



**Helwan University**

**Faculty of Commerce & Business Administration**

**Business Information Systems**



## **BIS Graduation Project**

# **Faculty Meeting Management System**

**Project No. (39)**

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## **Abstract**

The Faculty Meeting Management Application is a user-friendly solution created to enhance the management of college council meetings by streamlining various processes. It offers a seamless way for college council members and administrative staff to input, retrieve, and organize information related to meeting topics. Furthermore, it enables the tracking of decisions made during the meetings and facilitates the presentation of this information in a concise and easily understandable format. The application encompasses essential features like agenda management, decision tracking, document sharing, and effective communication tools. It can be accessed through multiple channels and positioned as a valuable solution for colleges and universities aiming to enhance the efficiency and effectiveness of their college council meetings

# **Chapter One: Introduction**

## **1.1 Introduction**

The Faculty Meeting Management Application is an innovative platform designed to simplify and streamline the management of college council meetings. By leveraging modern technology, this user-friendly application provides an efficient way for college council members and administrative staff to input and retrieve information related to college council meetings, track decisions, and communicate with each other in real-time. With features such as agenda management, decision tracking, document sharing, and communication tools, the College Council Meeting Management Application is a comprehensive solution to help improve the efficiency and effectiveness of college council meetings. This document provides an overview of the application's features and benefits, as well as detailed instructions for using the platform to manage college council meetings.

## **1.2 Problem Statement:**

We recognize the challenges faced by faculty board of directors during their monthly meetings. These challenges include:

- the cost of printing meeting outputs for all attendees.
- the time and effort required for manual handling of meetings by administrative staff.
- the difficulty in accessing meeting results from previous years.
- the risk of mistakes in manually recording meeting outputs.
- the challenge of tracking decision execution.

## **1.3 Project Objectives:**

Our project aims to provide a cost-effective solution for the faculty board's monthly meetings. By implementing our application, the administrative staff can print only one copy of the meeting output, while users can access the results through our platform. This saves money and time and eliminates the need for manual handling of meetings. Our application also enables easy access to meeting results from previous years, thus improving the efficiency and productivity of meetings. The accuracy of the final report is enhanced as the outputs are generated automatically. Additionally, our application facilitates decision tracking, allowing us to easily monitor the execution of decisions.

## **1.4 Literature review (existing Systems & problems)**

There are no systems providing the same services that we provide.

## **1.5 Project Functionality:**

1. Agenda Management: The application should allow users to create, organize, and manage meeting agendas. This includes the ability to add agenda items, assign time slots, and set priorities.
2. Meeting Scheduling: Users should be able to schedule faculty meetings, including selecting the date, time, and location. The application can also send automated meeting reminders to participants.
3. Document Management: The application should provide a central repository for storing and sharing meeting-related documents such as minutes, reports, presentations, and reference materials. Users should be able to upload, download, and collaborate on documents.
4. Decision Tracking: A feature that enables tracking and monitoring of decisions made during faculty meetings is crucial. Users should be able to record and assign action items, set deadlines, and track the progress of each decision or task.
5. Attendance Tracking: The application should allow users to track meeting attendance and generate attendance reports for record-keeping purposes.
6. Voting and Surveys: To gather faculty input and feedback, the application can incorporate features for conducting polls, surveys, and voting on specific topics or decisions.
7. Analytics and Reporting: The application can provide analytics and reporting capabilities, such as generating meeting summaries, tracking meeting statistics, and identifying trends or patterns in meeting outcomes.
8. User Roles and Permissions: The application should support different user roles, such as administrators, faculty members, and support staff, with varying levels of access and

## **1.6 Project Users**

Our system consists of Two Users:

- Admin
- Member

## **1.7 Project Requirements (Hardware & Software)**

Hardware Requirements:

- RAM: 4GB or higher
- Network Interface Card

Software Requirements:

- Chrome v37, Edge v79, Firefox v78, Opera v24 or Safari v15.4
- Windows Vista or higher

## **1.8 Project Tools & Languages**

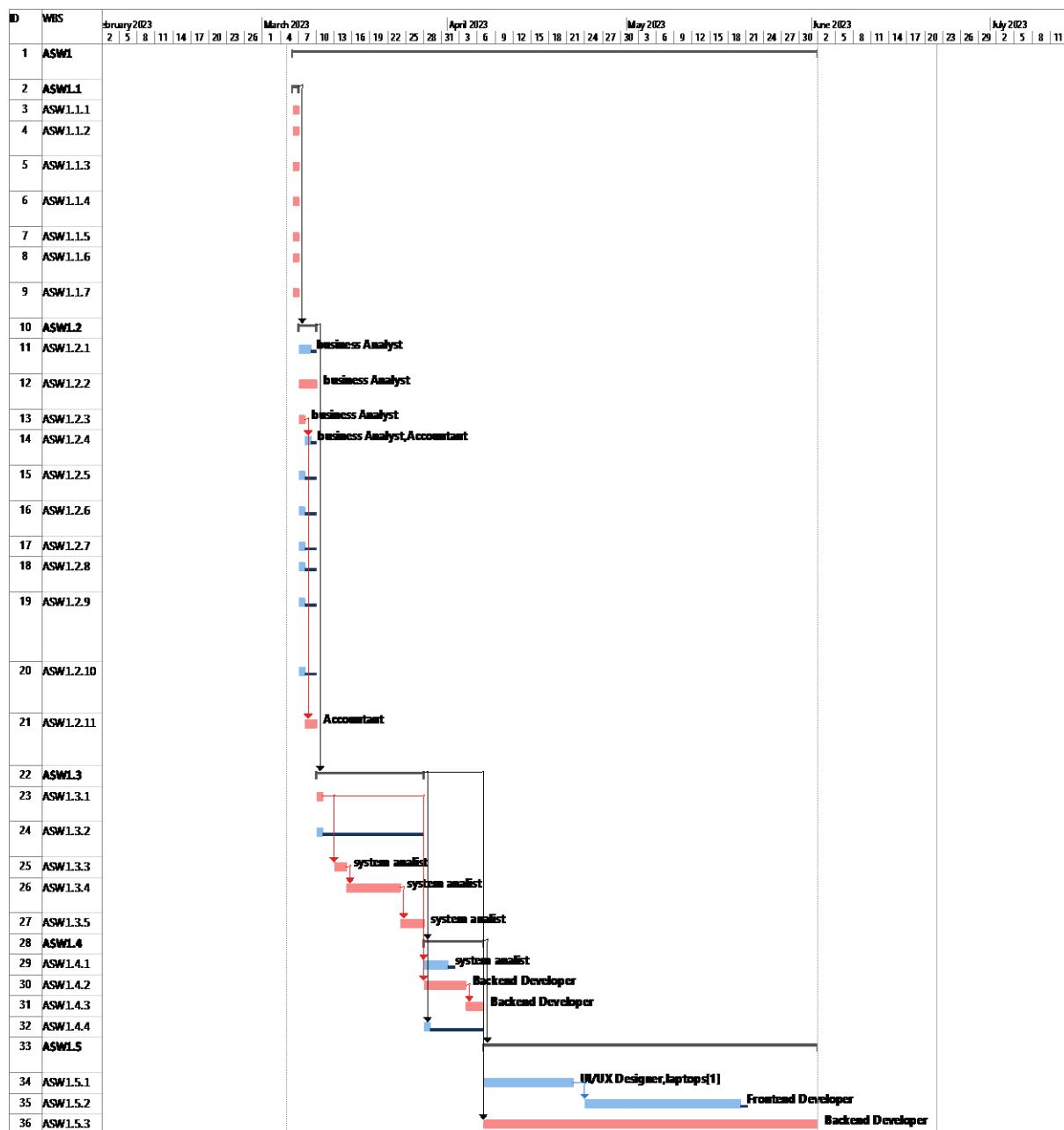
Tools:

- GitHub
- Visual Studio Code
- Figma
- PHPStorm
- Microsoft Visio
- XAMPP
- Microsoft Project
- Microsoft Teams
- Miro
- Discord
- Chrome Developer Tools
- MySQL Workbench

Languages:

- Git
- PHP
- HTML
- CSS
- JavaScript
- SQL

## 1.9 Project Schedule (Gantt Chart)



# **Chapter Two: Business Plan**

## **2.1 Executive Summary**

Name of service: Faculty meeting web application

Address: Faculty of commerce, Helwan university, Egypt

Email: comfac@commerce.helwan.edu.eg

Tel: +2 025 509 878

Type of service: Serving application

Service concept: A user-friendly platform for tracking, Presenting, and managing topics and decisions discussed during college council meetings

Users: College council members, administrative staff.

Number of jobs to be created: 5-10

## **2.2 Start-up Capital:**

Investment:

<b>Items</b>	<b>Year 1</b>
Meeting Software Purchase	EGP 60,000
One computer	EGP 7,000
One computer screen	EGP 1,500
One printer	EGP 3,000
Total Investment	EGP 71,500

Working Capital:

<b>Items</b>	<b>Year 1</b>
Salaries for admin	EGP 60,000
Hosting & Domain	EGP 1,800
System Maintenance & Development	EGP 12,000
Total Working Capital Required	EGP 73,800

Total Capital Required:

Items	Year 1
Total Investment Required	EGP 71,500
Total Working Capital Required	EGP 73,800
Total Capital Required	EGP 145,800

## 2.3 Business Idea and Market

### 2.3.1 Description of the Service

The College Faculty Management Application is a user-friendly platform designed to streamline the management of college council meetings. It provides an efficient way for college council members and administrative staff to input and retrieve information related to the topics discussed, track the progress of decisions made during the meetings, and present this information in a clear and concise manner.

The application includes features such as agenda, decision tracking, document sharing, and communication tools. The service can be made available through various channels and can be marketed to colleges and universities as a solution to improve the efficiency and effectiveness of their college council meetings.

### 2.3.2 Description of The Market

Geographical Area : Helwan University, Faculty of Commerce

Town : Egypt

Type of Service Users: College council members and administrative staff

Size of Total Market: Approximately 20-40 users

Description of competitors: No direct competitors within the university, although there may be other software solutions or manual processes used to manage college council meetings.

## **2.4 Vision**

### **What are our hopes and dreams?**

To become the go-to management application for college councils, empowering them with the tools they need to make informed decisions and drive positive change in their academic communities.

### **What problem are we solving?**

Manual, Inefficient and disorganized management of college council meetings.

### **Who and what are we inspiring to change?**

College council members, by providing them with the tools they need to manage their meetings more efficiently and effectively. The Application is promoting collaboration, transparency, and accountability in the management of college council meetings, which can ultimately lead to better academic policies, curricula, and other important matters related to the college.

## **2.5 Mission**

### **What do we do?**

We provide a platform for managing Faculty Meeting Application that simplifies the process of tracking, organizing, and presenting information generated during these meetings.

### **Whom do we serve?**

We serve administrators, faculty members who are involved in Faculty Meeting Application and responsible for making informed decisions regarding academic policies, curricula, and other important matters related to the college.

### **How do we serve them?**

We serve them by providing an efficient platform that helps them manage and organize the information generated during college council meetings. This platform simplifies the process of tracking, organizing, and presenting information, which allows administrators, faculty members to make informed decisions regarding academic policies and other important matters related to the college.

