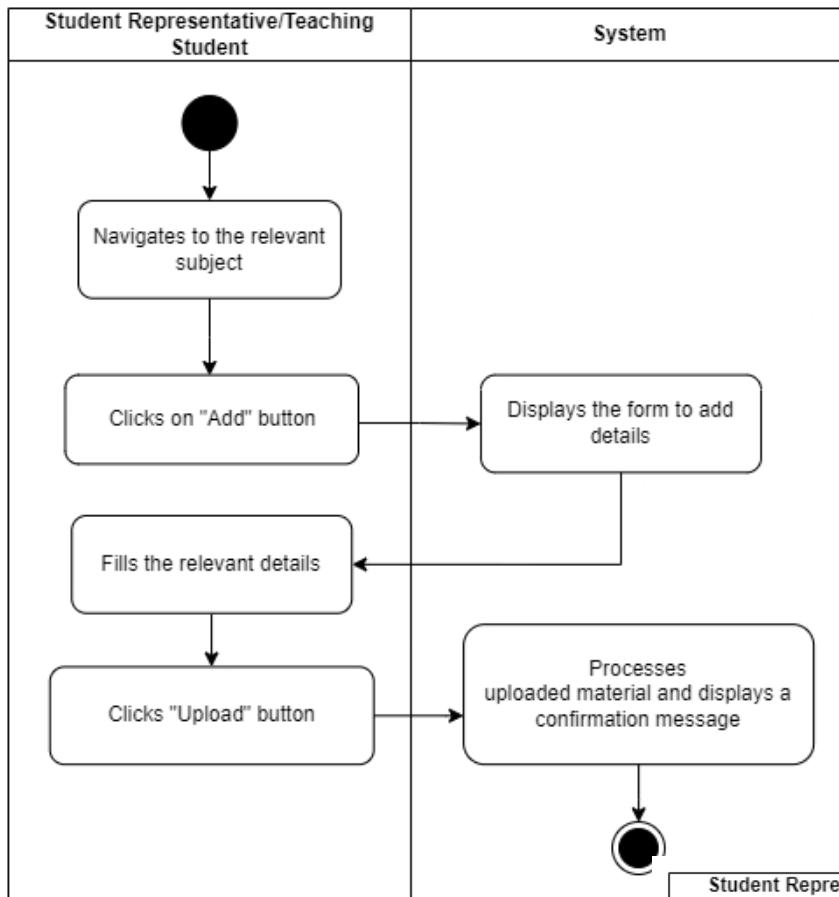


### 7.3.12 Students view event posts

shared in event feed

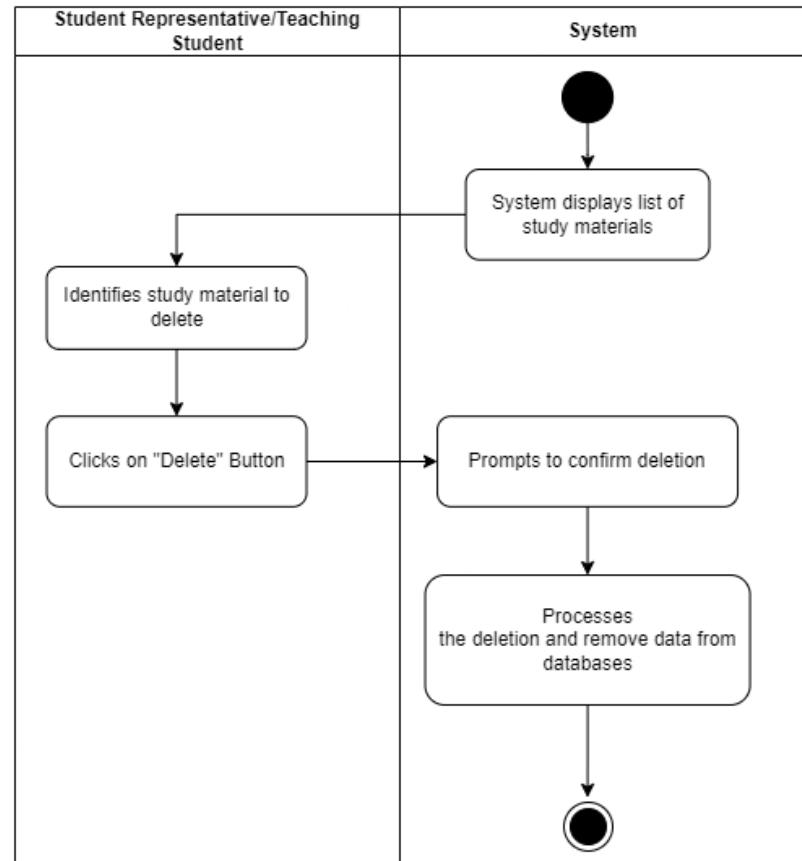
### 7.3.13 Students download short notes shared for their batch





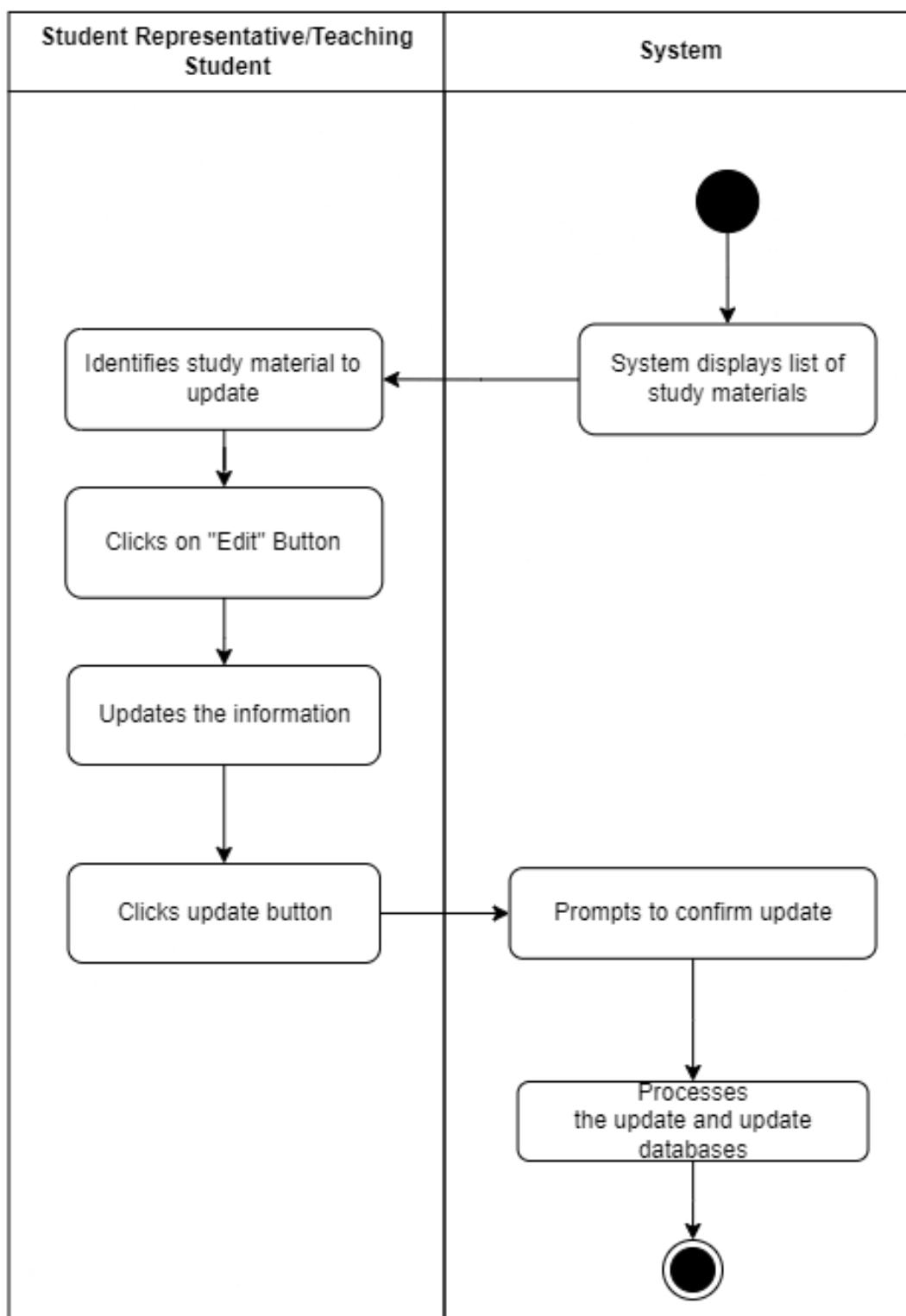
#### 7.3.14 Student Representative/Teaching

**Student uploads study materials**

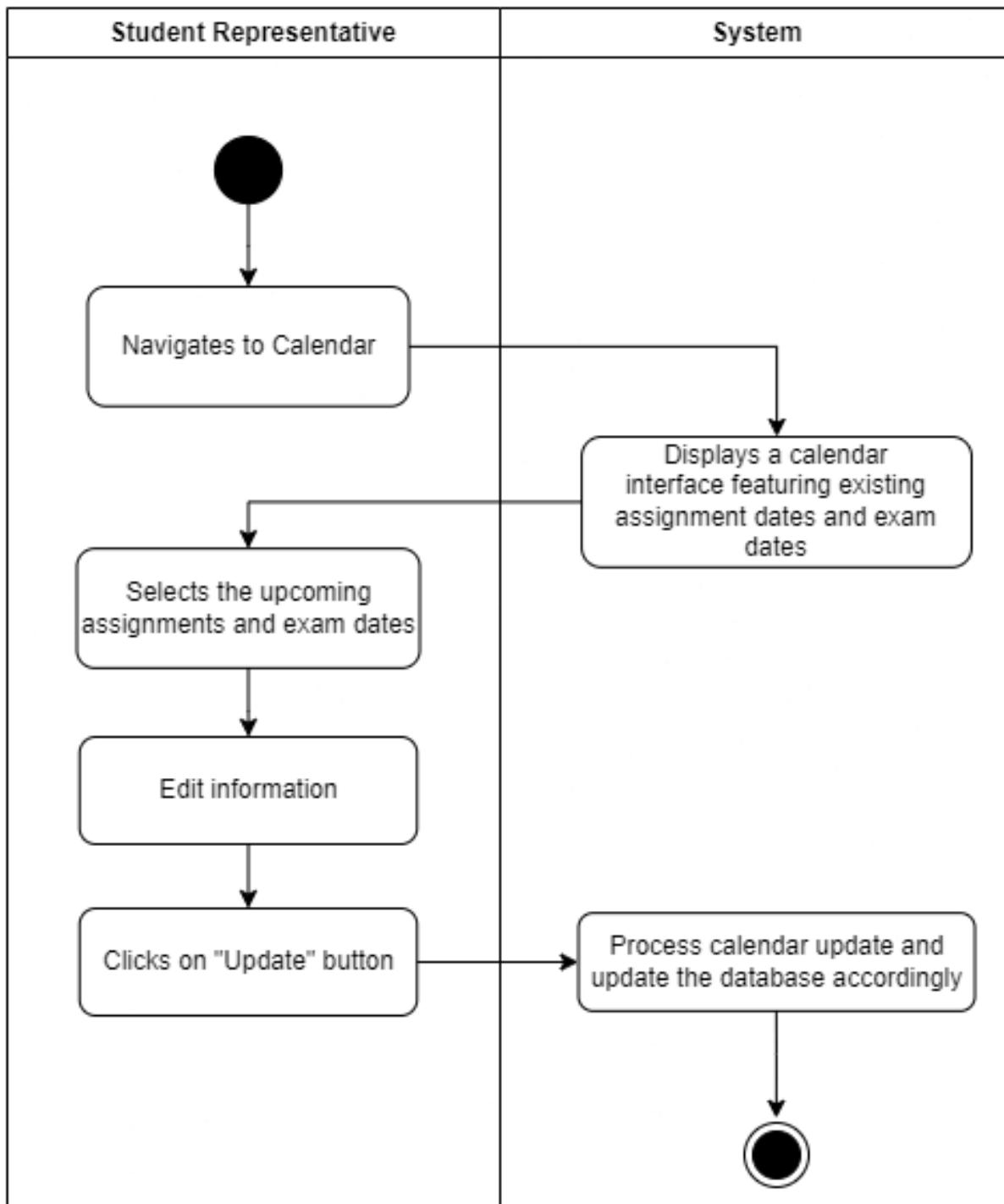


#### 7.3.15 Student Representative/Teaching

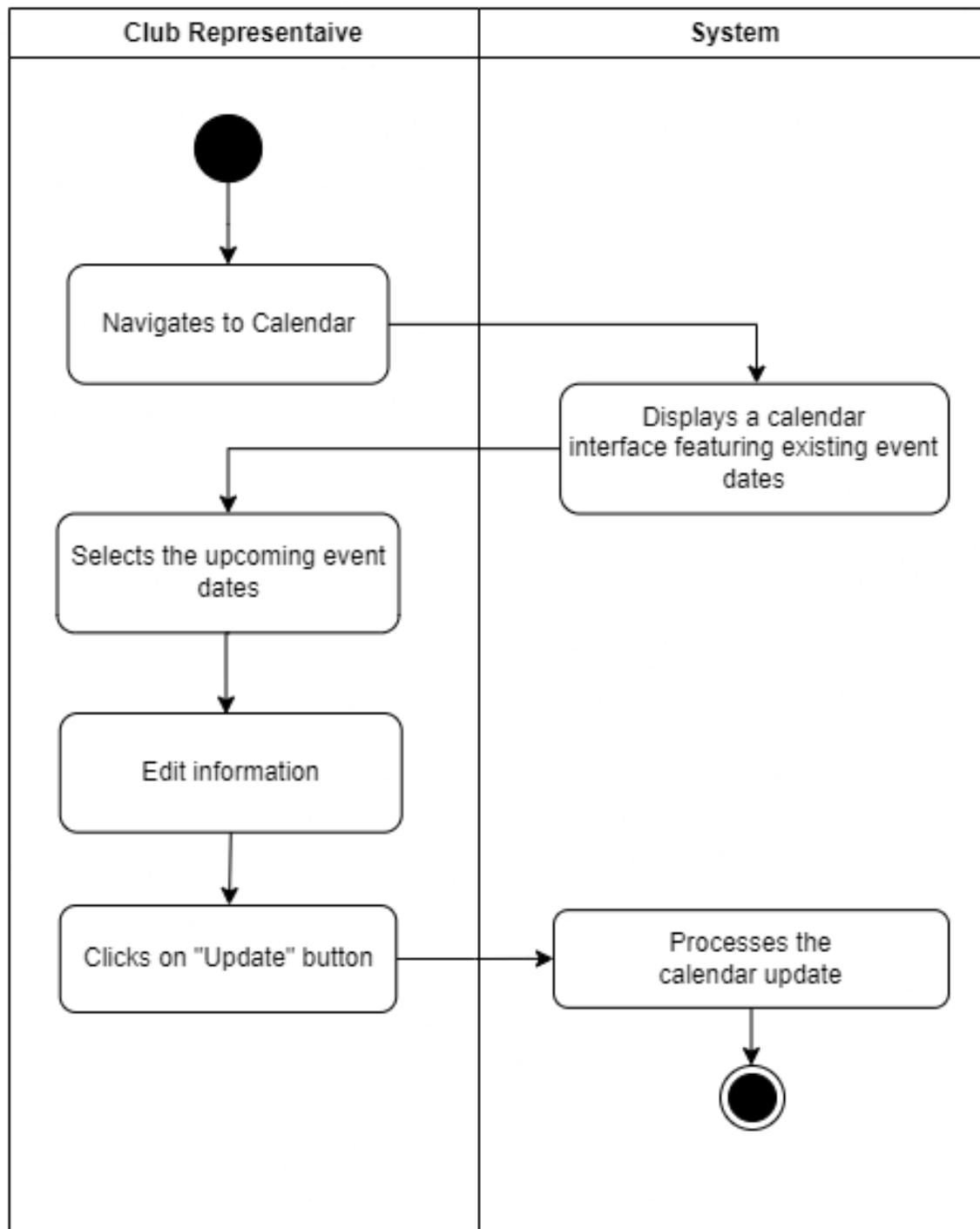
**Student deletes study materials**

**7.3.16 Student Representative/Teaching Student updates study materials**


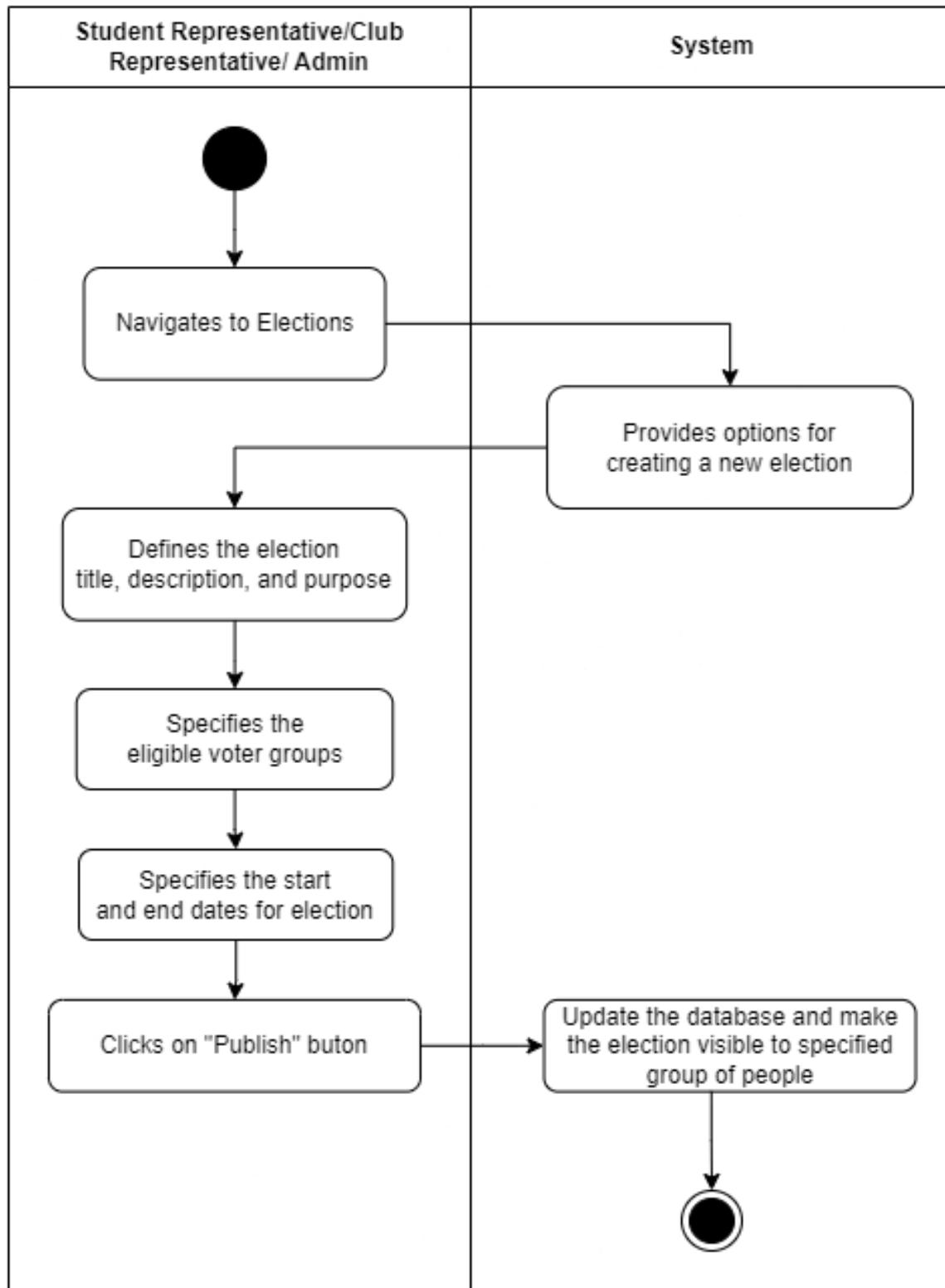
### 7.3.17 Student Representative updates the calendar with assignment or exam dates



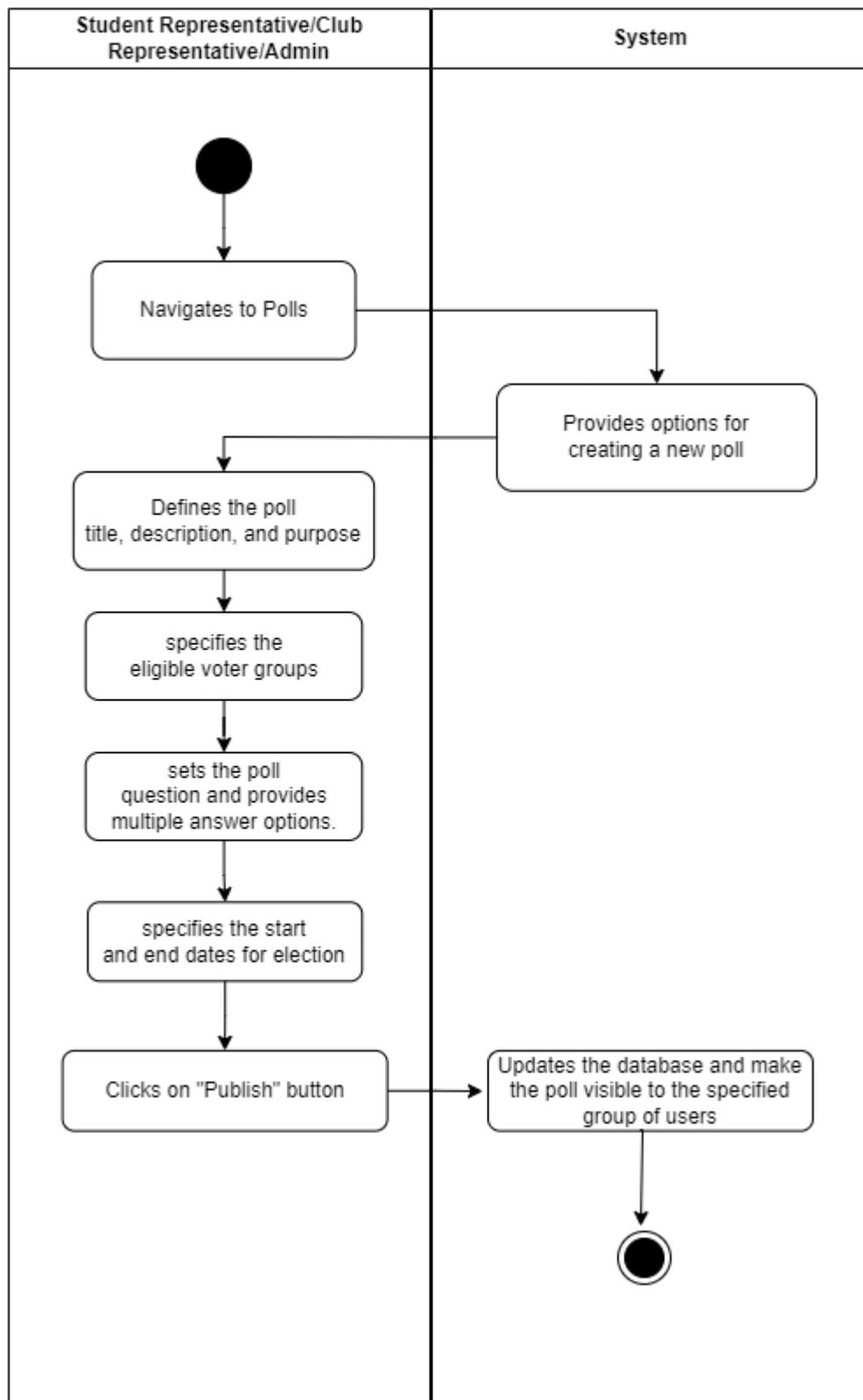
### 7.3.18 Club Representative updates the calendar with upcoming event dates



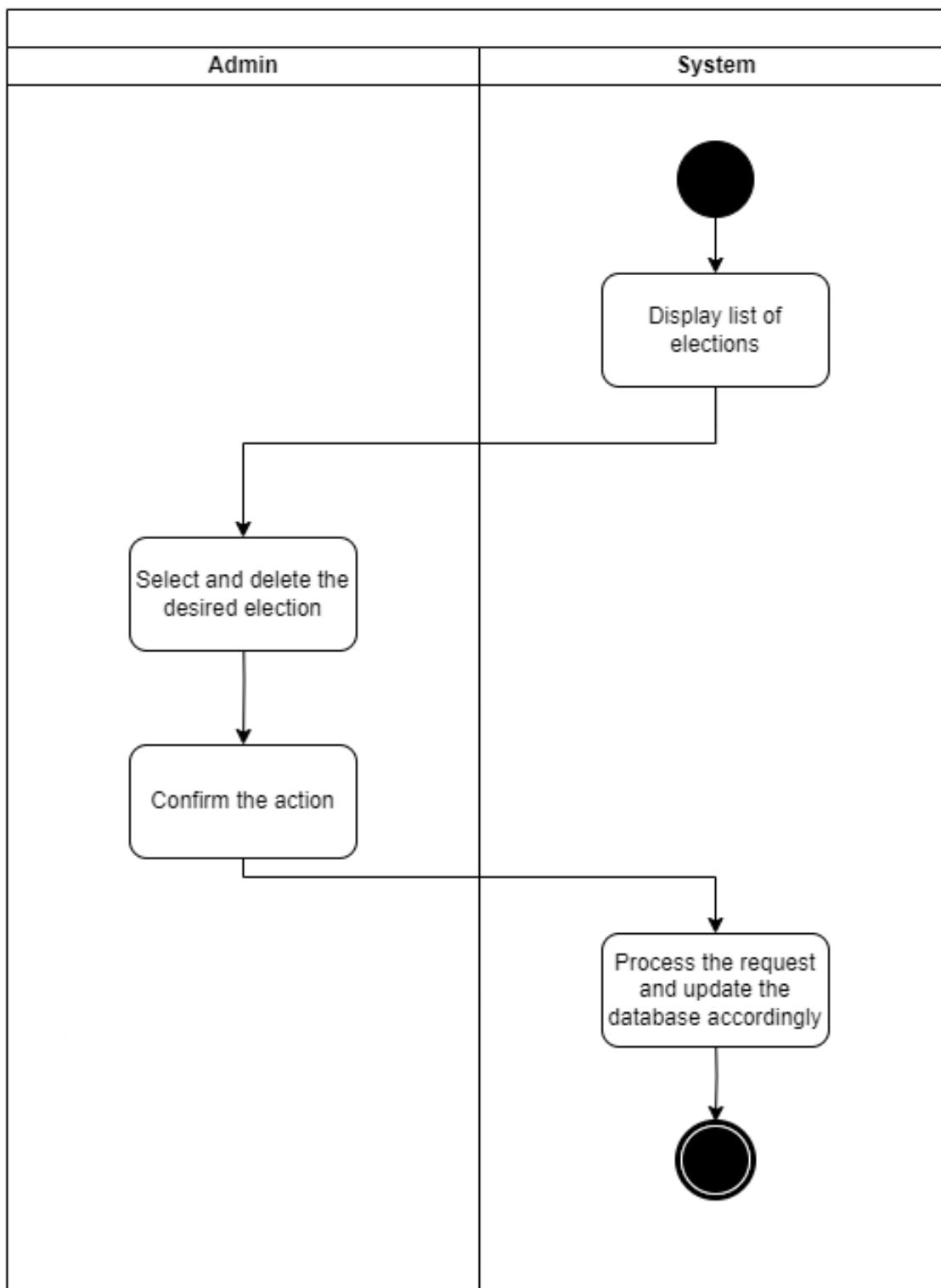
### 7.3.19 Student Representative/Club Representative/Admin creates an election



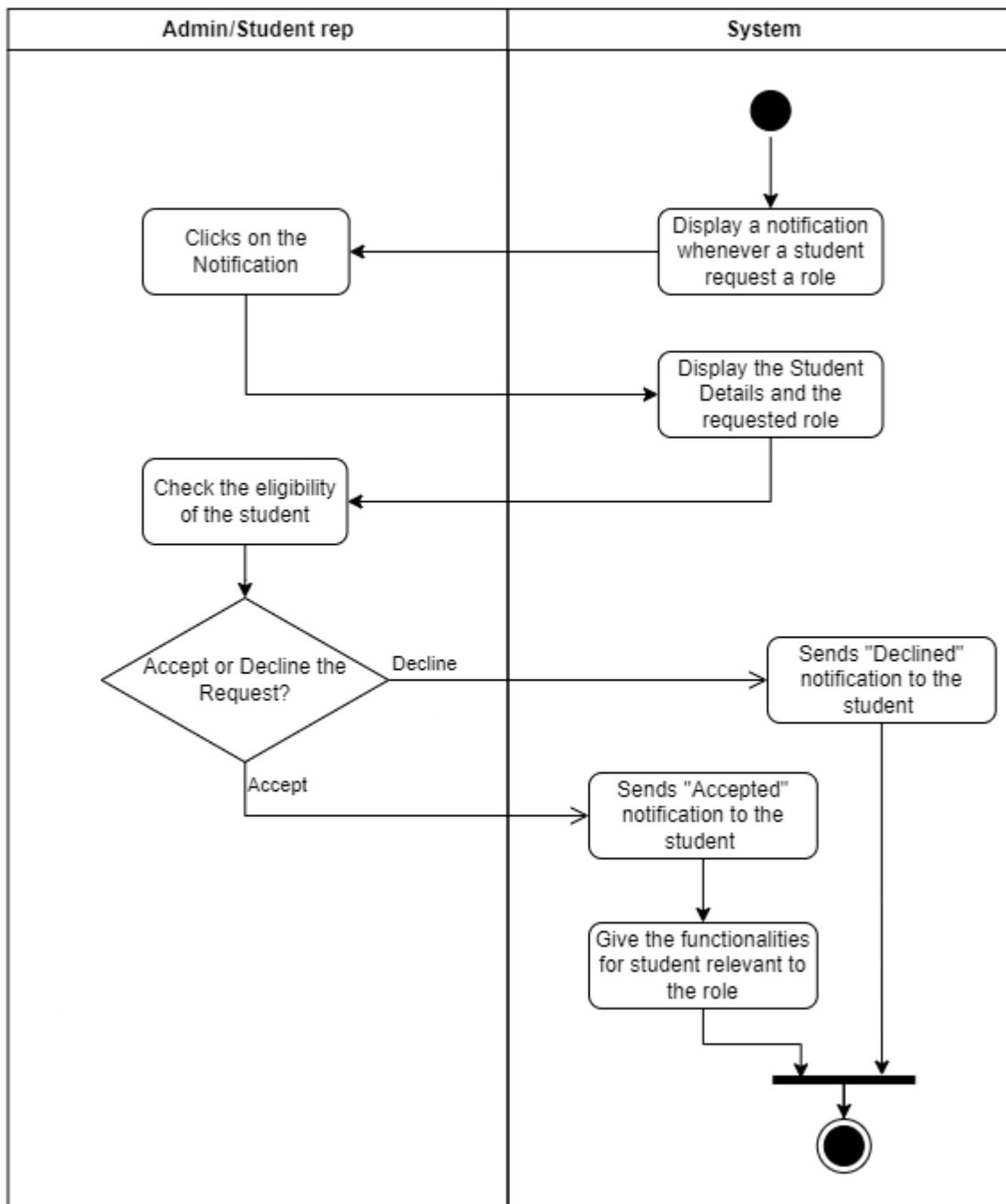
### 7.3.20 Student Representative/Club Representative/Admin deletes a poll



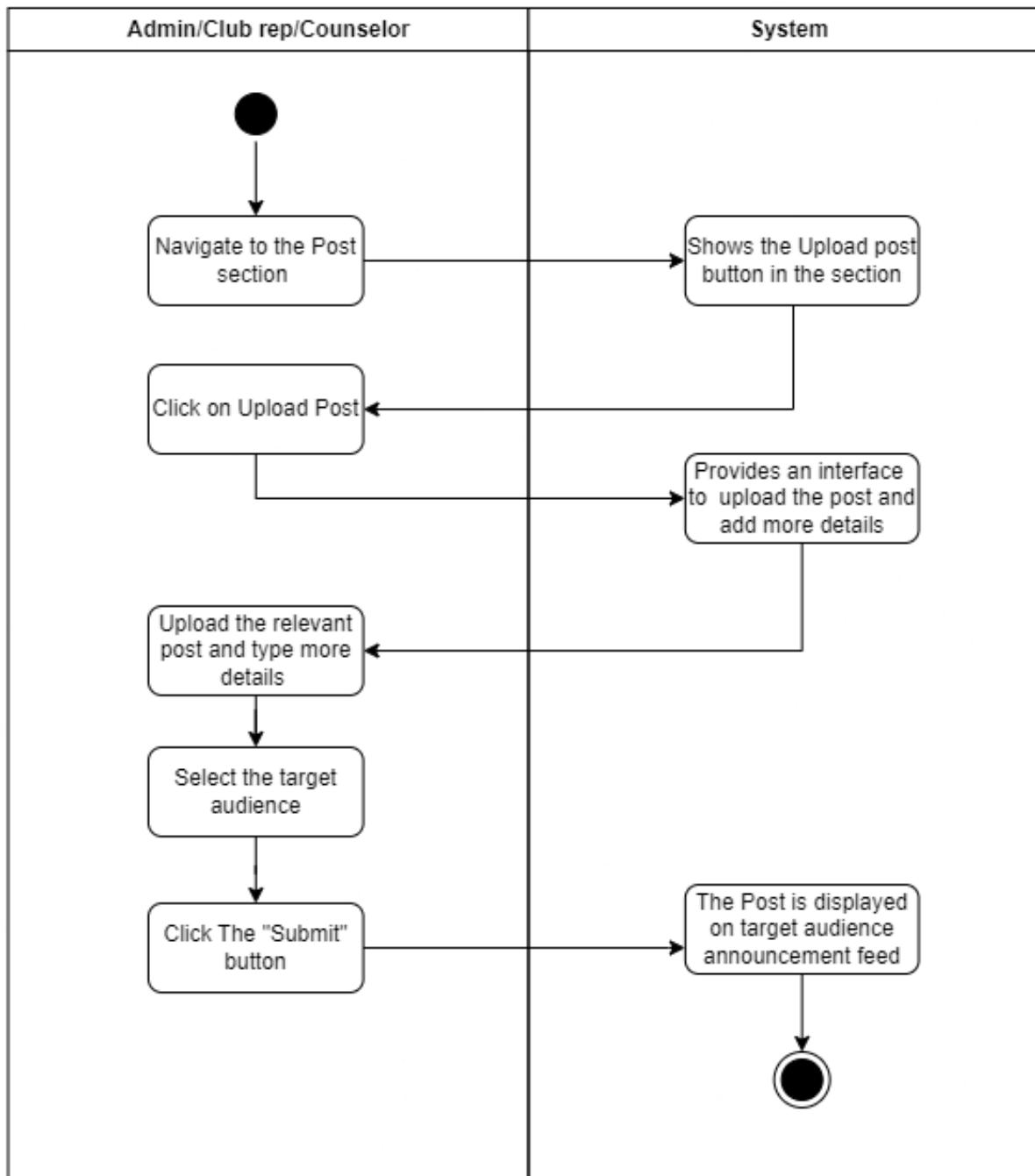
#### 7.3.21 Student Representative/Club Representative/Admin deletes an election or poll



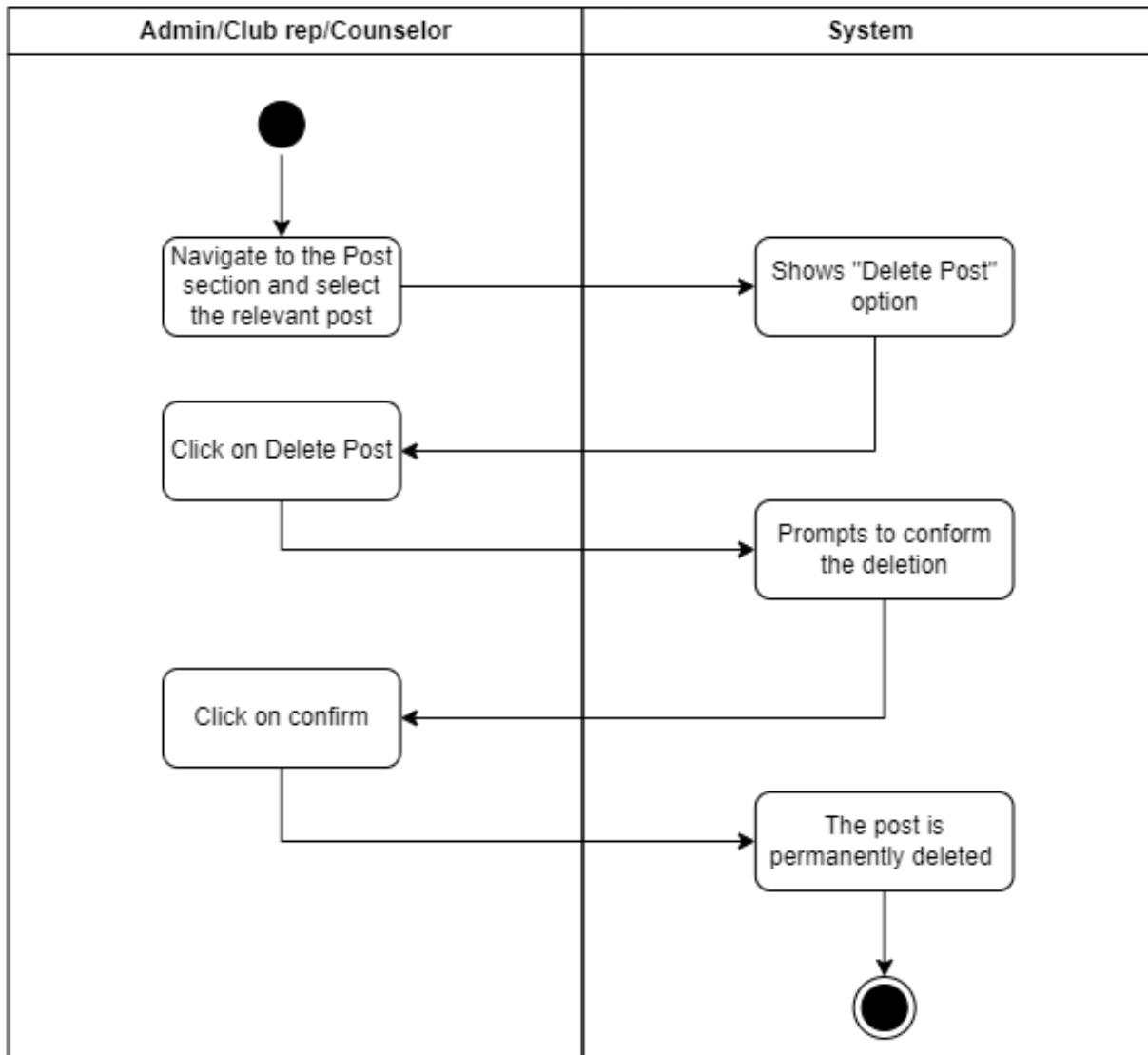
### 7.3.22 Student Representative/Admin manages requests



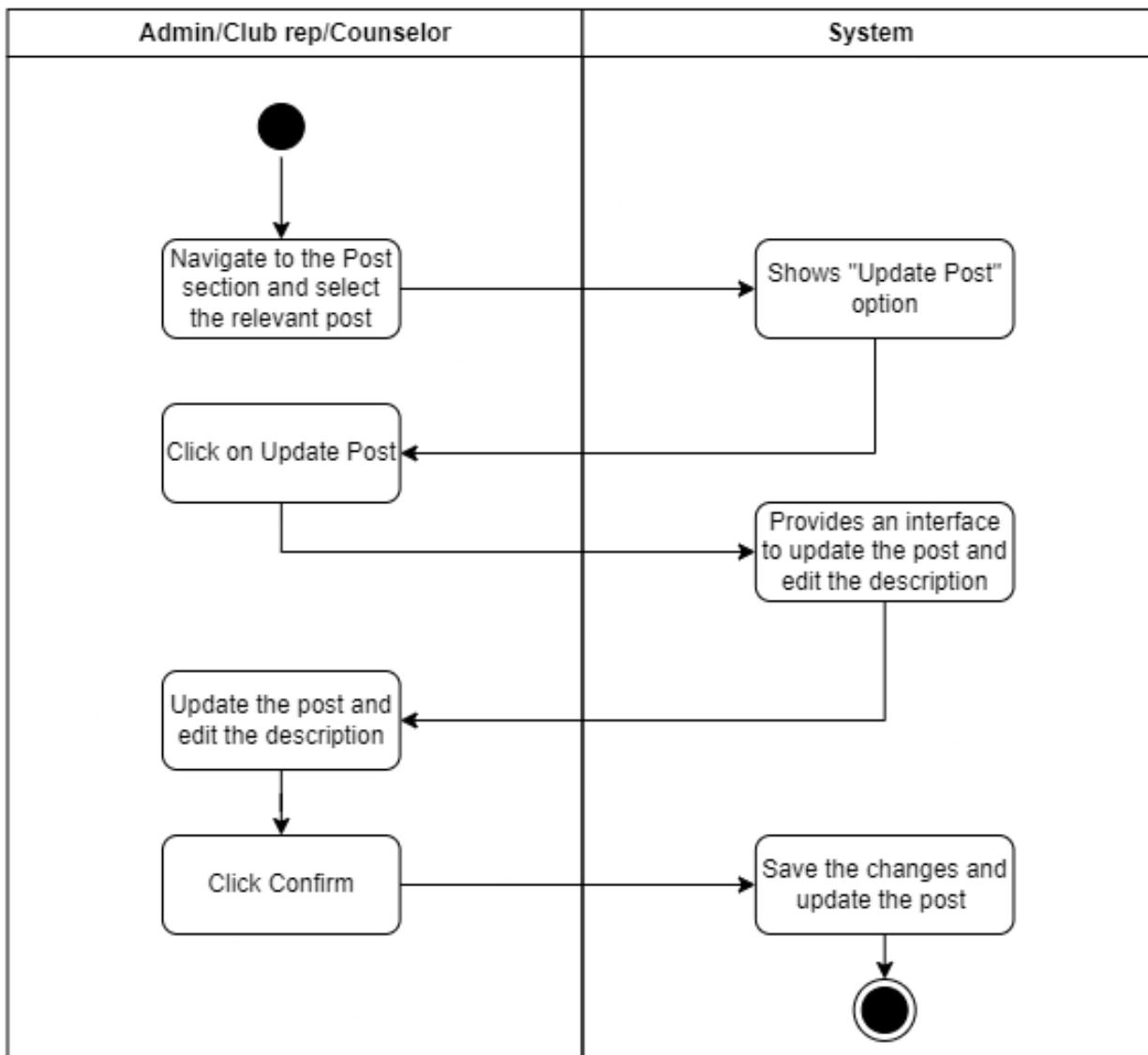
### 7.3.23 Club Representative/Counselor/Admin uploads posts in respective feeds



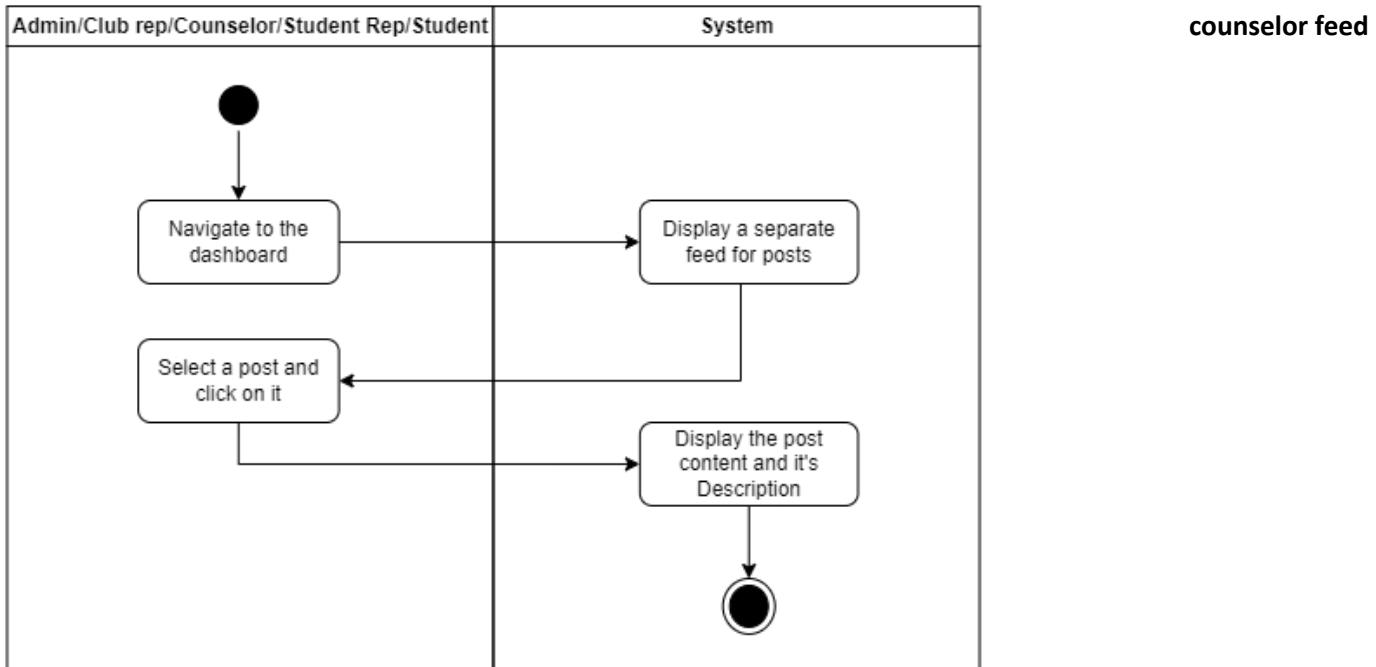
### 7.3.24 Club Representative/Counselor/Admin deletes posts in respective feeds



### 7.3.25 Club Representative/Counselor/Admin updates posts in respective feeds



### 7.3.26 Users view posts shared in club/ counselor feed

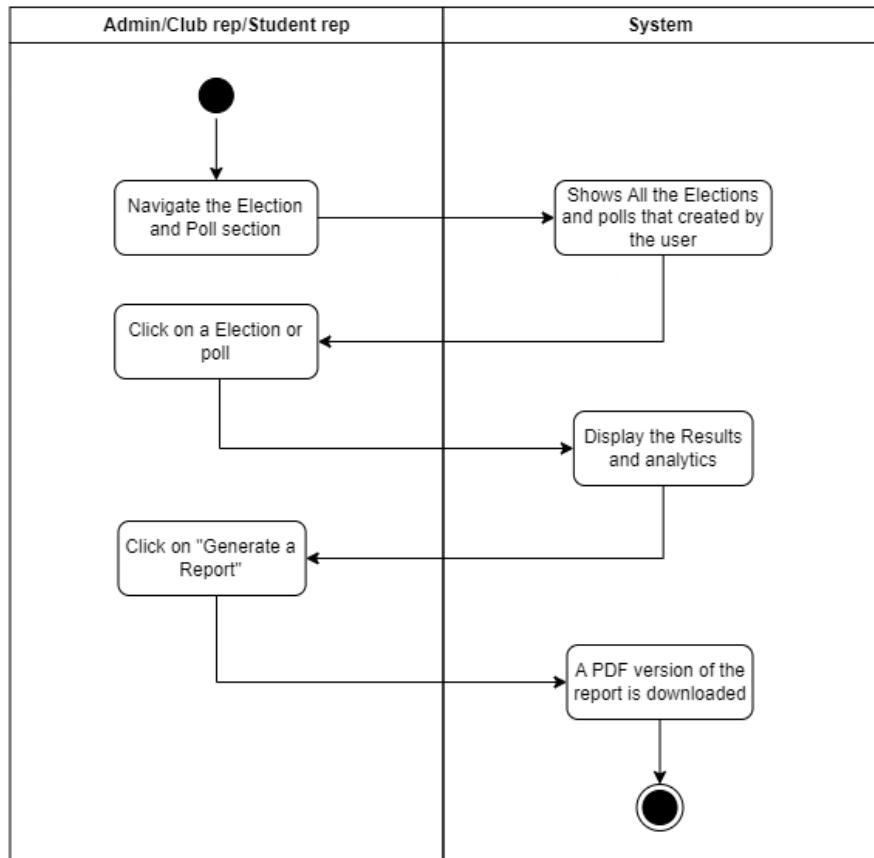


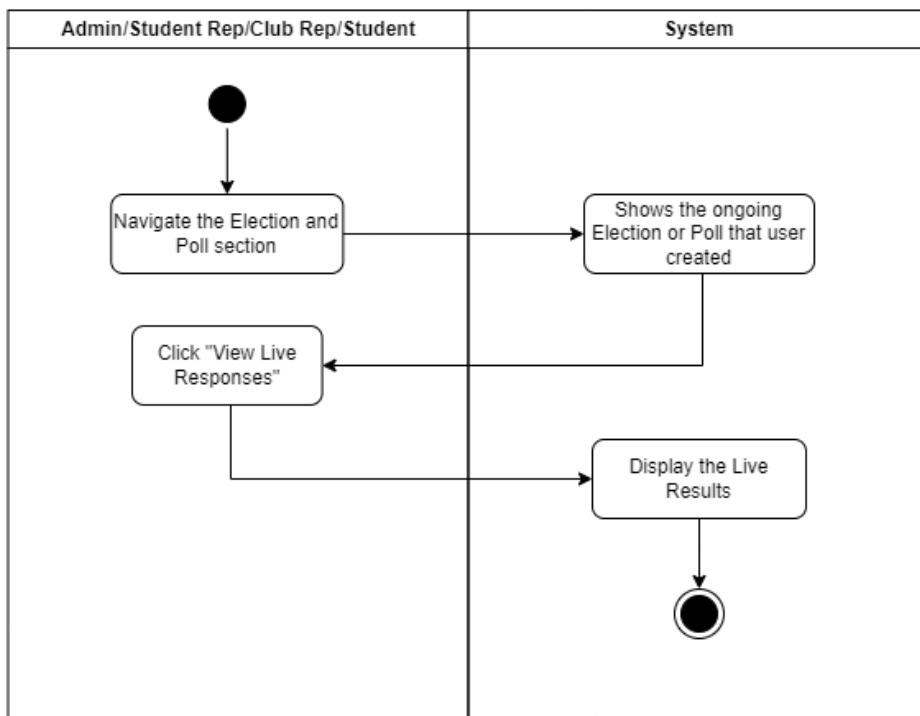
### 7.3.27 Admin/Student

Representative/

Club Representative generates  
report

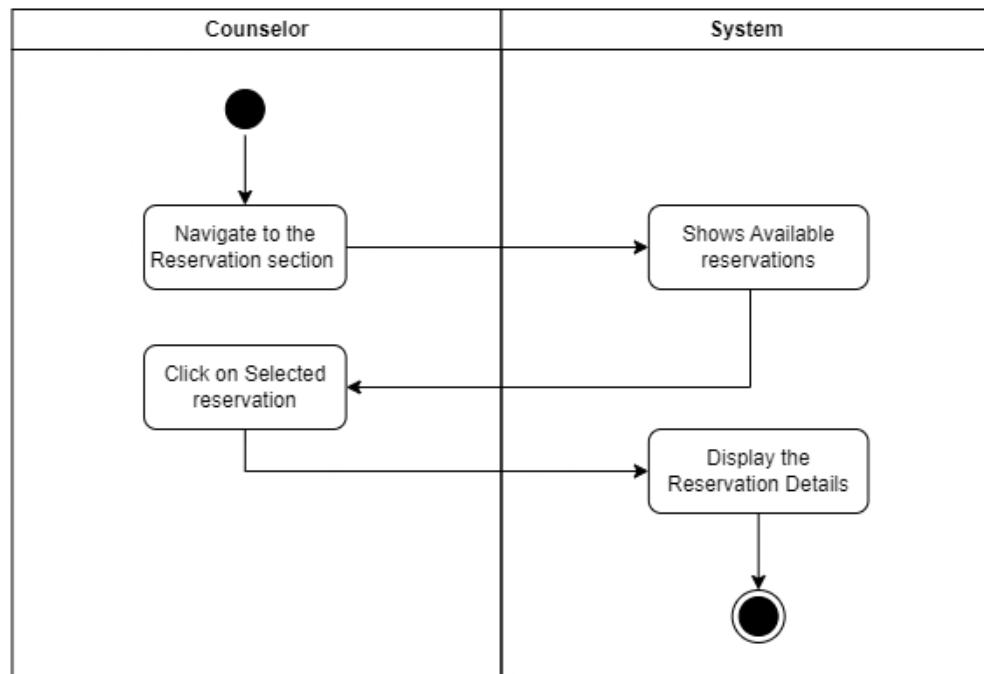
s from election results



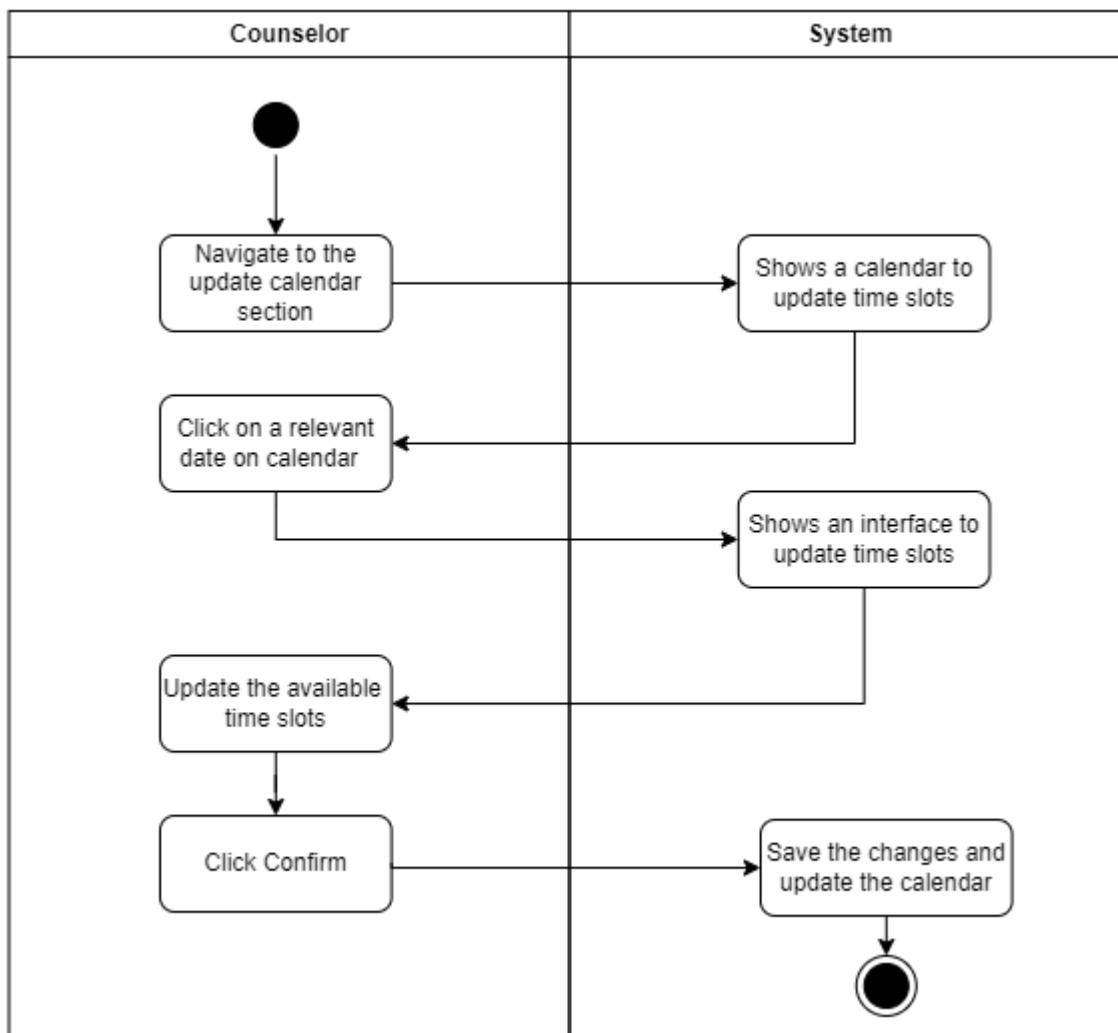


**7.3.28 Users view the live results of ongoing elections**

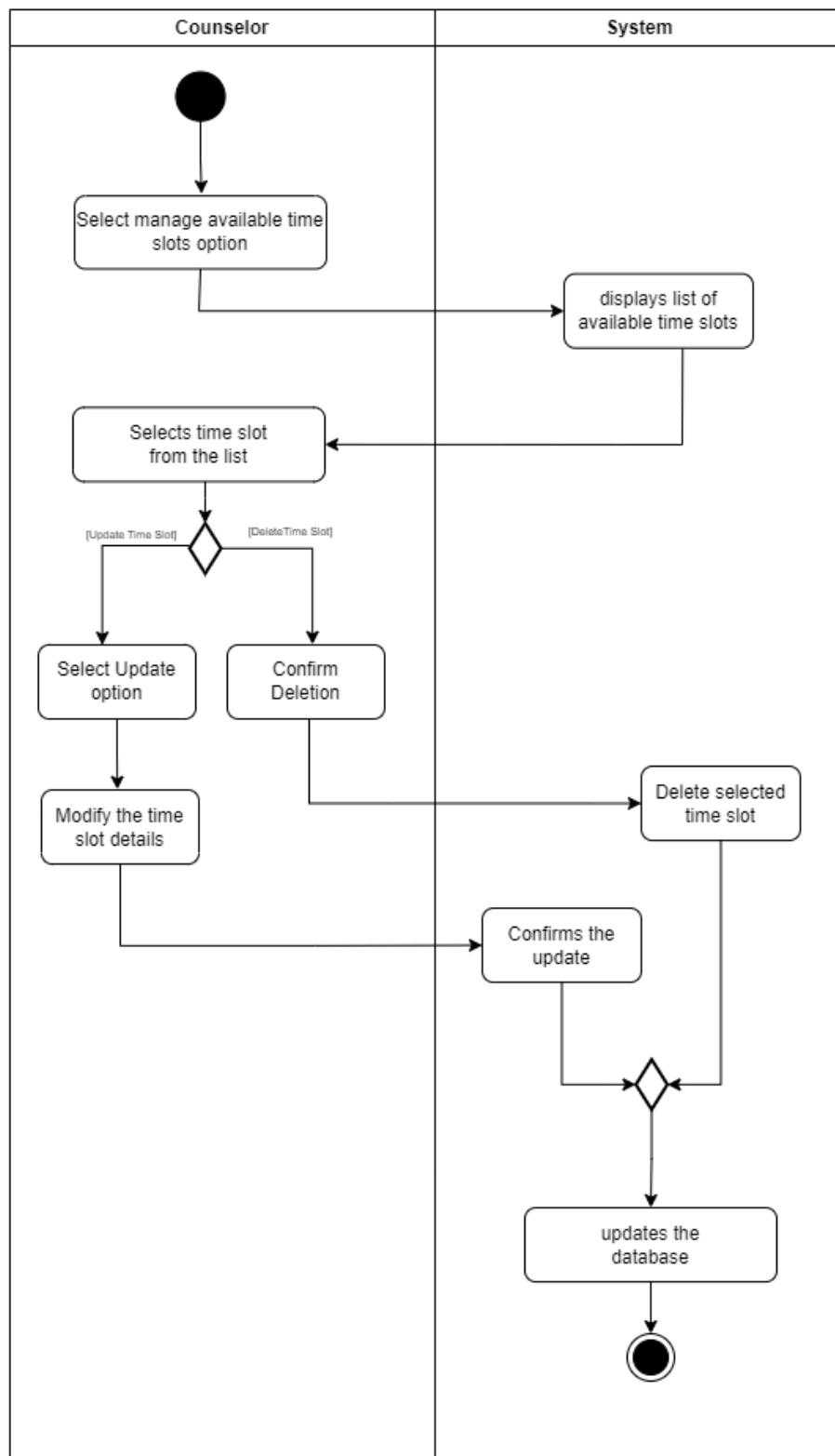
**7.3.29 Counselor view the reservation requests coming from the students**



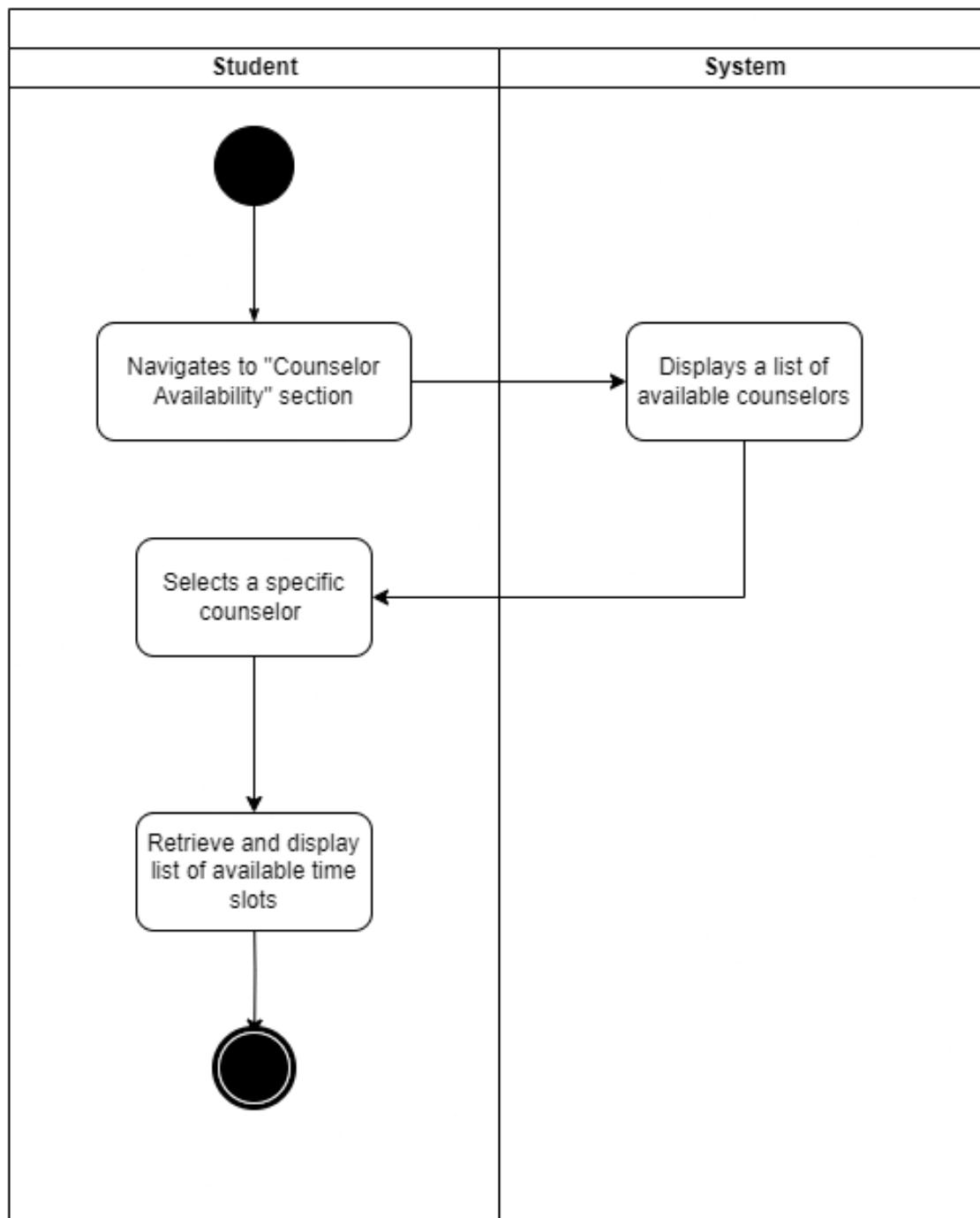
### 7.3.30 Counselor adds his/her available time slots



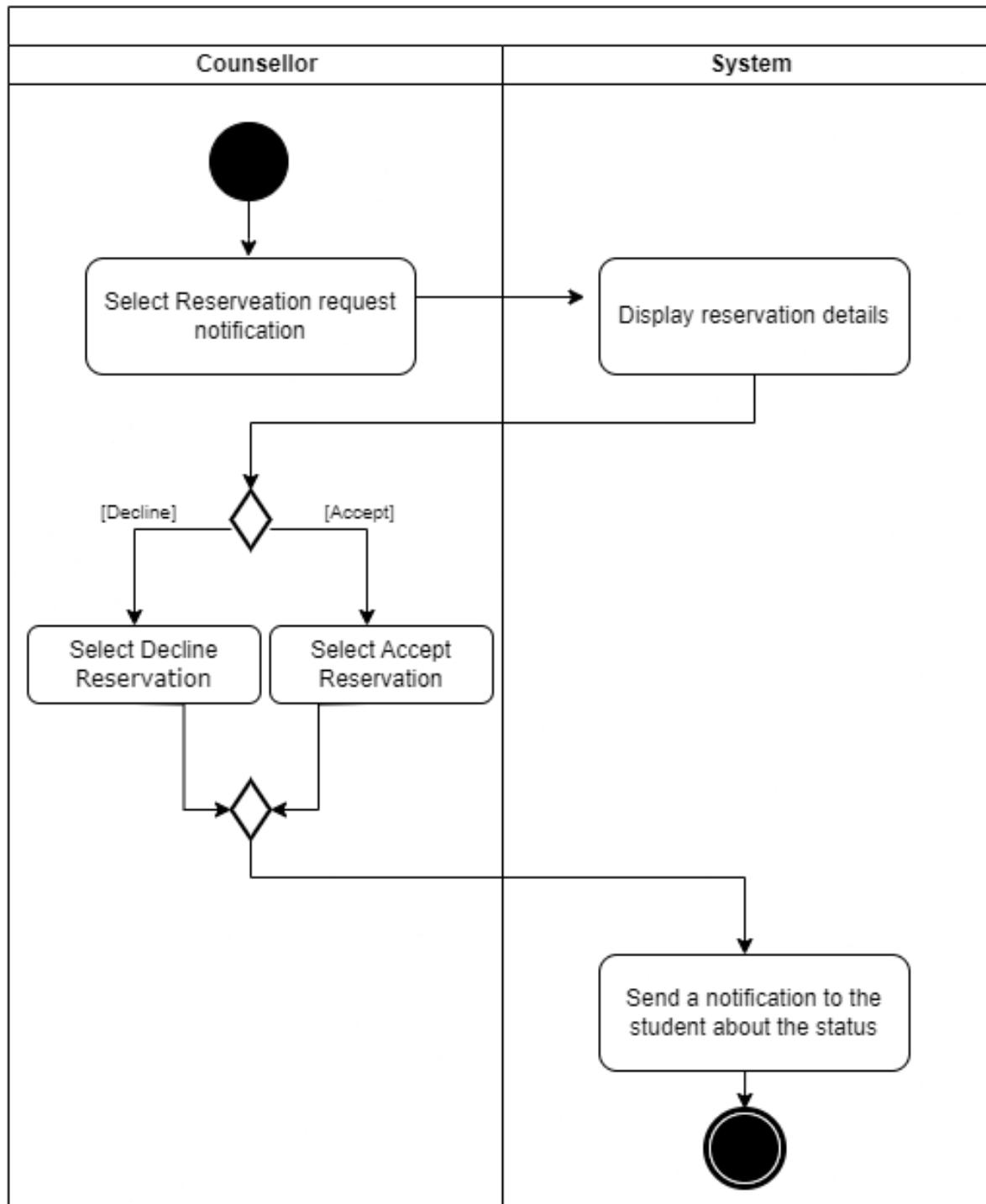
### 7.3.31 Counselor deletes/updates his/her available time slots



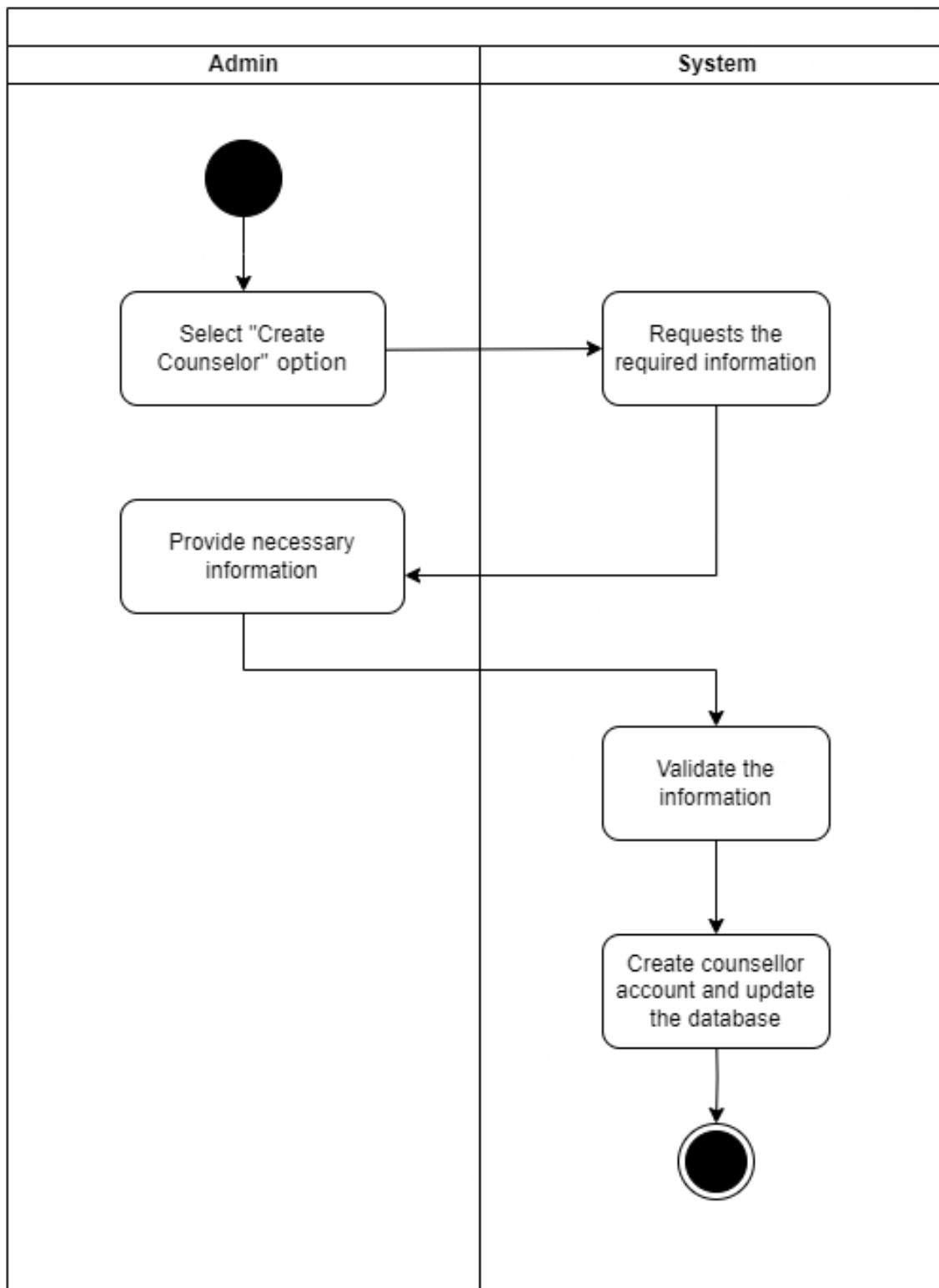
### 7.3.32 Students view the available time slots added by counselor



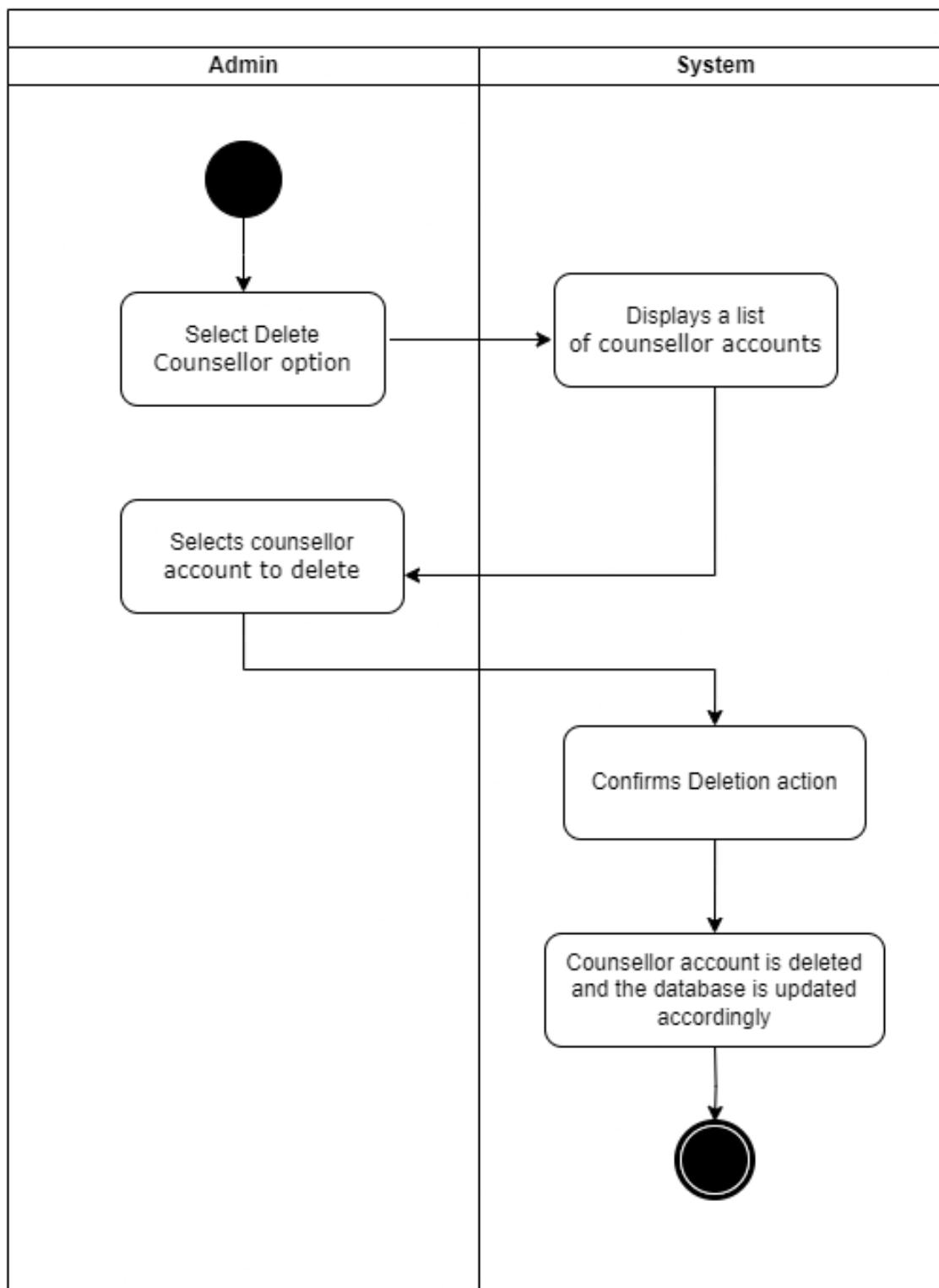
### 7.3.33 Counselor accepts/declines the reservations

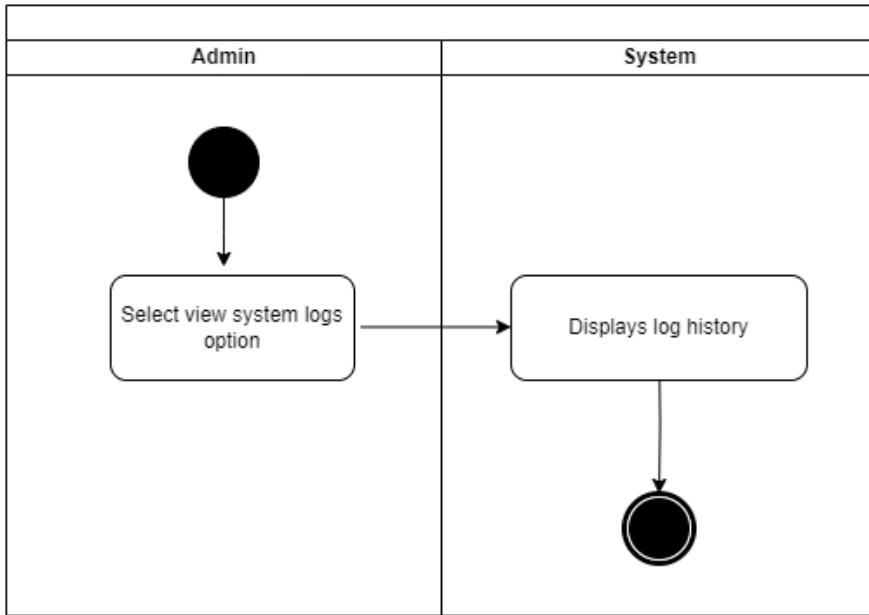


### 7.3.34 Admin creates counselor account



### 7.3.35 Admin deletes counselor account

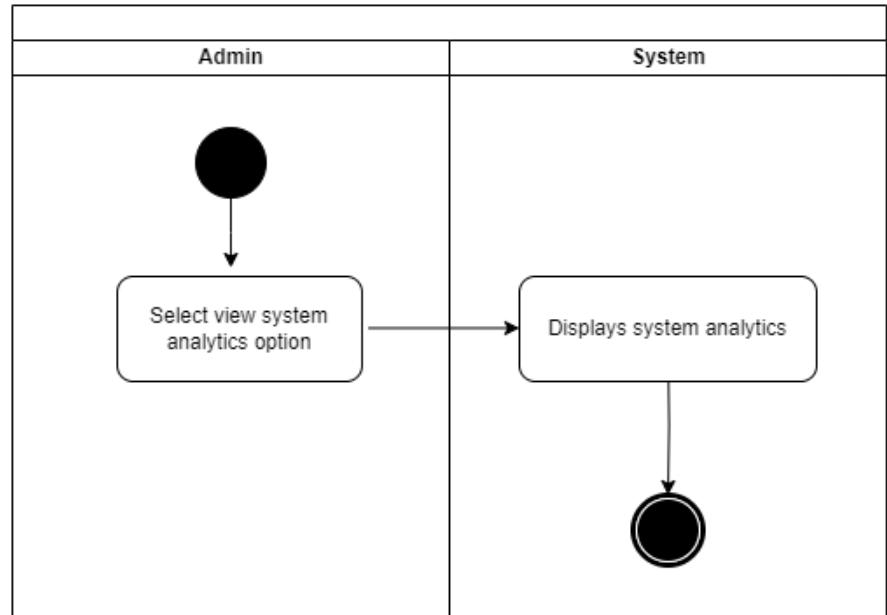




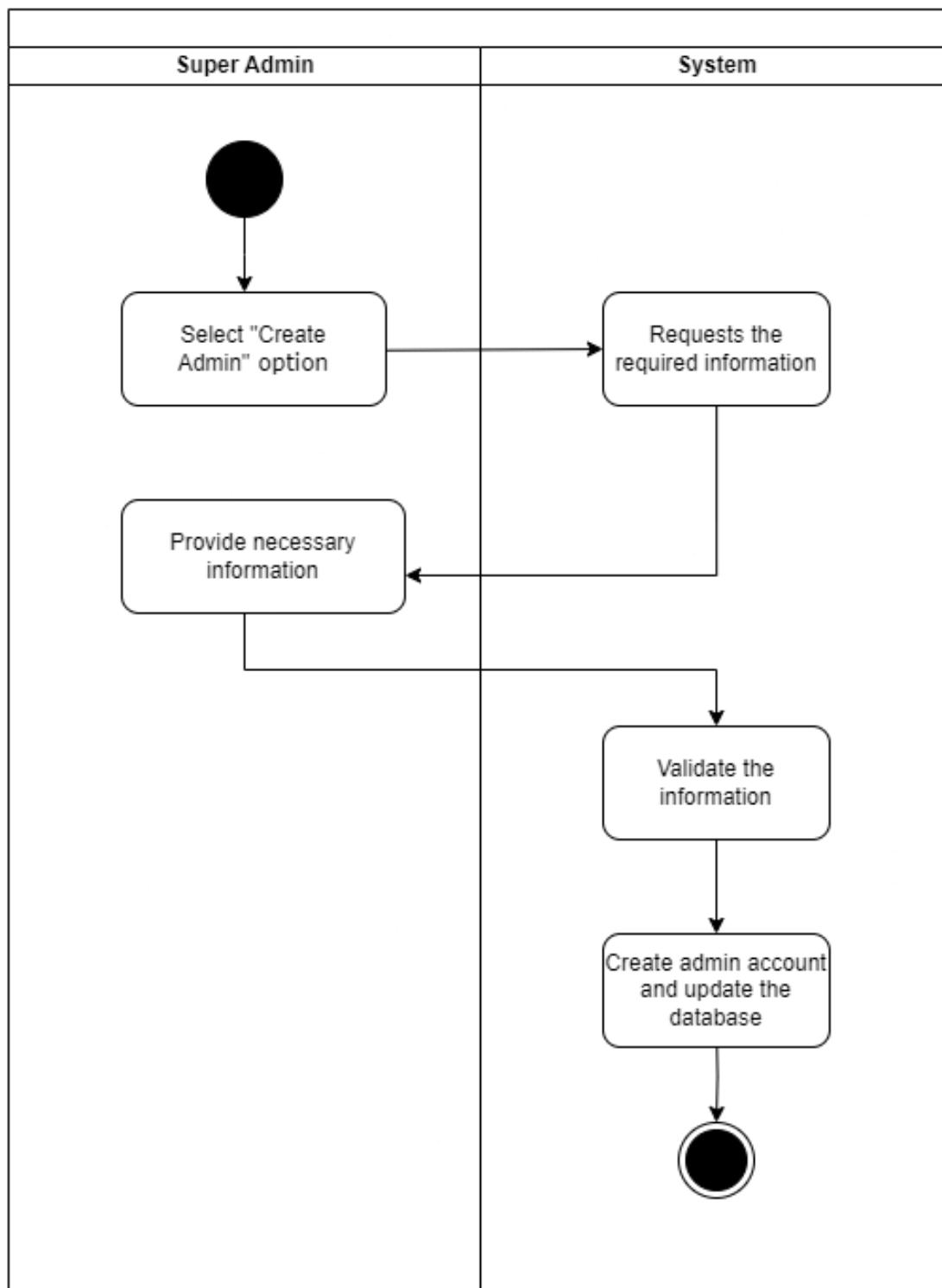
### 7.3.36 Admin/Super Admin view

the system logs

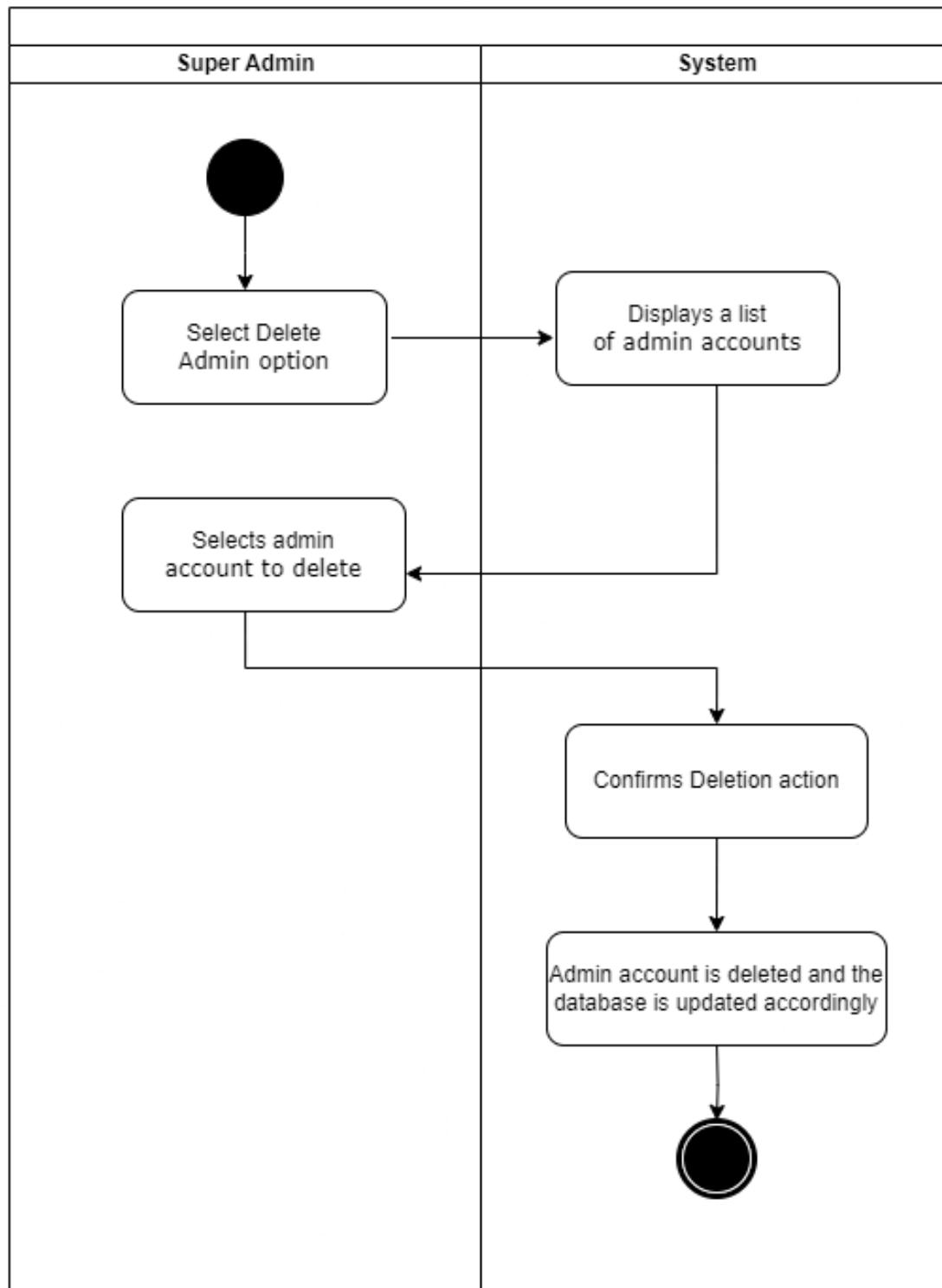
### 7.3.37 Admin/Super Admin view the system analytics



### 7.3.38 Super Admin creates the admin account

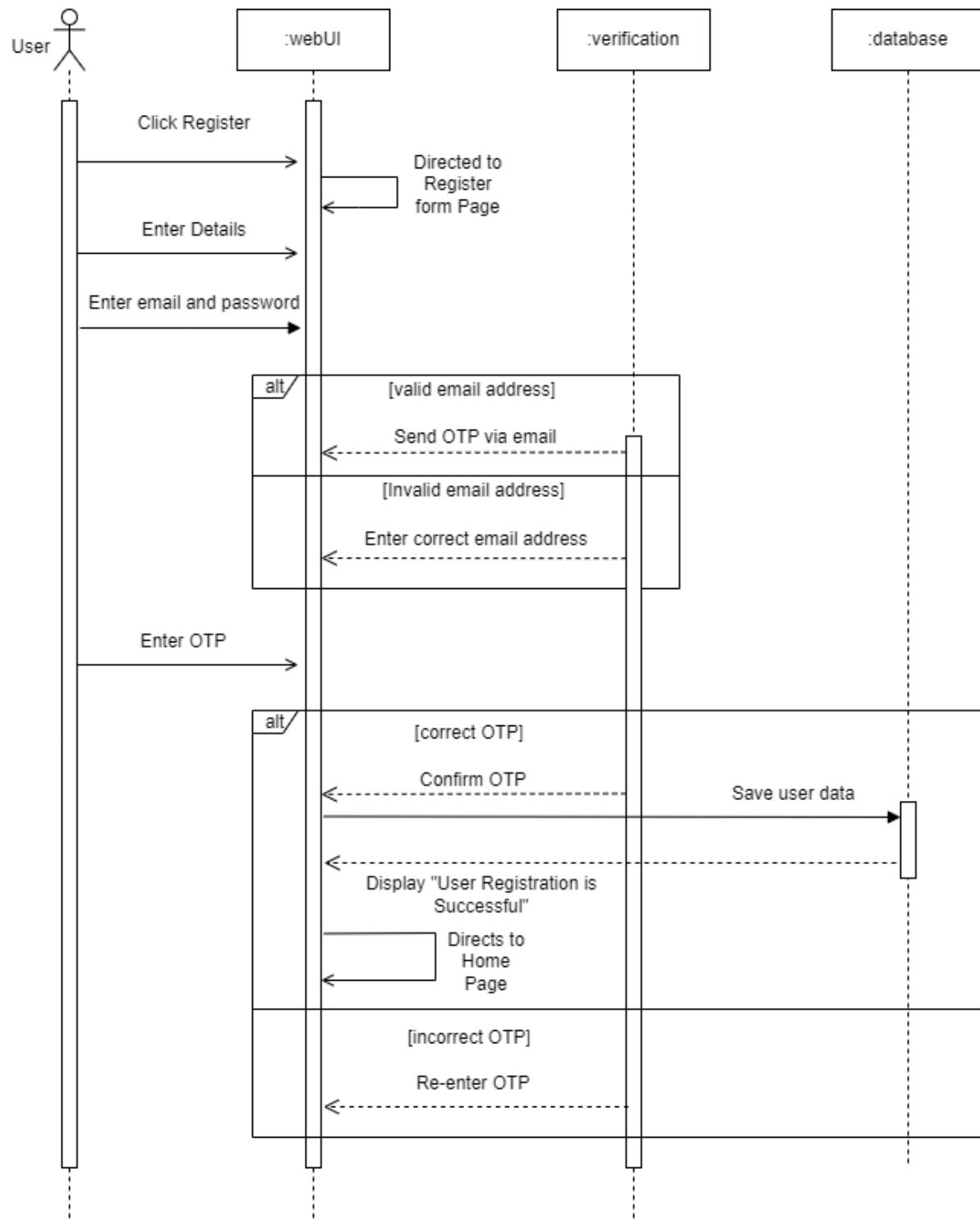


### 7.3.39 Super Admin deletes the admin account

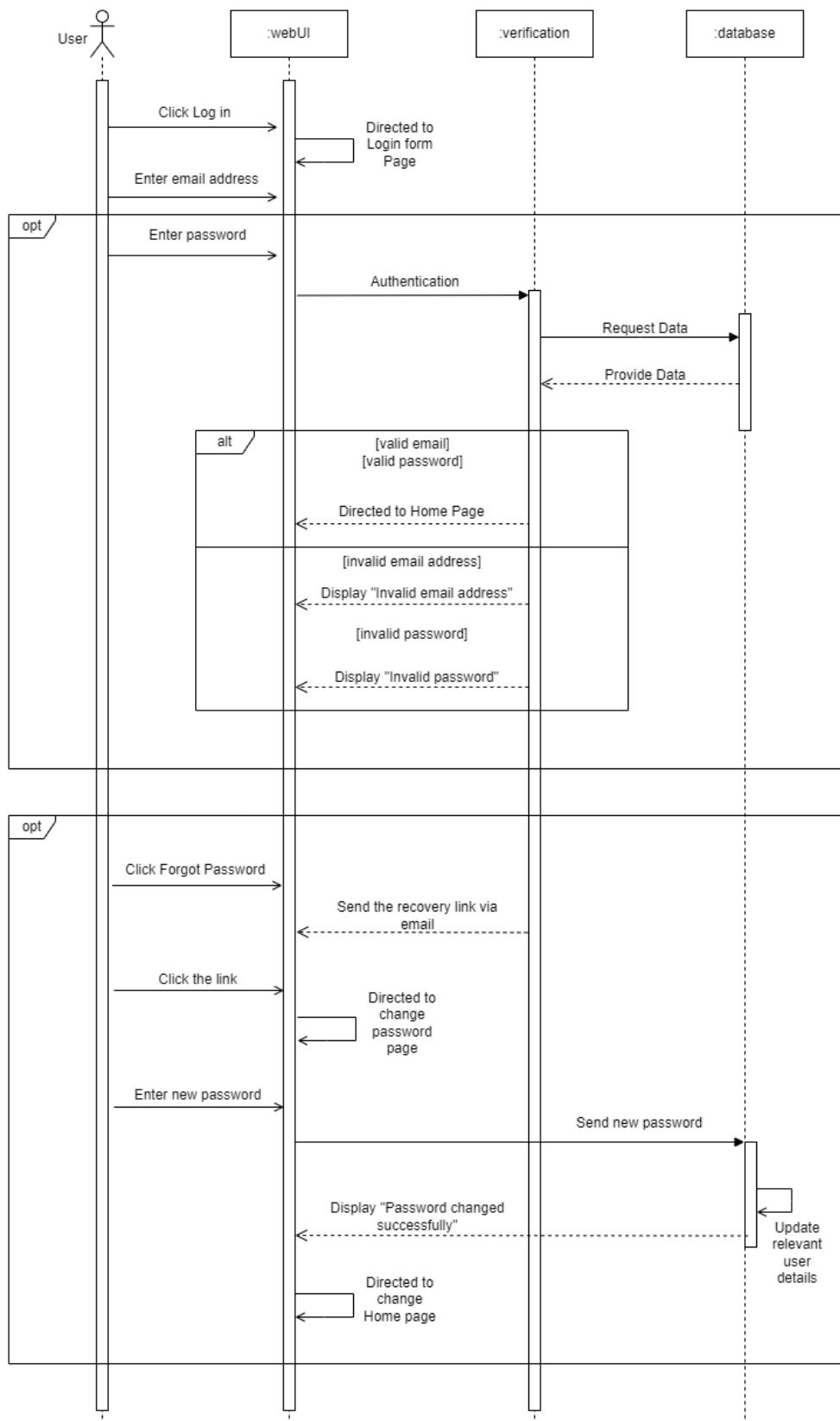


## 5.4 Sequence Diagrams

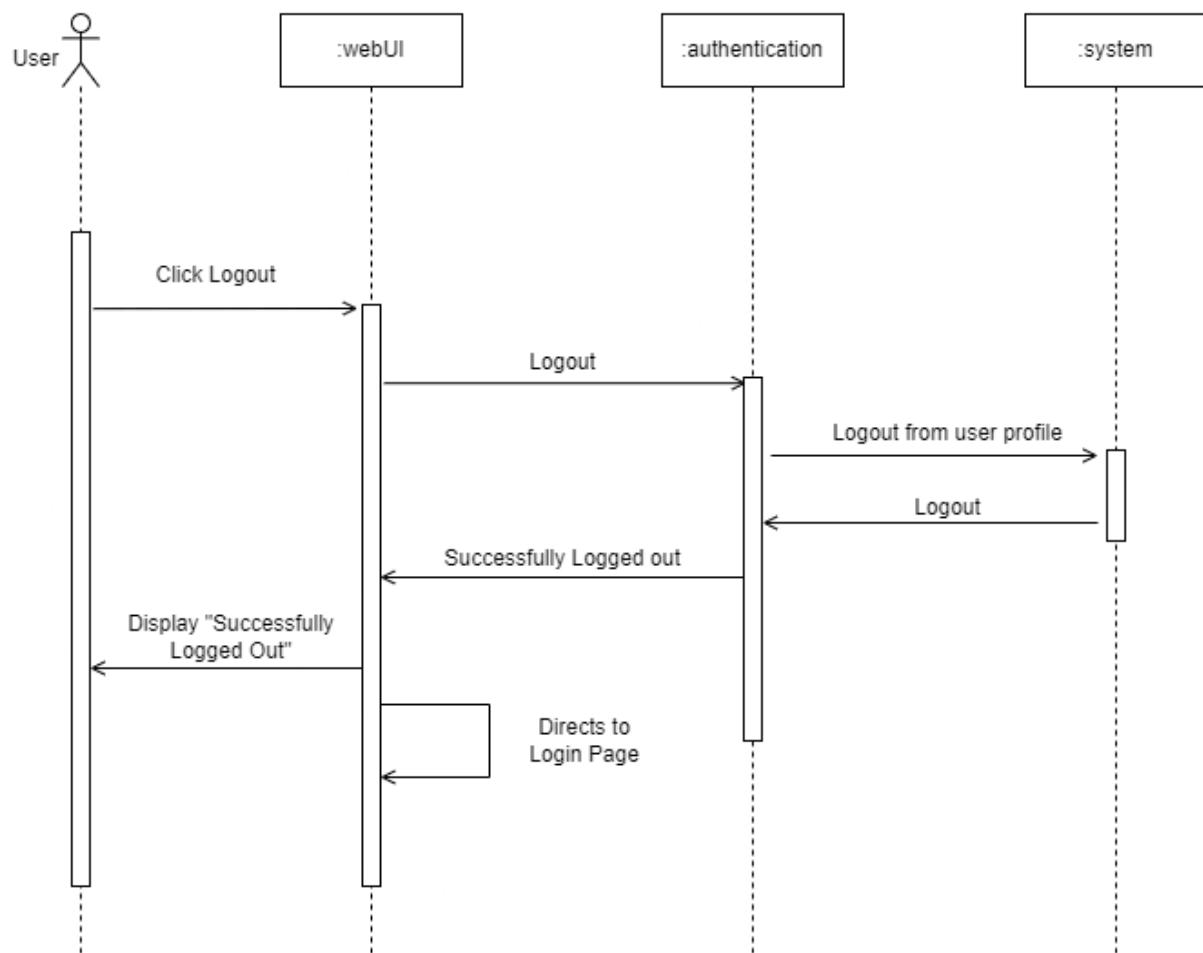
### 7.4.1 User register to their respective account