## 2.6 Analysis of Current Situation

Strengths	Weaknesses
Creative Thinking for BIS Students	
The application offers a user-friendly platform for tracking and presenting topics and decisions	There may be resistance to adopting new technology among some council members
The application streamlines the management of college council meetings	There may be concerns about the security and privacy of information stored in the application
The application improves communication and collaboration among council members	The application may require significant resources to develop and implement
The application allows users to easily input and retrieve information	There may be a learning curve for some users who are not familiar with the technology

## 2.7 Standards of Success

	<b>Before</b>	<b>After</b>
<b>Saving Time</b>	Time-consuming manual processes for tracking and presenting topics and decisions.	More efficient and Streamlined management of college council meetings, saving time for users.
<b>Rationalization Standards (accuracy)</b>	Inconsistent or incomplete tracking of topics and decisions	More accurate and Comprehensive tracking of topics and decisions, ensuring that all information is captured and easily retrievable
<b>Satisfying the Needs of Service Users</b>	Limited collaboration and communication among council members, potentially leading to misunderstandings and misaligned decisions.	Improved communication and collaboration among council members, ensuring that everyone stays informed and engaged throughout the decision-making process.
<b>Procedures of obtaining the Service</b>	Complex and time consuming processes for obtaining and organizing information related to college council meetings	Simplified and user-friendly processes for obtaining and organizing information related to college council meetings, resulting in increased accessibility and ease of use for users.
<b>Achieving Surplus</b>	Inefficient use of resources, such as time and personnel.	More efficient use of resources, resulting in potential cost savings and surplus.

## **2.8 Service Users' Segmentation**

The faculty council meeting management application is designed for two primary user groups:

- 1- Faculty council members
- 2- Administrative staff

## **2.9 Marketing Plan**

The 4Ps of Marketing

1- Product:

The application for managing the Faculty Meetings and decisions, with user-friendly platform for tracking and presenting topics and decisions, easy input, retrieval of information and progress tracking of decisions.

2- Price:

The application will be offered free of charge to all users, with no subscription or pricing tiers.

3- Place:

Internal Platform for The Faculty which is available for council members and administrative staff.

4- Promotion:

the promotion strategy should focus on highlighting the benefits of the serving app, such as timesaving, cost-cutting, and productivity improvements. The communication from staff affairs about the change to the web application can be a key message in the promotion efforts, emphasizing the ongoing efforts to develop the faculty and improve the user experience, or the faculty may provide a promotion about it through other channels such as the faculty website.

## **2.10 Organization and Staff**

**1- Organization of the business:** Helwan University

**2- Staff Requirements:**

2-1- Ordinary Users (Council Members)

Responsibility:

- Attend the meetings regularly and participate actively in the discussions.
- View the Subjects of the meetings.
- Vote for the decisions.
- Provide feedback on the system and suggest improvements as needed

Qualifications:

- Familiarity with the faculty meeting process
- Communication skills
- Attention to detail
- Time management skills

2-2- Admin Users

Responsibility:

- Manage user accounts and permissions for the system
- Schedule meetings and set up the agendas for the meetings
- Track and follow up on action items from the meetings
- Store and retrieve documents that are relevant to the meetings
- Provide technical support to the users as needed
- Ensure that the system is functioning properly and troubleshoot any issues that arise
- Provide training and support to the users as needed
- Monitor the security and confidentiality of the information in the system
- Analyze the usage and effectiveness of the system and suggest improvements as needed

Qualifications:

- Familiarity with the faculty meeting process and technical aspects of the system

- Technical proficiency
- Communication skills
- Attention to detail
- Time management skills
- Analytical skills
- Security and confidentiality awareness

## 2-3- Technical Team

### Responsibility:

- Install, configure, and maintain the hardware and software required for the system
- Monitor the system for performance and security issues and take appropriate measures to address them
- Provide technical support to the admin and ordinary users as needed
- Ensure that the system is backed up regularly and that data recovery processes are in place
- Implement and manage network security measures to prevent unauthorized access to the system and its data
- Analyze the usage and effectiveness of the system and suggest improvements as needed
- Stay up to date with new technologies and best practices related to meeting management systems

### Qualifications:

- Technical proficiency
- Experience in system administration
- Troubleshooting skills
- Communication skills
- Attention to detail
- Time management skills
- Continuous learning mindset

## **2.11 Planned Organization Chart**

Map of organization:

- Dean and Admin users: Manage the system and provide technical support to users
- Ordinary users: Attend meetings, participate actively, and follow up on action items
- Technical team: Install, maintain, and support the hardware and software required for the system.

## **2.12 Qualitative Characteristics of Useful Information**

Fundamental Characteristics:

Qualitative Characteristic	Description
<b>Relevance</b>	<p>The application is highly relevant to the needs of college councils, as it provides a streamlined and efficient way to manage meetings and track important information. The application allows users to easily schedule meetings, set agendas, take minutes, assign tasks, and track action items, ensuring that all relevant information is captured. By providing a centralized platform for communication and collaboration, the application helps to ensure that all council members are informed and engaged in the decision-making process.</p>
<b>Faithful Representation</b>	<p>The application offers a faithful representation of the college council's meetings and decisions by capturing and organizing meeting minutes, action items, and other critical information. This is done in a clear and concise manner, ensuring that all council members have access to the same information and facilitating informed decision-making based on a complete and accurate record of proceedings.</p>

Enhancing characteristics:

Qualitative Characteristic	Description
<b>Comparability</b>	<p>The application enables comparability of Faculty Meeting Application By providing a consistent and standardized method of managing and tracking information.</p> <p>By capturing meeting agendas, action items, and other critical information in a consistent format, the application allows for easy comparison and analysis of different council meetings.</p>
<b>Verifiability</b>	<p>The application provides verifiability of council decisions by ensuring that all meeting agendas and action items are accurately recorded and easily accessible.</p> <p>This allows for easy verification of decisions made during council meetings and provides a secure and auditable record of all council activities.</p>
<b>Understandability</b>	<p>The application ensures timeliness of council meetings by providing a streamlined and efficient way to manage meetings and track important information.</p> <p>By allowing for easy scheduling, agenda-setting, and action item tracking, the application ensures that all council meetings are conducted in a timely manner and that all relevant information is captured and readily accessible</p>
<b>Effectiveness</b>	<p>The application is effective in tracking important information and managing the decision-making process of college councils.</p> <p>The application's features ensure that all relevant information is captured and readily accessible, facilitating informed decision-making by council members.</p>

<b>Mission Criticality</b>	<p>The application is mission-critical for college councils as it provides a centralized platform for communication and collaboration, ensuring that all council members are informed.</p> <p>The application's ability to capture and organize meeting agendas and action items ensures that all council decisions are based on a complete and accurate record of proceedings.</p>
<b>Utilization</b>	<p>The application is highly utilized by college councils as its features make it accessible to all council members, facilitating collaboration and decision-making.</p>
<b>Complexity</b>	<p>The application is designed with a user-friendly interface that simplifies meeting management and information tracking.</p> <p>The application's features and functionality are intuitive and straightforward, minimizing complexity and ensuring ease of use.</p>
<b>Usability</b>	<p>The application is highly usable, with a user-friendly interface that makes it accessible to all council members.</p> <p>The application's features and functionality are designed to be easy to understand and use, ensuring that all users can navigate the application with minimal training or support.</p>

## 2.13 Technical Questions About the Service

Qualitative Characteristic	Description
<b>Hardware and Software Version Control</b>	<p>The application is designed to be compatible with a variety of hardware and software platforms, ensuring that it can be used by all council members regardless of their device or operating system. It also includes version control features that allow users to track changes to meeting agendas and action items over time, ensuring that all council decisions are based on the most up-to-date information and that any modifications to meeting agendas or action items are clearly documented and tracked.</p>
<b>Adaptability and Scalability</b>	<p>The application is designed to be both adaptable and scalable, meaning that it can be customized to meet the specific needs of different college councils and can accommodate a growing number of users and meetings without sacrificing performance or functionality. As the college council expands or changes, the application can adapt to meet its evolving needs.</p>
<b>Security</b>	<p>1- Encryption: The system is designed so that all data related to college council meetings is transmitted and stored in an encrypted format, making it difficult for unauthorized users to access the data.</p> <p>2- Role-based access control: A role-based access control system limits access to specific features and data based on the user's role, ensuring that users only have access to the information they need to perform their job functions.</p> <p>3- Regular security updates: Regular security updates are included to keep the application up-to-date with the latest security standards and to stay ahead of emerging threats and vulnerabilities.</p>

# Chapter Three: System Analysis

## 3.1 Functional Requirements

- **Admin Functional Requirements:**
  - Login
  - Add and modify yearly formation
  - Add and modify user
  - Add and modify meeting
  - Track attendance
  - Add and modify subject
  - Confirm all subject
  - Search and filtration
  - Add and modify decision
  - View and download agenda
  - View and download discussed subject
  - Upload final meeting attachment
  - View and track executive decision
  - View votes
  - Confirm all meeting
- **User Functional Requirements:**
  - Login
  - Show subject of each meeting
  - Voting on subject
  - Search
  - View and download meeting agenda
  - View and download final meeting attachment

## 3.2 Non-Functional Requirements

Non-functional requirements or NFRs are a set of specifications that describe the system's operation capabilities and constraints and attempt to improve its functionality. They include:

- **Performance:** The website's performance has been tested multiple times with a variety of tools, such as the built-in browser Lighthouse and WebVitals extension, and used the JavaScript modules approach that splits the main JavaScript file into smaller files to reduce the load in the pages and minimize resource consuming

- **Security:** The system is designed so that all data related to college council meetings is transmitted and stored in an encrypted format, making it difficult for unauthorized users to access the data, and it provides multiple security mechanisms, such as password hashing before database insertion, and prepared statements in order to protect against SQL Injections, so that passwords remain secure, and role-based access control system that limits access to specific features and data based on the user's role, ensuring that users only have access to the information they need to perform their job functions
- **Availability:** The application is mission-critical for college councils as it provides a centralized platform for communication and collaboration, ensuring that all council members are informed. The application's ability to capture and organize meeting agendas and action items ensures that all council decisions are based on a complete and accurate record of proceedings
- **Data Integrity:** is the maintenance of, and the assurance of, data accuracy and consistency over its entire life cycle, and is a critical aspect to the design, implementation, and usage of any system that stores, processes, or retrieves data. The term is broad in scope and may have widely different meanings depending on the specific context – even under the same general umbrella of computing
- **Reliability:** The application is highly usable, with a user-friendly interface that makes it accessible to all council members. The application's features and functionality are designed to be easy to understand and use, ensuring that all users can navigate the application with minimal training or support

### 3.3 UML Scenario Diagrams

It is easy to mix up the definitions of use case and use case scenario. A use case represents the actions that are required to enable or abandon a goal, It has multiple “paths” that can be taken by any user at any one time, and is a single path through the use case.

Scenario 1: Login

<b>Use Case Name:</b>	Login
<b>Actors:</b>	User & Admin
<b>Preconditions:</b>	Admin & User must have a valid account
<b>Steps:</b>	1- Fill Email and Password 2- Validate Username and Password 3- Validate user status 4- Validate user role 5- Click Login
<b>Actions:</b>	Admin and Users enter the site

Scenario 2: Add/Modify Yearly Formation

<b>Use Case Name:</b>	Add/Modify Yearly Formation
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be a current formation
<b>Steps:</b>	1- Enter formation page 2- Click add new formation 3- Click on modification button
<b>Actions:</b>	Admin can add new formation, modify formation, assign users to formation, show formation meetings, view formation users & move formation to old formations

### Scenario 3: Add/Modify User

<b>Use Case Name:</b>	Add/Modify User
<b>Actors:</b>	Admin
<b>Preconditions:</b>	Admin must be active
<b>Steps:</b>	1- Enter user page 2- Click add new user 3- Click on modification button
<b>Actions:</b>	Admin can add users, modify user data, view user details & deactivate users

### Scenario 4: Add/Modify Meeting

<b>Use Case Name:</b>	Add/Modify Meeting
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be no current meetings
<b>Steps:</b>	1- Enter meeting page 2- Click add new meeting 3- Click on modification button
<b>Actions:</b>	Admin can add meetings, modify meetings, assign users to meetings, show meeting members, move meetings to old meetings & make meetings visible to members