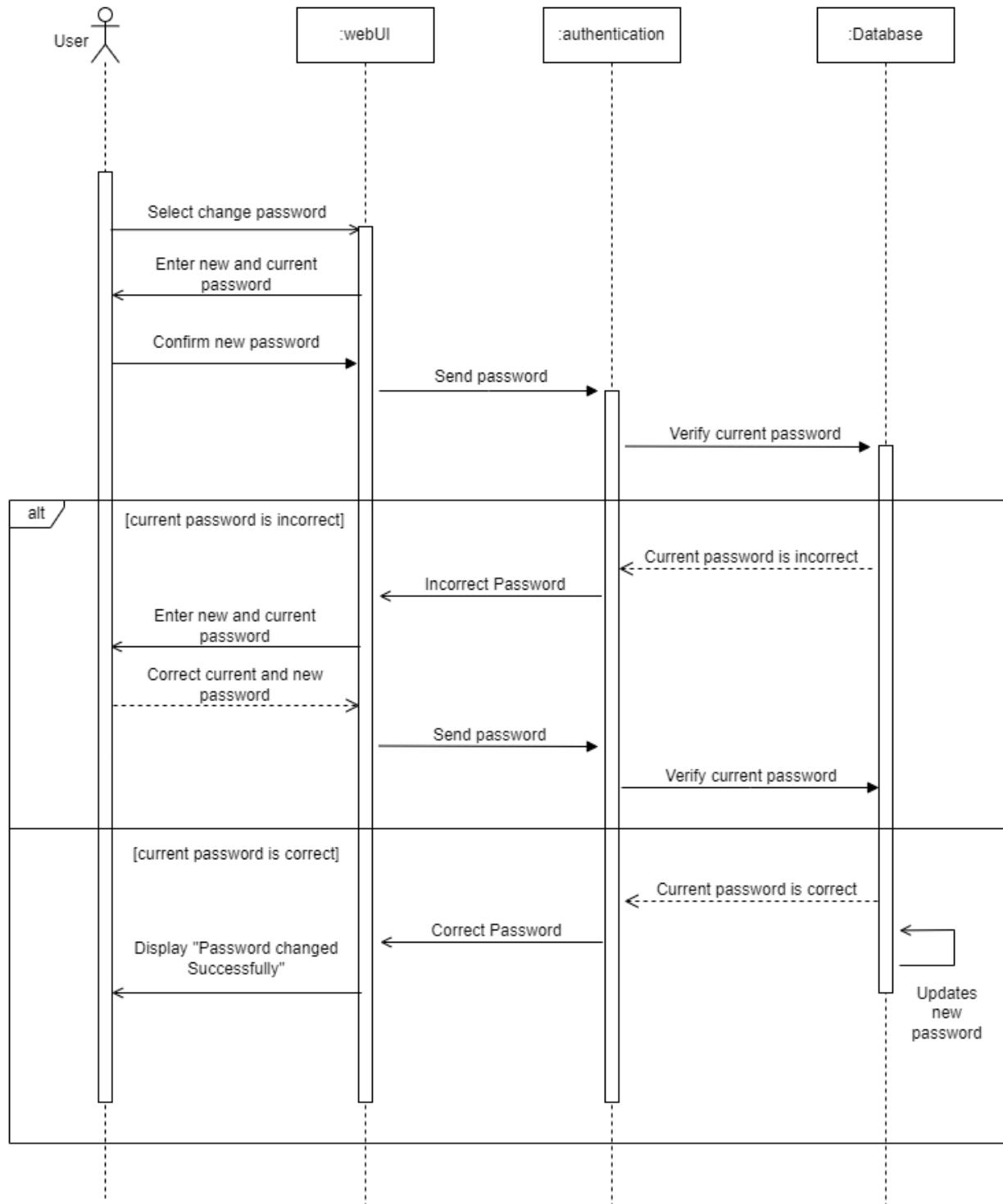
#### 7.4.2 User login to their respective account



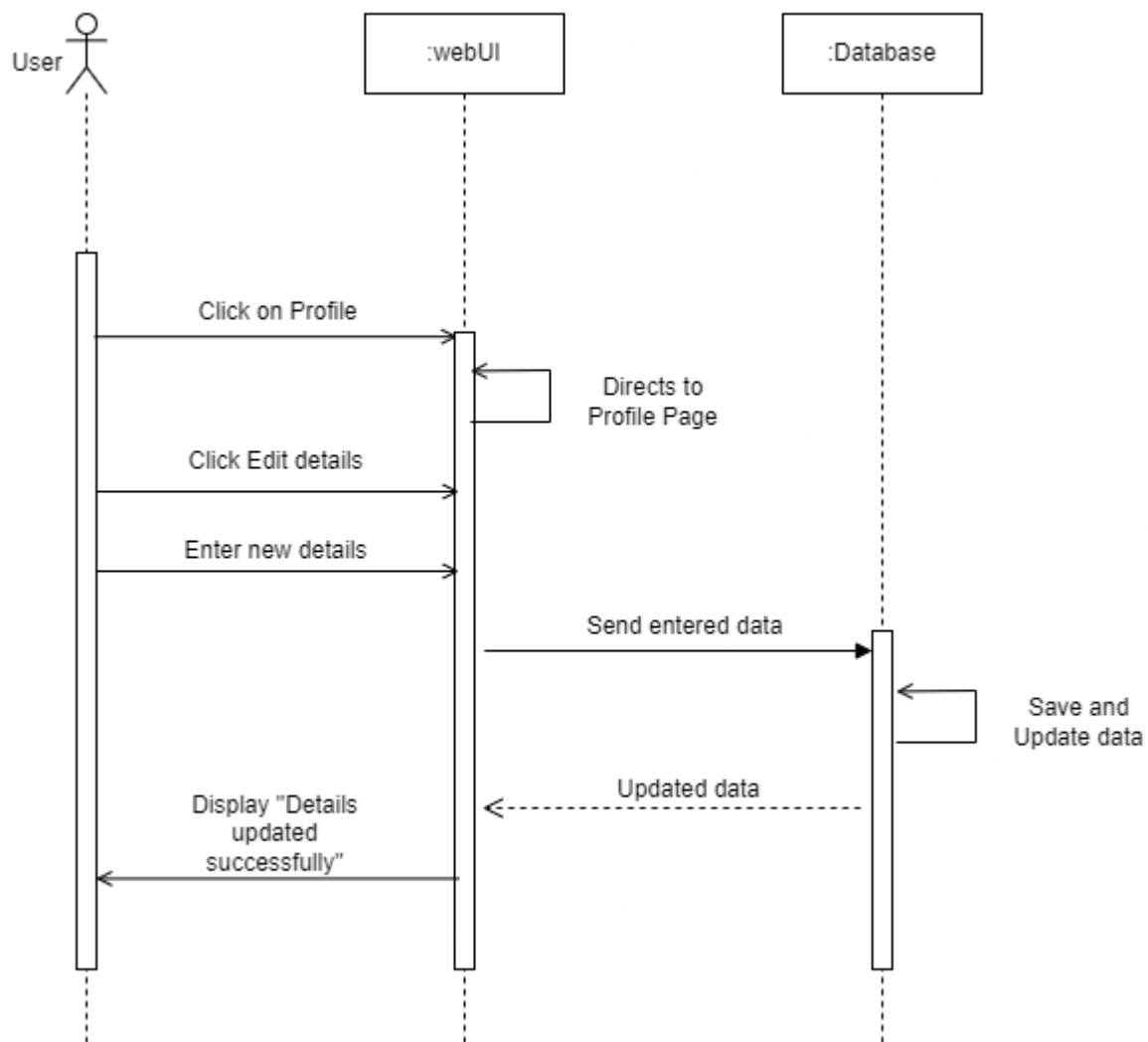
#### 7.4.3 User logout from their respective account



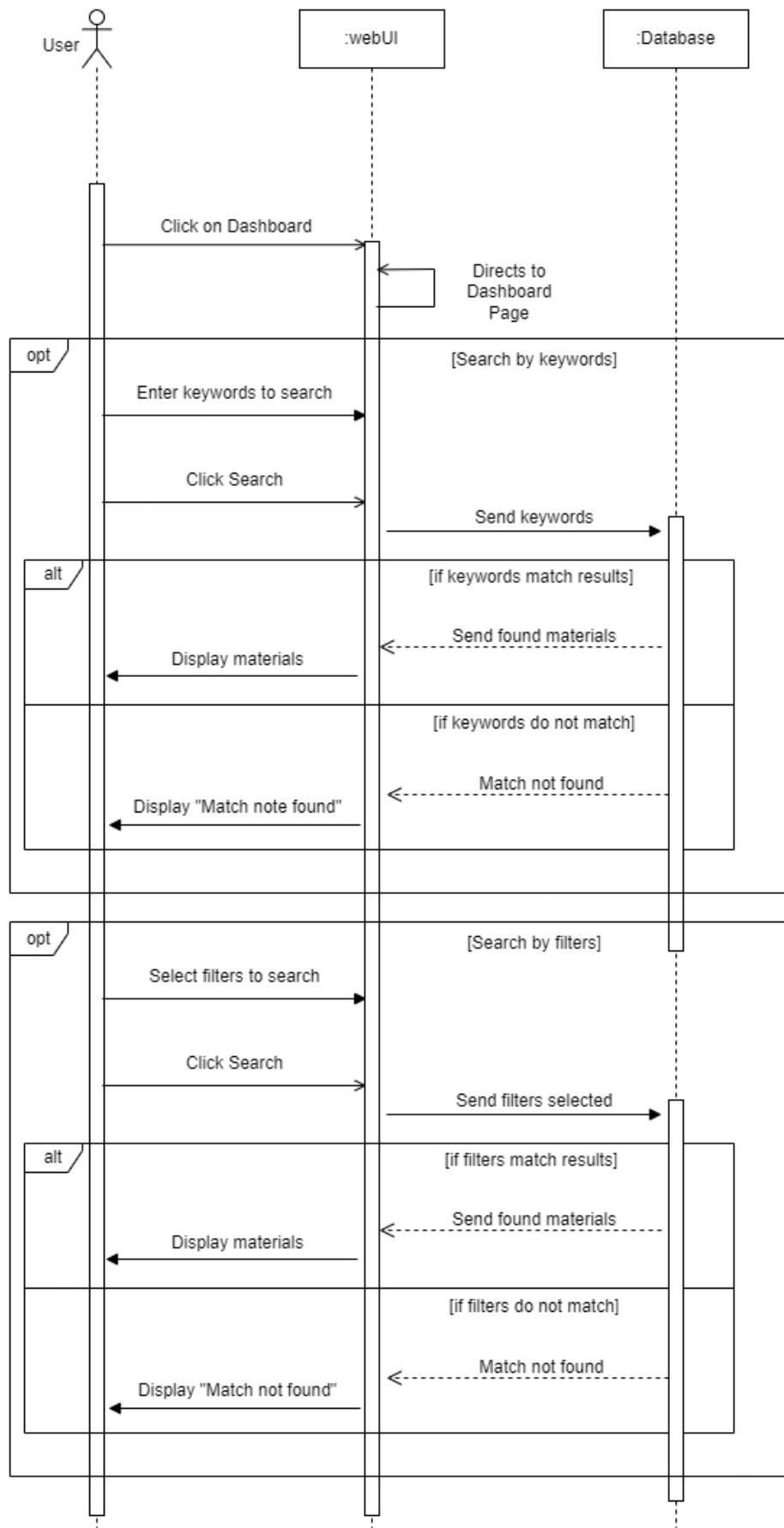
#### 7.4.4 User change the password of their account



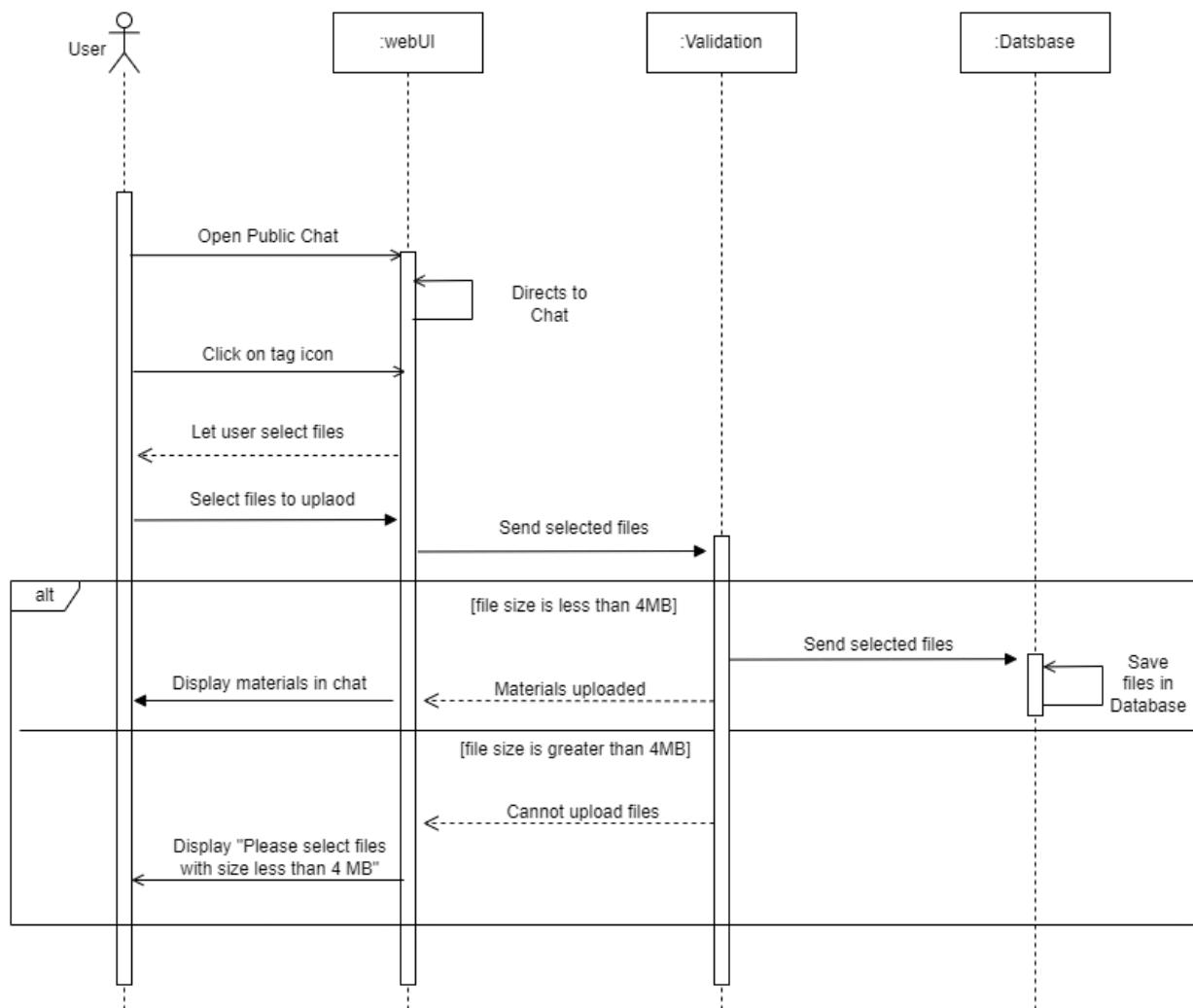
#### 7.4.5 User manage their profile



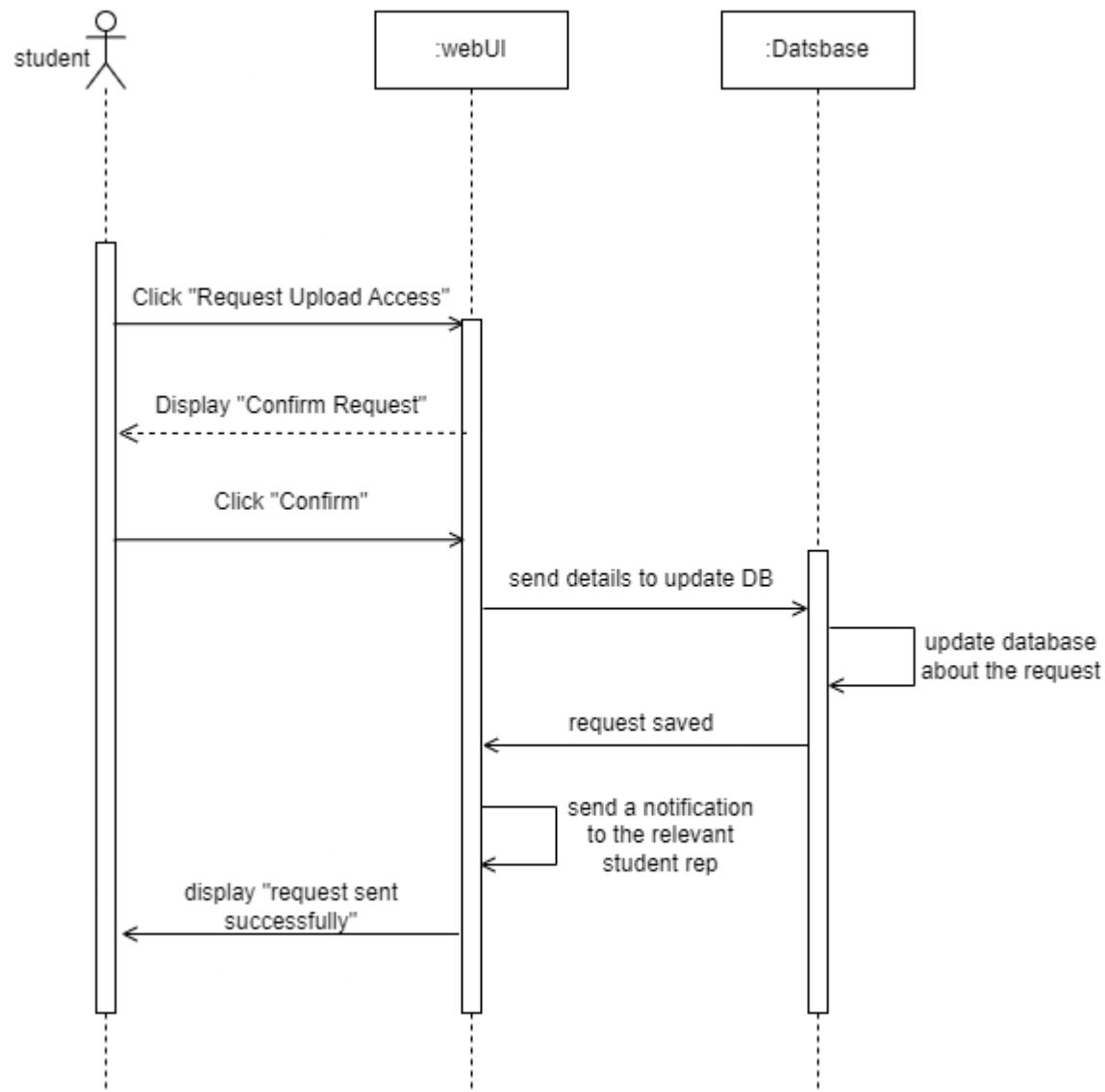
#### 7.4.6 Students search for study materials



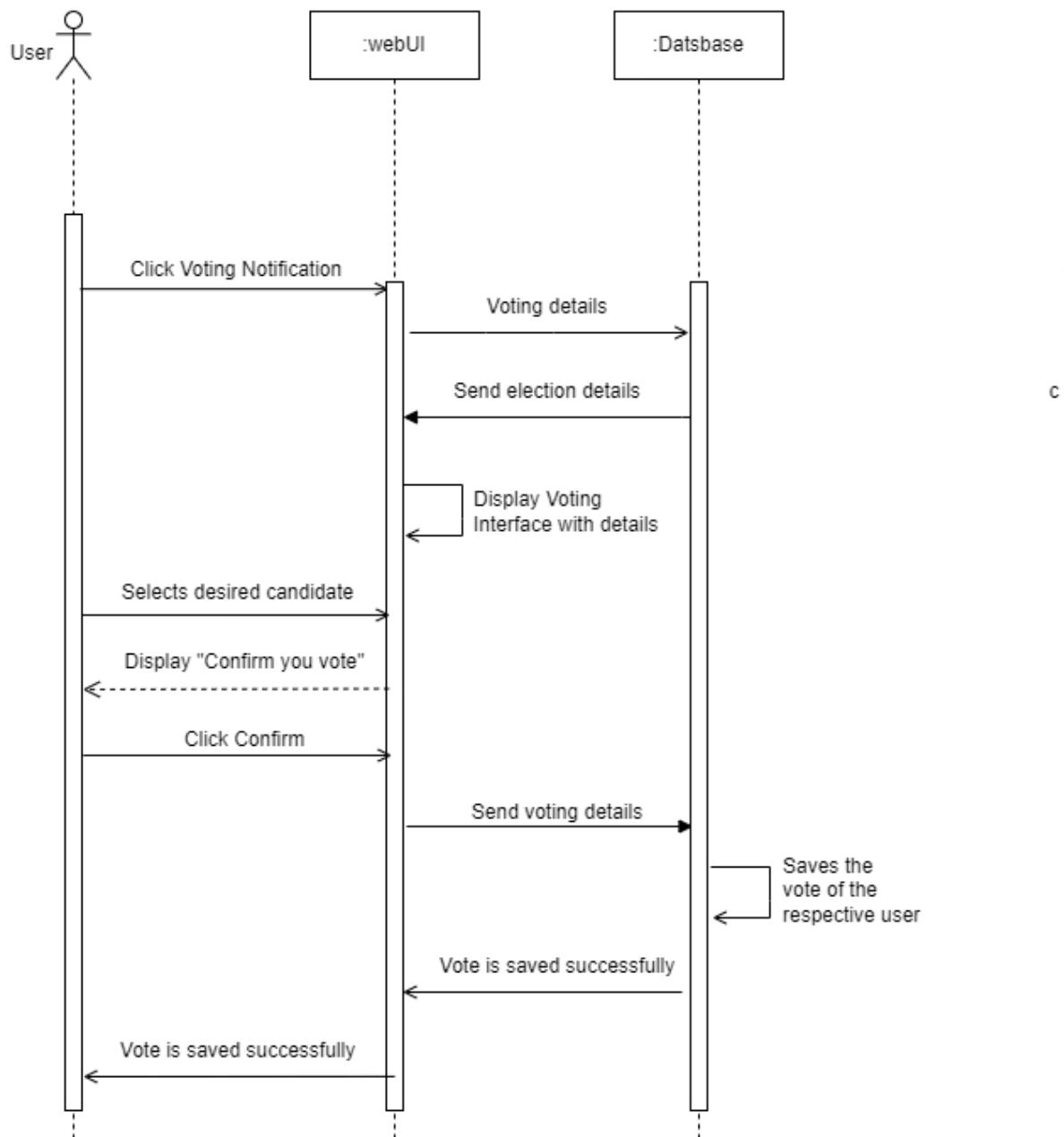
#### 7.4.7 Student upload materials to the public forum



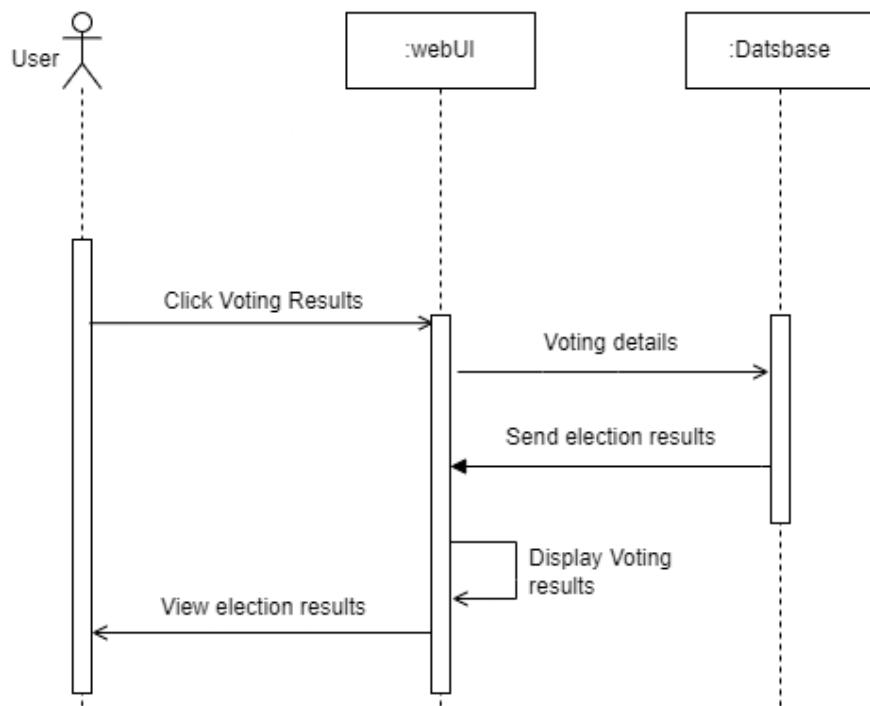
#### 7.4.8 Student requests to upload study materials



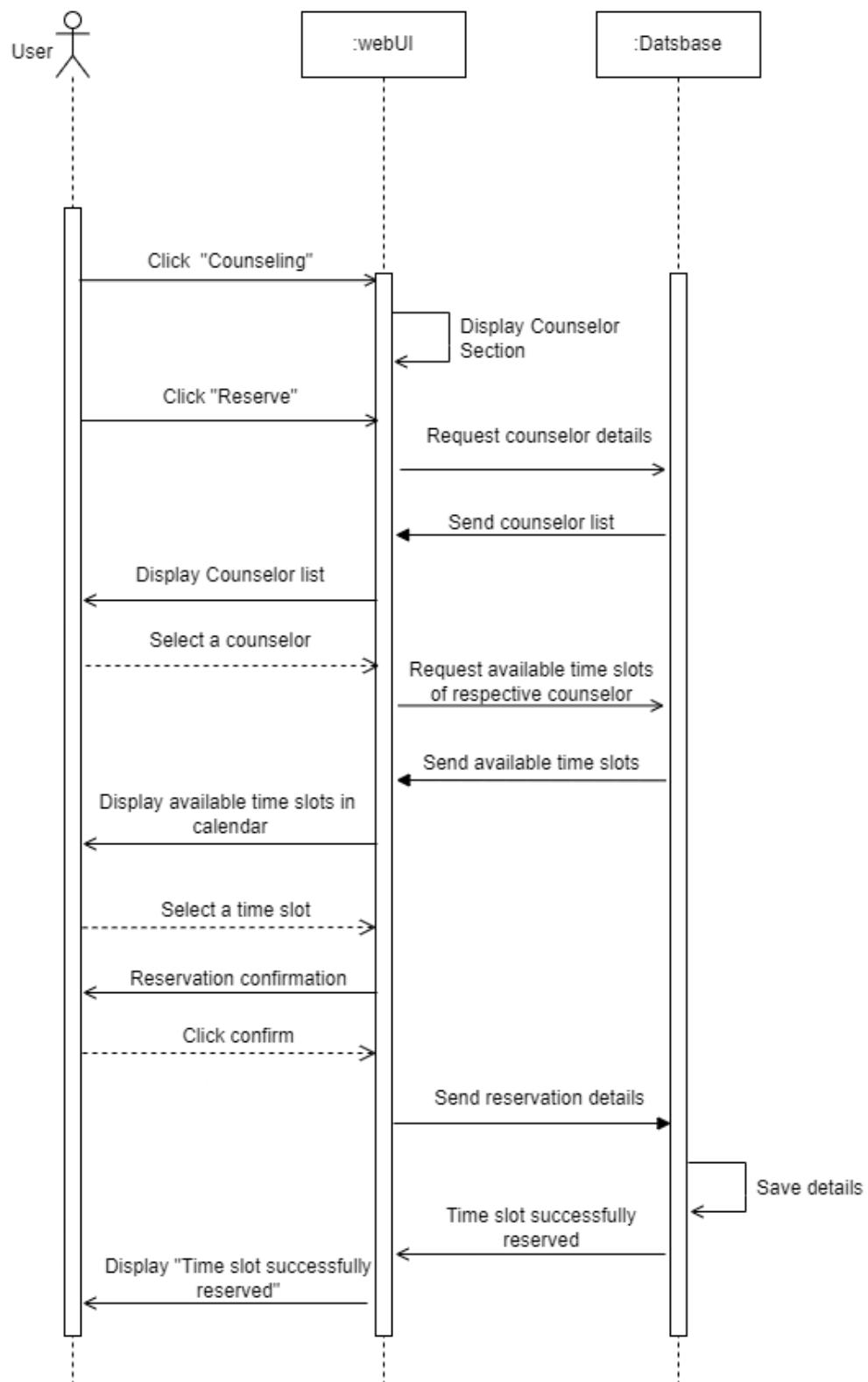
#### 7.4.9 Student participate in voting in an election



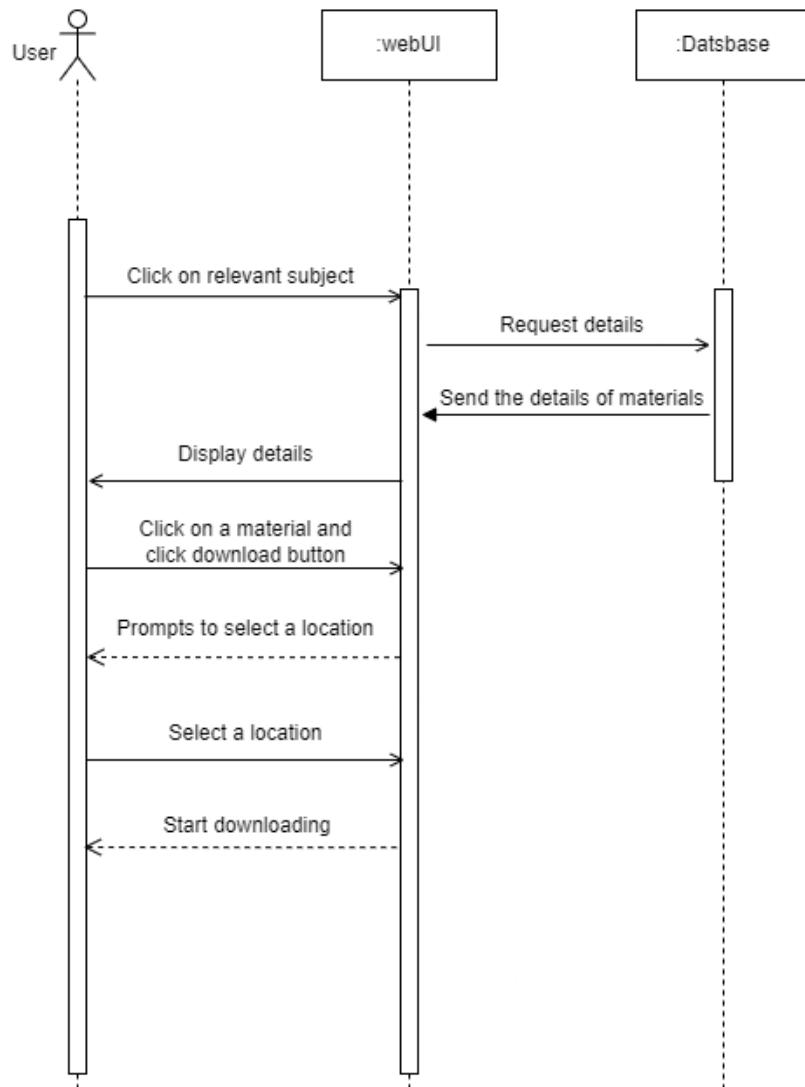
#### 7.4.10 Student view final results of an election



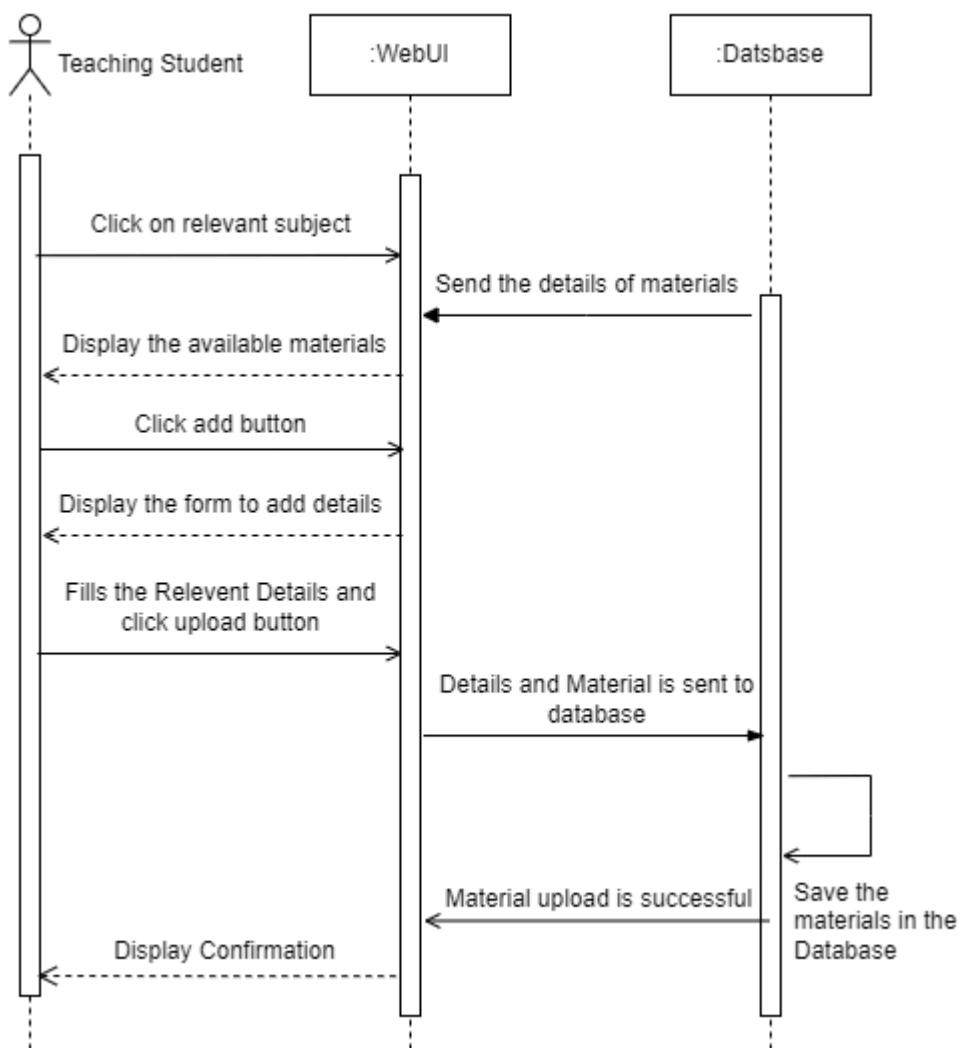
#### 7.4.11 Student request to reserve time slots from a counselor



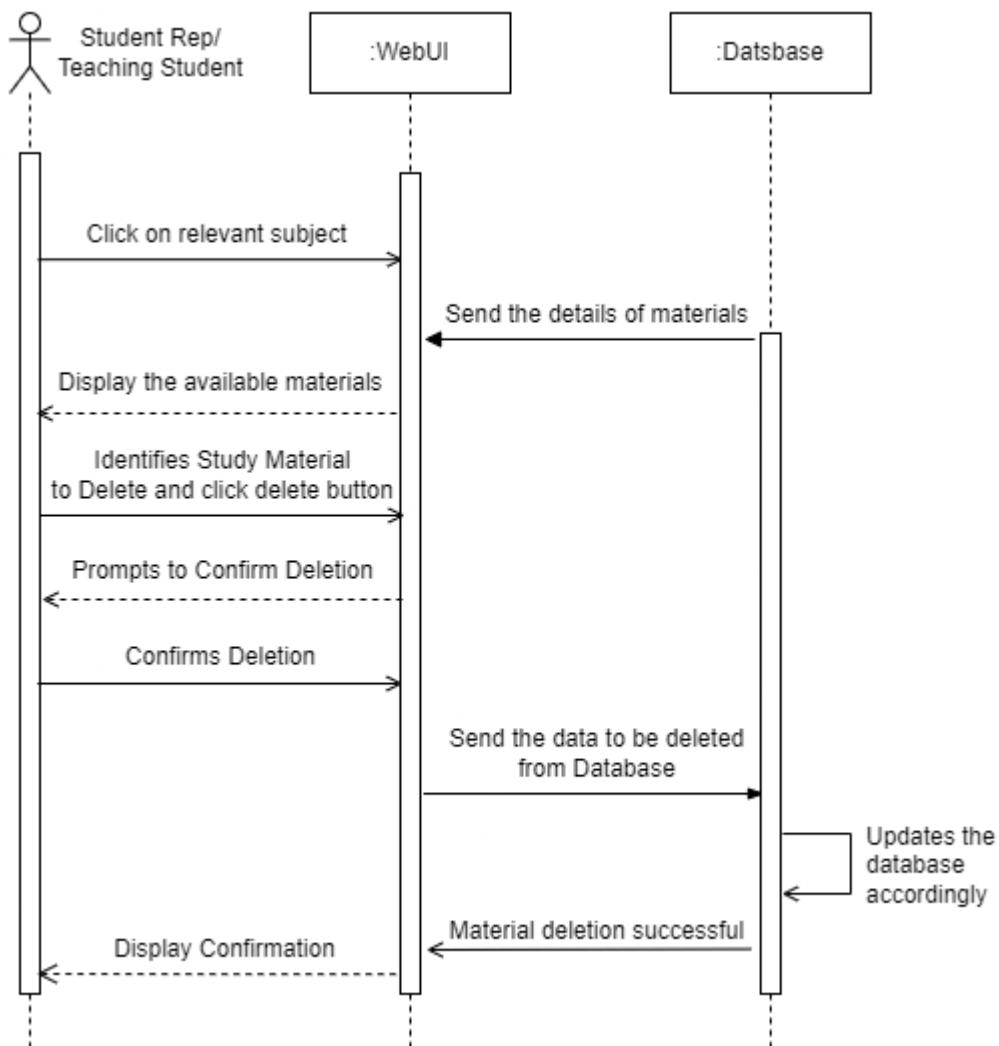
#### 7.4.12 Student download notes uploaded to the system



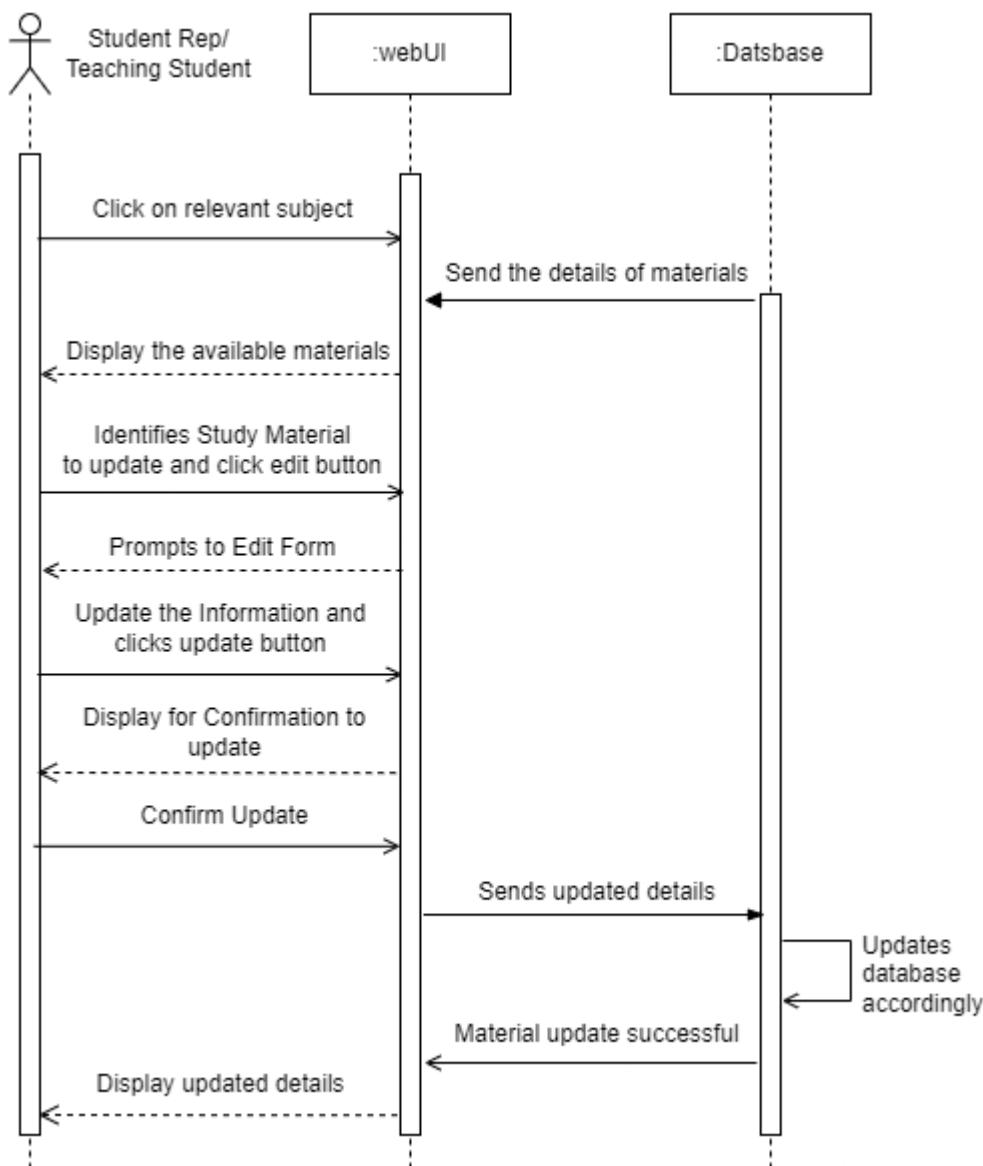
#### 7.4.14 Teaching student upload materials to the relevant subject



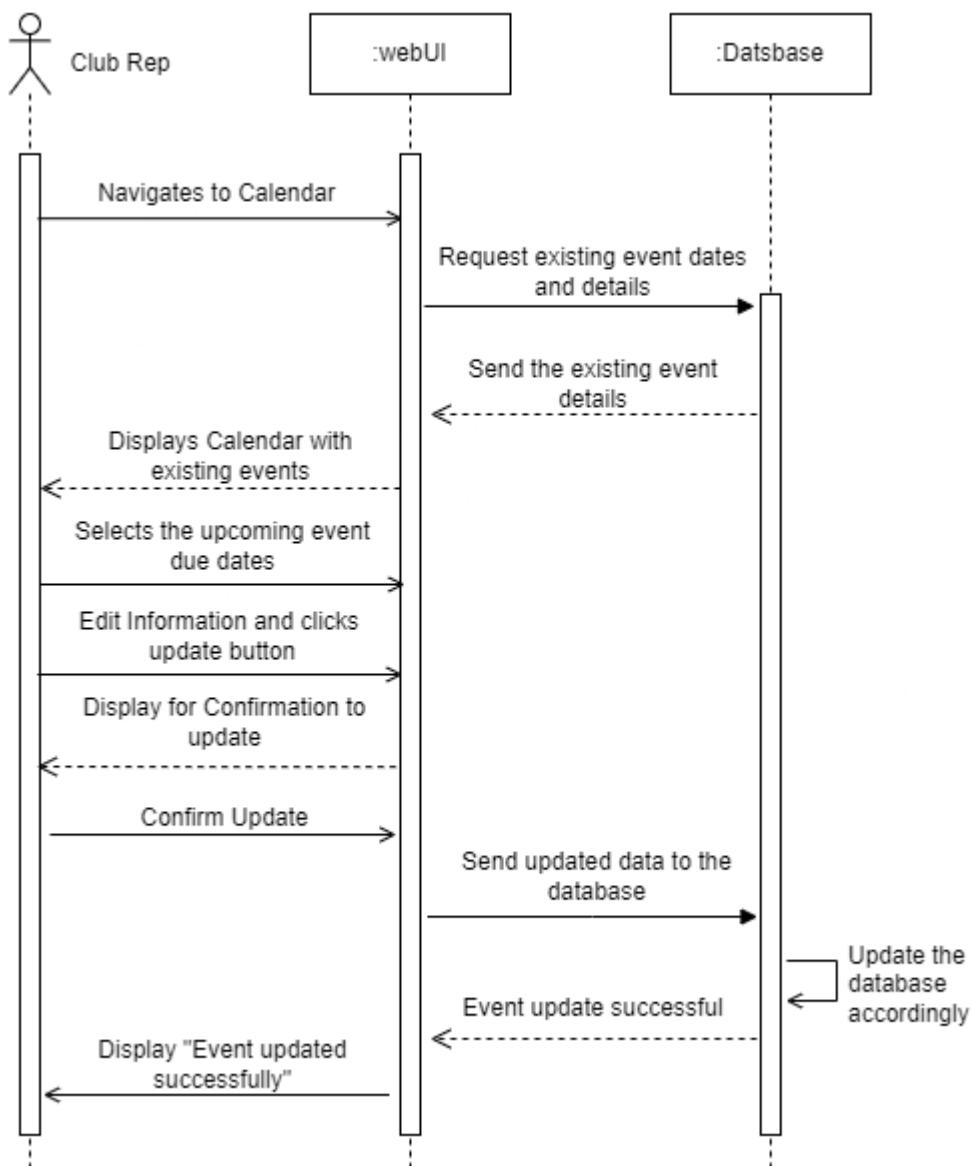
#### 7.4.15 Teaching student/ student representative/ admin deleted uploaded materials



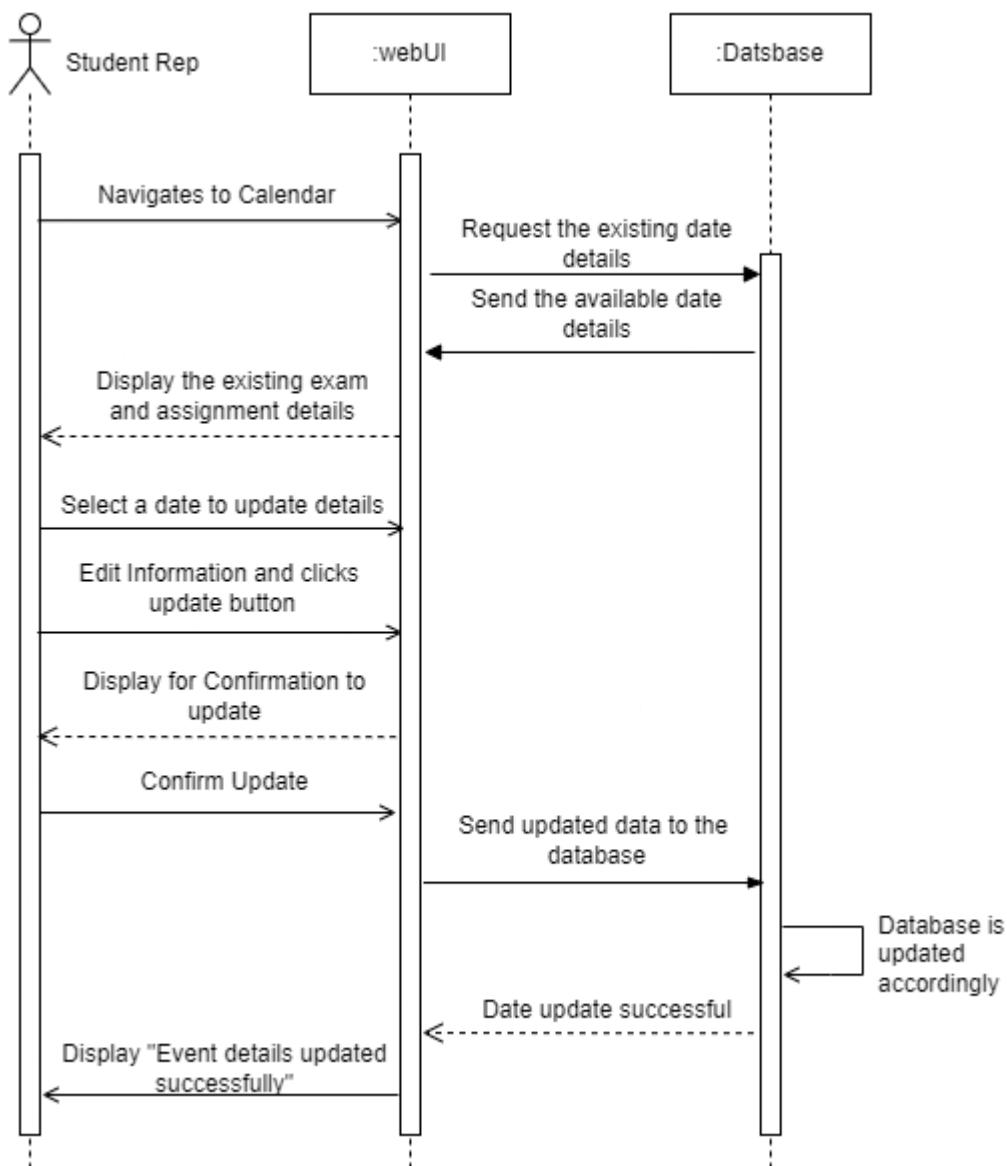
#### 7.4.16 Teaching student/ student representative/ admin update uploaded materials



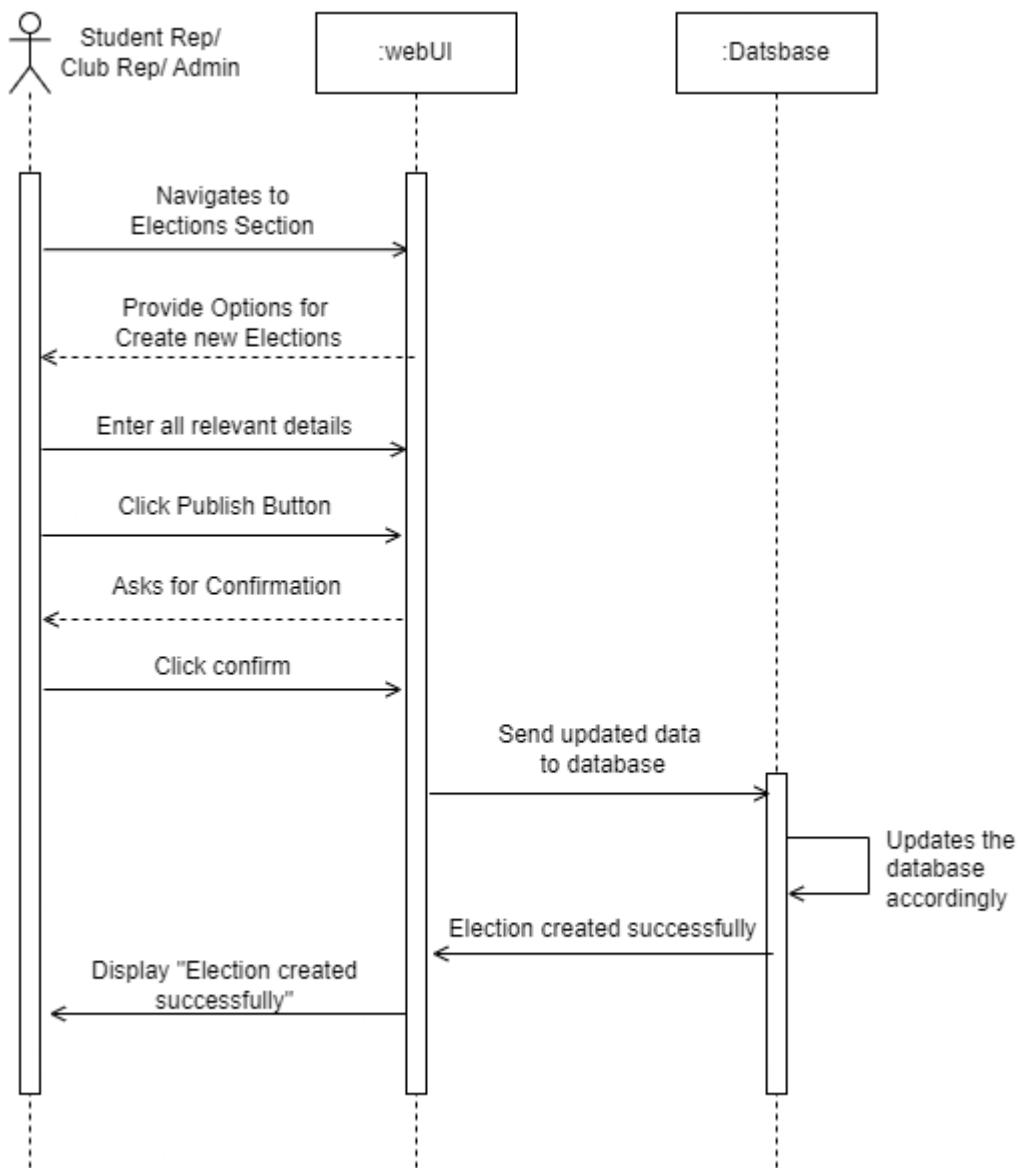
#### 7.4.17 Club representative update the calendar with events



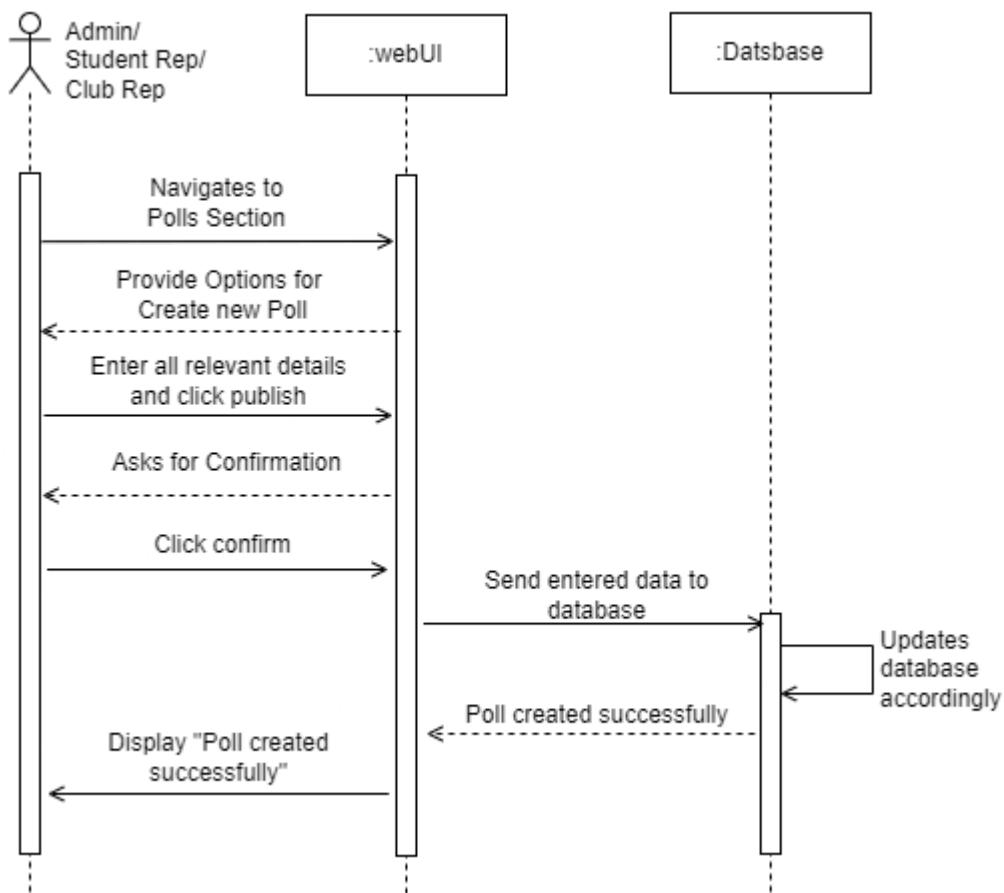
#### 7.4.18 Student representative update the calendar with exam dates and assignment dates



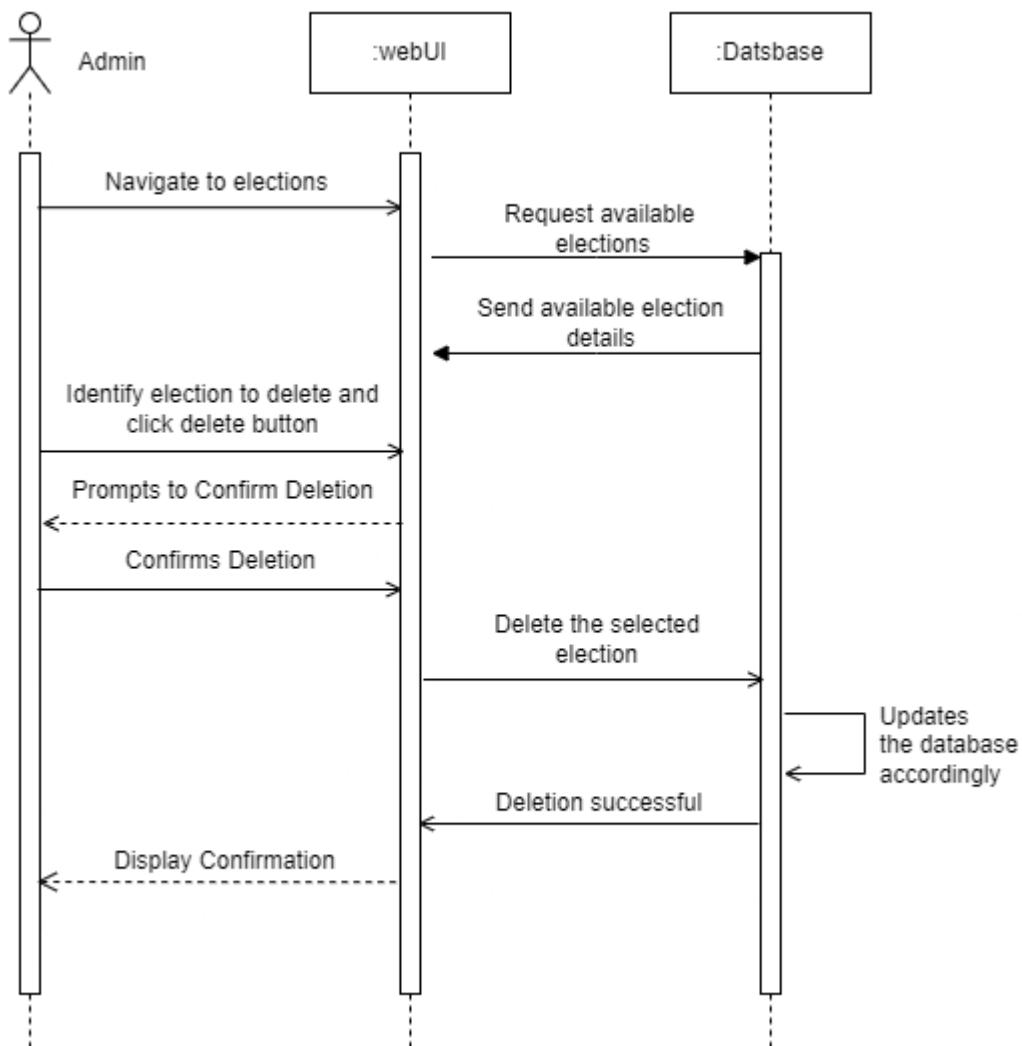
#### 7.4.19 Student representative/ club representative/ admin create election



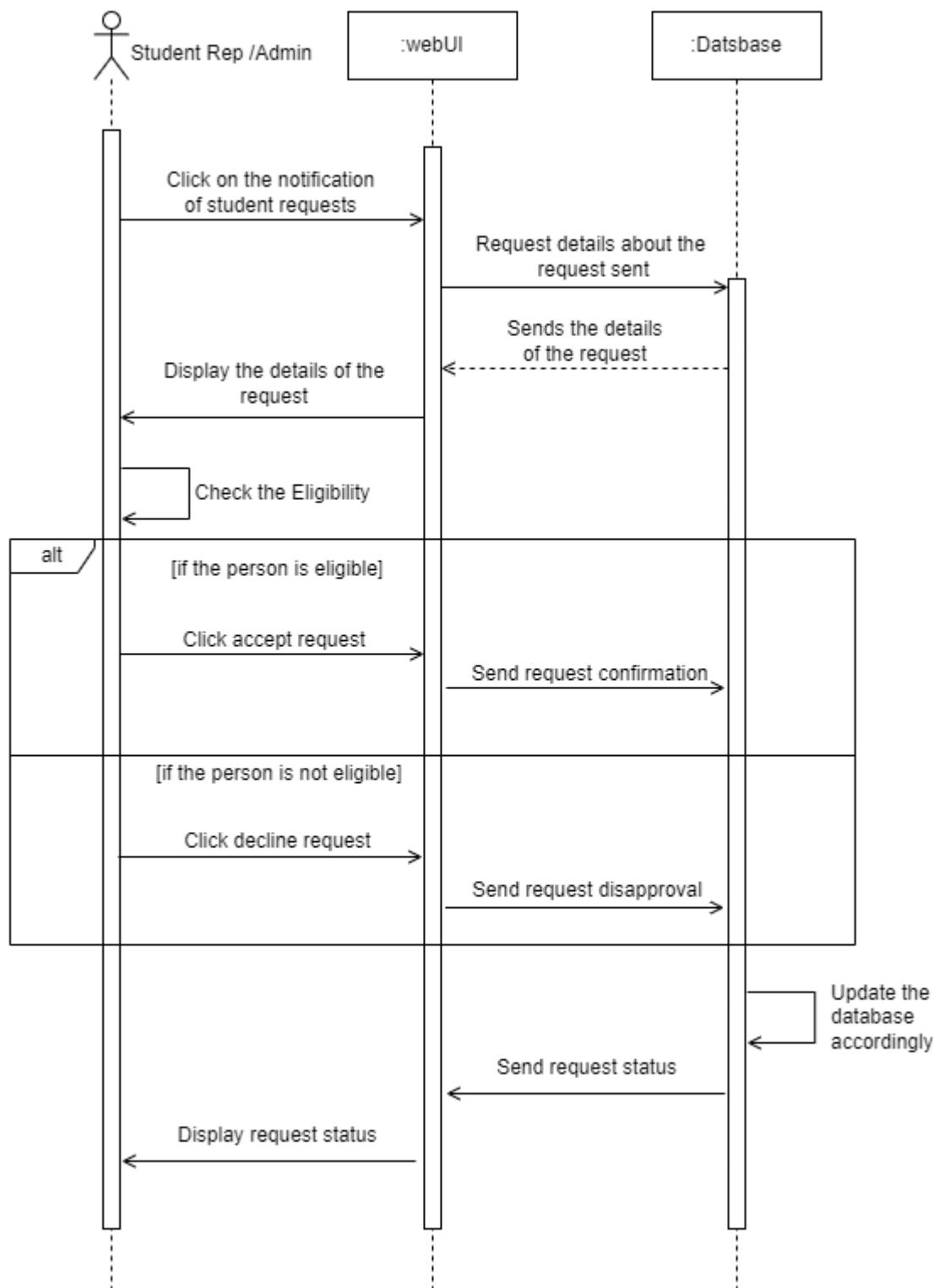
#### 7.4.20 Student representative/ club representative/ admin create polls



#### 7.4.21 Student representative/ club representative/ admin delete an election



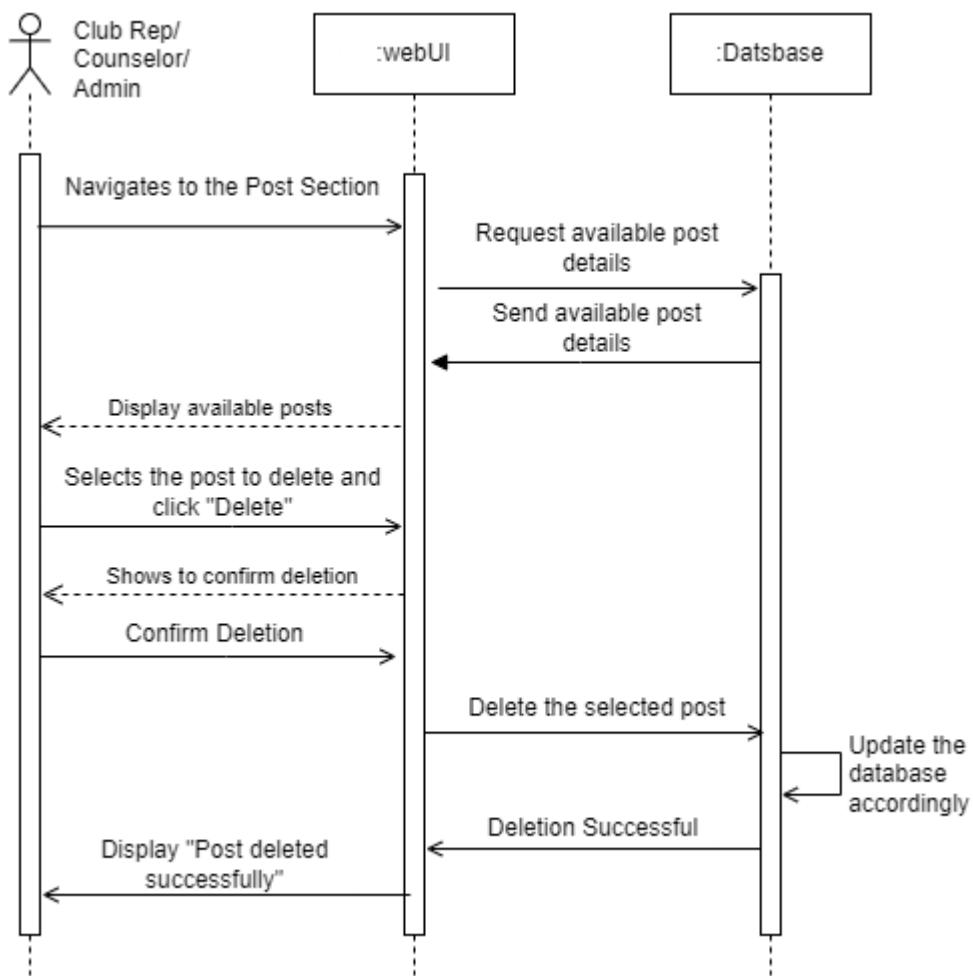
#### 7.4.22 Student representative/ admin manage the requests received



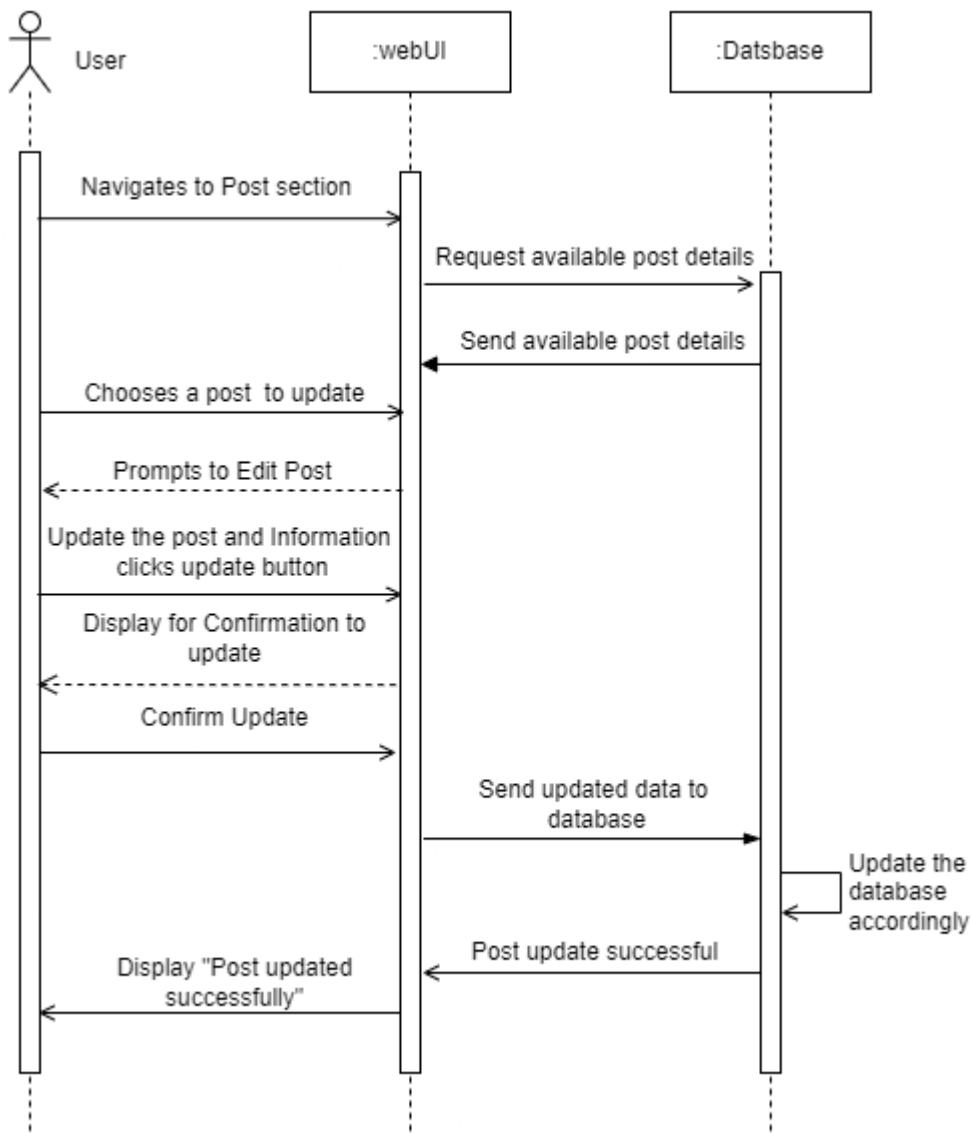
#### 7.4.23 Club representative/ Admin/ Counselor upload posts to their respective feeds



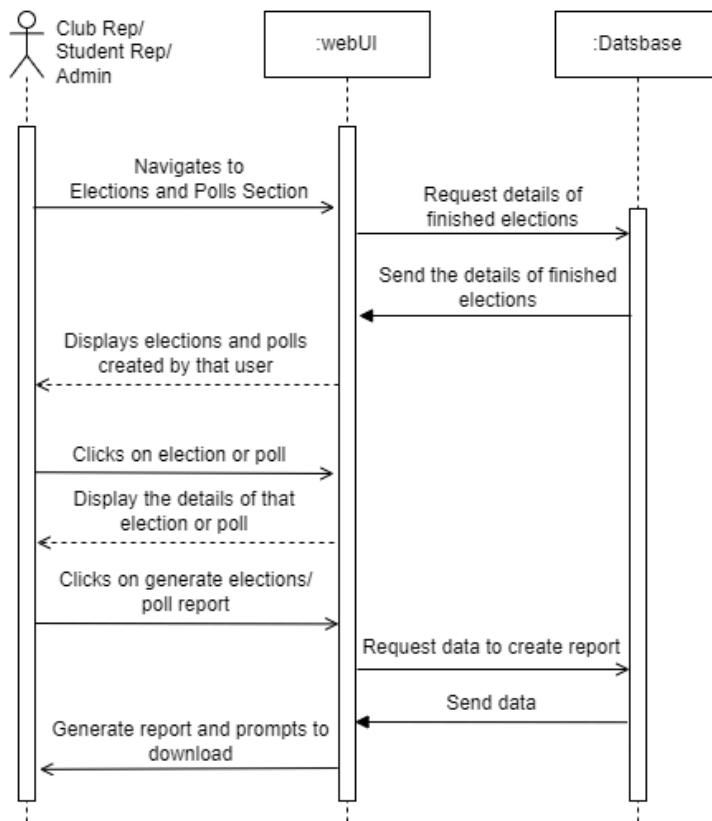
#### 7.4.24 Club representative/ Admin/ Counselor delete a post



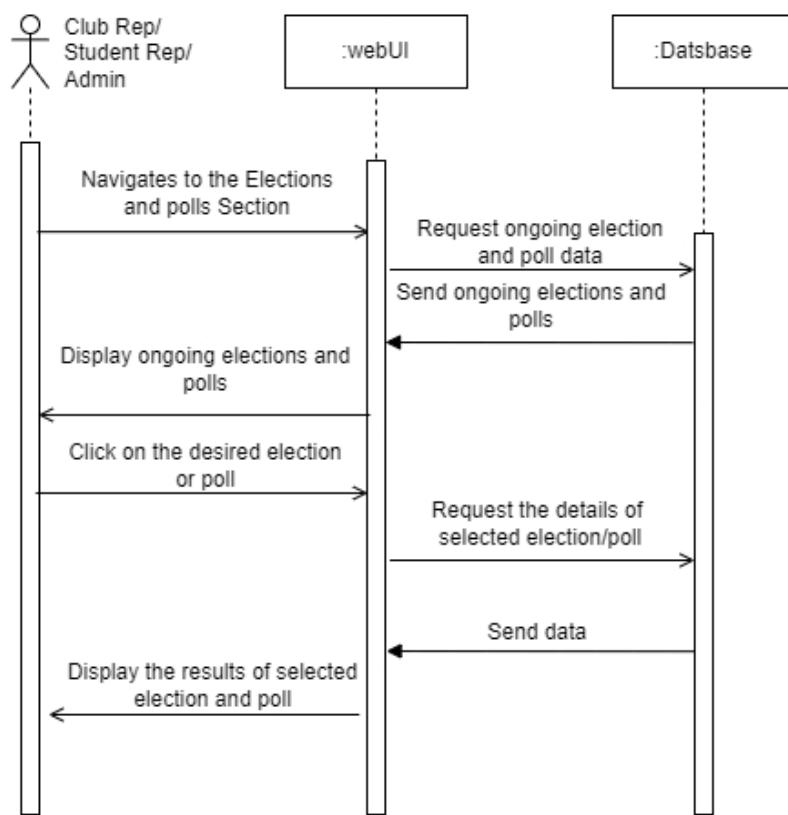
#### 7.4.25 Club representative/ Admin/ Counsrlor update a post that is uploaded



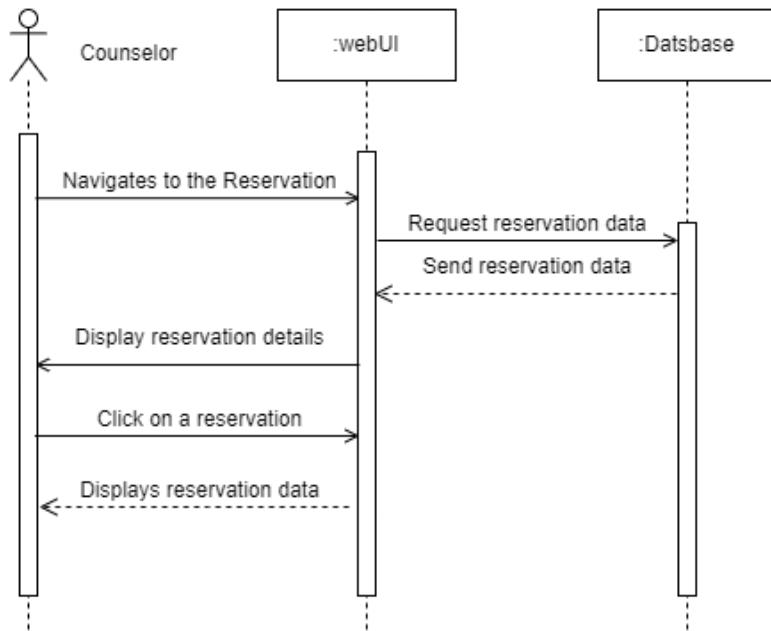
#### 7.4.26 Club representative/ Student representative/ Admin generate reports from elections



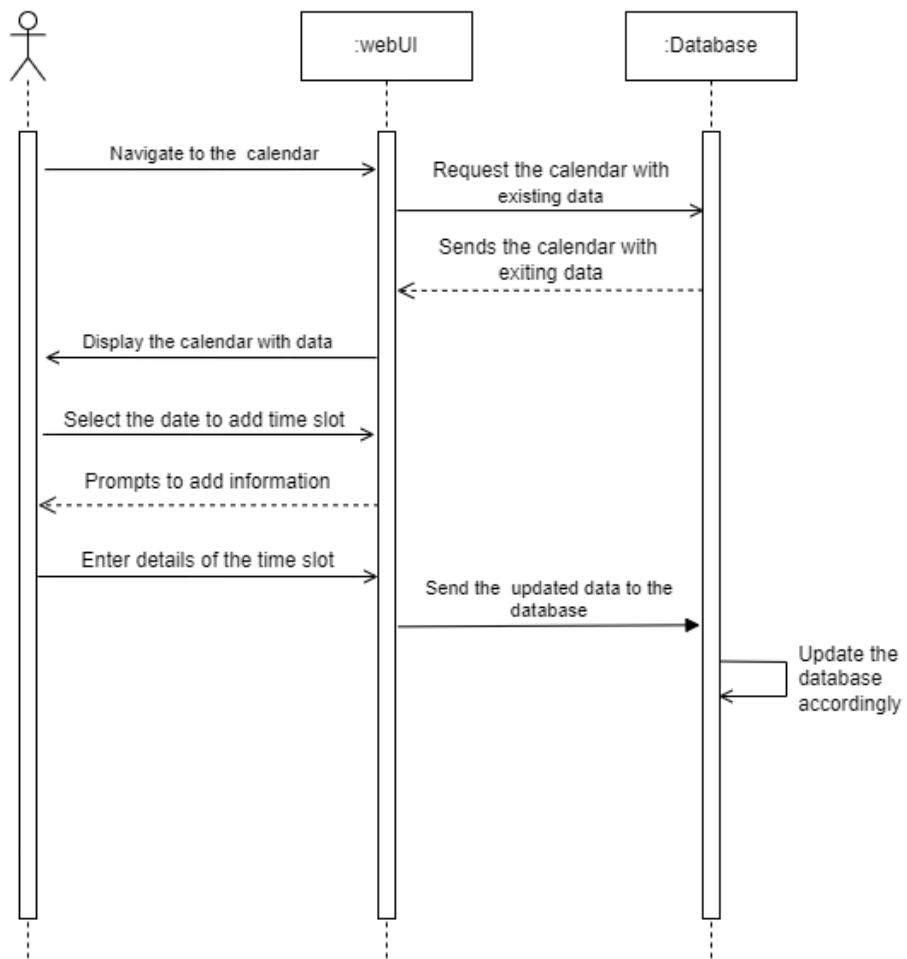
#### 7.4.28 Student representative/ Club representative/ admin view live responses to elections



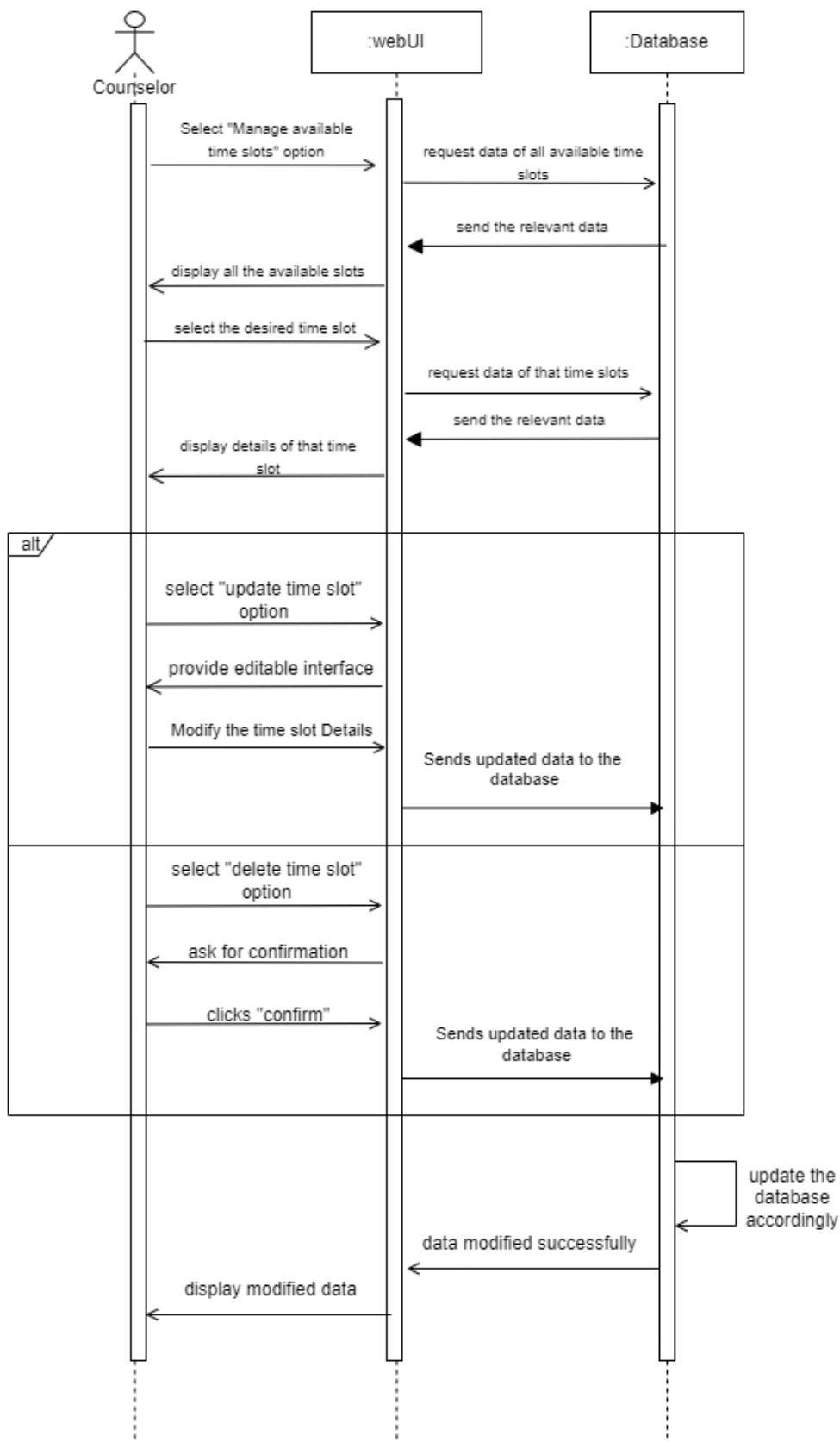
#### 7.4.29 Counselor view reservations



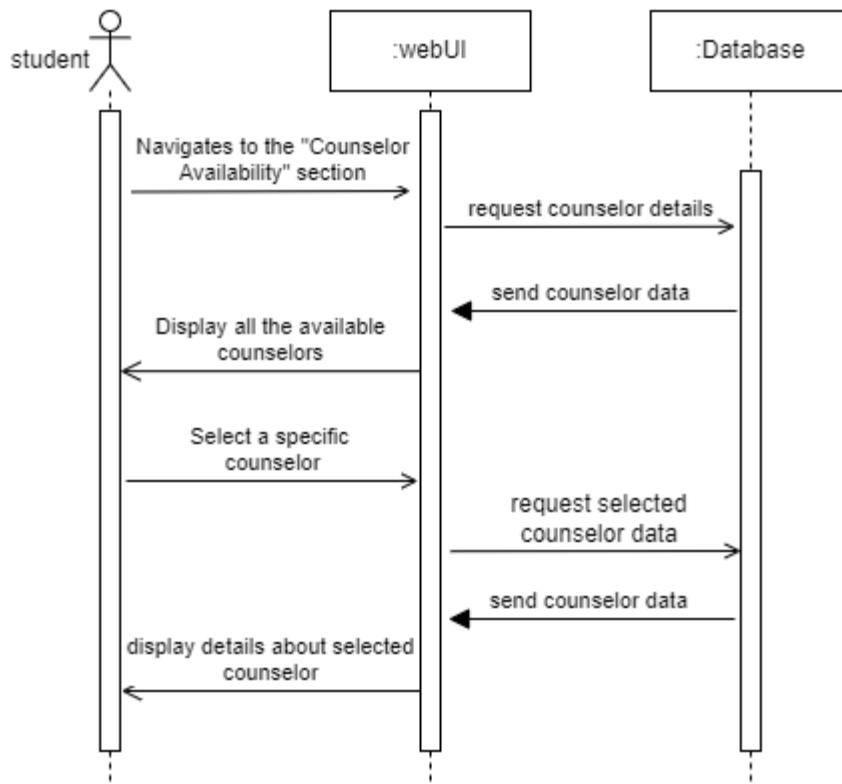
#### 7.4.30 Counselor add available timeslots



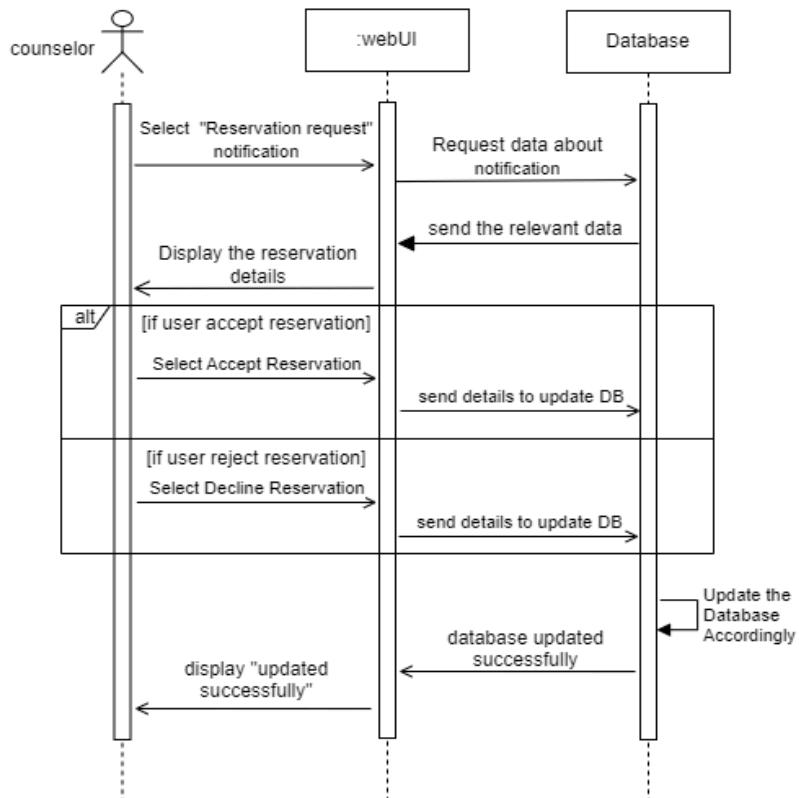
#### **7.4.31 Counselor manage timeslots**



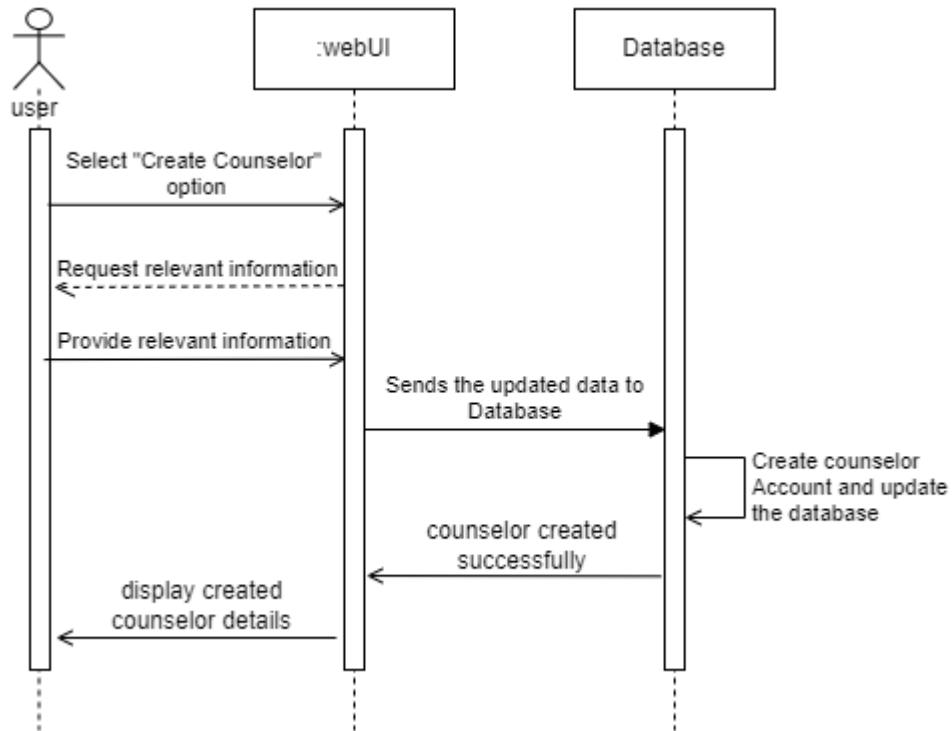
#### 7.4.32 Students view counselor available time slots