### Scenario 5: Track attendance

<b>Use Case Name:</b>	Track attendance
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be a current meeting
<b>Steps:</b>	1- Enter meeting page 2- Click track attendance button 3- Check the attendees 4- Click submit button
<b>Actions:</b>	Admin can add & remove attendees

### Scenario 6: Add/Modify Subjects

<b>Use Case Name:</b>	Add/Modify Subjects
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be a confirmed current meeting
<b>Steps:</b>	1- Enter meeting page 2- Click on the subject button 3- Click on add button 4- Enter subject info and click submit button
<b>Actions:</b>	Admin can add and modify subjects

### Scenario 7: Search

<b>Use Case Name:</b>	Search
<b>Actors:</b>	Admin & User
<b>Preconditions:</b>	Item to be searched must exist
<b>Steps:</b>	1- Click on search input 2- Enter the text to be searched 3- Click on search button
<b>Actions:</b>	Admin and users can search

### Scenario 8: Add/Modify Decisions

<b>Use Case Name:</b>	Add/Modify Decisions
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be a confirmed current meeting
<b>Steps:</b>	1- Enter meeting page 2- Click on the subject button 3- Click on add decision button 4- Enter decision info and click submit button
<b>Actions:</b>	Admin can add and modify decisions

### Scenario 9: View/Download Agenda

<b>Use Case Name:</b>	View/Download Agenda
<b>Actors:</b>	Admin & User
<b>Preconditions:</b>	There must be a confirmed current meeting
<b>Steps:</b>	1- Enter meeting page 2- Click on the agenda button 3- Click on print button
<b>Actions:</b>	Admin and users can view or download the agenda

### Scenario 10: View/Download Discussed Subjects

<b>Use Case Name:</b>	View/Download Discussed Subjects
<b>Actors:</b>	Admin & User
<b>Preconditions:</b>	There must be a meeting with subjects that contain decisions
<b>Steps:</b>	1- Enter meeting page 2- Click on the discussed button 3- Click on print button
<b>Actions:</b>	Admin and users can view or download the discussed subjects

### Scenario 11: View/Upload Final Meeting file

<b>Use Case Name:</b>	View/Upload Final Meeting file
<b>Actors:</b>	Admin & User
<b>Preconditions:</b>	There must be a finished meeting
<b>Steps:</b>	1- Enter meeting page 2- Click on the final meeting upload button 3- Click on print button
<b>Actions:</b>	Admin and users can view or upload the final meeting file

### Scenario 12: View/Track Executive Decisions

<b>Use Case Name:</b>	View/Track Executive Decisions
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be an executive decision
<b>Steps:</b>	1- Enter executive decisions page 2- Choose filtration criteria 3- Click on details button 4- Click on status button
<b>Actions:</b>	Admin can view or track executive decision and modify executive decision status

### Scenario 13: View Votes

<b>Use Case Name:</b>	View Votes
<b>Actors:</b>	Admin
<b>Preconditions:</b>	There must be votes
<b>Steps:</b>	1- Enter all subjects' page 2- Click on view votes button
<b>Actions:</b>	Admin can view votes

### Scenario 14: Vote on subjects

<b>Use Case Name:</b>	Vote on subjects
<b>Actors:</b>	User
<b>Preconditions:</b>	There must be a current visible meeting
<b>Steps:</b>	1- Enter current meeting subjects' page 2- Click on the voting button 3- Choose your vote 4- Click on submit button
<b>Actions:</b>	Users can vote on subjects

### 3.4 UML Use Case Diagram

A use case diagram is a type of UML (Unified Modeling Language) diagram that is used to visualize and describe the interactions between users, systems, and external entities in a specific system or application. It provides a high-level view of the system's functionality and the actors (users or other systems) involved in each of its use cases.

In a use case diagram, use cases are represented as ovals and actors are represented as stick figures or other shapes. The use case ovals are connected to actors with lines, representing the interactions between them. The use case descriptions and details are usually not included in the diagram itself but are described in separate documentation.

#### 3.4-1 User Use Case Diagram:



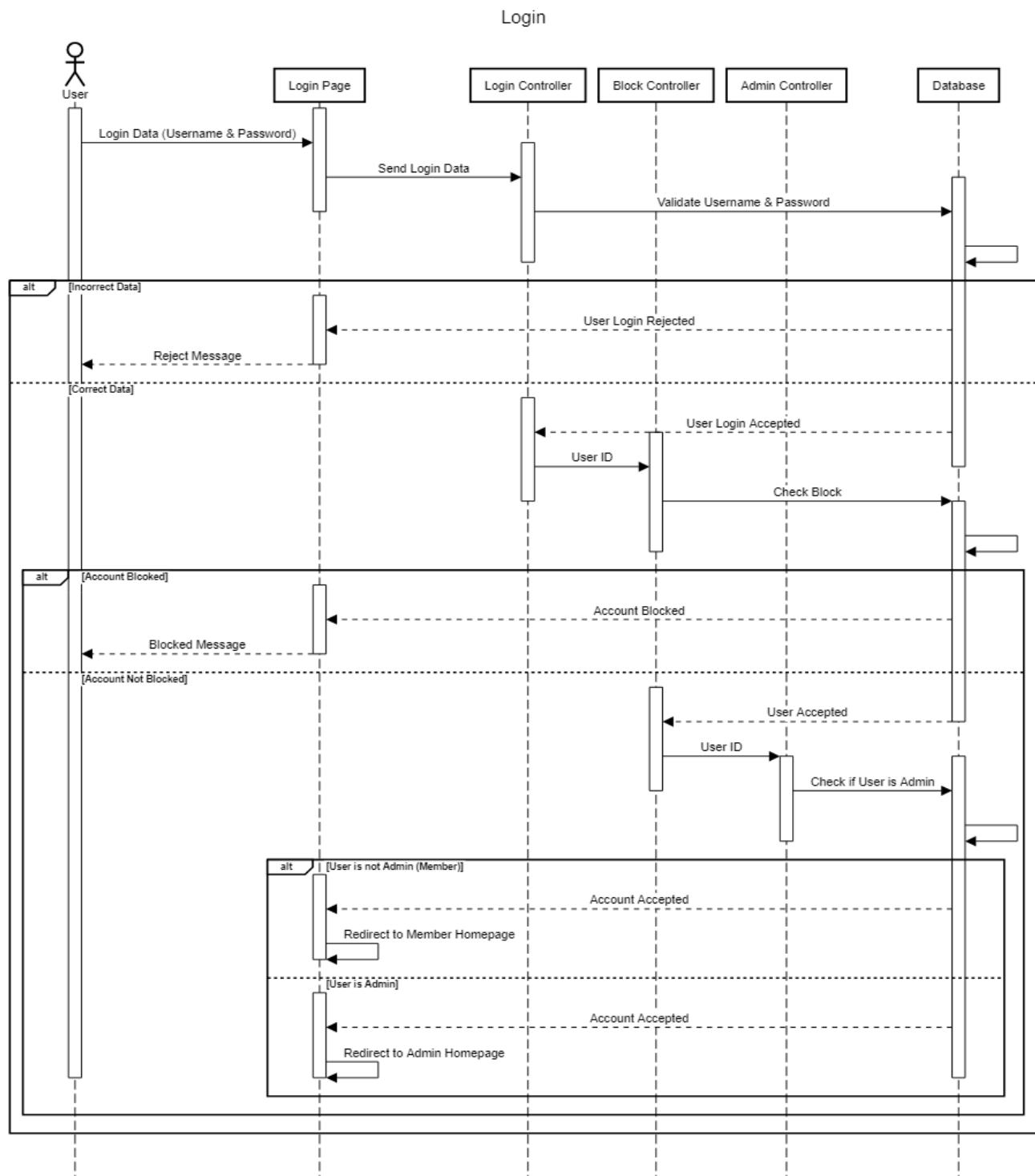
### 3.4-2 Admin Use Case Diagram:



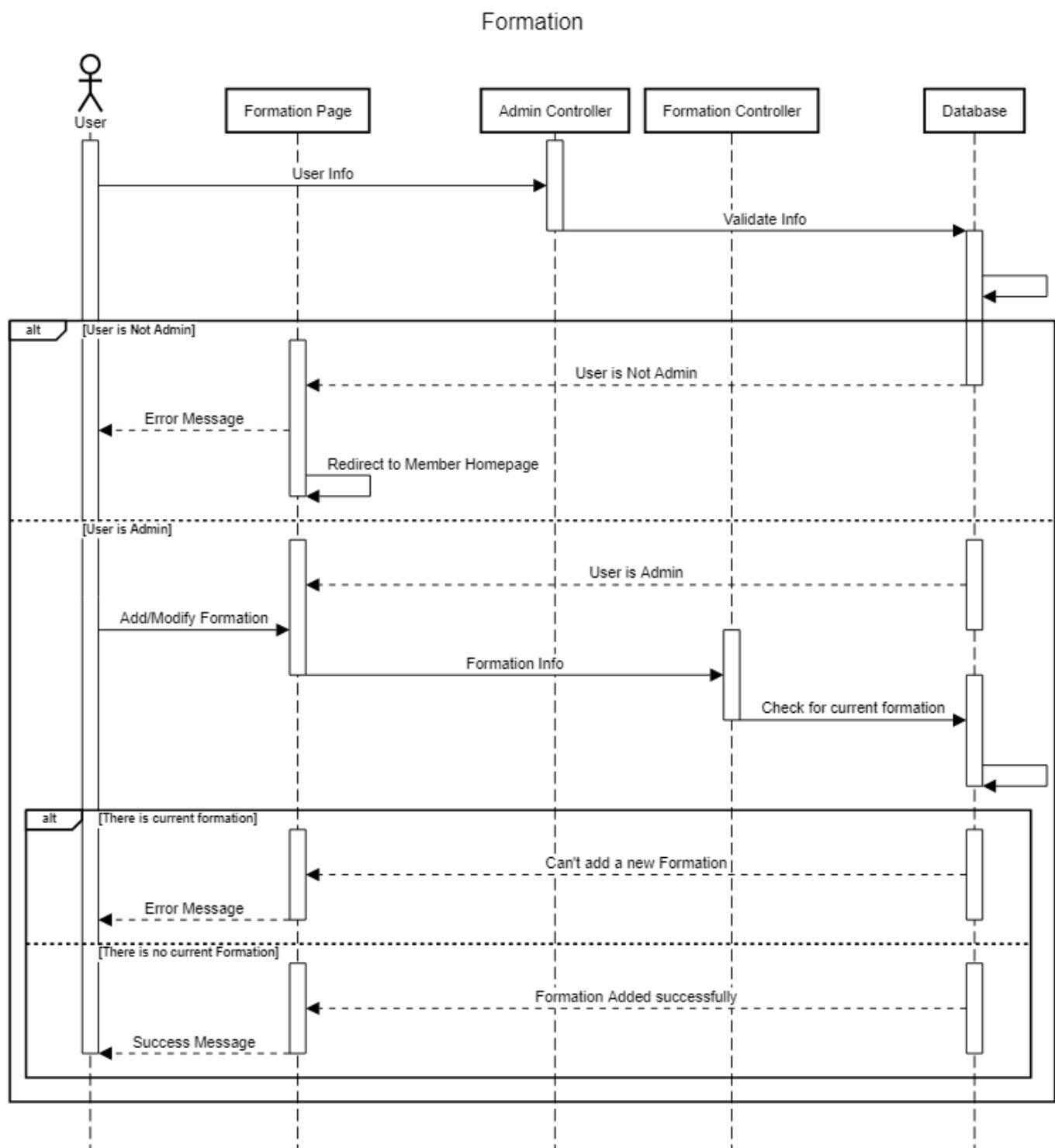
## 3.5 UML Sequence Diagrams

A sequence diagram is an interaction diagram that shows how objects operate with one another and in what order. A sequence diagram shows object interactions arranged in time sequence.