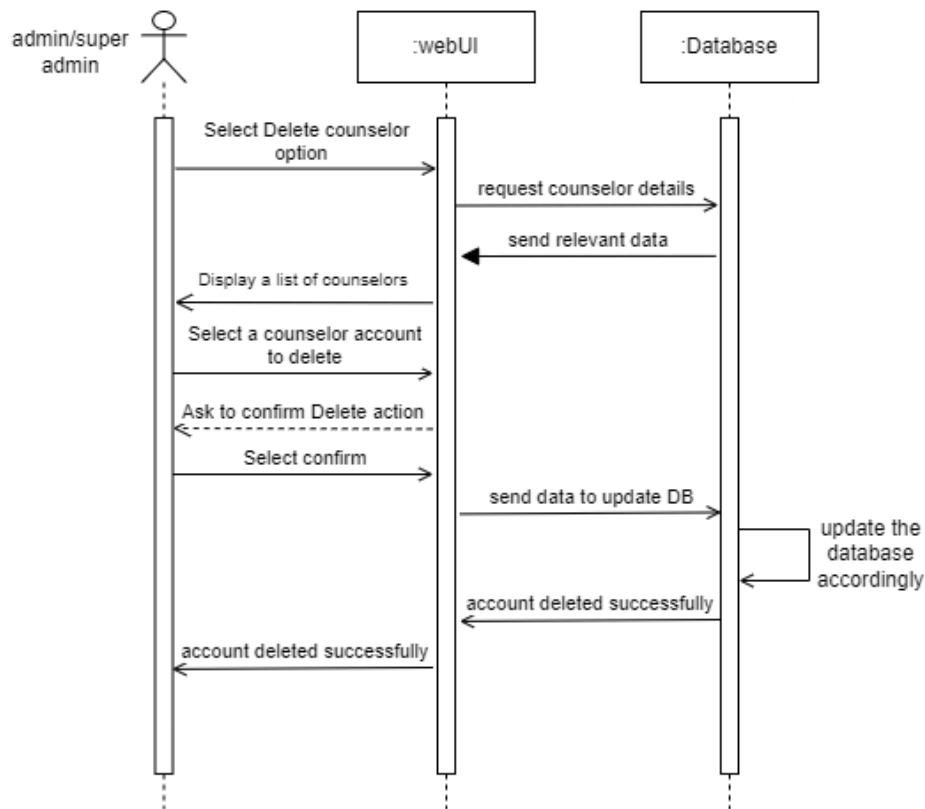
#### 7.4.33 Counselor accepts or rejects student reservation requests



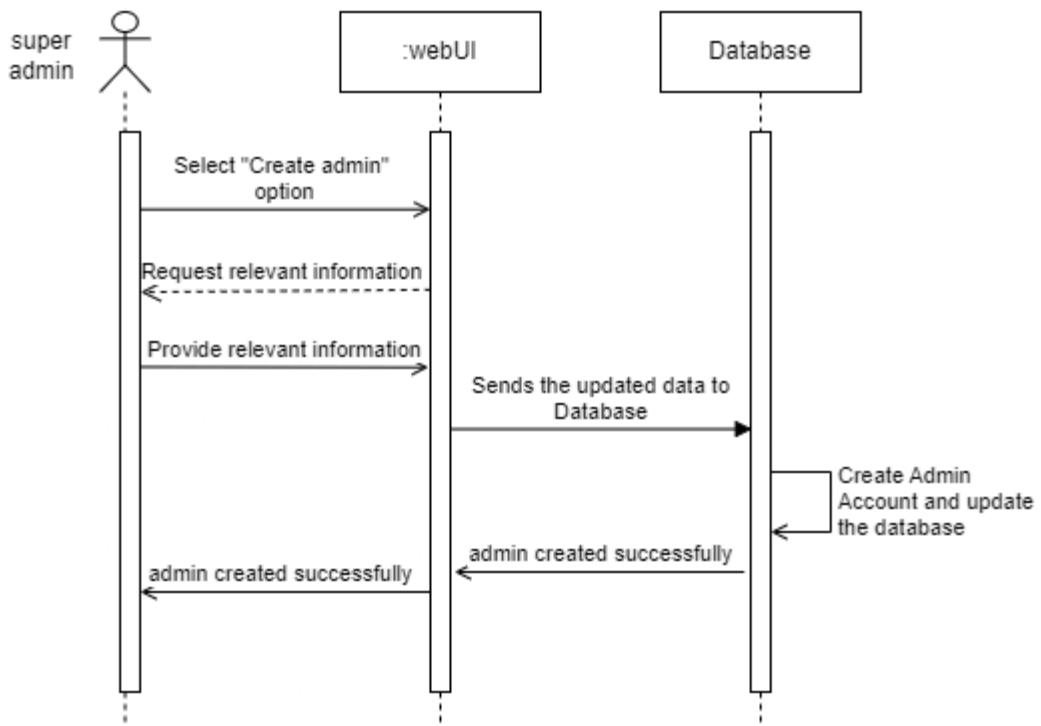
#### 7.4.33 Admin created counselor accounts



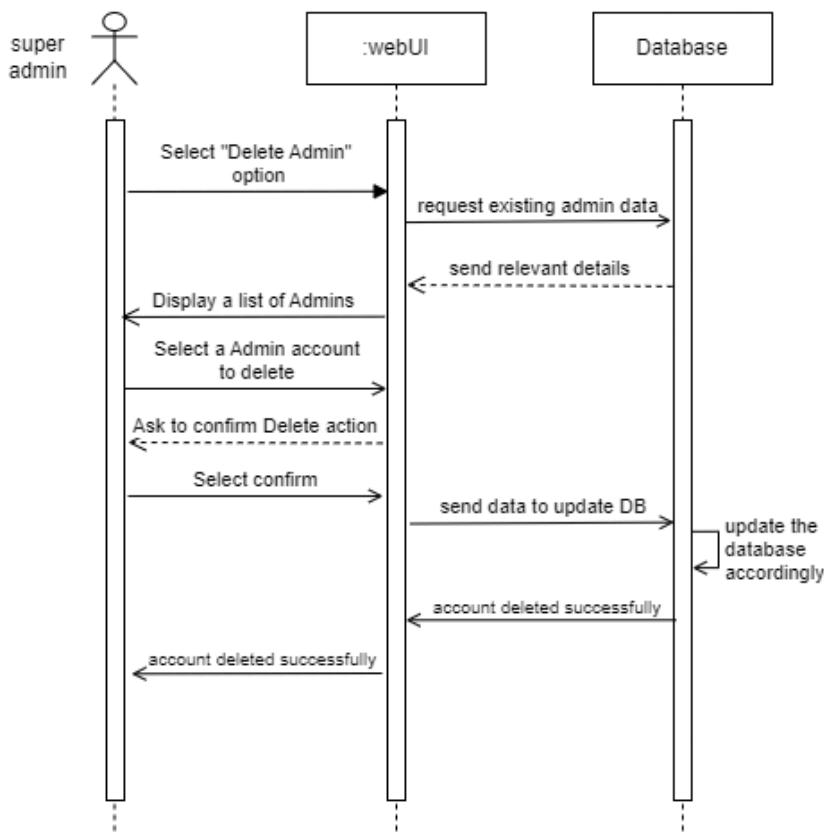
#### 7.4.34 Admin deletes counselor accounts



#### 7.4.37 Super admin creates the admin account

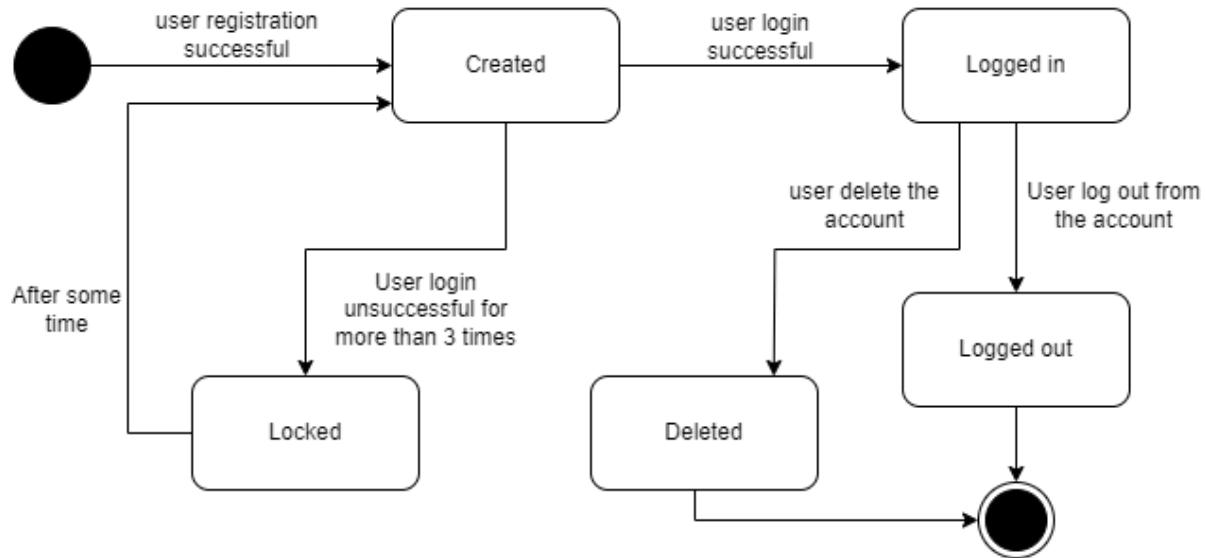


#### 7.4.38 Super admin deletes admin account

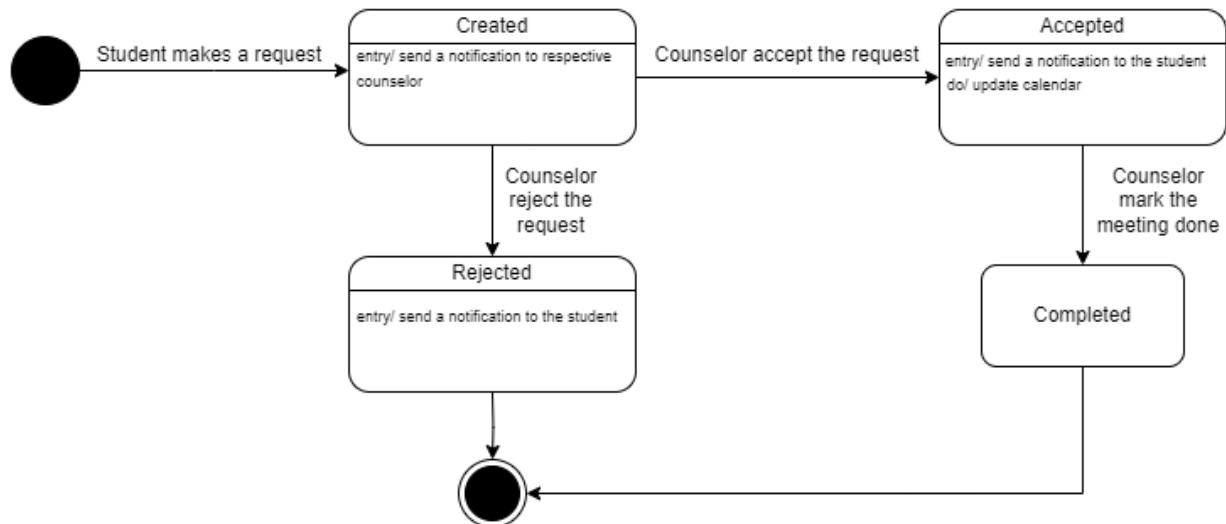


## 5.5 State Transition Diagrams

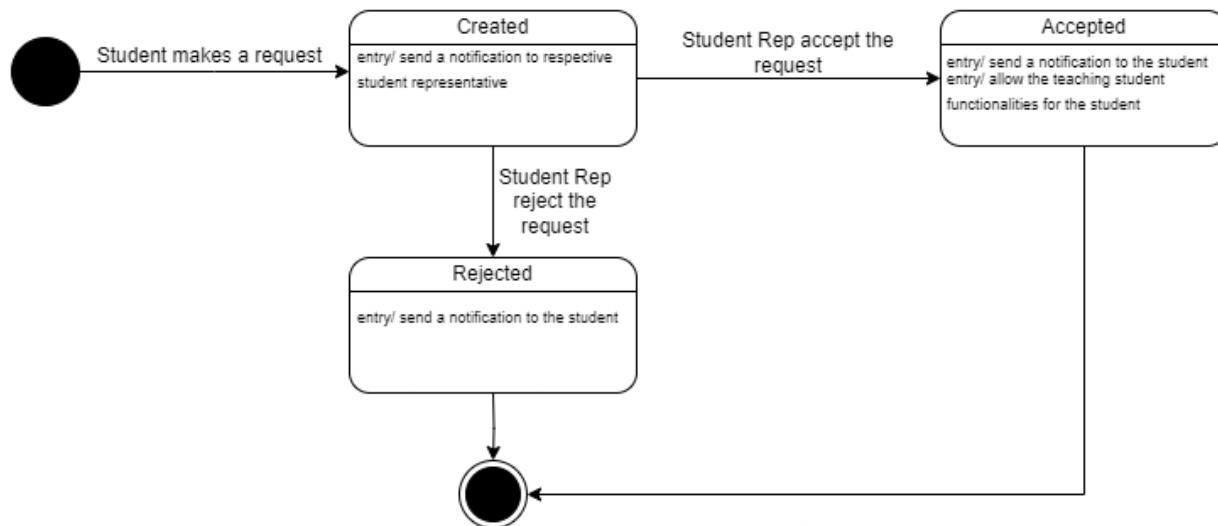
### 5.5.1 User account state transition diagram



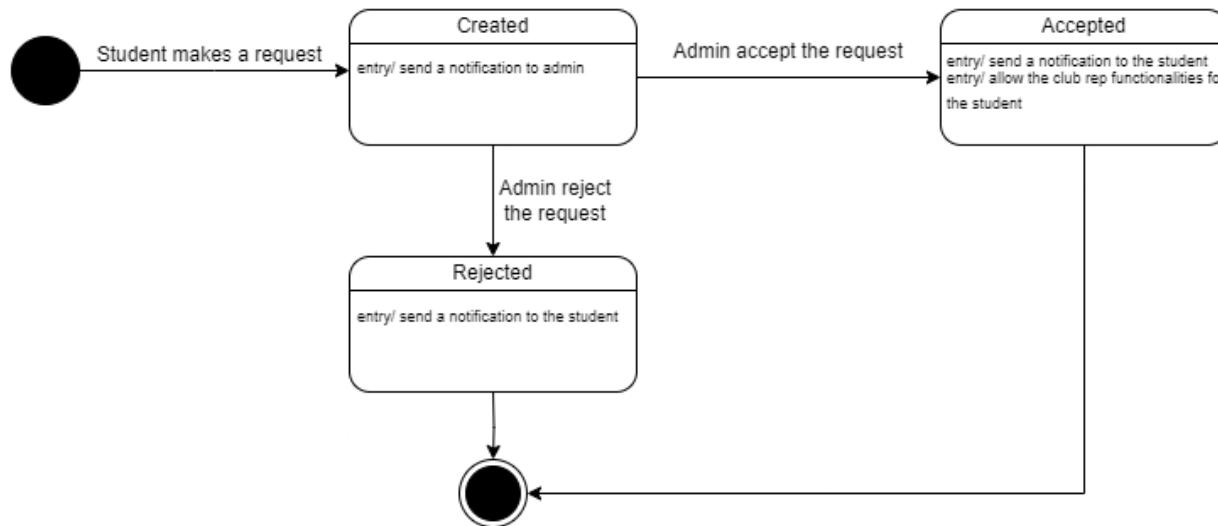
### 5.5.2 Counselor Appointment state transition diagram



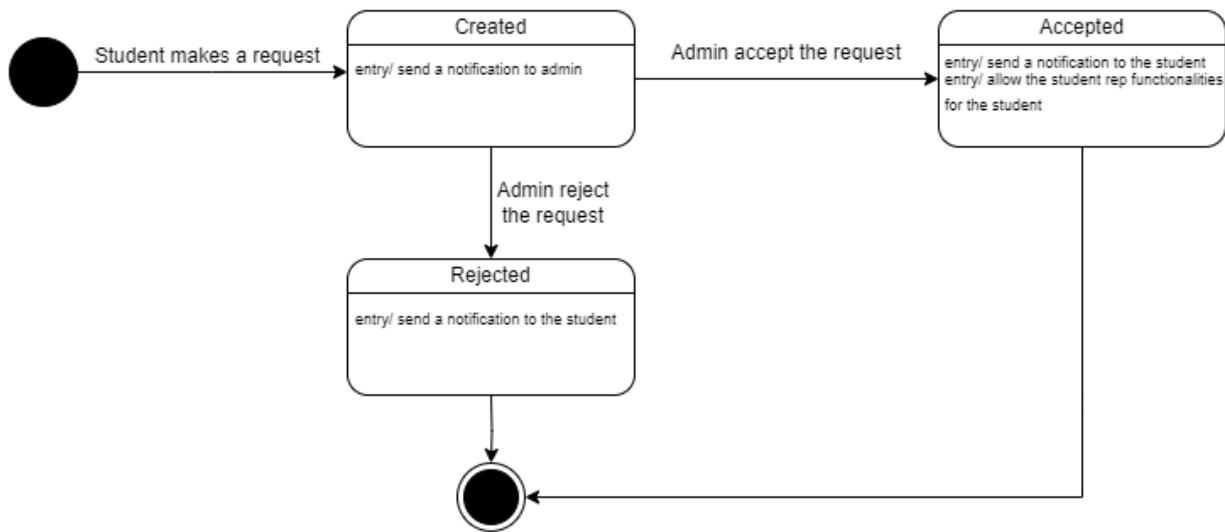
### 5.5.3 Student request to upload materials state transition diagram



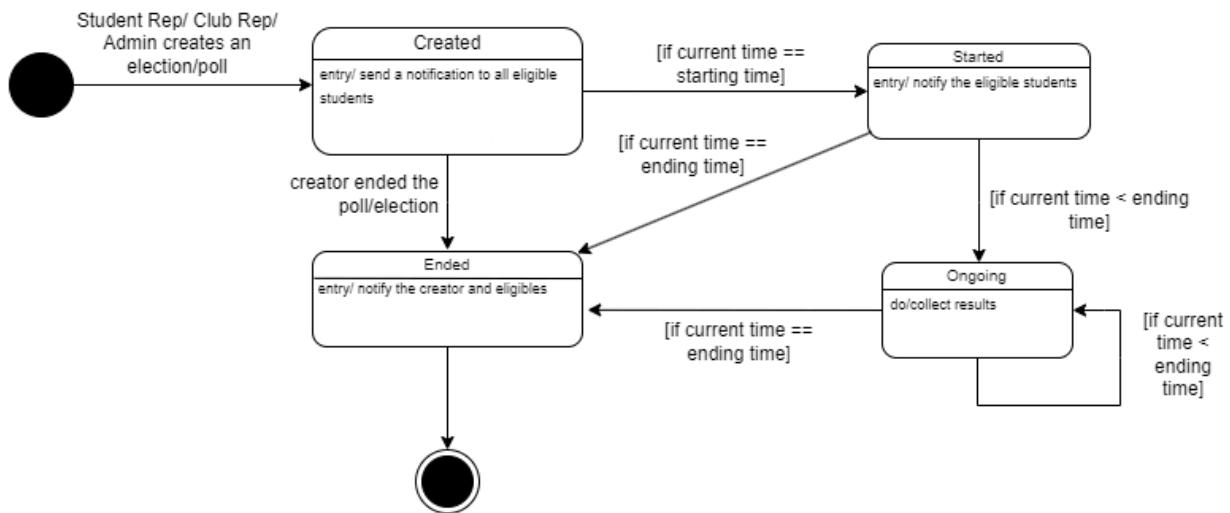
### 5.5.4 Student Request to be a club representative state transition diagram



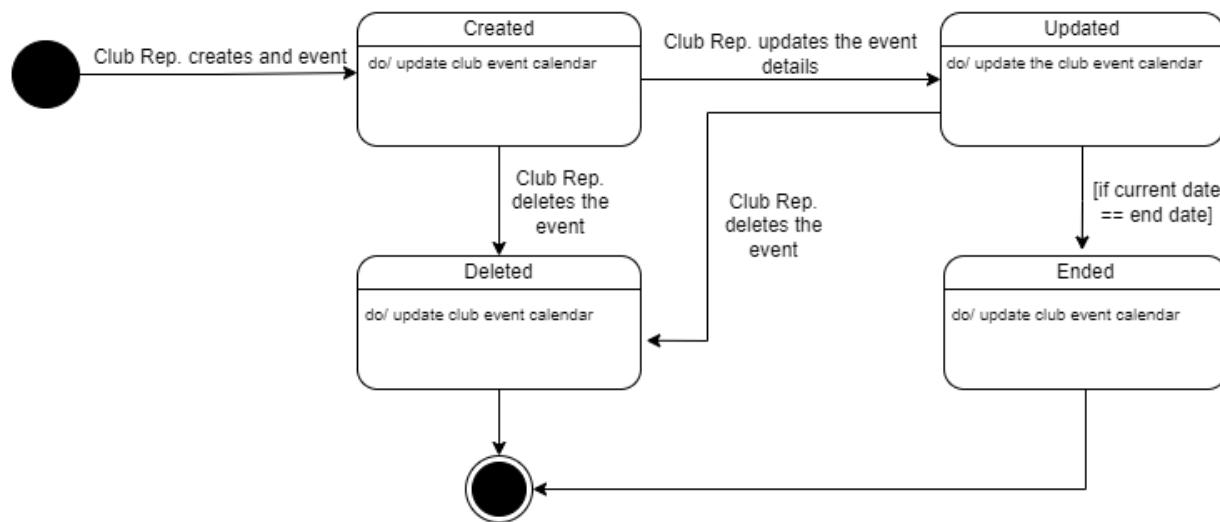
### 5.5.5 Student request to be a student representative state transition diagram



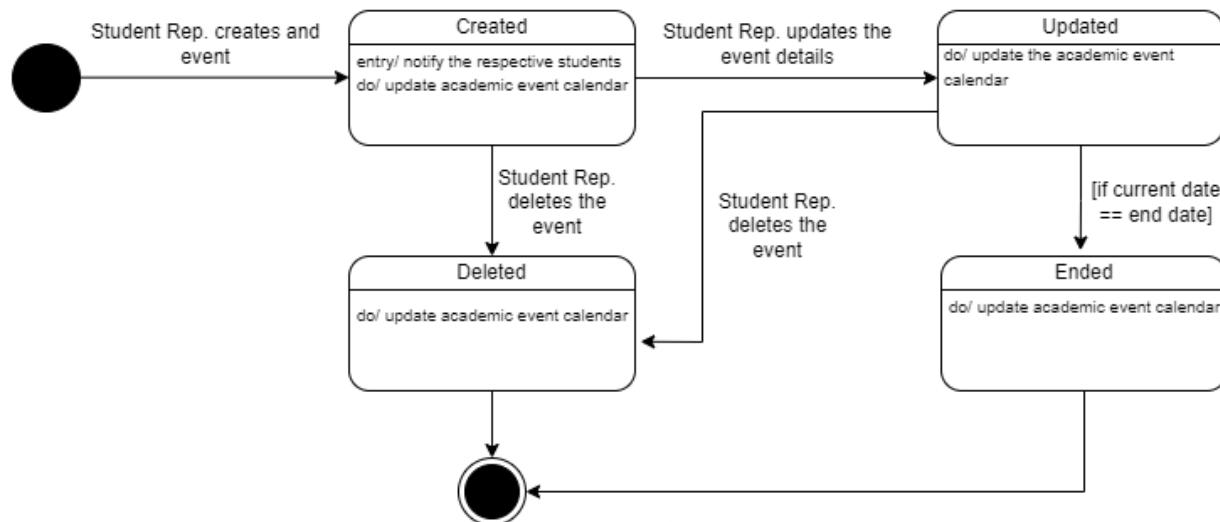
### 5.5.6 Election and Poll state transition diagram



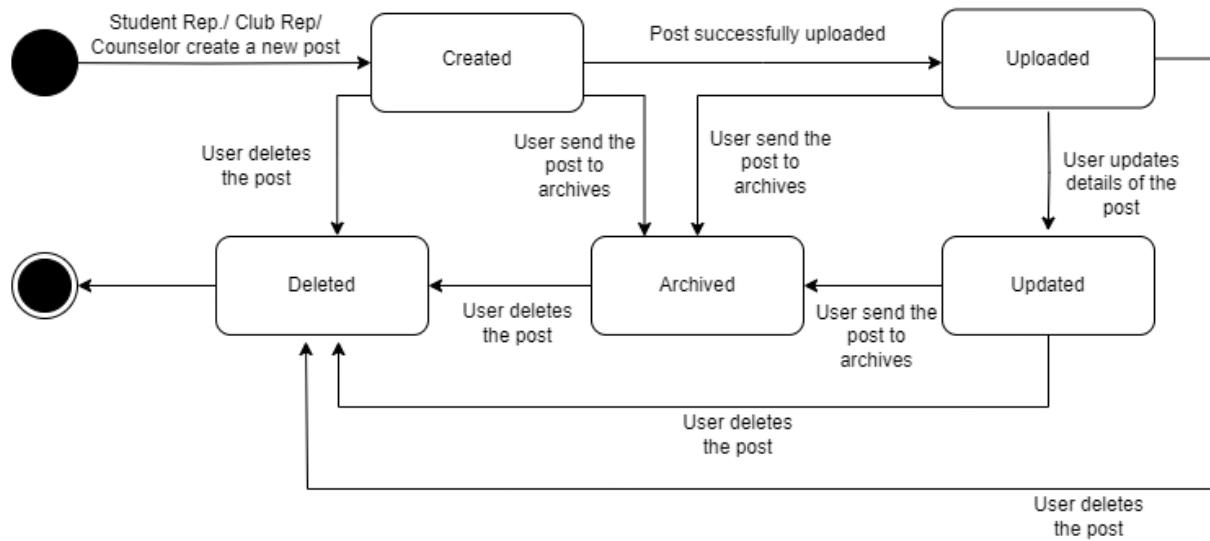
### 5.5.7 Club event state transition diagram



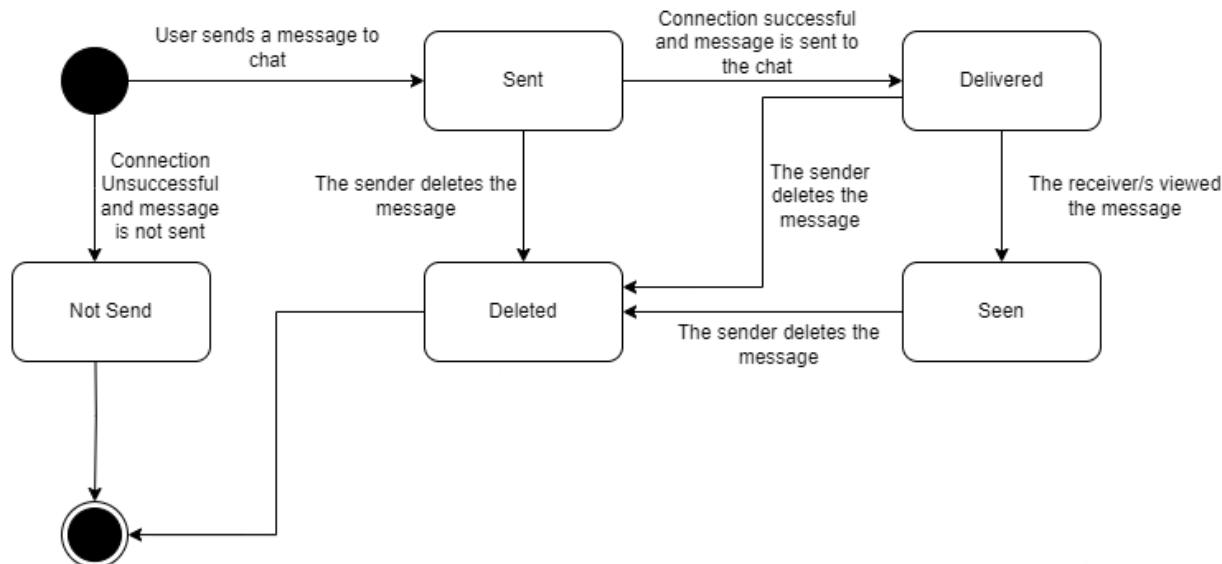
### 5.5.8 Exam or Assignment state transition diagram



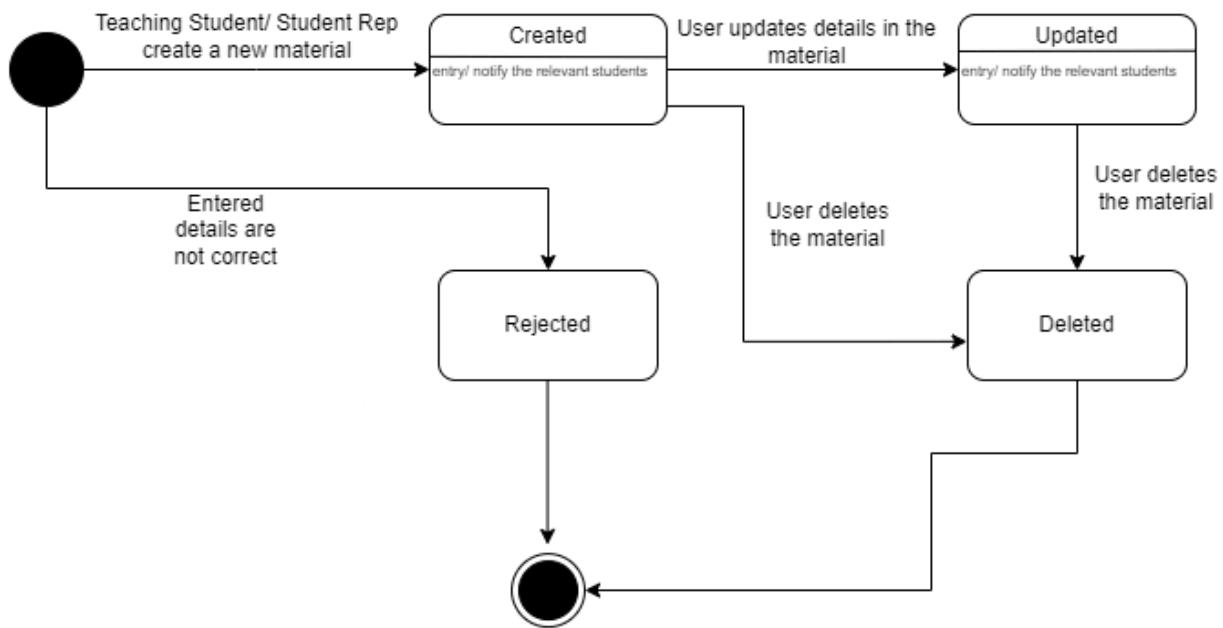
### 5.5.9 Public posts state transition diagram



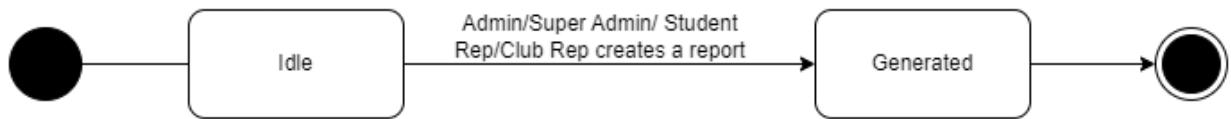
### 5.5.10 Shared messages in chat state transition diagram



#### 5.5.11 Shared materials(Short notes/Kuppi links/Reference links) state transition diagram



#### 5.5.12 Report state transition diagram

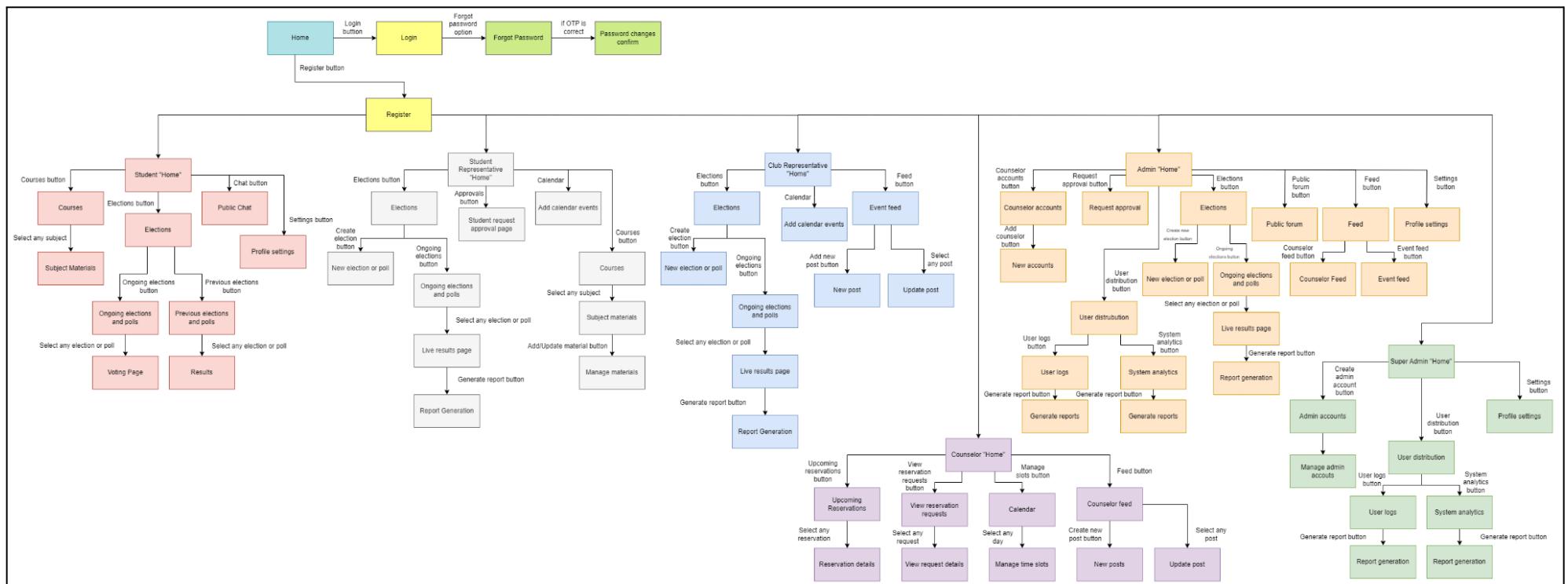


## 6. User Interface

### 6.1 Flow Diagram

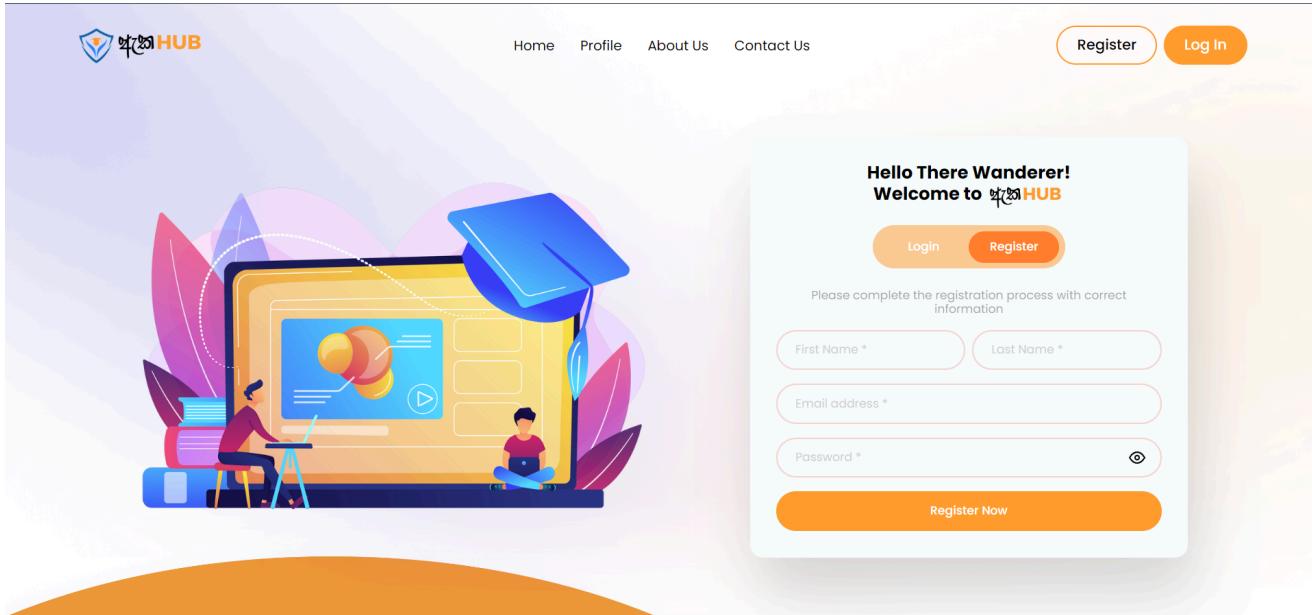
You can view the complete flow diagram using the following link :

[https://drive.google.com/file/d/15vbbpnL\\_jOxUyx9qdZxxYppanjnUzbYM/view?usp=sharing](https://drive.google.com/file/d/15vbbpnL_jOxUyx9qdZxxYppanjnUzbYM/view?usp=sharing)



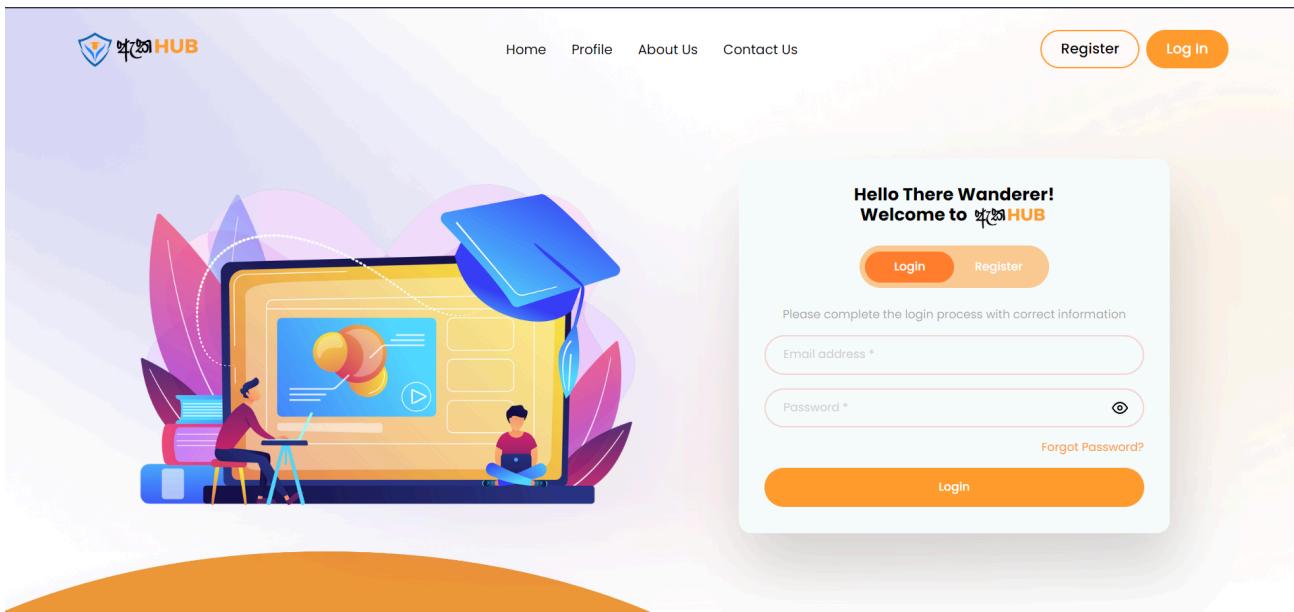
## 6.2 User Interfaces - Wire Frames

### User Registration



The registration page features a header with the logo and navigation links: Home, Profile, About Us, Contact Us, Register, and Log In. The main content area has a large background illustration of two people working on laptops with a graduation cap floating above them. A registration form is overlaid on the right, starting with a greeting "Hello There Wanderer! Welcome to පුද්ගලික HUB". It includes "Login" and "Register" buttons, a note about completing the process with correct information, and fields for First Name, Last Name, Email address, and Password. A "Register Now" button is at the bottom.

### User Login



The login page has a similar layout to the registration page, with the same header and background illustration. The registration form is replaced by a login form with fields for Email address and Password, and a "Forgot Password?" link. A "Login" button is at the bottom.

## Student - Dashboard

 Samudi Perera

[Dashboard](#)
[Courses](#)
[Chat](#)
[Elections](#)
[Settings](#)

Do you need counselor support?  
 Click [here](#) to talk with a counselor.

**Welcome Back Samudi !**

*The union election is ongoing.....*
X

**To Do List**

5
**Computer Networks**  
 Assignment 2  
Deadline : Tuesday, 10 June, 2023

12
**DSA III**  
 Assignment 3  
Deadline : Monday, 17 June, 2023

15
**SE III**  
 Take Home Assignment  
Deadline : Wednesday, 20 June, 2023

**Recent**

**Computer Networks**  
 Semester 1

**DSA III**  
 Semester 1

**SE III**  
 Semester 1

**Mathematical Methods**  
 Semester 1

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## Student - View Courses

 Samudi Perera

[Dashboard](#)
[Courses](#)
[Chat](#)
[Elections](#)
[Settings](#)

Do you need counselor support?  
 Click [here](#) to talk with a counselor.

Active Courses
Year 2
Semester 1

**Computer Networks**  
 Semester 1

**DSA III**  
 Semester 1

**SE III**  
 Semester 1

**Mathematical Methods**  
 Semester 1

**Scala Programming**  
 Semester 1

**RAD**  
 Semester 1

**PLC**  
 Semester 1

**Group Project I**  
 Semester 1

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## Student - View Materials of one subject

 Samudi Perera

[Dashboard](#)

[Courses](#)

[Chat](#)

[Elections](#)

[Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Computer Networks

#### Kuppi Video Links

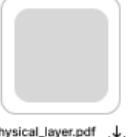
- 1. Physical Layer**
- <https://youtu.be/P1S5eZZRbwC> GD Date uploaded : 29th June 2023
- <https://youtu.be/P1S5eZZRbwC> GD Date uploaded : 3rd July 2023

- 2. Data Link Layer**
- <https://youtu.be/P1S5eZZRbwC> GD Date uploaded : 3rd July 2023
- <https://youtu.be/P1S5eZZRbwC> GD Date uploaded : 5th July 2023
- <https://youtu.be/P1S5eZZRbwC> GD Date uploaded : 10th July 2023

#### Reference Links

- <https://youtu.be/P1S5eZZRbwC> GD

#### Short Notes


  
physical\_layer.pdf [!\[\]\(b7ea6a0aeac4fc7e239f512ef6bbd656\_img.jpg\)](#)


  
DL\_layer.pdf [!\[\]\(30b58bd5350d8d826b7f9f2943555183\_img.jpg\)](#)


  
introduction.pdf [!\[\]\(c44391a3d488bfc5db83be0da560f8e6\_img.jpg\)](#)


  
2021paperans.pdf [!\[\]\(599e4e8afcf4e0c9c1380b046134f191\_img.jpg\)](#)


  
revision.pdf [!\[\]\(9af6cd3d7a177863e671265c24dd96db\_img.jpg\)](#)

Calendar						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
July 2023						
(Empty)						

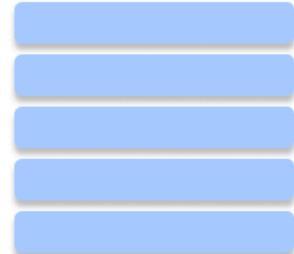
Events
Exams

#### Notifications

Placeholder for notifications
Placeholder for notifications
Placeholder for notifications
Placeholder for notifications
Placeholder for notifications

Calendar						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

### Notifications



## Student - Public Forum

 Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

Public Forum





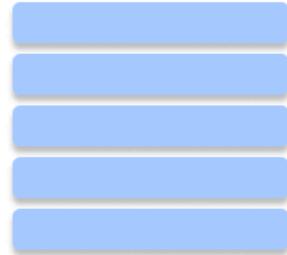


 Type a message..... 

Calendar						
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## Student - Election Dashboard

 Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

Ongoing Elections

The Election for the Union Selection 2024 is happening now....  
Election ends in : 1hr 30min 4sec

[VOTE NOW !!](#)

Previous Elections

IEEE Day date confirmation - Poll  
Poll ended : 5th July 2023

[View Results](#)

Student Representative Selection Year 1  
Election ended : 5th Aug 2022

[View Results](#)

Calendar						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

Events
Exams

 Notifications



## Student - Active Elections

 Samudi Perera

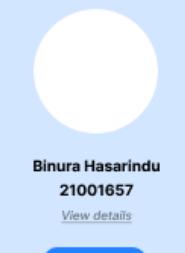
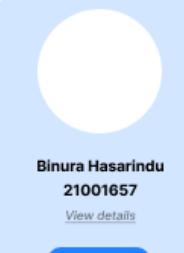
---

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

**University of Colombo School of Computing  
Student Union Selection  
2024**

*Election ends in : 1hr 30min 4sec*

**Candidates**

 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>	 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>	 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>
 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>	 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>	 Binura Hasarindu <b>21001657</b> <a href="#">View details</a>

**Positional Votes**

Select 3 for the Secretary Position

Binura Hasarindu  Binura Hasarindu  Binura Hasarindu  
 Binura Hasarindu  Binura Hasarindu  Binura Hasarindu

Select 3 for the Secretary Position

Binura Hasarindu  Binura Hasarindu  Binura Hasarindu  
 Binura Hasarindu  Binura Hasarindu  Binura Hasarindu

Select 3 for the Secretary Position

Binura Hasarindu  Binura Hasarindu  Binura Hasarindu  
 Binura Hasarindu  Binura Hasarindu  Binura Hasarindu

[Save My Votes](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

Calendar

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## Student - Profile Settings



Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Your Profile



[Change Picture](#)

Name	Samudi Perera
Email Address	2021cs123@ucsc.cmb.ac.lk
Degree	Computer Science
Index Number	21001234
Alternative Email	samudi@gmail.com

---

### Notification Settings

Preferred Email Address to receive Notifications:

<input type="checkbox"/> Onsite Notifications	<input type="checkbox"/> Emails	<input type="checkbox"/> None
<input type="checkbox"/> Onsite Notifications	<input type="checkbox"/> Emails	<input type="checkbox"/> None
<input type="button" value="2 weeks before"/>		
<input type="checkbox"/> Onsite Notifications	<input type="checkbox"/> Emails	<input type="checkbox"/> None
<input type="checkbox"/> Onsite Notifications	<input type="checkbox"/> Emails	<input type="checkbox"/> None

[Edit Profile](#)
[Change Password](#)

## Student - View Counselors



Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Counseling Services

Professional Counselor	Student Counselor	Student Counselor
 <b>Mr. Nimal Perera</b> <small>Lore ipsum jdhdjshdjhjdjshdjhds hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjhshdjhshdjhshdjhshdjh</small>	 <b>Mr. Kamal Perera</b> <small>Lore ipsum jdhdjshdjhjdjshdjhds hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjhshdjhshdjhshdjhshdjh</small>	 <b>Mr. Sumal Perera</b> <small>Lore ipsum jdhdjshdjhjdjshdjhds hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjhshdjhshdjhshdjhshdjh</small>
<a href="#">View Details</a>	<a href="#">View Details</a>	<a href="#">View Details</a>

## Student - View counselor availability



Samudi Perera

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- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Counseling Services

#### Published Articles

How to maintain stress      How to maintain stress

How to maintain stress      How to maintain stress

How to maintain stress      How to maintain stress

[View More](#)

**Dr. Nimal Perera**  
The Professional Counselor  
cgywqfbfgq wefqhfbwg ge  
gebguyufqe geqw gbeagxue

[Chat](#)

## Student - Make an appointment



Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Counseling Services

**Availability from 9.00 am to 5.00 pm**

9.00 - 10.00	10.00 - 11.00	11.00 - 12.00
1.00 - 2.00	2.00 - 3.00	3.00 - 4.00

[Book](#)
[Book](#)
[Book](#)
[Book](#)

**Availability**  
Please Select a date to view details

Mon	Tue	Wed	Thu	Fri	Sat	Sun

## Admin - Dashboard



Saliya Bandara

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- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

Welcome Back Saliya !

Total Users  
1200

Active Users  
1000

New Users  
200

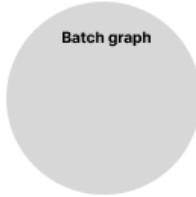
Activeness Graph



Counselor Engagement



Batch graph



Traffic Time Graph



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						July 2023

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Notifications

- 
- 
- 
- 
- 
-

## Admin - Approve student requests



Saliya Bandara

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- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

Approving Roles

Representatives to be approved

Name	Email	ID	Approve	Reject
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Binura	2021cs111stu.cmb.ac.lk	21001111	<input checked="" type="checkbox"/>	<input type="checkbox"/>

AdminPanel

## Admin - Create counselor accounts



Saliya Bandara

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- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

### Existing Counsellors

Professional Counselor	Student Counselor	Student Counselor
	img	img
<b>Mr. Nimal Perera</b>	<b>Mr. Kamal Perera</b>	<b>Mr. Sumal Perera</b>
Lorem ipsum jdhjdjshdjhdjshdjhdjs hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjshdjshdjhsdjshdj	Lorem ipsum jdhjdjshdjhdjshdjhdjs hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjshdjshdjhsdjshdj	Lorem ipsum jdhjdjshdjhdjshdjhdjs hdjsdjhsdjhsdjhsdjhs djhsdj sh djh sjd hsjdhjshdjshdjshdjhsdjshdj

[Add New Counselor](#)

[AdminPanel](#)

## Admin - Add new counselor



Saliya Bandara

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- [Approvals](#)
- [Counselor Accounts](#)
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- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

### Create Counselor Accounts

Browse Photo

Name	<input type="text"/>
Uni Mail	<input type="text"/>
Password	<input type="password"/>
Re Enter Password	<input type="password"/>
Alternative Email	<input type="text"/>
Counselor Type	<input type="text"/>
Gender	<input type="text"/>
Contact Number	<input type="text"/>

[Create Account](#)

[Current Counselors](#)

## Admin, Student Representative, Club Representative - Mange Elections and Polls

 Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

### Elections and Polls

[Create Elections](#)

[Generate Election Reports](#)

[Election Results](#)

[Create Polls](#)

[Generate Poll Reports](#)

[Poll Results](#)

**AdminPanel**

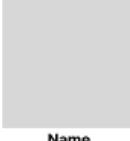
## Admin, Studen Representative, Club Representative - Create election

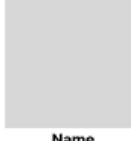
 Saliya Bandara

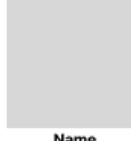
- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

### Create Elections

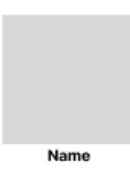
Title	Union Election
Deadline	Calendar
Eligible Voter Group	2nd Year
Election Type	Union Election

  
 Name  
 Binura

  
 Name  
 Viranga

  
 Name  
 Mushahid

  
 Name  
 Amir

  
 Name  
 Nipul

Create
Add Candidate

Union Election 2022
  
First year Student Rep

**Elections and Polls**

## Admin, Student Representative, Club Representative - Create Polls



Saliya Bandara

- Dashboard
- Approvals
- Counselor Accounts
- User Logs
- Academic Materials
- Elections / Polls
- Feeds
- Forum
- User Distribution
- Admin Accounts

**Create Polls**

Title	TOC Poll
Deadline	13 Sept 2023
Eligible Voter Group	Second/Third Year
Created Date and Time	9/9/2023   11.34
Question	
Question	
Question	
Question	

**Add Question**

**TOC Poll**

- UCSC Bhawana
- Assignment Extend
- Name for ReidCode
- What type of hacakthon you want?
- Who will attend to the event
- Freshers players and sports
- Join for Rekha Music Circle

**Elections and Polls**

## Admin, Student Representative, Club Representative - Generate election report



Saliya Bandara

- Dashboard
- Approvals
- Counselor Accounts
- User Logs
- Academic Materials
- Elections / Polls
- Feeds
- Forum
- User Distribution
- Admin Accounts

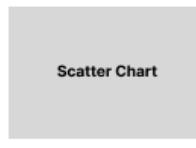
**Generate Election Report**



Pie Charts



Bar Chart



Scatter Chart



Donut Chart



Bar Chart

[generate PDF](#) [Download](#) [generate report](#) [print report](#)

**Union Election 2022**

**First year Student Rep**

**Elections and Polls**

## Admin, Student Representative, Club Representative - View election results



Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Accounts](#)

**Election Results**

**Union Election**  
University of Colomb School of Computing  
2nd Year  
Selected Candidates for positions

Binura 300 votes	Binura 300 votes	Binura 300 votes	Binura 300 votes
Binura 300 votes			

**Union Election**

**Union Election 2022**

**First year Student Rep**

**Elections and Polls**

## Admin - Mange Public Feeds



Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

**Feeds**

**Event Feed**

**Counselor Feed**

**AdminPanel**

## Admin, Club Representative, Counselor - Manage Respective Feeds

Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

**Club Event Feed**

[Home](#)
+
[New Post](#)

IEEE Day 2023

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam fringilla, nulla at varius feugiat, purus elit rhoncus dolor, ac fringilla lectus felis in eros. Ut id elit nec nisi efficitur gravida. Fusce auctor, velit id malesuada tincidunt, quam urna congue augue, vel gravida turpis metus sed quam

Kausar Uddin
21001987
9/10/2023
12:31 PM

IEEE Day 2023

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam

## Club Representative - Add event details to the calendar

Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

**Add Club Events to Calendar**

Event Title

Event Description

Event Location

University Club

Date

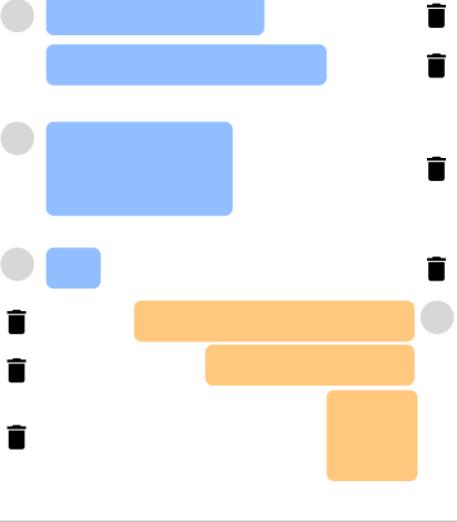
Time

Add Event To Calendar

## Admin, Student Representative - Mange Public Forum

 Saliya Bandara  
[Dashboard](#)  
[Approvals](#)  
[Counselor Accounts](#)  
[User Logs](#)  
[Academic Materials](#)  
[Elections / Polls](#)  
[Feeds](#)  
[Forum](#)  
[User Distribution](#)  
[Admin Account](#)

Public Forum



Delete
Delete
Delete
Delete

Events
Exams

**Calendar**

Mon	Tue	Wed	Thu	Fri	Sat	Sun
July 2023						

**Notifications**

Delete
Delete
Delete
Delete

## Admin - View user distribution stats

 Saliya Bandara  
[Dashboard](#)  
[Approvals](#)  
[Counselor Accounts](#)  
[User Logs](#)  
[Academic Materials](#)  
[Elections / Polls](#)  
[Feeds](#)  
[Forum](#)  
[User Distribution](#)  
[Admin Account](#)

**User distribution in the system**

Index Number	University Email	Registration Number	NIC
Binura	2021cs111stu.cmb.ac.lk	21001111	Student Rep
Binura	2021cs111stu.cmb.ac.lk	21001111	Club Rep
Binura	2021cs111stu.cmb.ac.lk	21001111	Student
Binura	2021cs111stu.cmb.ac.lk	21001111	Student Rep
Binura	2021cs111stu.cmb.ac.lk	21001111	Super Admin
Binura	2021cs111stu.cmb.ac.lk	21001111	Student
Binura	2021cs111stu.cmb.ac.lk	21001111	Student Rep
Binura	2021cs111stu.cmb.ac.lk	21001111	Club Rep
Binura	2021cs111stu.cmb.ac.lk	21001111	Admin

Find

AdminPanel

## Admin, Student Representative - Manage academic materials



Saliya Bandara

- [Dashboard](#)
- [Approvals](#)
- [Counselor Accounts](#)
- [User Logs](#)
- [Academic Materials](#)
- [Elections / Polls](#)
- [Feeds](#)
- [Forum](#)
- [User Distribution](#)
- [Admin Account](#)

### Manage Study Materials

[Add Materials](#)

ID	Type	Year	Subject	Content	Status	Action
01	Short Note	Y1 S1	DSA	dehuqfegd	Active	<a href="#">Edit</a>
02	Kuppi Link	Y1 S2	DSA	dehuqfegd	Archived	<a href="#">Edit</a>
03	Short Note	Y2 S2	DSA	dehuqfegd	Active	<a href="#">Edit</a>
04	Kuppi Link	Y4 S1	DSA	dehuqfegd	Updated	<a href="#">Edit</a>
05	Reference Link	Y3 S1	DSA	dehuqfegd	Active	<a href="#">Edit</a>
06	Reference Link	Y2 S1	DSA	dehuqfegd	Active	<a href="#">Edit</a>

Showing products 1 to 5 of 352

## Admin - Profile Settings



Samudi Perera

- [Dashboard](#)
- [Courses](#)
- [Chat](#)
- [Elections](#)
- [Settings](#)

Do you need counselor support?  
Click [here](#) to talk with a counselor.

### Your Profile



Name	Samudi Perera
Email Address	2021csl23@ucesc.cmb.ac.lk
Alternative Email	samudi@gmail.com
NIC	95487562V

[Change Picture](#) [Edit Profile](#) [Change Password](#)

## Super Admin - Dashboard

 Saliya Bandara

[Dashboard](#)
  
[Admin Accounts](#)

**Welcome Back Saliya !**

Total Users  
1200

Active Users  
1000

New Users  
200

Activeness Graph

Pie Chart

Batch graph

Traffic Time Graph

Calendar

Mon	Tue	Wed	Thu	Fri	Sat	Sun

Events   Counselor   Exams

Notifications

- 
- 
- 
- 
-

## Super Admin - Manage admin accounts

 Saliya Bandara

[Dashboard](#)
  
[Admin Accounts](#)

**Manage Admin Account**

**System Admin**

Browse Image

Email  
nimaljayasinghe@gmail.com

Password  
\*\*\*\*\*

Re Enter Password  
\*\*\*\*\*

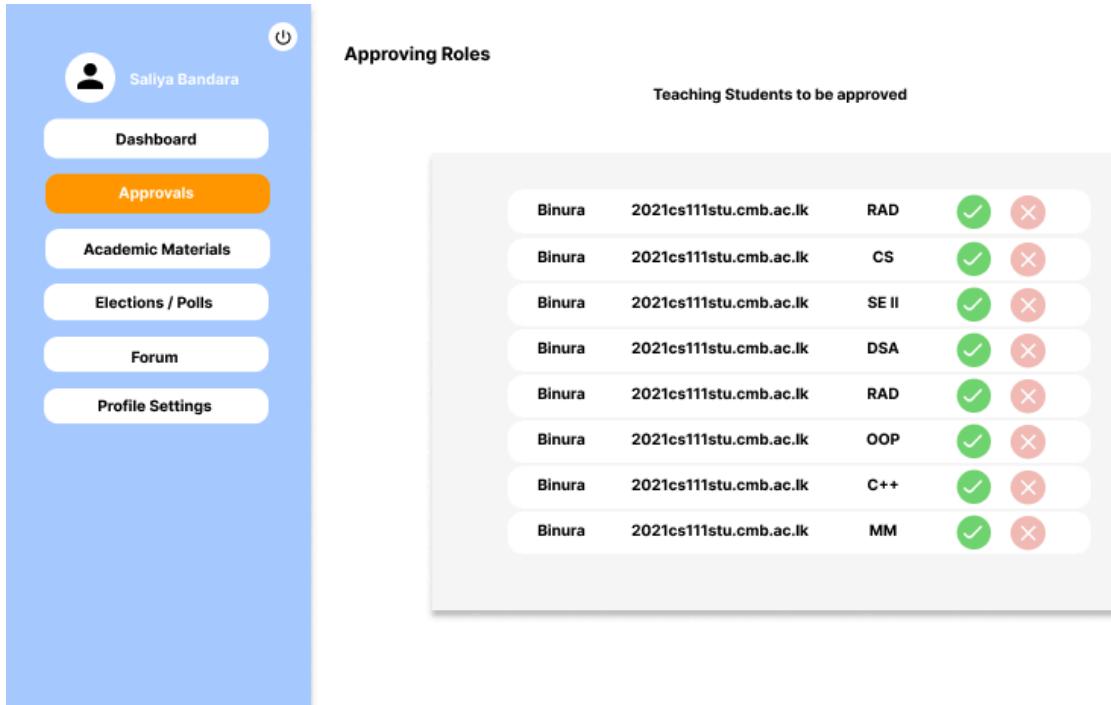
passwords doesn't match




AdminPanel

145

## Student Representative - Manage Student Requests



**Approving Roles**

Teaching Students to be approved

Student Name	Email Address	Role	Approve	Reject
Binura	2021cs111stu.cmb.ac.lk	RAD		
Binura	2021cs111stu.cmb.ac.lk	CS		
Binura	2021cs111stu.cmb.ac.lk	SE II		
Binura	2021cs111stu.cmb.ac.lk	DSA		
Binura	2021cs111stu.cmb.ac.lk	RAD		
Binura	2021cs111stu.cmb.ac.lk	OOP		
Binura	2021cs111stu.cmb.ac.lk	C++		
Binura	2021cs111stu.cmb.ac.lk	MM		

## Student Representative - Add exams and assignment dates to the calendar



**Add Academic Due Dates to Calendar**

Due Event Title

Module Name

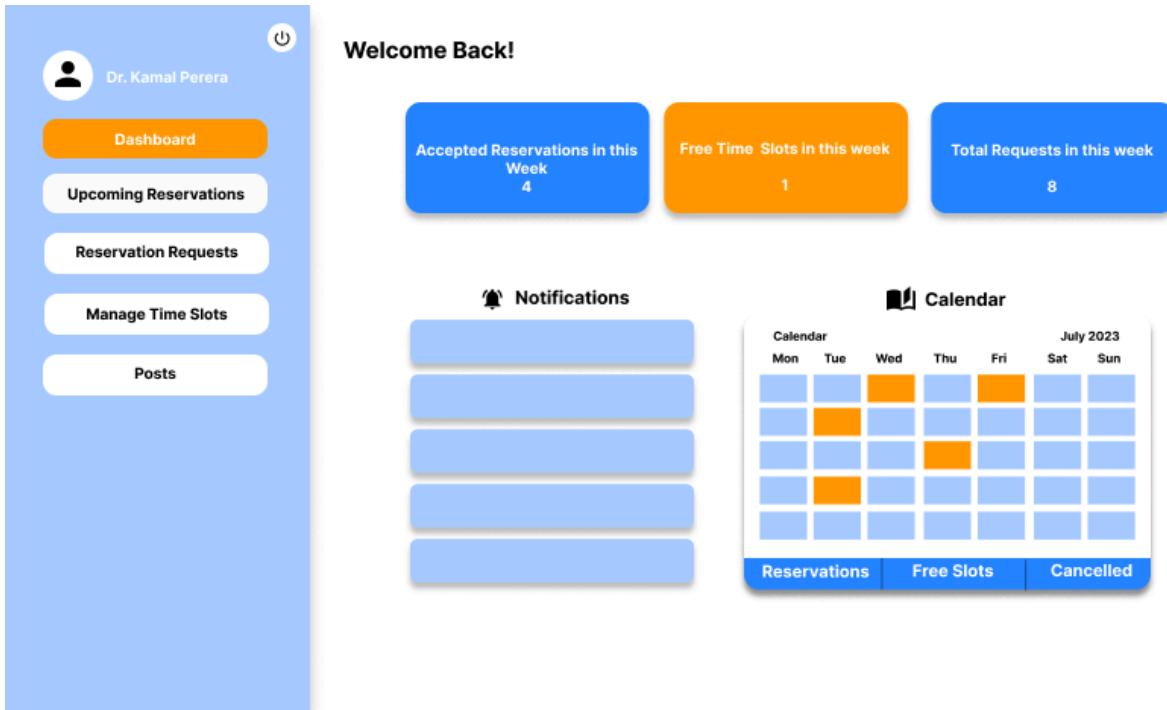
More Details on Event

Due Event Type  Due Date  Due Time

Targeted Batch  Targeted Degree

**Add Event To Calendar**

## Counselor - Dashboard



Welcome Back!

Accepted Reservations in this Week

4

Free Time Slots in this week

1

Total Requests in this week

8

**Notifications**

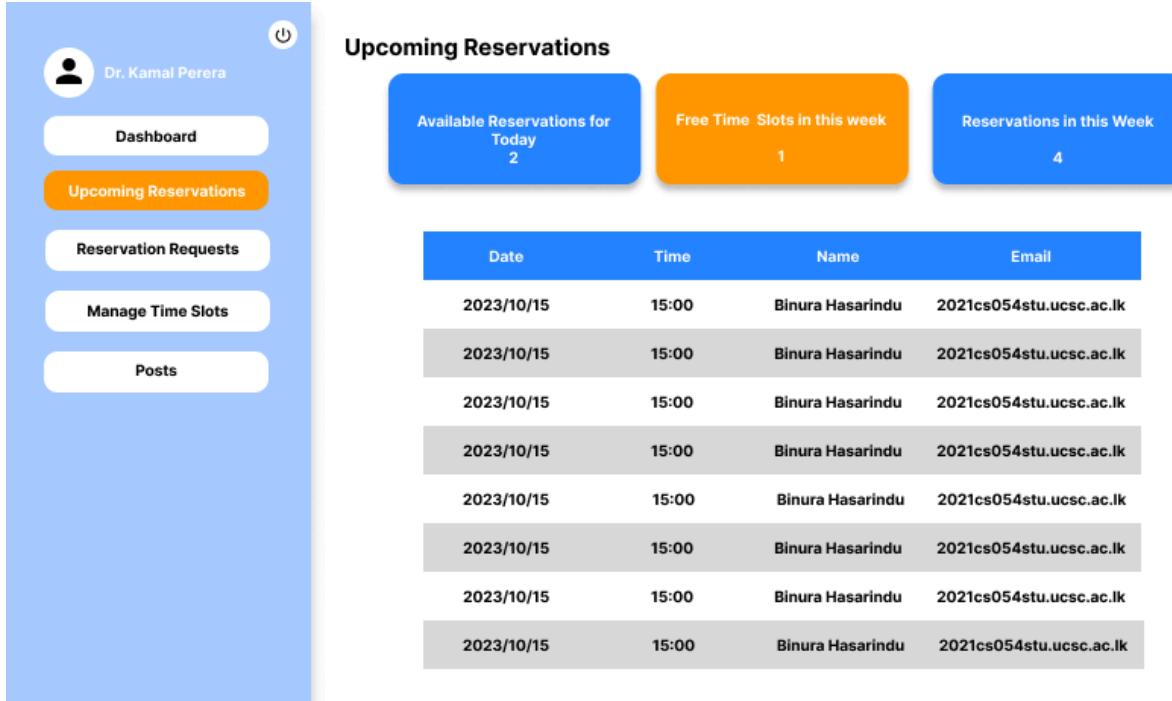
- 
- 
- 
- 
-

**Calendar**

July 2023						
Mon	Tue	Wed	Thu	Fri	Sat	Sun

Reservations      Free Slots      Cancelled

## Counselor - Manage Upcoming Reservations



Upcoming Reservations

Available Reservations for Today

2

Free Time Slots in this week

1

Reservations in this Week

4

Date	Time	Name	Email
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk
2023/10/15	15:00	Binura Hasarindu	2021cs054stu.ucsc.ac.lk

## Counselor - View reservation details

**Reservation Details**

**Student Name:**  
Binura Hasarinndu

**Email:**  
2021cs054stu.ucsc.ac.lk

**Reservation Date:**  
2023/10/15 Wednesday

**Reservation Time:**  
15:30

**Session Completed**

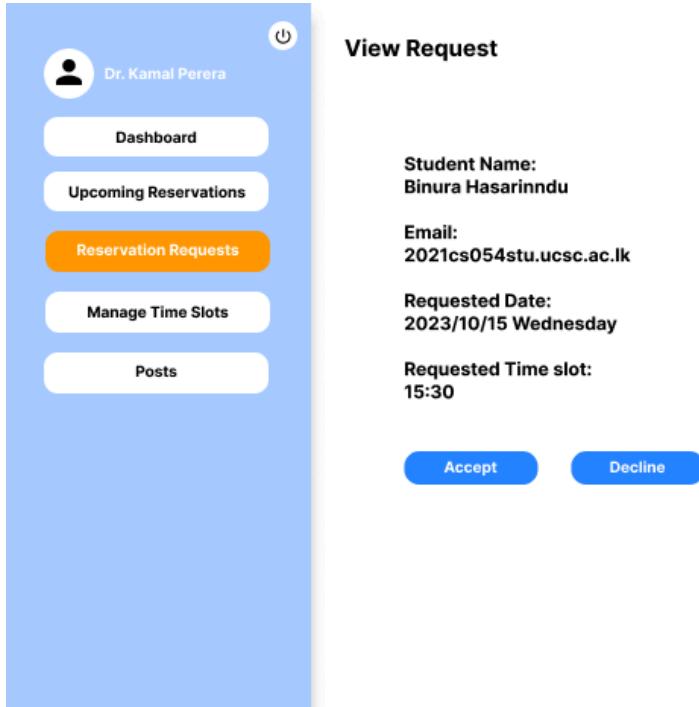
## Counselor - Manage Reservation Requests

**Reservation Requests**

Received Requests in this Week	Free Time Slots in this week	Accepted Reservations in this Week
6	2	2

**New Request**  
From Binura Hasarinndu [View](#)

## Counselor - View request details



**View Request**

**Student Name:**  
Binura Hasarinndu

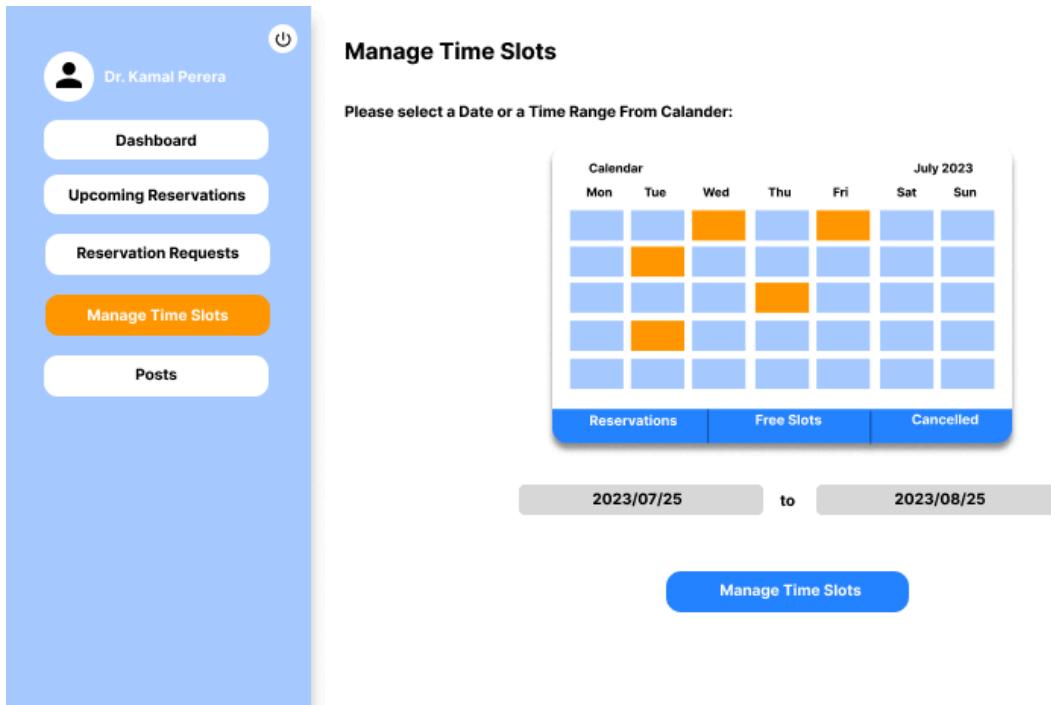
**Email:**  
2021cs054stu.ucsc.ac.lk

**Requested Date:**  
2023/10/15 Wednesday

**Requested Time slot:**  
15:30

**Accept**    **Decline**

## Counselor - Manage Time slots



**Manage Time Slots**

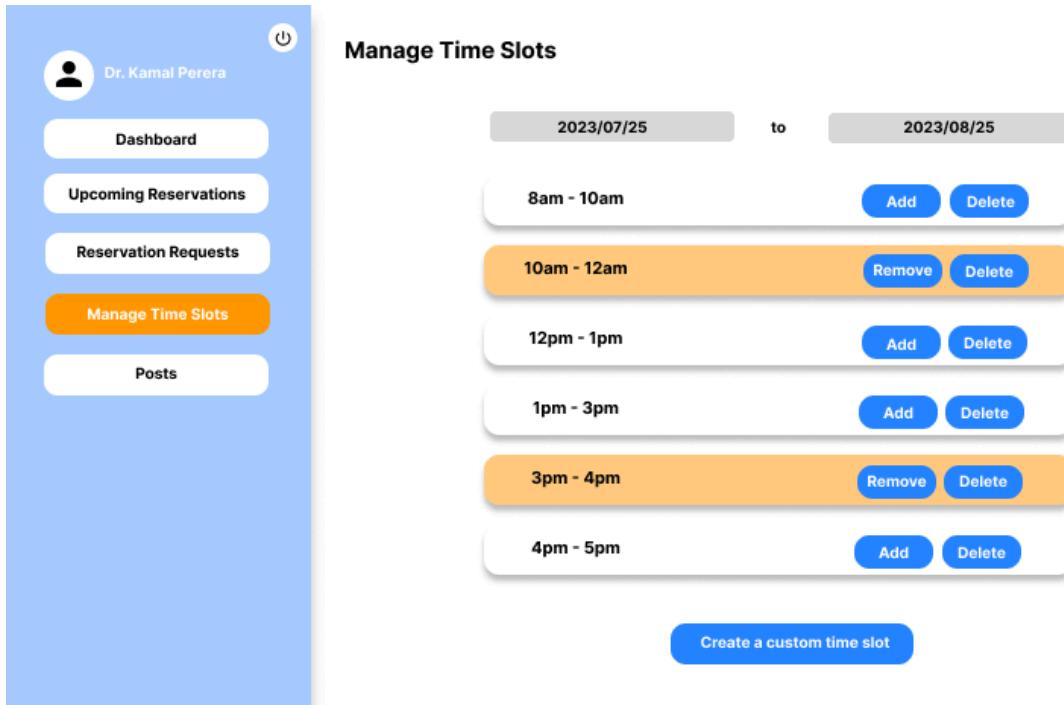
Please select a Date or a Time Range From Calander:

July 2023						
Mon	Tue	Wed	Thu	Fri	Sat	Sun
Reservations	Free Slots	Cancelled				

2023/07/25    to    2023/08/25

**Manage Time Slots**

### Counselor - Add new time slots

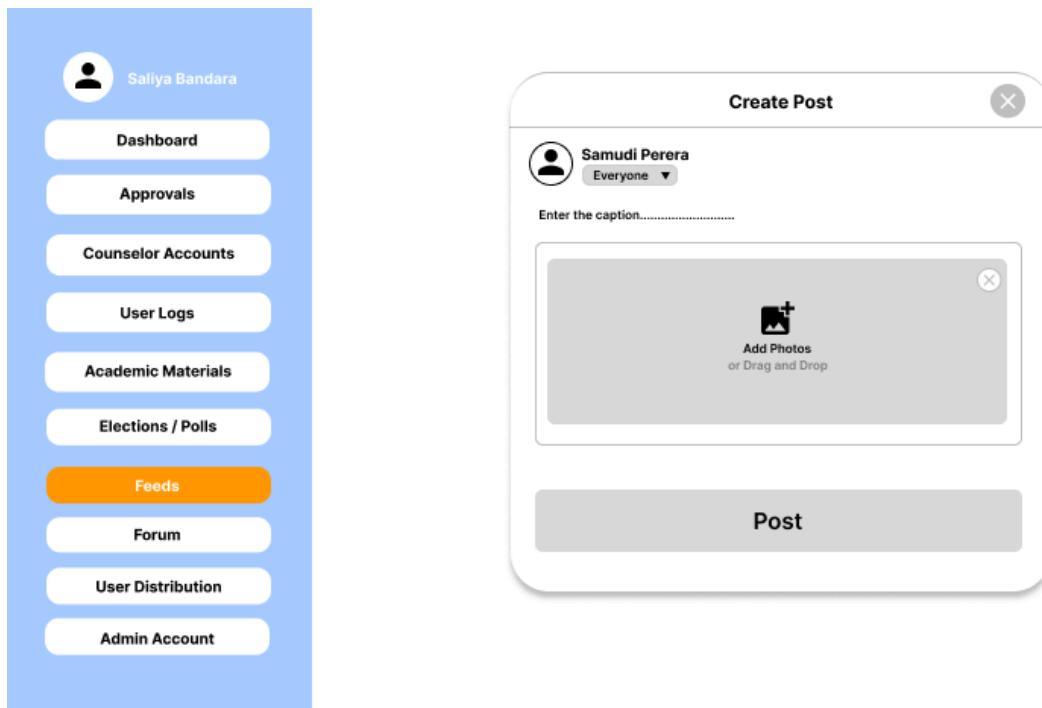


The screenshot shows the 'Manage Time Slots' section of the Counselor dashboard. On the left, a sidebar for Dr. Kamal Perera includes links for Dashboard, Upcoming Reservations, Reservation Requests, Manage Time Slots (which is highlighted in orange), and Posts. The main area displays a list of time slots from July 25 to August 25, 2023. Each slot has 'Add' and 'Delete' buttons. The 10am - 12am slot is highlighted in orange, while others are white. A 'Create a custom time slot' button is at the bottom.

Date Range	Add	Delete
2023/07/25 to 2023/08/25		
8am - 10am	Add	Delete
10am - 12am	Remove	Delete
12pm - 1pm	Add	Delete
1pm - 3pm	Add	Delete
3pm - 4pm	Remove	Delete
4pm - 5pm	Add	Delete

[Create a custom time slot](#)

### Counselor, Club Representative - Add new posts to feed



The screenshot shows the 'Create Post' dialog box. On the left, a sidebar for Sallya Bandara includes links for Dashboard, Approvals, Counselor Accounts, User Logs, Academic Materials, Elections / Polls, Feeds (which is highlighted in orange), Forum, User Distribution, and Admin Account. The 'Create Post' dialog shows a placeholder for Samudi Perera with 'Everyone' selected. It has fields for 'Enter the caption...' and a 'Add Photos or Drag and Drop' area. A large 'Post' button is at the bottom.

Samudi Perera  
Everyone ▾

Enter the caption.....

Add Photos  
or Drag and Drop

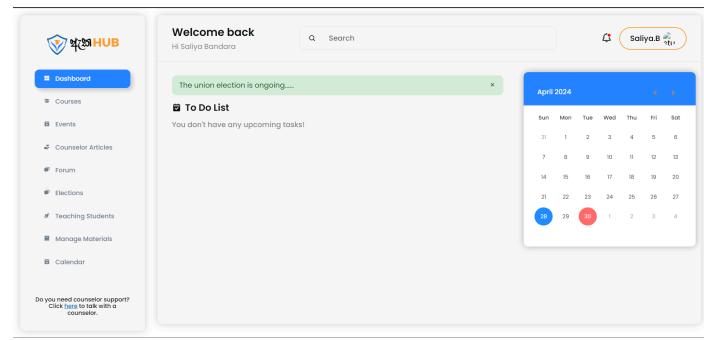
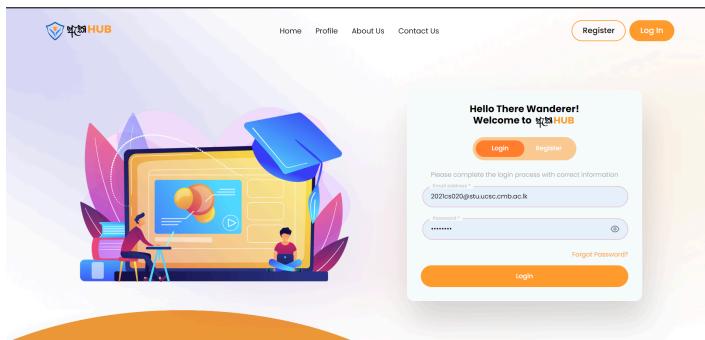
**Post**

# 7. Test Cases

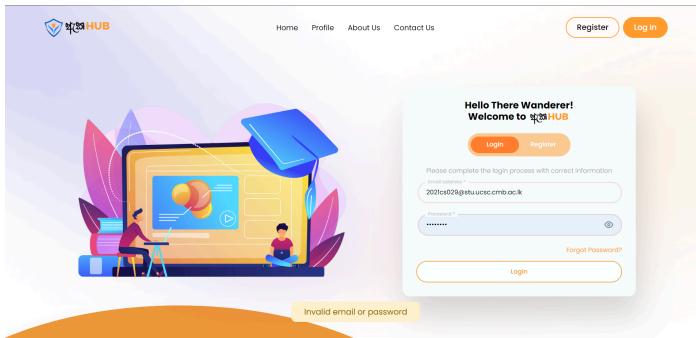
## 7.1 Login Page

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
1	Login Scenario with Valid User.	1	අශ්‍රක HUB auth page is loaded	Enter registered mail , and its correct password	It successfully signing in to relevant dashboard due to role	It sign in to dashboard	pass
	Login Scenario with an Invalid User	2	අශ්‍රක HUB auth page is loaded	Enter not registered mail, and a random password	It display an alert “Invalid Email or Password”	It display alert “Invalid Email or Password”	pass
	Login Scenario with an Invalid input to mail	3	අශ්‍රක HUB auth page is loaded	Enter random text to mail, and a random password	It displays please include email address with @ sign	It displays please include email address with @ sign	pass
	Login Scenario with a Valid User and Invalid Password	4	අශ්‍රක HUB auth page is loaded	Enter pre registered mail and wrong password	It displays an “invalid email or password”	It displays an “invalid email or password”	pass

### Test Case 1.1

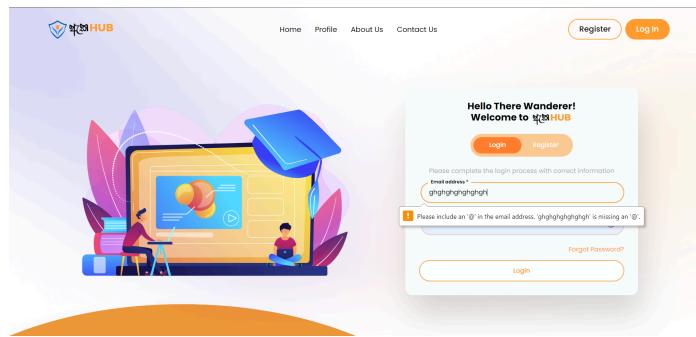


### Test Case 1.2



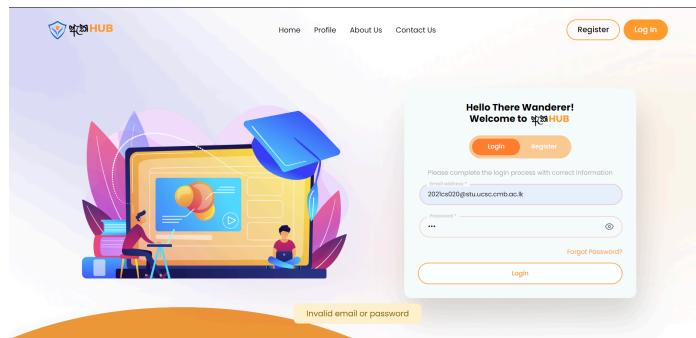
The screenshot shows the login page of the පැන්තු HUB website. The user has entered an invalid email address ('2021cd02@etu.ucsc.cmb.ac.lk') and a password. A yellow error message box at the bottom left of the login form states 'Invalid email or password'.

### Test Case 1.3



The screenshot shows the login page of the පැන්තු HUB website. The user has entered an invalid email address ('ghghghghghghgh') and a password. A yellow error message box at the bottom left of the login form states 'Please include an '@' in the email address. 'ghghghghghghgh' is missing an '@'.'.

### Test Case 1.4



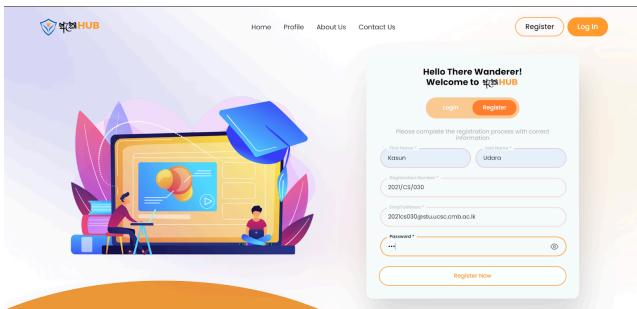
The screenshot shows the login page of the පැන්තු HUB website. The user has entered an invalid email address ('2021cd02@etu.ucsc.cmb.ac.lk') and a password. A yellow error message box at the bottom left of the login form states 'Invalid email or password'.

## 7.2 Register Page

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
2	Register Scenario with valid reg	1	පැන්තු HUB auth page is loaded	Enter first name , last name,	Successfully registers and	Successfully registers and	pass

	number and its uni email.			registration number, uni mail, and password	navigated to the student dashboard	navigated to the student dashboard	
	Register Scenario with valid reg number and other email.	2	අැක HUB auth page is loaded	Enter first name , last name, registration number, password and other invalid mail	Alerts “Email and Student ID not Matching”	Alerts “Email and Student ID not Matching”	pass
	Register Scenario with invalid reg number and valid uni email.	3	අැක HUB auth page is loaded	Enter first name , last name, invalid registration number, password and other uni mail	Alerts “Email and Student ID not Matching”	Alerts “Email and Student ID not Matching”	pass
	Register Scenario with invalid reg number and invalid uni email.	4	අැක HUB auth page is loaded	Enter first name , last name, registration number, password and other invalid mail	Alerts “Please Enter a valid university mail”	Alerts “Please Enter a valid university mail”	pass
	Register Scenario with empty fields	5	අැක HUB auth page is loaded	Enter one or more empty fields.	Alerts “Please Enter All the input fields”	Alerts “Please Enter All the input fields”	pass
	Register Scenario with pre-registered uni email.	6	අැක HUB auth page is loaded	Enter first name , last name, registration number, password and email already registered	Alerts “Email Already Exists”	Alerts “Email Already Exists”	pass

### Test Case 2.1

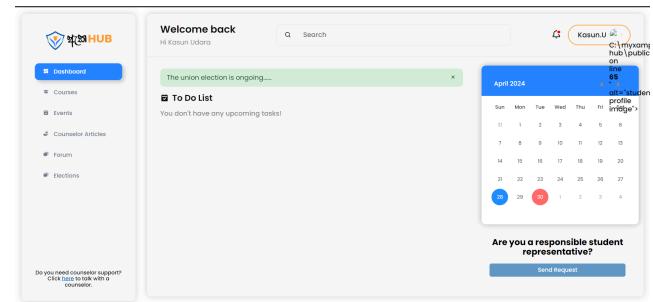


Home Profile About Us Contact Us Register Log In

Hello There Wanderer! Welcome to KosunU HUB

Please complete the registration process with correct information

First Name: Kosun Last Name: Udara  
 Registration Number: 2021/CS/030  
 Email: 2021/v030@stu.usc.cmb.ac.lk  
 Password: ...  
 Register Now



Welcome back  
Hi Kosun Udara

Search

The union election is ongoing...  
To Do List

You don't have any upcoming tasks!

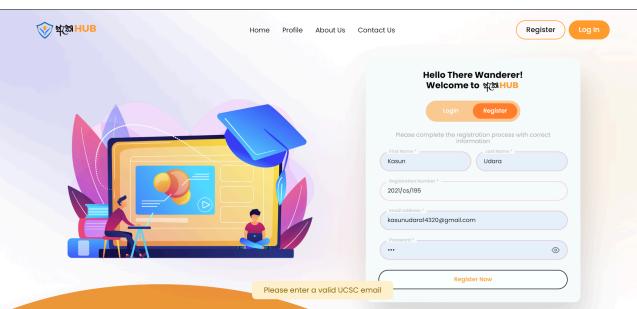
Do you need counselor support? Click here to talk with a counselor

April 2024

31	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	1	2	3	4

Are you a responsible student representative?  
Send Request

### Test Case 2.2



Home Profile About Us Contact Us Register Log In

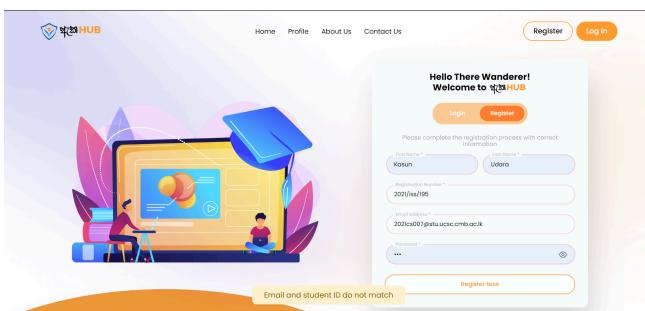
Hello There Wanderer! Welcome to KosunU HUB

Please complete the registration process with correct information

First Name: Kosun Last Name: Udara  
 Registration Number: 2021/CS/030  
 Email: kosunudara432@gmail.com  
 Password: ...  
 Register Now

Please enter a valid UCSC email

### Test Case 2.3



Home Profile About Us Contact Us Register Log In

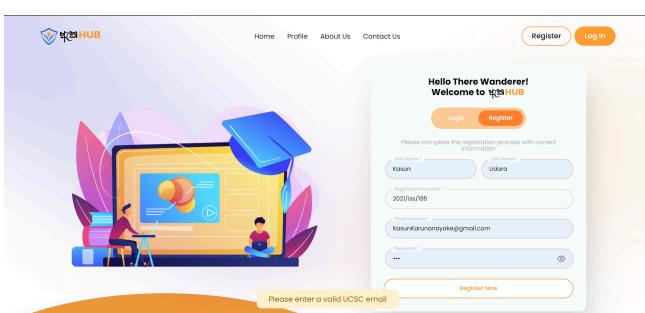
Hello There Wanderer! Welcome to KosunU HUB

Please complete the registration process with correct information

First Name: Kosun Last Name: Udara  
 Registration Number: 2021/CS/030  
 Email: 2021/v030@stu.usc.cmb.ac.lk  
 Password: ...  
 Register Now

Email and student ID do not match

### Test Case 2.4



Home Profile About Us Contact Us Register Log In

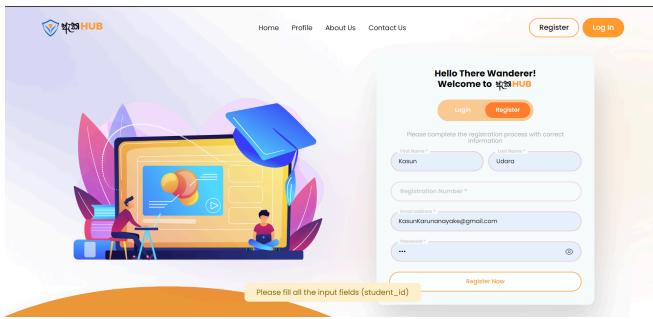
Hello There Wanderer! Welcome to KosunU HUB

Please complete the registration process with correct information

First Name: Kosun Last Name: Udara  
 Registration Number: 2021/CS/030  
 Email: Kosunkurunayake@gmail.com  
 Password: ...  
 Register Now

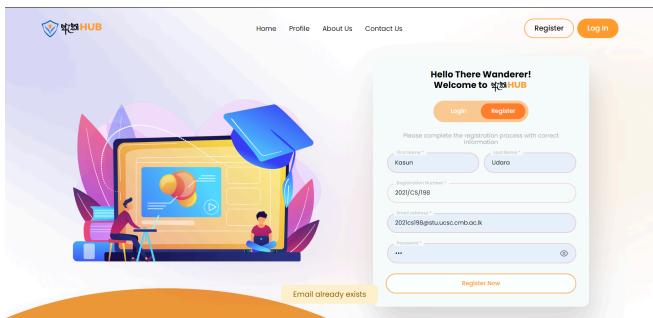
Please enter a valid UCSC email

### Test Case 2.5



The screenshot shows the registration form for "ජ්‍යෙෂ්ඨ HUB". The form includes fields for First Name, Last Name, Registration Number, Email Address, and Password. A validation message at the bottom states: "Please fill all the input fields (student\_id)".