1- Login Sequence Diagram:

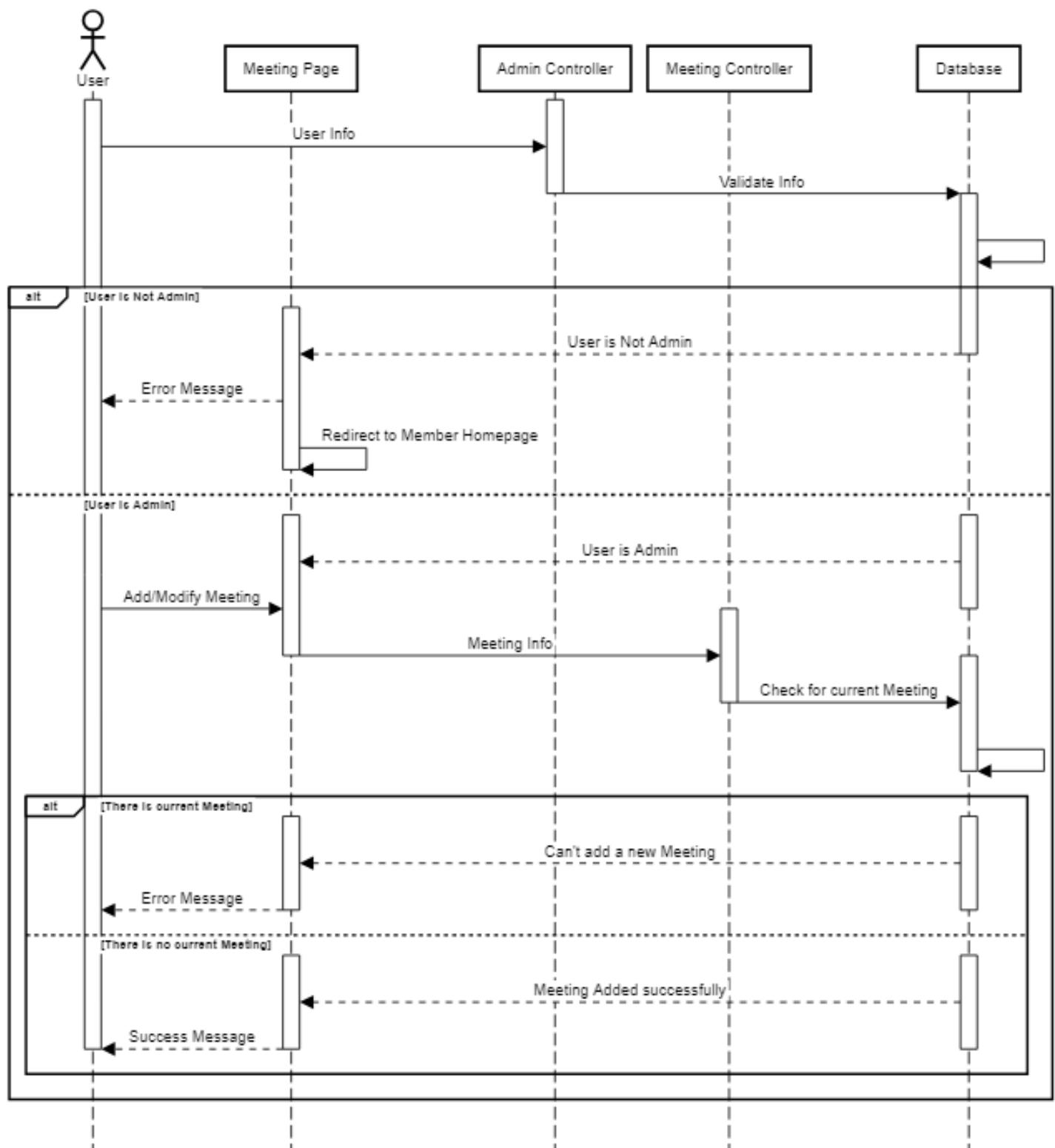


## 2- Formation Sequence Diagram:



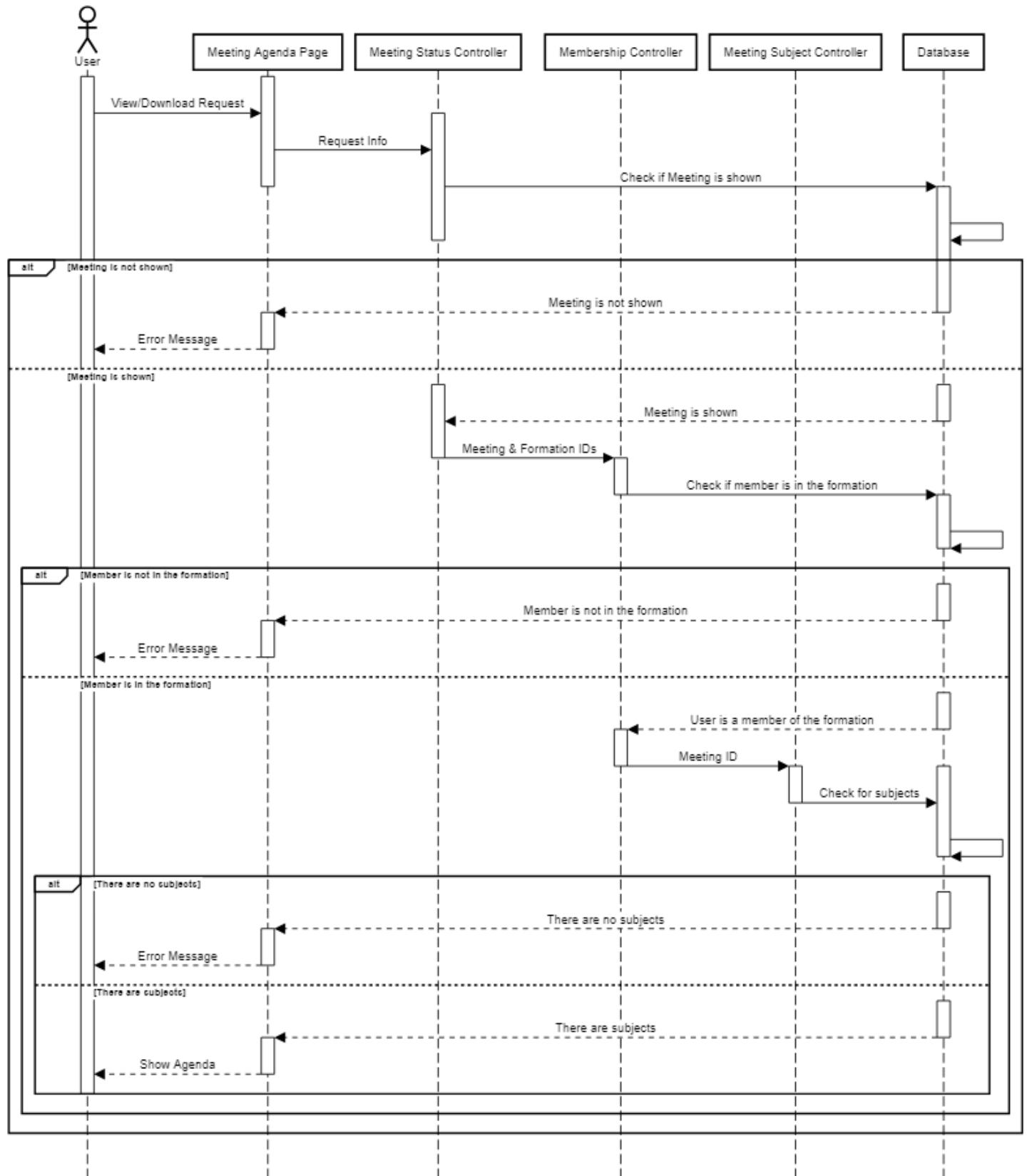