### Test Case 2.6



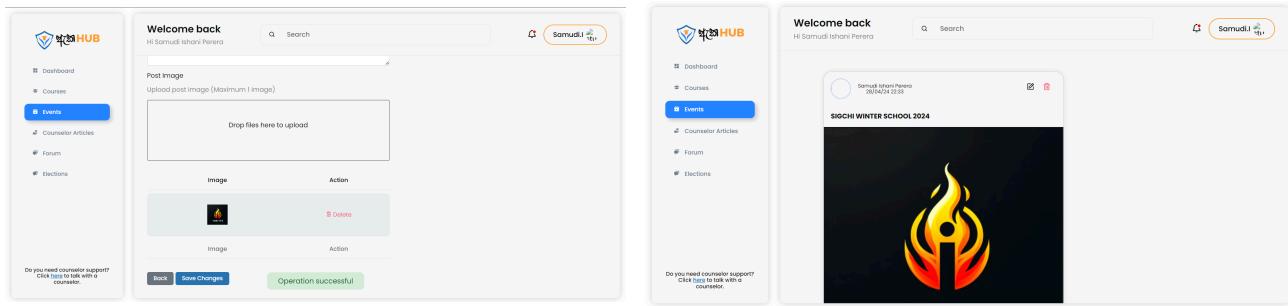
The screenshot shows the registration form for "ජ්‍යෙෂ්ඨ HUB". The form includes fields for First Name, Last Name, Registration Number, Email Address, and Password. A validation message at the bottom states: "Email already exists".

## 7.3 and 7.4 Creating and Editing Posts in Event Feed

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
3	Club Representative posts a post on his club in Event Feed successfully	1	Should be logged in as the club rep for his club. Should be navigated to Create Post page	Should complete Post Title, Description, and select post Image and click save changes.	Display "Operation successful" in alert.	Display "Operation successful" in alert.	pass
	Club Rep insert Post Title , Description but no post	2	Should be logged in as the club rep for his club.	Complete Post Title , Description. But no post	Display "Something Went Wrong" in alert	Display "Something Went Wrong" in alert	pass

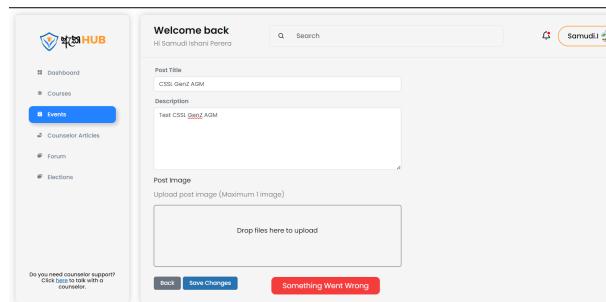
	image.		Should be navigated to Create Post page	image is selected			
	Club Rep insert Post Title , Description, post image with empty fields	3	Should be logged in as the club rep for his club.  Should be navigated to Create Post page	Press save changes with empty fields in form.	Display "Somethin g Went Wrong" in alert	Display "Something Went Wrong" in alert	pass
4	Admin or Club Representative edits a post on his club which is created by himself in Event Feed successfully	1	Should be logged in as the club rep for his club.  Should be navigated to Create Post page	Complete Post Title, Description, and select post Image and click save changes.	Display "Operation successful " in alert.	Display "Operation successful" in alert.	pass
	Admin or Club Representative edits a post on his club which is created by himself in Event Feed and leave post image empty.	2	Should be logged in as the club rep for his club.  Should be navigated to Create Post page	Complete Post Title, Description, and leave post Image empty and click save changes.	Display "Somethin g Went Wrong" in alert	Display "Something Went Wrong" in alert	pass
	Admin or Club Representative edits a post on his club which is created by himself in Event Feed but leave empty fields.	3	Should be logged in as the club rep for his club.  Should be navigated to Create Post page	Edit Post title, description or post image empty and click save changes.	Display "Somethin g Went Wrong" in alert	Display "Something Went Wrong" in alert	pass

### Test Case 3.1



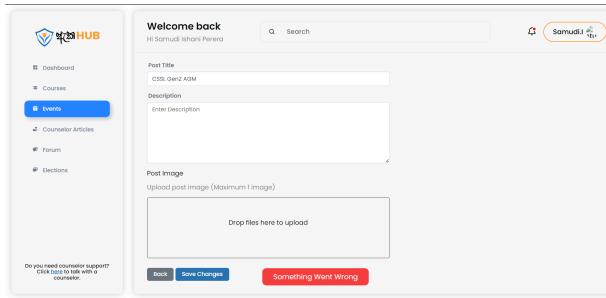
The screenshot shows the 'Events' section of the Sinhala HUB platform. A user has uploaded a file named 'Image' (which contains a small flame icon) and selected the 'Delete' action for it. A success message 'Operation successful' is displayed at the bottom.

### Test Case 3.2



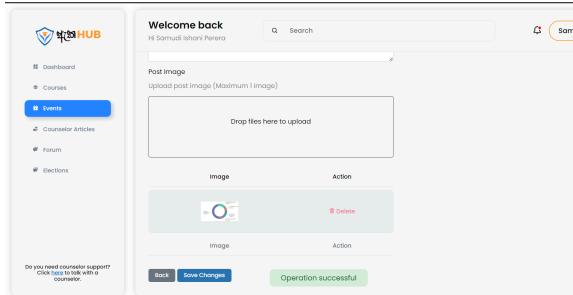
The screenshot shows the 'Events' section. A user has entered 'CSSI GenZ AGM' as the post title and 'Test CSSI GenZ AGM' as the description. They have also uploaded a file named 'Post Image' (containing a black background with a yellow flame icon). An error message 'Something Went Wrong' is displayed at the bottom right.

### Test Case 3.3



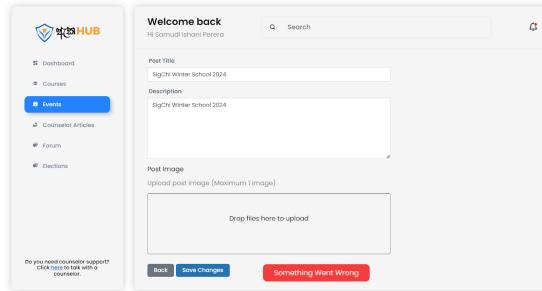
The screenshot shows the 'Events' section. A user has entered 'CSSI GenZ AGM' as the post title and 'Enter Description' as the description. They have also uploaded a file named 'Post Image' (containing a black background with a yellow flame icon). An error message 'Something Went Wrong' is displayed at the bottom right.

### Test Case 4.1



The screenshot shows the 'Events' section of the Sinhala HUB platform. A user has uploaded a file named 'Image' (containing a small circular icon) and selected the 'Delete' action for it. A success message 'Operation successful' is displayed at the bottom.

### Test Case 4.2



Post Title: SigChi Winter School 2024

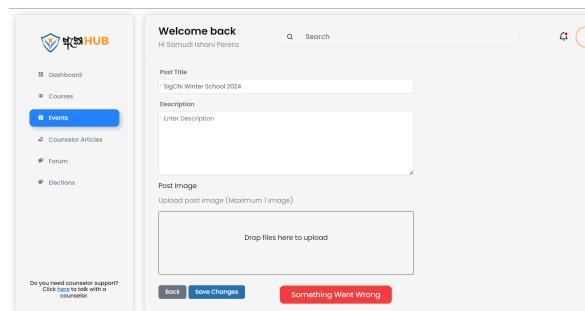
Description: SigChi Winter School 2024

Post Image: Upload post image (Maximum 1 image)

Drop files here to upload

Back Save Changes Something Went Wrong

### Test Case 4.3



Post Title: SigChi Winter School 2024

Description: Enter Description

Post Image: Upload post image (Maximum 1 image)

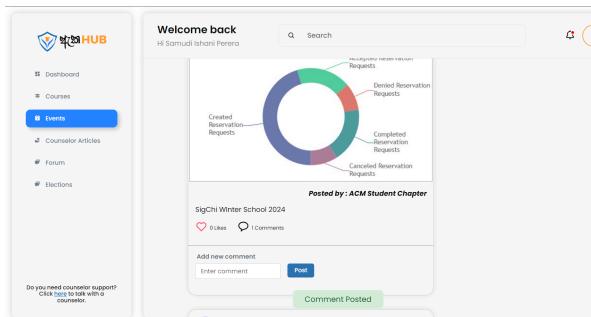
Drop files here to upload

Back Save Changes Something Went Wrong

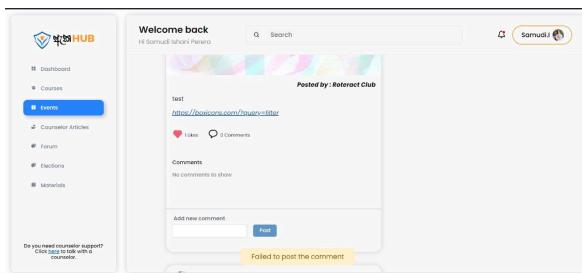
## 7.5 Inserting Comments for Posts in Event Feed and Counselor Feed

Sce nari o TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
5	User put comments on posts created by clubrep or counselor and press post button	1	User should be in event feed or counselor feed and should chose a post.	User types a comment in a post and click post button.	Displays an alert for "Comment Posted"	Displays an alert for "Comment Posted"	pass
	User put comments on posts created by clubrep or counselor and press post button	2	User should be in event feed or counselor feed and should chose a post.	User keep comment input empty and press post button.	Displays an alert for "Failed to post a comment"	Displays an alert for "Failed to post a comment"	pass

### Test Case 5.1



### Test Case 5.1

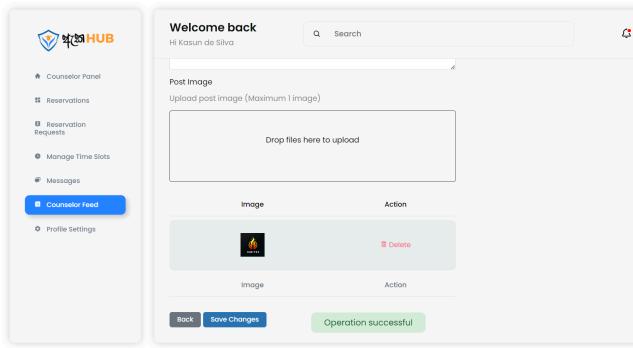


## 7.6 and 7.7 Creating and Editing Posts in Counselor Feed

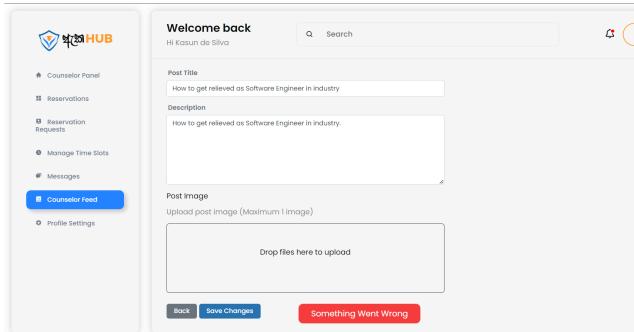
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
6	Counselor posts a post on Counselor Feed successfully	1	Should be logged in as the counselor. Should be navigated to Create Post page	Should complete Post Title, Description , and select post Image and click save changes.	Display “Operation successful” in alert.	Display “Operation successful” in alert.	pass
	Counselor inserts Post Title , Description but no post image.	2	Should be logged in as the counselor. Should be navigated to Create Post page	Complete Post Title , Description . But no post image is selected	Display “Something Went Wrong” in alert	Display “Something Went Wrong” in alert	pass

	Counselor insert Post Title , Description, post image with empty fields	3	Should be logged in as the counselor. Should be navigated to Create Post page	Press save changes with empty fields in form.	Display "Something Went Wrong" in alert	Display "Something Went Wrong" in alert	pass
7	Admin or Counselor which is created by himself in Counselor successfully	1	Should be logged in as the counselor. Should be navigated to Create Post page	Complete Post Title, Description , and select post Image and click save changes.	Display "Operation successful" in alert.	Display "Operation successful" in alert.	pass
	Admin or Counselor edits a post on Counsellor Feed and leaves post image empty.	2	Should be logged in as the counselor. Should be navigated to Create Post page	Complete Post Title, Description , and leave post Image empty and click save changes.	Display "Something Went Wrong" in alert	Display "Something Went Wrong" in alert	pass
	Admin or Counselor edits a post on Counselor Feed but leaves empty fields.	3	Should be logged in as the counselor. Should be navigated to Create Post page	Edit Post title, description or post image empty and click save changes.	Display "Something Went Wrong" in alert	Display "Something Went Wrong" in alert	pass

### Test Case 6.1



### Test Case 6.2



Welcome back  
Hi Kasun de Silva

Post Title  
How to get relieved as Software Engineer in Industry

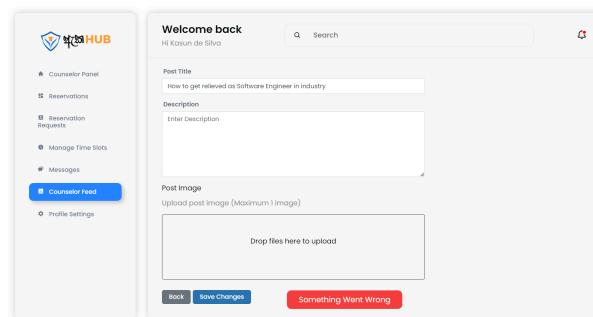
Description  
How to get relieved as Software Engineer in Industry

Post Image  
Upload post image (Maximum 1 image)

Drop files here to upload

Back Save Changes Something Went Wrong

### Test Case 6.3



Welcome back  
Hi Kasun de Silva

Post Title  
How to get relieved as Software Engineer in Industry

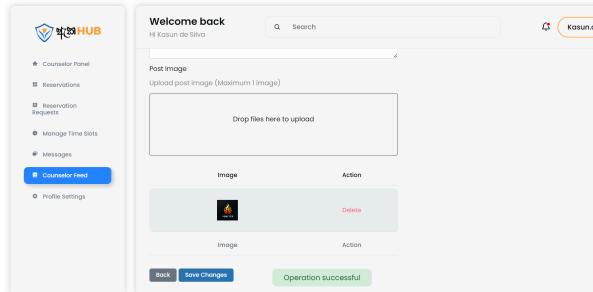
Description  
Enter Description

Post Image  
Upload post image (Maximum 1 image)

Drop files here to upload

Back Save Changes Something Went Wrong

### Test Case 7.1



Welcome back  
Hi Kasun de Silva

Post Title  
How to get relieved as Software Engineer in Industry

Description  
How to get relieved as Software Engineer in Industry

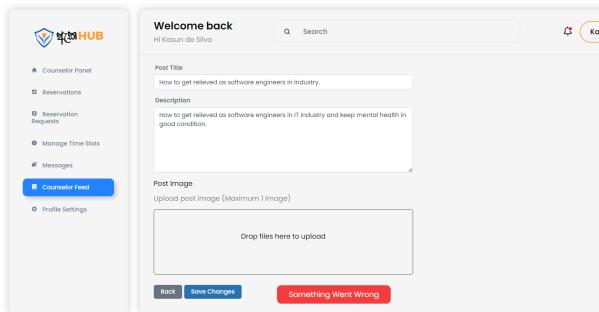
Post Image  
Upload post image (Maximum 1 image)

Drop files here to upload

Image	Action
	Delete

Back Save Changes Operation successful

### Test Case 7.2



Welcome back  
Hi Kasun de Silva

Post Title  
How to get relieved as software engineers in industry.

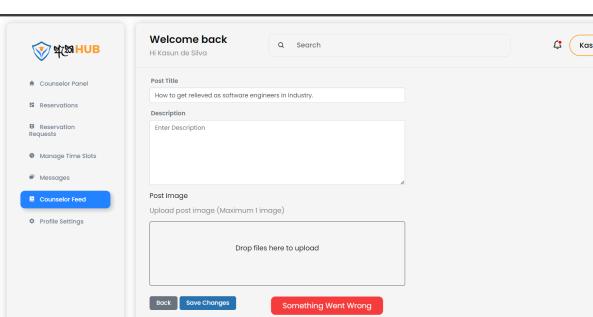
Description  
How to get relieved as software engineers in IT industry and keep mental health in good condition.

Post Image  
Upload post image (Maximum 1 image)

Drop files here to upload

Back Save Changes Something Went Wrong

### Test Case 7.3



Welcome back  
Hi Kasun de Silva

Post Title  
How to get relieved as software engineers in industry.

Description  
Enter Description

Post Image  
Upload post image (Maximum 1 image)

Drop files here to upload

Back Save Changes Something Went Wrong

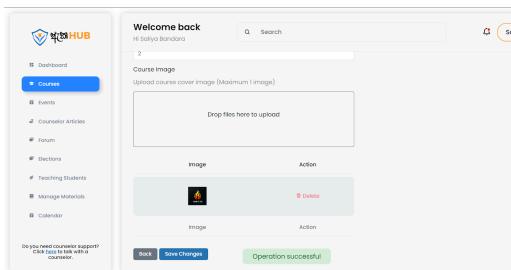
## 7.8 and 7.9 Creating or Editing New Courses

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
8	Teaching Student or Student Rep complete the form and press save changes	1	Teaching student or student rep should be in create course page	Should input valid data and select course image and press save changes	Displays alert "Operation Successful"	Displays alert "Operation Successful"	pass
	Teaching Student or Student Rep enter invalid semester and press save changes	2	Teaching student or student rep should be in create course page	Should input valid data but semester input is invalid, and need to select course image and press save changes	Display alert "Semester should be 1 or 2 "	Display alert "Semester should be 1 or 2 "	pass
	Teaching Student or Student Rep enter pre inserted course code and press save changes	3	Teaching student or student rep should be in create course page	Should input valid data but course code is same as pre inserted course code.	Display alert "Something went wrong"	Display alert "Something went wrong"	pass
	Teaching Student or Student Rep leave empty	4	Teaching student or student rep should be in	Should input one or more	Display alert "Please fill all the"	Display alert "Please fill all the"	pass

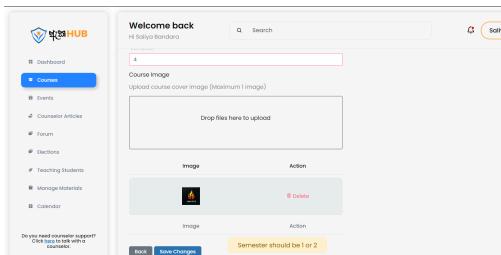
	fields and press save changes		create course page	empty fields and press save changes	fields”	fields”	
9	Teaching Student or Student Rep complete the form and press save changes	1	Teaching student or student rep should be in edit course page	Should input valid data and select course image and press save changes	Displays alert “Operation Successful”	Displays alert “Operation Successful”	pass
	Teaching Student or Student Rep enter invalid semester and press save changes	2	Teaching student or student rep should be in edit course page	Should input valid data but semester input is invalid, and need to select course image and press save changes	Display alert “Semester should be 1 or 2”	Display alert “Semester should be 1 or 2”	pass
	Teaching Student or Student Rep enter pre inserted course code and press save changes	3	Teaching student or student rep should be in edit course page	Should input valid data but course code is same as pre inserted course code.	Display alert “Something went wrong”	Display alert “Something went wrong”	pass
	Teaching Student or Student Rep	4	Teaching student or student rep	Should input one or	Display alert “Please fill	Display alert “Please	pass

	leave empty fields and press save changes		should be in edit course page	more empty fields and press save changes	all the fields"	fill all the fields"	
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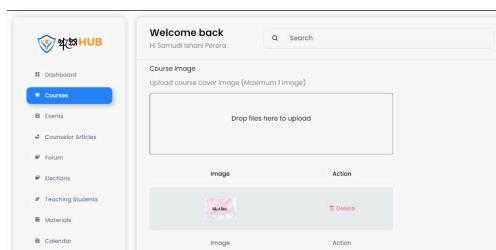
### Test Case 8.1, Test Case 9.1



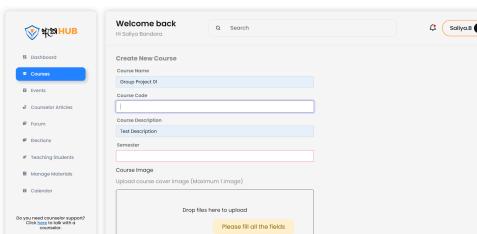
### Test Case 8.2, Test Case 9.2



### Test Case 8.3, Test Case 9.3



### Test Case 8.4, Test Case 9.4

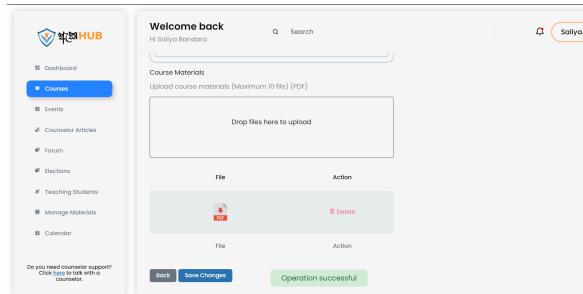


## 7.10 Creating Materials or Edit Materials in Courses

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
10	Teaching Student or Student Rep complete the form and press save changes	1	Teaching student or student rep should be in create/edit material page	Should input valid data and select course material pdf and press save changes	Display Alert "Operation Successful"	Display Alert "Operation Successful"	pass
	Teaching Student or Student Rep keep empty field in course material and press save changes.	2	Teaching student or student rep should be in create /edit material page	Should input valid data in fields but course material is empty.	Display Alert "Operation Successful"	Display Alert "Operation Successful"	pass
	Teaching Student or Student Rep keep empty field in kuppi video links and press save changes.	3	Teaching student or student rep should be in create/edit material page	Should input valid data in description and select course material pdf but kuppi video links are empty.	Display Alert "Operation Successful"	Display Alert "Operation Successful"	pass
	Teaching Student or Student Rep keep empty field in both kuppi video links and course	4	Teaching student or student rep should be in create	Should input valid data in description and others are empty.	Display Alert "Please insert at least one course material or kuppi video"	Display Alert "Please insert at least one course material or kuppi video"	pass

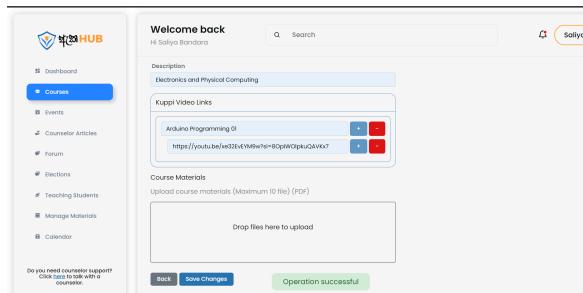
	materials press save changes.		/edit material page	link.”	link.”	
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### Test Case 10.1



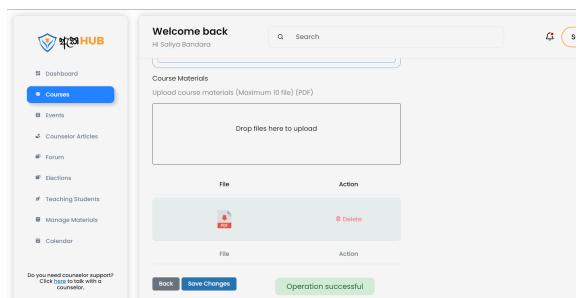
The screenshot shows the 'Course Materials' section of the Sri Lanka HUB platform. A file named 'Kuppi Video Links' has been uploaded. The interface includes a 'Drop files here to upload' area, a table for managing files, and a success message 'Operation successful'.

### Test Case 10.2



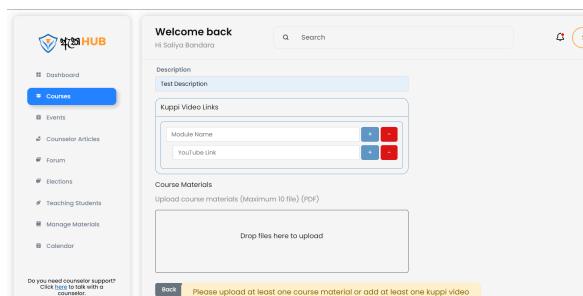
The screenshot shows the 'Course Materials' section of the Sri Lanka HUB platform. It displays a course description 'Electronics and Physical Computing', a Kuppi Video Links section with a video thumbnail and URL, and a file named 'Arduino Programming 01'. The interface includes a 'Drop files here to upload' area, a table for managing files, and a success message 'Operation successful'.

### Test Case 10.3



The screenshot shows the 'Course Materials' section of the Sri Lanka HUB platform. A file named 'Kuppi Video Links' has been uploaded. The interface includes a 'Drop files here to upload' area, a table for managing files, and a success message 'Operation successful'.

### Test Case 10.4



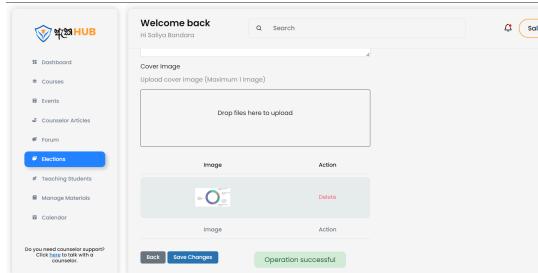
The screenshot shows the 'Course Materials' section of the Sri Lanka HUB platform. It displays a course description 'Test Description', a Kuppi Video Links section with a video thumbnail and URL, and a file named 'Module Name'. A yellow warning message at the bottom states 'Please upload at least one course material or add at least one kuppi video'.

## 7.11 Create and Edit New Election by Student Representative

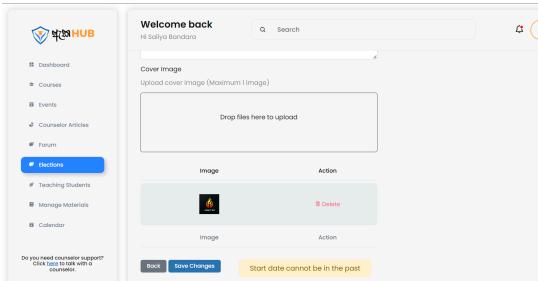
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
11	Student Rep,Club Rep and Admin can create edit elections by giving valid inputs	1	User should be in create / edit elections page	User should complete election name , description, start date, end date , target audience, and cover image and press save changes.	Display alert "Operation Successful"	Display alert "Operation Successful"	pass
	Student Rep,Club Rep and Admin can create/edit elections by giving valid inputs but past dates.	2	User should be in create / edit elections page	User should complete election name , description, target audience, and cover image but dates are past dates.	Display alert Start date cannot be past		
	Student Rep,Club Rep and Admin can create/edit elections by giving valid inputs but end date < start date.	3	User should be in create / edit elections page	User should complete election name , description, target audience, and cover image but end date < start date.	Display alert start date cannot be after end date	Display alert start date cannot be after end date	pass
	Empty Fields	4	User should be in create / edit elections page	User should keep one or more	Display alert Please Complete Empty	Display alert Please Complete	pass

				fields empty and press save changes.	Fields and save changes	Empty Fields and save changes	
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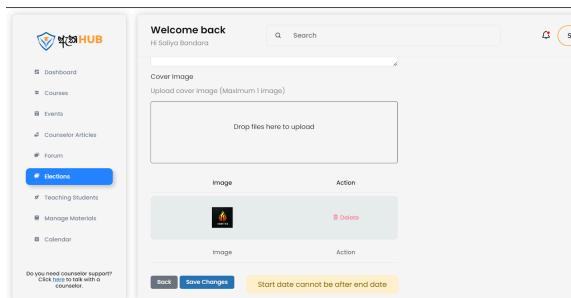
### Test Case 11.1



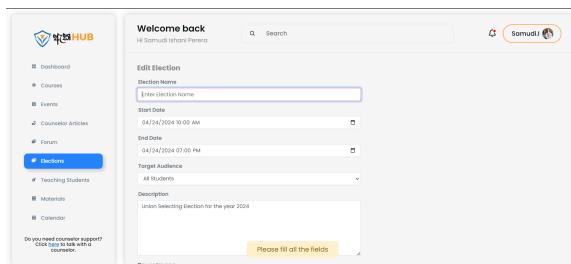
### Test Case 11.2



### Test Case 11.3



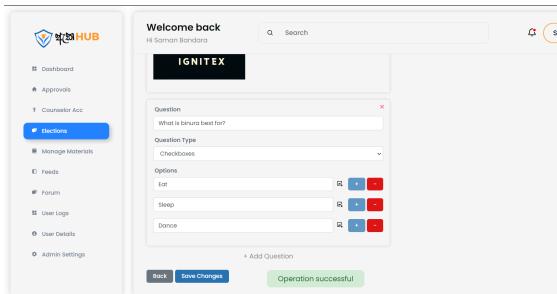
### Test Case 11.4



## 7.12 Create and Edit Election Questions

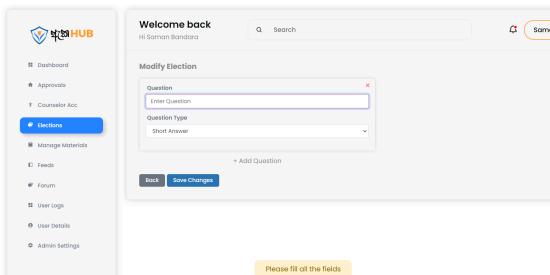
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
12	Student Rep , Admin create/edit election questions and save changes.	1	User should be in create / edit elections questions page	User should put question , select question type multiple choices, checkboxes and dropdown, should add relevant options and save changes.	Display alert Operation Successful	Display alert Operation Successful	pass
	Student Rep , Admin create/edit election questions with empty fields.	2	User should be in create / edit elections questions page	User should create/edit election questions with empty fields.	Display alert Please fill all fields.	Display alert Please fill all fields.	pass

### Test Case 12.1



The screenshot shows the 'IGNITEX' application's 'Elections' section. On the left, there's a sidebar with various navigation items like Dashboard, Approvals, Counselor Acc, Elections (which is highlighted), Manage Materials, Feeds, Forum, User Logs, User Details, and Admin Settings. The main area is titled 'Welcome back' with a greeting 'Hi Somon Banikar' and a search bar. It displays a form for creating a new election question. The 'Question' field contains the text 'What is your best hobby?'. The 'Question Type' dropdown is set to 'Checkboxes'. Below it, there are three options: 'Eat' (with two checkboxes checked), 'Sleep' (with two checkboxes checked), and 'Dance' (with two checkboxes checked). At the bottom of the form, there are 'Back' and 'Save Changes' buttons, and a green success message box says 'Operation successful'.

### Test Case 12.2

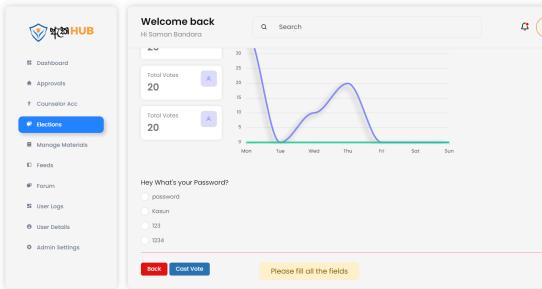


The screenshot shows the 'IGNITEX' application's 'Elections' section. The left sidebar is identical to Test Case 12.1. The main area is titled 'Welcome back' with a greeting 'Hi Somon Banikar' and a search bar. It displays a form for modifying an election question. The 'Question' field is empty and has a placeholder 'Enter Question'. The 'Question Type' dropdown is set to 'Short Answer'. At the bottom of the form, there are 'Back' and 'Save Changes' buttons, and an orange error message box says 'Please fill all the fields'.

## 7.13 Casting Vote for Election Questions

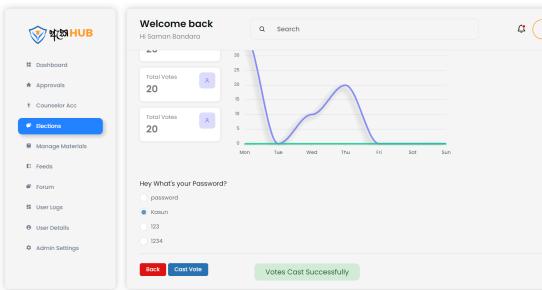
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
13	Student cast votes with empty selections	1	Student should be logged to casting vote page	Student should keep options unselected and press save changes	Display alert Please fill all the fields	Display alert Please fill all the fields	pass
	Student cast votes with valid selections	2	Student should be logged to casting vote page	Student should select valid selections for all questions and press save changes	Display alert Vote Cast Successfully	Display alert Vote Cast Successfully	pass

### Test Case 13.1



The screenshot shows a user interface for casting a vote. On the left is a sidebar with navigation links: Dashboard, Approvals, Counselor Acc, **Elections** (which is selected), Manage Materials, Feeds, Forum, User Logs, User Details, and Admin Settings. The main area has a title "Welcome back" and a sub-header "Hi Samson Bandaru". It displays two bar charts: "Total Votes" for Monday and Tuesday, both showing a value of 20. Below the charts is a question "Hey What's your Password?" with four options: password, Kosun, 123, and 1234. At the bottom are two buttons: "Back" and "Cast Vote". A yellow warning box says "Please fill all the fields".

### Test Case 13.2

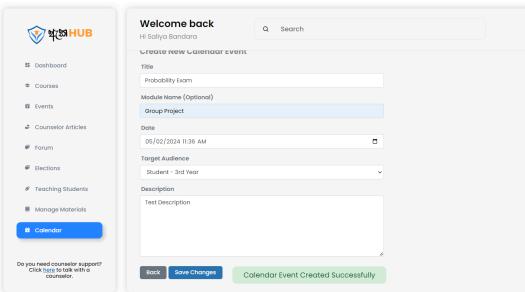


This screenshot is identical to Test Case 13.1, showing the same sidebar and casting vote interface. The difference is in the bottom right corner, where a green success message box appears stating "Votes Cast Successfully".

## 7.14 Add and Edit Calendar Event by Student Representative or Club Representative

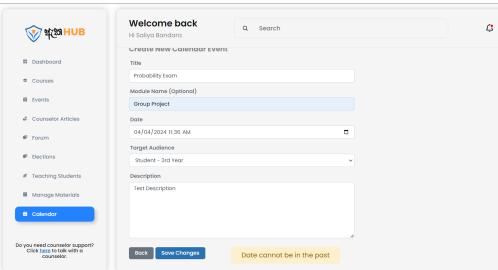
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
14	Student Rep , Club Rep Insert valid inputs and select valid date for calendar event and press save changes.	1	Student Rep, Club Rep should be in create/edit calendar event page.	User insert valid inputs to create calendar event page and press save changes	Display Alert Calendar Event Added successfully	Display Alert Calendar Event Added successfully	pass
	Student Rep Club Rep insert valid values but past date for date input.	2	Student Rep, Club Rep should be in create/edit calendar event page.	User insert valid values but past date for date input.	Display alert Date cannot be in the past.	Display alert Date cannot be in the past	pass
	Student Rep Club Rep keep empty fields and save changes.	3	Student Rep, Club Rep should be in create/edit calendar event page.	User keep empty fields and press save changes.			

### Test Case 14.1



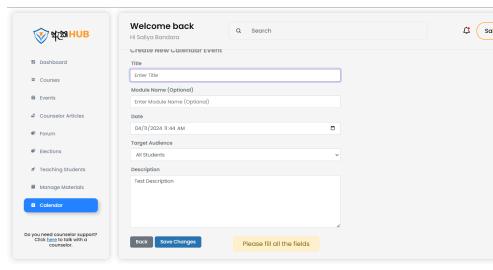
The screenshot shows the 'Create New Calendar Event' form. The 'Title' field contains 'Probability Exam'. The 'Module Name (Optional)' field has 'Group Project' typed in. The 'Date' field shows '05/02/2024 11:30 AM'. The 'Target Audience' dropdown is set to 'Student - 3rd Year'. The 'Description' field contains 'Test Description'. At the bottom, there are 'Back' and 'Save Changes' buttons, and a green success message 'Calendar Event Created Successfully'.

### Test Case 14.2



The screenshot shows the 'Create New Calendar Event' form. The 'Title' field contains 'Probability Exam'. The 'Module Name (Optional)' field has 'Group Project' typed in. The 'Date' field shows '04/04/2024 11:30 AM'. The 'Target Audience' dropdown is set to 'Student - 3rd Year'. The 'Description' field contains 'Test Description'. At the bottom, there are 'Back' and 'Save Changes' buttons, and an orange error message 'Date cannot be in the past'.

### Test Case 14.3

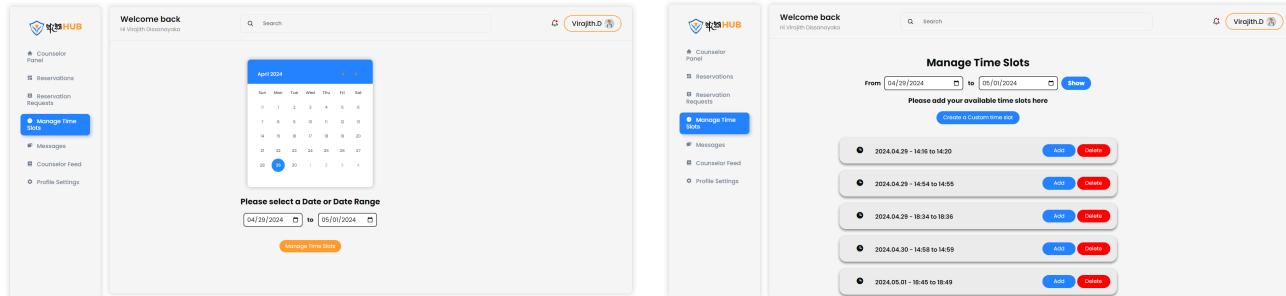


The screenshot shows the 'Create New Calendar Event' form. The 'Title' field is empty. The 'Module Name (Optional)' field has 'Group Project' typed in. The 'Date' field shows '04/07/2024 11:44 AM'. The 'Target Audience' dropdown is set to 'All Students'. The 'Description' field contains 'Test Description'. At the bottom, there are 'Back' and 'Save Changes' buttons, and an orange error message 'Please fill all the fields'.

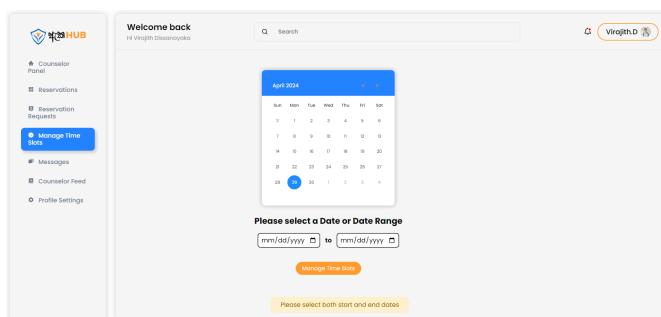
## 7.15 Add Available Time slots and view by Counselor

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
15	Counselor Redirecting to the Time Slot Page successfully	1	Should be logged in as the counselor. Should be navigated to Manage Time Slots page	Should Select the start date and the end date then click Manage Time Slots.	Redirecting to the Time Slot page	Redirecting to the Time Slot page	Pass
	Counselor does not enter start date or end date	2	Should be logged in as the counselor. Should be navigated to Manage Time Slots page	Fill the one of start date or end date	Display "Please select both start date and end date" in alert	Display "Please select both start date and end date" in alert	pass
	Counselor enters a end date as a date before start date	3	Should be logged in as the counselor. Should be navigated to Manage Time Slots page	Fill the start date and then fill the end date as a date before start date	Display "Start date must be before end date" in alert	Display "Start date must be before end date" in alert	pass

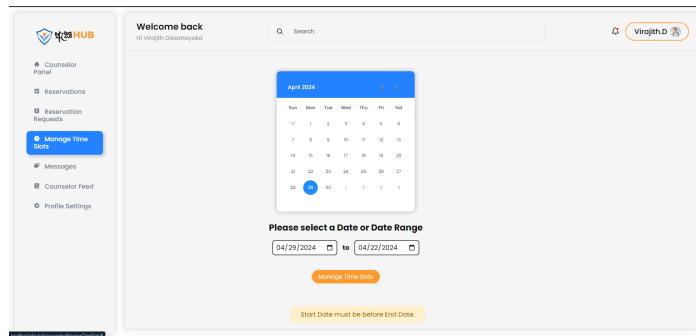
### Test Case 15.1



### Test Case 15.2



### Test Case 15.3



The screenshot shows the NCF HUB Counselor Panel. On the left, there's a sidebar with options like 'Counselor Panel', 'Reservations', 'Reservation Requests', 'Manage Time Slots' (which is highlighted in blue), 'Messages', 'Counselor Feed', and 'Profile Settings'. The main area has a 'Welcome back' message and a 'Search' bar. Below that is a calendar for April 2024. A message at the bottom says 'Please select a Date or Date Range' with two date inputs: '04/29/2024' and '04/22/2024'. There's also a button labeled 'Manage Time Slots'.

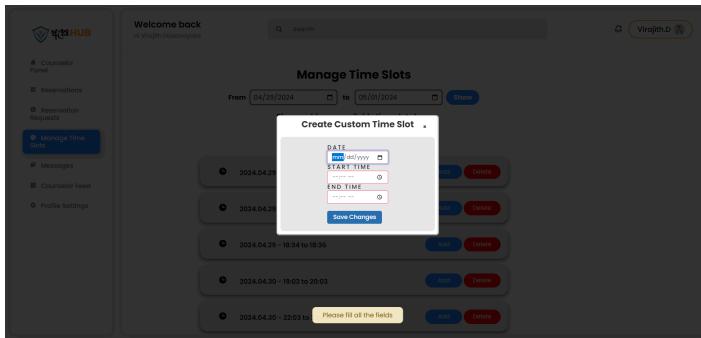
### 7.16 Create a custom timeslot by counselor

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
16	Counselor Add Time Slot Successfully	1	Should be logged in as the counselor. Should be navigated to Manage Time Slots/ filterDates page's Add Custom time slot popup form	Fill a today or later date, start time and a end time, then save changes	Display Alert "Operation Successful "	Display Alert "Operation Successful"	pass
	Counselor does not fill one or more field in the form and click save changes	2	Should be logged in as the counselor. Should be navigated to Manage Time Slots/ filterDates page's Add Custom time slot popup form	Leave one or more fields empty in the form and click save changes	Display "Please fill all the fields" in alert	Display "Please fill all the fields" in alert	pass

	Counselor enters a date before today	3	Should be logged in as the counselor.  Should be navigated to Manage Time Slots/ filterDates page's Add Custom time slot popup form	Fill the date field with before today date and fill start time and end time	Display "Please select upcoming date and time" in alert	Display "Please select upcoming date and time" in alert	pass
	Counselor enters the date as today and start time as current time	4	Should be logged in as the counselor.  Should be navigated to Manage Time Slots/ filterDates page's Add Custom time slot popup form	Fill the form the date as today and start time as current time	Display "Please select upcoming date and time" in alert	Display "Please select upcoming date and time" in alert	pass
	Counselor enters a end time as a time before start time	5	Should be logged in as the counselor.  Should be navigated to Manage Time Slots/ filterDates page's Add Custom time slot popup form	Fill the date field with later today date and fill start time and fill the end time as a time before start time	Display "Start time must be before end time" in alert	Display "Start time must be before end time" in alert	pass
	Counselor enters an overlapping time slot	6	Should be logged in as the counselor.  Should be navigated to Manage Time Slots/ filterDates page's Add	Fill the form with already entered date and overlapping start time and end time	Display "There are overlapping time slots" in alert	Display "There are overlapping time slots" in alert	pass

			Custom time slot popup form			
--	--	--	-----------------------------	--	--	--

### Test Case 16.2

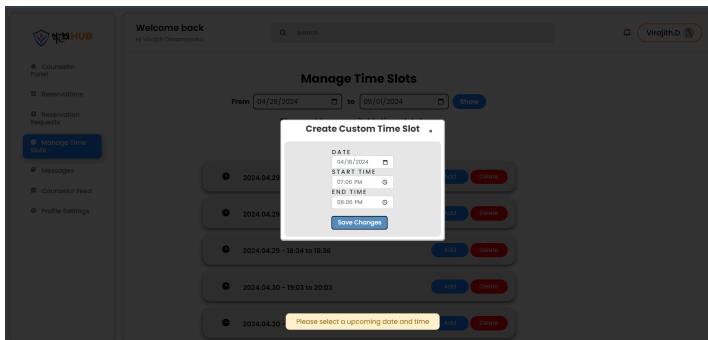


The screenshot shows the 'Manage Time Slots' section of the application. A modal window titled 'Create Custom Time Slot' is open, displaying the following fields:

- DATE: 04/29/2024
- START TIME: 07:30 PM
- END TIME: 08:30 PM

Below these fields is a 'Save changes' button. The main list of time slots shows one entry: '2024.04.29 - 07:30 to 08:30'. A message at the bottom of the list states: 'Please fill all the fields'.

### Test Case 16.3

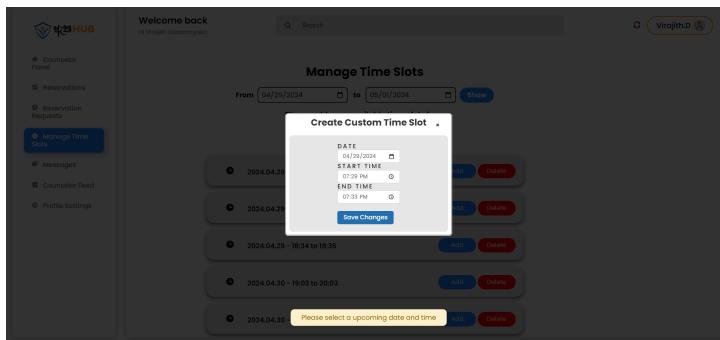


The screenshot shows the 'Manage Time Slots' section. A modal window titled 'Create Custom Time Slot' is open, displaying the following fields:

- DATE: 04/16/2024
- START TIME: 07:30 PM
- END TIME: 08:30 PM

Below these fields is a 'Save changes' button. The main list of time slots shows one entry: '2024.04.29 - 07:30 to 08:30'. A message at the bottom of the list states: 'Please select an upcoming date and time'.

### Test Case 16.4

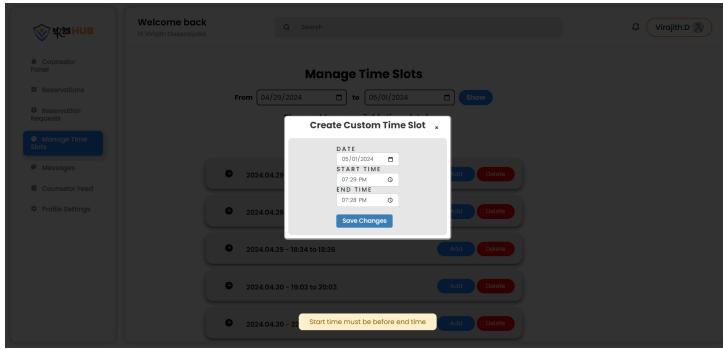


The screenshot shows the 'Manage Time Slots' section. A modal window titled 'Create Custom Time Slot' is open, displaying the following fields:

- DATE: 04/26/2024
- START TIME: 07:30 PM
- END TIME: 08:30 PM

Below these fields is a 'Save changes' button. The main list of time slots shows one entry: '2024.04.29 - 07:30 to 08:30'. A message at the bottom of the list states: 'Please select an upcoming date and time'.

### Test Case 16.5



Welcome back  
Hi Virajith.D

Manage Time Slots  
From 04/29/2024 To 05/01/2024 Show

Create Custom Time Slot

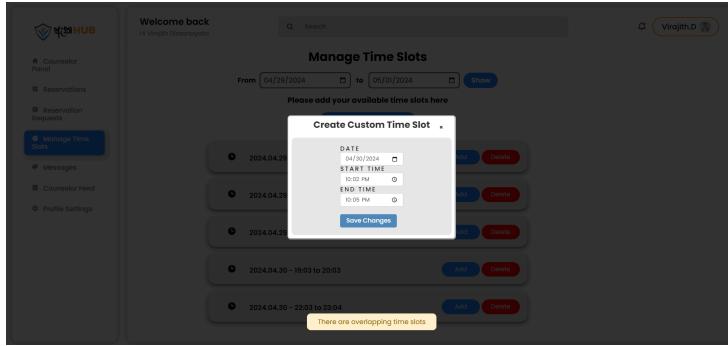
DATE: 04/01/2024  
START TIME: 09:00 AM  
END TIME: 09:30 AM

Save changes

Start time must be before end time

- 2024.04.29 - 09:00 to 09:30 Add Update
- 2024.04.29 - 19:34 to 19:39 Add Update
- 2024.04.29 - 19:01 to 20:03 Add Update
- 2024.04.30 - Start time must be before end time Add Update

### Test Case 16.6



Welcome back  
Hi Virajith.D

Manage Time Slots  
From 04/29/2024 To 05/01/2024 Show

Please add your available time slots here

Create Custom Time Slot

DATE: 04/01/2024  
START TIME: 10:00 AM  
END TIME: 10:05 PM

Save changes

There are overlapping time slots.

2024.04.29 - 09:00 to 09:30 Add Update

2024.04.29 - 19:34 to 19:39 Add Update

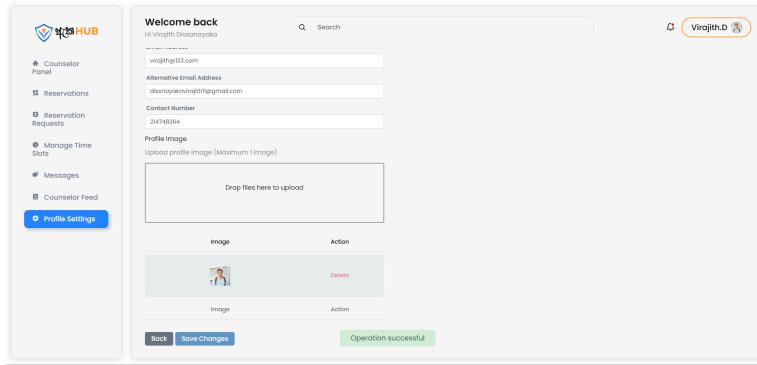
2024.04.29 - 19:01 to 20:03 Add Update

2024.04.30 - 22:58 to 23:04 Add Update

## 7.17 Counselor Profile Editing

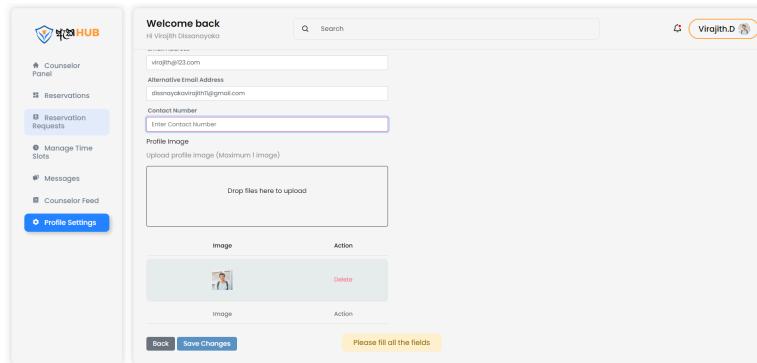
Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
17	Counselor edits his/her own profile successfully	1	Should be logged in as the counselor.  Should be navigated to Profile settings page	Click “Edit details” button and go to the add_page. Then Edit the fields and click “save Changes”	Display Alert “Operation Successful”	Display Alert “Operation Successful”	pass
	Counselor leaves one or more fields empty	2	Should be logged in as the counselor.  Should be navigated to Profile settings page	Click “Edit details” button and go to the add_page. Then Edit the fields and leaves one or more field empty and click “save Changes”	Display “Please Fill all the input fields()” in alert	Display “Please Fill all the input fields()” in alert	pass
	Counselor leaves profile image empty	3	Should be logged in as the counselor.  Should be navigated to Profile settings page	Click “Edit details” button and go to the add_page. Then Edit the fields and leave the profile image empty and click “save Changes”	Display “Please upload at least one image for Profile Img” in alert	Display “Please upload at least one image for Profile Img” in alert	pass

### Test Case 17.1



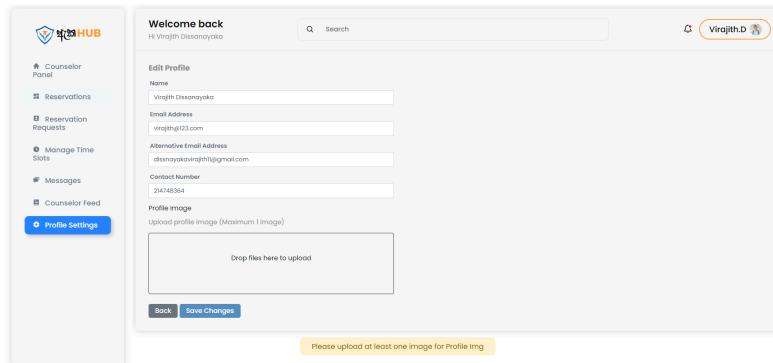
The screenshot shows the 'Profile Settings' page of the HUB application. The user's name is 'Virajith.D' and the email is 'virajith@02.com'. The contact number field contains '21474364'. Under 'Profile Image', there is a placeholder 'Drop files here to upload'. Below it, there is a preview of a profile picture with 'Image' and 'Action' buttons. A green success message 'Operation successful.' is displayed at the bottom right.

### Test Case 17.2



The screenshot shows the 'Profile Settings' page. The contact number field is empty and highlighted in red. A yellow error message 'Please fill all the fields' is displayed at the bottom right.

### Test Case 17.3

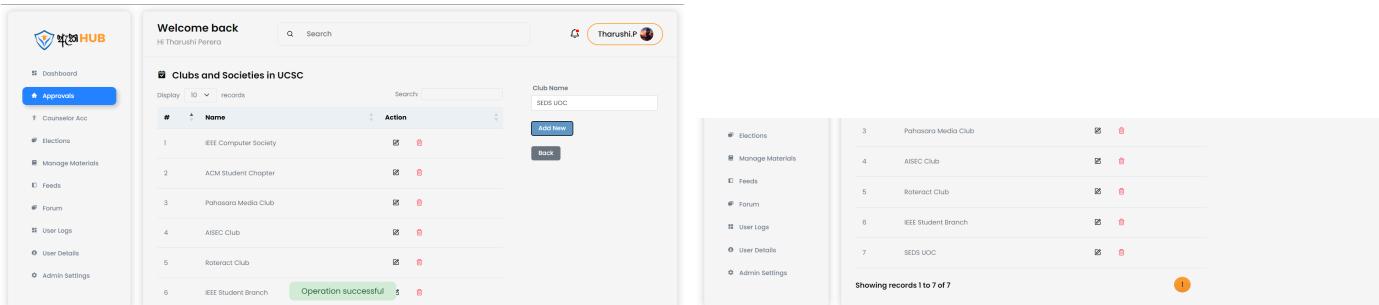


The screenshot shows the 'Profile Settings' page. The 'Profile Image' field is empty and highlighted in red. A yellow error message 'Please upload at least one image for Profile Img' is displayed at the bottom right.

## 7.18 Adding and Editing Clubs by Admin

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
18	Admin enters valid name for a club in the view clubs page	1	Admin should be in the view clubs page	Enter the Name of the club and click the submit button	Display Alert Club Added successfully	Display Alert Club Added successfully	pass
	Admin keeps the name field empty and add a club	2	Admin should be in the view clubs page	Admin keeps the text box empty and clicks on the submit button	Display error to fill the empty fields	Display error to fill the empty fields	pass
	Admin edits a name of an already existing club	3	Admin should be in the view clubs page	click the edit button and edit the name in the text box and click on the save button	Display Alert Operation Sucessful	Display Alert Operation Sucessful	pass
	Admin keeps the name field empty when editing a club	4	Admin should be in the view clubs page	click the edit button and edit the name in the text box and click on the save button	Display error to fill the empty fields	Display error to fill the empty fields	pass

### Test Case 18.1

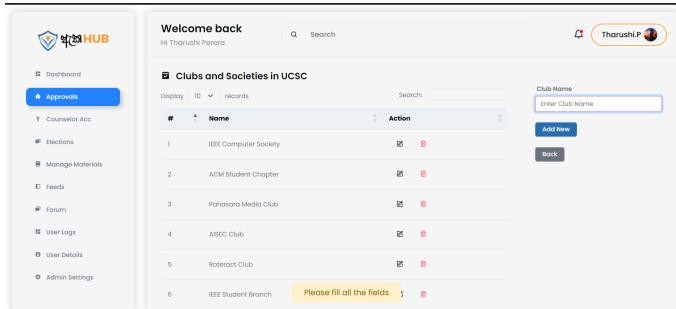


The screenshot shows the 'Clubs and Societies in UCSC' section of the HUB application. The interface includes a sidebar with various administrative links like Approvals, Elections, Manage Materials, Feeds, Forum, User Logs, User Details, and Admin Settings. The main content area displays a table of clubs with the following data:

Name	Action	Status
IEEE Computer Society		
ACM Student Chapter		
Pothosara Media Club		
AIESEC Club		
Rotaract Club		
IEEE Student Branch		
SEDS UOC		

At the bottom of the table, a message says 'Showing records 1 to 7 of 7'. A success message 'Operation successful' is displayed at the bottom left of the page.

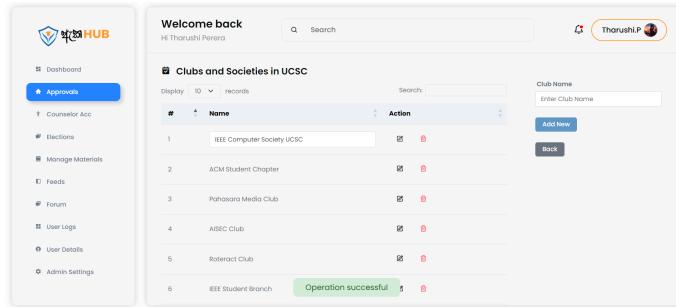
### Test Case 18.2



The screenshot shows the 'Clubs and Societies in UCSC' section. The table lists six clubs: IEEE Computer Society, ACM Student Chapter, Pohoskara Media Club, ASEC Club, Rotaract Club, and IEEE Student Branch. The last row has a yellow background and displays the validation message 'Please fill all the fields'.

#	Name	Action
1	IEEE Computer Society	<input checked="" type="checkbox"/>
2	ACM Student Chapter	<input checked="" type="checkbox"/>
3	Pohoskara Media Club	<input checked="" type="checkbox"/>
4	ASEC Club	<input checked="" type="checkbox"/>
5	Rotaract Club	<input checked="" type="checkbox"/>
6	IEEE Student Branch	

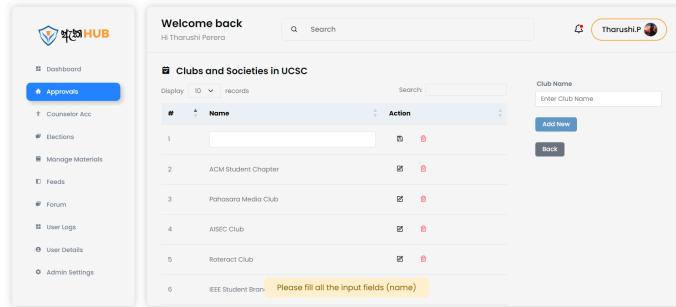
### Test Case 18.3



The screenshot shows the 'Clubs and Societies in UCSC' section. The table lists the same six clubs as Test Case 18.2. The last row has a green background and displays the success message 'Operation successful'.

#	Name	Action
1	IEEE Computer Society UCSC	<input checked="" type="checkbox"/>
2	ACM Student Chapter	<input checked="" type="checkbox"/>
3	Pohoskara Media Club	<input checked="" type="checkbox"/>
4	ASEC Club	<input checked="" type="checkbox"/>
5	Rotaract Club	<input checked="" type="checkbox"/>
6	IEEE Student Branch	

### Test Case 18.4



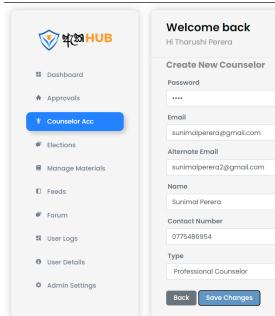
The screenshot shows the 'Clubs and Societies in UCSC' section. The table lists the same six clubs as previous cases. The last row has a yellow background and displays the validation message 'Please fill all the input fields (name)'.

#	Name	Action
1		<input checked="" type="checkbox"/>
2	ACM Student Chapter	<input checked="" type="checkbox"/>
3	Pohoskara Media Club	<input checked="" type="checkbox"/>
4	ASEC Club	<input checked="" type="checkbox"/>
5	Rotaract Club	<input checked="" type="checkbox"/>
6	IEEE Student Branch	

## 7.19 Adding and Editing Counselors by Admin

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
19	Admin creates the counselor account successfully by giving all the valid details	1	Admin should be in the Add counselors page	Enter all the valid details and click the submit button	Display Alert Operation successful and directs to the view counselors page	Display Alert Operation successful and directs to the view counselors page	pass
	Admin tries to create the counselor account by keeping an empty field	2	Admin should be in the Add counselors page	Admin keeps one field empty and clicks on the submit button	Display error to fill the empty fields	Display error to fill the empty fields	pass
	Admin tries to create the counselor account without entering a proper email address	3	Admin should be in the Add counselors page	Admin enters other details correctly but not the email address and clicks on the submit button	Display error please include an @ in the email field	Display error please include an @ in the email field	pass
	Admin tries to create a counselor account by giving a string to the telephone number field	4	Admin should be in the Add counselors page	Admin enters all the other details correctly but gives a string to the telephone number field and clicks on submit button	Display the error message Error while creating counselor account	Display the error message Error while creating counselor account	pass

### Test Case 19.1



Welcome back  
Hi Tharushi Perera

Create New Counselor

Password:

Email: sunimalperera@gmail.com

Alternate Email: sunimalperera@gmail.com

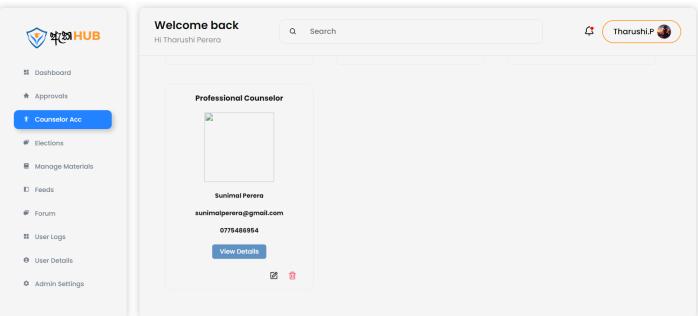
Name: Sunimal Perera

Contact Number: 075486954

Type: Professional Counselor

[Back](#) [Save Changes](#)

Operation successful

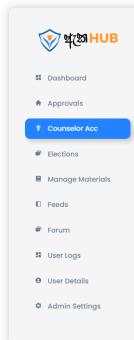


Welcome back  
Hi Tharushi Perera

Professional Counselor

  
Sunimal Perera  
sunimalperera@gmail.com  
075486954  
[View Details](#)

### Test Case 19.2



Welcome back  
Hi Tharushi Perera

Create New Counselor

Password:

Email: sunimalperera@gmail.com

Alternate Email:

Name: Sunimal Perera

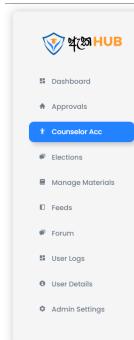
Contact Number:

Type: Professional Counselor

[Back](#) [Save Changes](#)

Please fill all the fields

### Test Case 19.3



Welcome back  
Hi Tharushi Perera

Create New Counselor

Password:

Email: sunimalperera

Alternate Email:  Please include an '@' in the email address. 'sunimalperera' is missing an '@'.  
Enter 075486954@MAIL.GOV.LK

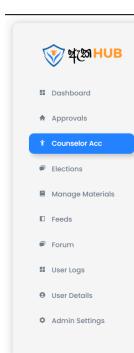
Name: Sunimal Perera

Contact Number:

Type: Professional Counselor

[Back](#) [Save Changes](#)

### Test Case 19.4



Welcome back  
Hi Tharushi Perera

Create New Counselor

Password:

Email: sunimalperera@gmail.com

Alternate Email:

Name: Sunimal Perera

Contact Number: hello

Type: Professional Counselor

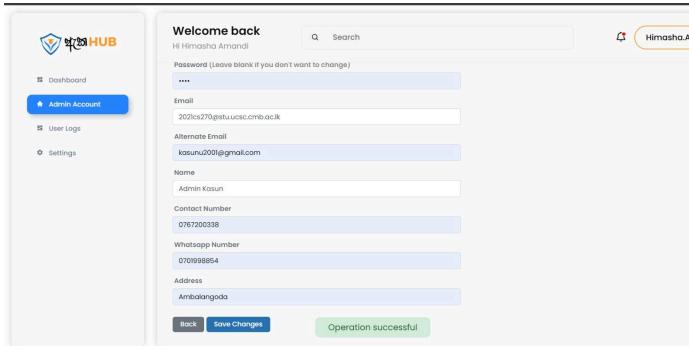
[Back](#) [Save Changes](#)

Error while creating user

## 7.20 Adding and Editing Admins by Super Admin

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
20	Super Admin creates the admin account successfully by giving all the valid details	1	Super Admin should be in the Create Admin page	Enter all the valid details and click the submit button	Display Alert Operation successful and directs to the view admin page	Display Alert Operation successful and directs to the view admin page	pass
	Super Admin tries to create the admin account by keeping an empty field	2	Super Admin should be in the Create Admin page	Super Admin keeps one field empty and clicks on the submit button	Display error to fill the empty fields	Display error to fill the empty fields	pass
	Super Admin tries to create the admin account without entering a proper email address	3	Super Admin should be in the Create Admin page	Super Admin enters other details correctly but not the email address and clicks on the submit button	Display error please include an @ in the email field	Display error please include an @ in the email field	pass
	Super Admin tries to create a admin account by giving a string to the telephone number field	4	Super Admin should be in the Create Admin page	Super Admin enters all the other details correctly but gives a string to the telephone number field and clicks on submit button	Display the error message Error while creating admin account	Display the error message Error while creating admin account	pass

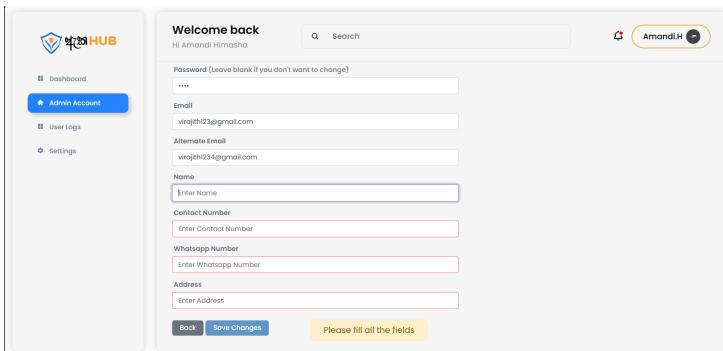
### Test Case 20.1



The screenshot shows the 'Admin Account' update form. The user has successfully updated their account information. The 'Operation successful' message is displayed at the bottom right.

Field	Value
Email	2021cs270@eu.uwcsc.cmb.ac.lk
Alternate Email	kasunu2001@gmail.com
Name	Admin Kosun
Contact Number	0767200338
Whatsapp Number	070998854
Address	Amboingoda

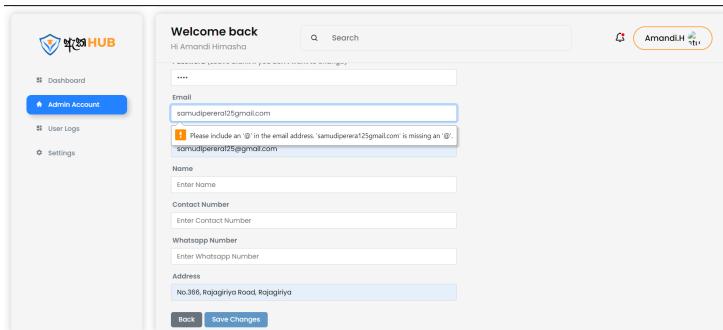
### Test Case 20.2



The screenshot shows the 'Admin Account' update form. A validation error message 'Please fill all the fields' is displayed at the bottom right. The 'Name' field is highlighted in red, indicating it is required.

Field	Value
Email	virothi23@gmail.com
Alternate Email	virothi234@gmail.com
Name	<input type="text" value="Enter Name"/>
Contact Number	<input type="text" value="Enter Contact Number"/>
Whatsapp Number	<input type="text" value="Enter Whatsapp Number"/>
Address	<input type="text" value="Enter Address"/>

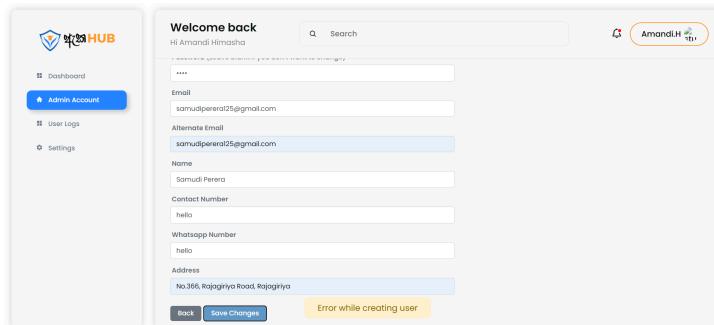
### Test Case 20.3



The screenshot shows the 'Admin Account' update form. An error message 'Please include '@' in the email address. 'samudiperera125@gmail.com' is missing an '@'.' is displayed above the 'Email' field. The 'Email' field contains 'samudiperera125@gmail.com'. Other fields are filled with placeholder text.

Field	Value
Email	samudiperera125@gmail.com
Alternate Email	<input type="text" value="samudiperera125@gmail.com"/>
Name	<input type="text" value="Enter Name"/>
Contact Number	<input type="text" value="Enter Contact Number"/>
Whatsapp Number	<input type="text" value="Enter Whatsapp Number"/>
Address	No.395, Rajagiriya Road, Rajagiriya

### Test Case 20.4



The screenshot shows the 'Admin Account' update form. An error message 'Error while creating user' is displayed at the bottom right. The 'Email' field contains 'somudiperera125@gmail.com' and the 'Alternate Email' field contains 'somudiperera125@gmail.com'. Other fields are filled with placeholder text.

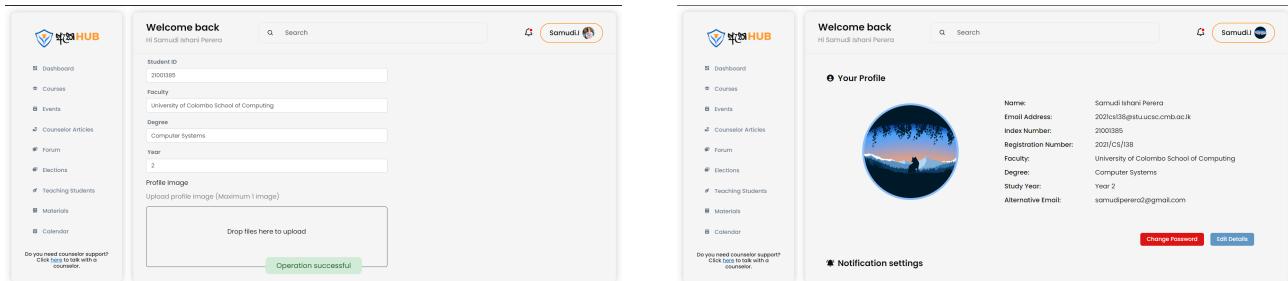
Field	Value
Email	somudiperera125@gmail.com
Alternate Email	somudiperera125@gmail.com
Name	<input type="text" value="Somudi Perera"/>
Contact Number	hello
Whatsapp Number	hello
Address	No.395, Rajagiriya Road, Rajagiriya

## 7.21 User Editing the Profile

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
21	Student enters valid details for all the fields and edits his profile	1	Student should be in edit profile page	Enter all the valid details and click the submit button	Display Alert Operation successful and directs to the profile page	Display Alert Operation successful and directs to the profile page	pass
	Student tries to edit the profile by keeping one field empty	2	Student should be in edit profile page	Student keeps one field empty and clicks on the submit button	Display error to fill the empty fields	Display error to fill the empty fields	pass
	Student tries to edit the profile by giving a wrong year	3	Student should be in edit profile page	Student enters other details correctly but gives a wrong year (not 1,2,3 or 4) and clicks on the submit button	Display error Year should be 1,2,3 or 4	Display error Year should be 1,2,3 or 4	pass
	Student tries to edit the profile with no image	4	Student should be in edit profile page	Student enters all the other details correctly but does not include a profile image and clicks on submit button	Display the error message please upload atleast one image for the profile image	Display the error message please upload atleast one image for the profile image	pass
	Student tries to include more than 1 image to the profile image	5	Student should be in edit profile page	Student enters all the other details correctly	Display the error message Only one files are	Display the error message Only one files are allowed	Pass

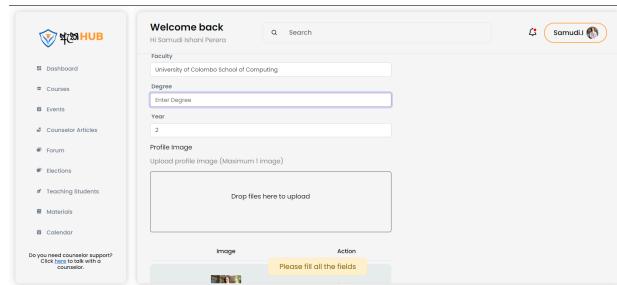
				but includes more than 1 image in the profile image and clicks on submit button	allowed	
--	--	--	--	---	---------	--

### Test Case 21.1



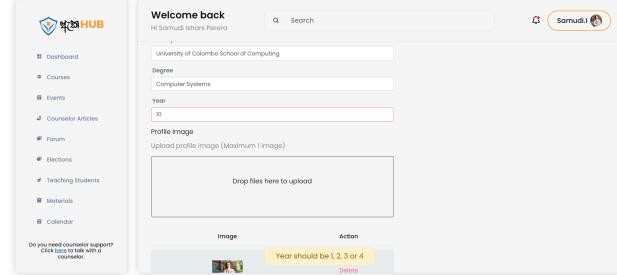
The screenshot shows the HUB application's profile update process. On the left, the 'Welcome back' page displays fields for Student ID (2001038), Faculty (University of Colombo School of Computing), Degree (Computer Systems), and Year (2). Under 'Profile Image', it says 'Upload profile image (Maximum 1 image)' and 'Drop files here to upload'. A green success message 'Operation successful!' is visible. On the right, the 'Your Profile' page shows the updated information: Name (Samudhi Ishani Perera), Email Address (2001038@gsutuc.cmb.ac.lk), Index Number (2001038), Registration Number (2021/C/S/18), Faculty (University of Colombo School of Computing), Degree (Computer Systems), Study Year (Year 2), and Alternative Email (samudisperera2@gmail.com). It also includes 'Change Password' and 'Edit Details' buttons.

### Test Case 21.2



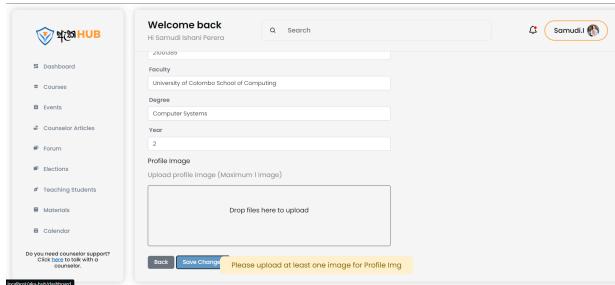
The screenshot shows the 'Welcome back' page with the same initial data as Test Case 21.1. However, the 'Degree' field is empty, containing only 'Enter Degree'. Below the form, a yellow error message 'Please fill all the fields' is displayed above the 'Action' button.

### Test Case 21.3



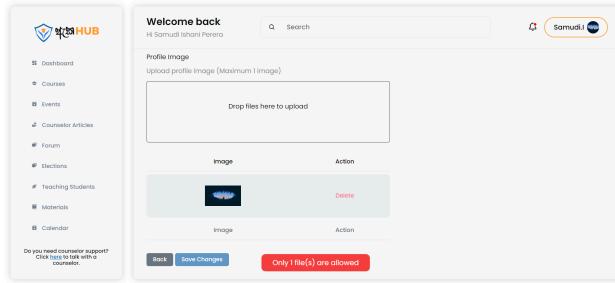
The screenshot shows the 'Welcome back' page with the same initial data as previous cases. The 'Year' field contains the invalid value '10'. Below the form, a yellow error message 'Year should be 1, 2, 3 or 4' is displayed above the 'Action' button.

### Test Case 21.4



The screenshot shows the 'Profile image' section of the profile update form. It includes fields for 'Degree' (Computer Systems) and 'Year' (2). A large input field labeled 'Drop files here to upload' is present, with a tooltip 'Please upload at least one image for Profile Img'. Below the input field are 'Back' and 'Save Changes' buttons, and a note 'Only 1 file(s) are allowed'.

### Test Case 21.5



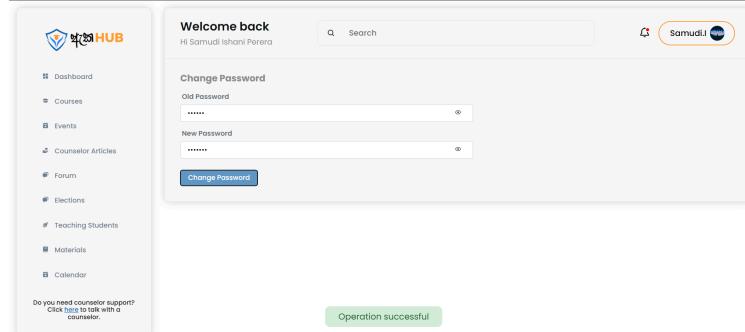
The screenshot shows the 'Profile image' section after a file has been uploaded. The input field now displays a thumbnail of the uploaded image. Below the input field are 'Image' and 'Action' columns, with a 'Delete' button next to the image thumbnail. Below the input field are 'Back' and 'Save Changes' buttons, and a note 'Only 1 file(s) are allowed'.

## 7.22 User Changing his password

Scenario TID	Scenario Description	Test Case ID	Pre-Condition	Steps to Execute	Expected Result	Actual Result	Status
22	User enters the old password correctly and click on change password button	1	User should be in the change password page	Enter the old password correctly, enter the new password and clicks on the change password button	Display Alert Operation successful and directs to the profile page	Display Alert Operation successful and directs to the profile page	pass
	User enters the old password incorrectly and	2	User should be in the	User enters the old password	Display error incorrect password	Display error incorrect password	pass

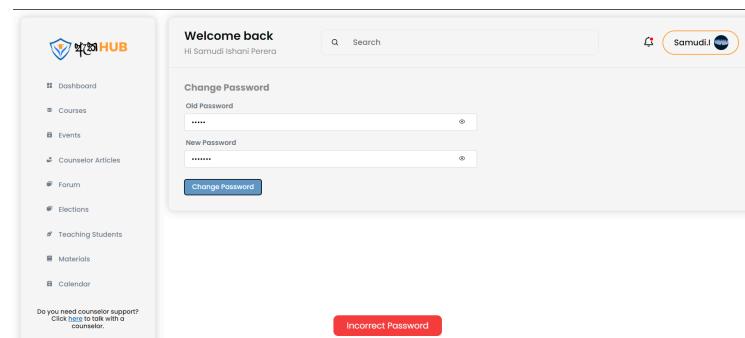
	clicks on the change password button		change password page	incorrectly, enters the new password and clicks on the change password button		
--	--------------------------------------	--	----------------------	---	--	--

### Test Case 22.1



The screenshot shows the 'Change Password' page of the Sri Lanka HUB application. The user has successfully changed their password, as indicated by the green 'Operation successful!' message at the bottom right. The page includes fields for 'Old Password' and 'New Password', and a 'Change Password' button.

### Test Case 22.2



The screenshot shows the 'Change Password' page of the Sri Lanka HUB application. The user has entered an incorrect password, as indicated by the red 'Incorrect Password' message at the bottom right. The page includes fields for 'Old Password' and 'New Password', and a 'Change Password' button.

# 8. Individual Contribution

## 8.1 Member 1 - 21000204 W.M.S.L.Bandara

Student Index Number: 21000204

Student Name: W.M.S.L. BANDARA

Group Number: CS24

Group Name: Aka Hub

- Components implemented:
  1. Base MVC implementation
  2. Authentication system
  3. Automatic CRUD form generation system
  4. Anonymous Election System with live analytics
  5. Calendar System
  6. Exam Timetable PDF parser/ Bulk add events
  7. Notification System
  8. Public Forum
  9. Email handling system
  10. CI/CD implementation
  11. Testing
  
- Description of the component(s):
  1. Base MVC implementation - Implemented the base MVC architecture for the project. This includes the base models, views, and controllers for the project. Also implemented the routing system for the project.
  2. Authentication system - Implemented the authentication system for the project. This includes the login, logout, and registration functionalities for the project.
  3. Automatic CRUD form generation system - This system is used to generate the CRUD forms for the project. By using this when the database schema is declared the system will automatically generate the CRUD forms for the project. Saving a lot of development time.
  4. Anonymous Election System with live analytics - Implemented the anonymous election system with live analytics. This system allows the users to create elections and vote on them anonymously. This also provides live analytics for the elections.
  5. Calendar System - Implemented the calendar system for the project. This system allows the users to create events and manage them. The users can also view the events in a calendar view. With real-time updates.
  6. Exam Timetable PDF parser/ Bulk add events - This system uses a python script to parse the university exam timetable PDF and add the events automatically to the

calendar system. This saves a lot of manual work. Also it supports bulk adding events to the calendar system using a CSV file.

7. Notification System - This system allows the system to send notifications to the users. The users can view the notifications in the notification center. This system also supports email notifications. Also these notifications are updates in real-time.
8. Public Forum - This system allows the users to create posts and comment on them. Used to discuss various topics. Students can ask questions and get answers from other students that are experienced in specific areas.
9. Email handling system - This system allows the system to send emails to the users. This is used to send notifications and other important emails to the users.
10. CI/CD implementation - Implemented the CI/CD pipeline for the project using GitHub Actions and Jenkins. This pipeline is used to automatically deploy the project to the server when a new commit is pushed to the repository.
11. Automated notification/email system via CronJobs - This system is used to send notifications and emails to the users at specific times. This is used to remind the users about important events and deadlines.
12. Testing Project: Manual testing and automated testing with selenium by using selenium IDE.

8.2 Member 2 - 21001375 V.S.I Perera

Student Index Number: 21001375

Student Name: V.S.I.Perera

Group Number: CS24

Group Name: Aka Hub

- Components implemented:
    1. Event and Counselor Feed Component
    2. Student Profile Settings
    3. Course and Course Material Management
    4. Filters and Search options for courses and posts
    5. Counselling Appointment Management through student accounts
    6. Managing teaching students through student representative accounts
    7. Managing clubs and club representatives through admin account
    8. Change Password Functionality
    9. Todo Items Component
    10. Testing
  - Description of the component(s):
    1. Event and Counselor Feed Component: A separate component for sharing articles and posts related to both counseling services and events which are uploaded by respective parties. CRUD functionality for posts and Live preview for commenting and likes are implemented.
    2. Student Profile Settings: Students can edit their details as well as their notification preferences through the system. Profile edit functionality implemented with form validations.
    3. Course and Course Material Management: Respective parties can create and add materials to the courses (Kuppi video links as YouTube links and short notes in pdf format) which can be viewed by the students in relevant academic years. CRUD functionality is implemented with form validations for both courses and materials.
    4. Filters and Search options: Both filters and search components are implemented for courses and posts where courses can be filtered using both year and semester and they can be searched using course name or course code. Posts can be filtered using club name and can be searched using club name or any word in the post description.
    5. Counselling Appointment Management through student accounts: Students can view counselor accounts and the articles they have published. Each student can manage their counselling appointments by booking or cancelling them. Filter option is there to filter using the status of the appointment.

6. Managing teaching students through student representative accounts: Accepting and Denying the requests of teaching students and control the given access by declining them at any time.
7. Managing clubs and club representatives through admin account: Separate table for admin to add new clubs to the system and edit the existing clubs in the system. Edit and Create can be done in the table itself.
8. Change Password Functionality: Change password functionality for every user.
9. Todo Items Component: The exams and assignments added to the student's year will be displayed as todo items with the remaining dates and hours in their dashboard. Notifications are sent according to their preferences when the deadline arrives.
10. Testing Project: Manual testing and automated testing with selenium by using selenium IDE.

## 8.3 Member 3 - 21001987 W.H.K.Udara

Student Index Number: 21001987

Student Name: W.H.K.Udara

Group Number: CS24

Group Name: Aka Hub

- Components you have implemented.
  1. Admin Dashboard with analytics.
  2. Student , Club Representative approving and access management.
  3. Counselor Account Management.
  4. User Logs Management and Analytics
  5. User Details View and Account Restriction and Enabling.
  6. Admin Profile Management
  7. Admin Account Creation and Management
  8. Super Admin Profile.
  9. Requesting to become student representative
  10. Integration with mail sending and notifications
  11. Report Generation of Admin Dashboard analytics and user log analytics.
  12. Testing
  
- Description of the component(s):
  1. Admin Dashboard with analytics: Display count of Total Users, Users with Roles , Newly registered users, Line graph for user registration over the dates, Pie Chart with distribution of users and their roles, Pie Chart with user engagement to with platform features, Column Graph with students' year distribution in platform, Donut Graph for Counselor Reservation Request and states.
  2. Student , Club Representative approving and access management: Previewing Students who are requested to be Student Representatives or Club Representative. Accepting or Declining / Access Removing for Student Representatives , Club Representatives and Previewing Details of Student Representatives , Club Representatives.
  3. Counselor Account Management: CRUD functionality for counselor accounts with form validations.
  4. User Logs Management and Analytics: Displays User Email , User IP Address, Timestamp, Description of user action, URL of user action , Status Code of the action. Displays no of Unauthorized attempts , user creation , user deletion , logging count , Permission grants , Permission revokes. Column graph displays distribution of users when logging to system, Pie chart for status code distribution, Pie chart for success rate operations, Column chart for displaying user activity in user accounts, Donut graph for display Permission grants and permission revokes.

5. User Details View and Account Restriction and Enabling: Viewing user details of the all users. Restricting users and enabling users to use platform
6. Admin Profile Management: Displays details of admin profiles and can edit his profile details, and add Academic start date and academic end date settings
7. Admin Account Creation and Management: CRUD fucntionaloty for admin accounts with form validations.
8. Super Admin Profile: Display the student admin profile and can edit details
9. Requesting to become student representative: Student can request to become student representative.
10. Integration with Mail Sending and Notification: Integrating mail sending and notification functions for controllers in relevant to the logic.Sends automatic mails for Super Admin , Admin and user when attempting to perform a series of unauthorized events happening by using user's session.
11. Report Generation of Admin Dashboard analytics and user log analytics: PDF exports are generated for admin dashboard analytics and user log analytics by admin.
12. Testing: Manual testing and automated testing with selenium by using selenium IDE.

**8.4 Member 4 - 21000549 P.R.V. Dissanayaka**

Student Index Number: 21000549

Student Name: P.R.V.Dissanayaka

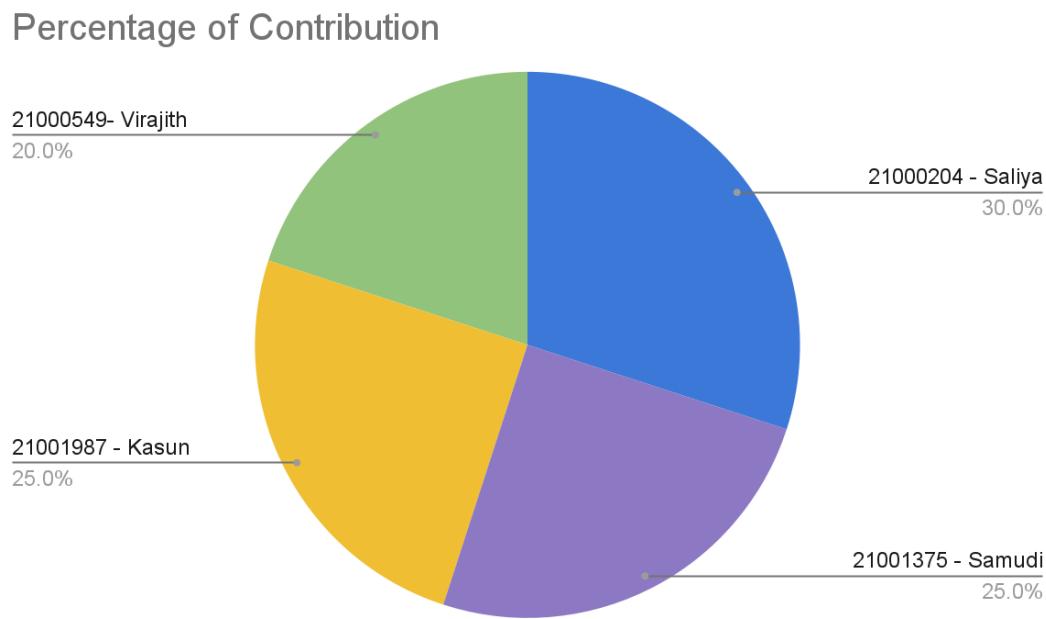
Group Number: CS24

Group Name: Aka Hub

- Components you have implemented.
    1. Counselor Panel
    2. Counselor Reservations
    3. Counselor Reservation Requests
    4. Counselor Manage Time Slots
    5. Counselor Messages
    6. Counselor Profile Settings
    7. Student view of the available time slots added by counselor
    8. Student booking, cancelling of the counseling sessions
    9. Testing
  - Description of the component(s):
    1. Counselor Panel: Counselor has the ability to view counseling session counts and data using graphs
    2. Counselor Reservations: Counselor can confirm the completion or cancel the reserved sessions and also can view completed and cancelled reservations by counselor or the student.
    3. Counselor Reservation Requests: The counselor can view reservation requests that send by the student and also can accept or decline the reservation.
    4. Counselor Manage Time Slots: Counselor can add his available time slots here and can add to booking for the student and remove. Also, can delete the time slots
    5. Counselor Messages: Counselor can view the messages that send by the students and also can reply for the messages
    6. Counselor Profile Settings: Counselor can change name, alternative email, contact number and the profile image here
    7. Student view of the available time slots added by counselor: Student can view available time slots added by the counselor

8. Student booking, cancelling of the counseling sessions: Student can book counseling sessions and also student can cancel reservations here
9. Testing : Manual testing and automated testing with selenium by using selenium IDE.

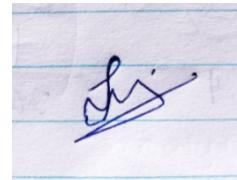
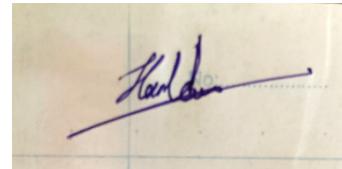
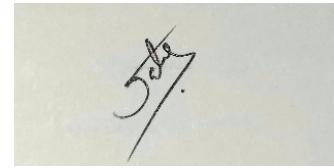
### Pie chart for individual contribution to the project by each member



## 9. Declaration

We as members of the project titled “Student Collaboration and Connection Platform”, Certify that we will carry out this project according to the guidelines provided by the coordinators and supervisors of the course as well as we will not incorporate, without acknowledgment, any material previously submitted for a degree or diploma in any university.

To the best of our knowledge and brief, the project work will not contain any material previously published or written by another person or ourselves except where due reference is made in the text of appropriate places.

<b>Index Number</b>	<b>Name of the student</b>	<b>Signature</b>
1. 21001375	Samudi Perera	
2. 21001987	Kasun Udara	
3. 21000204	Saliya Bandara	
4. 21000549	Virajith Dissanayake	