### 3- Meeting Sequence Diagram:

Meeting

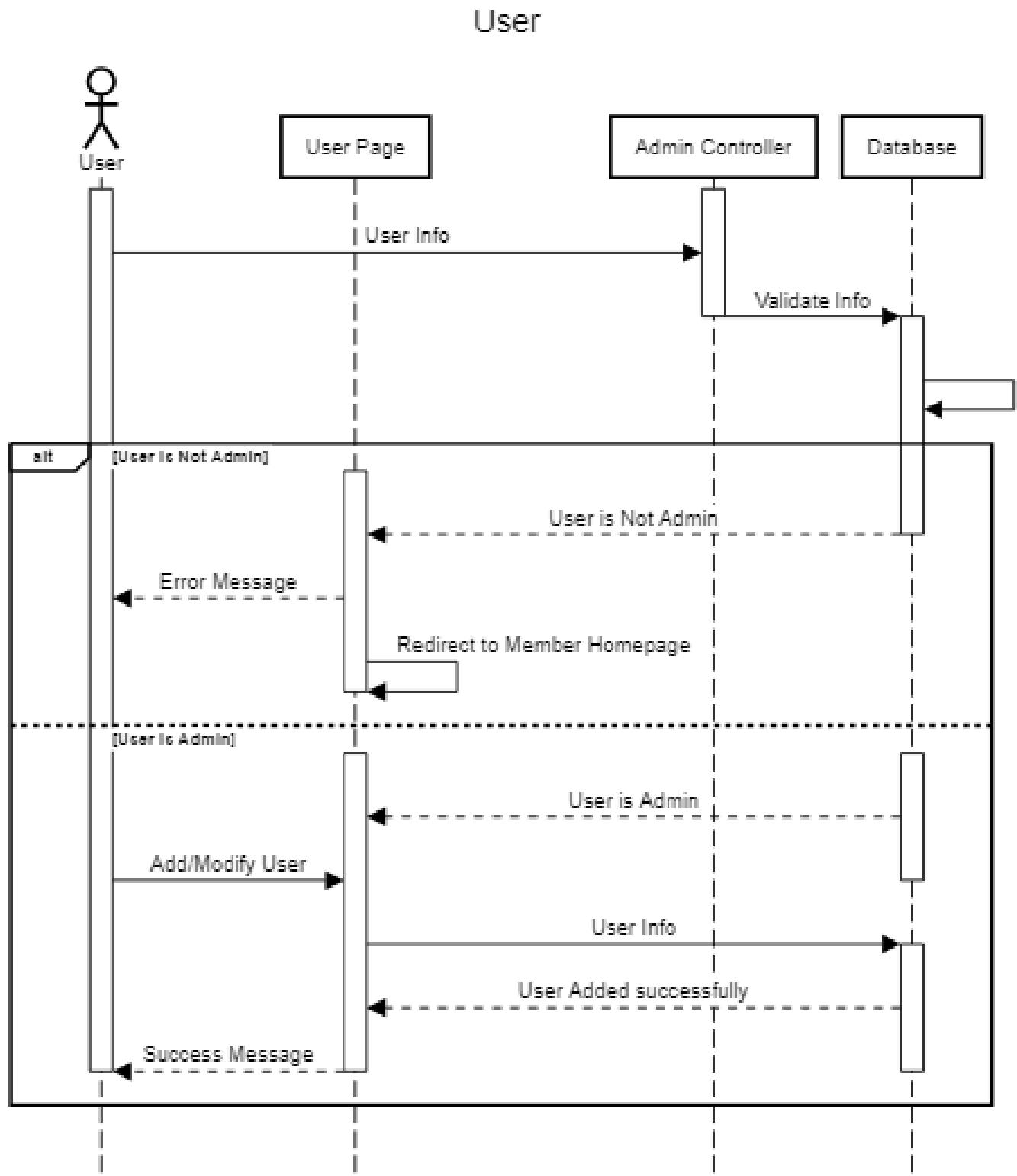


#### 4- Meeting Agenda Sequence Diagram:

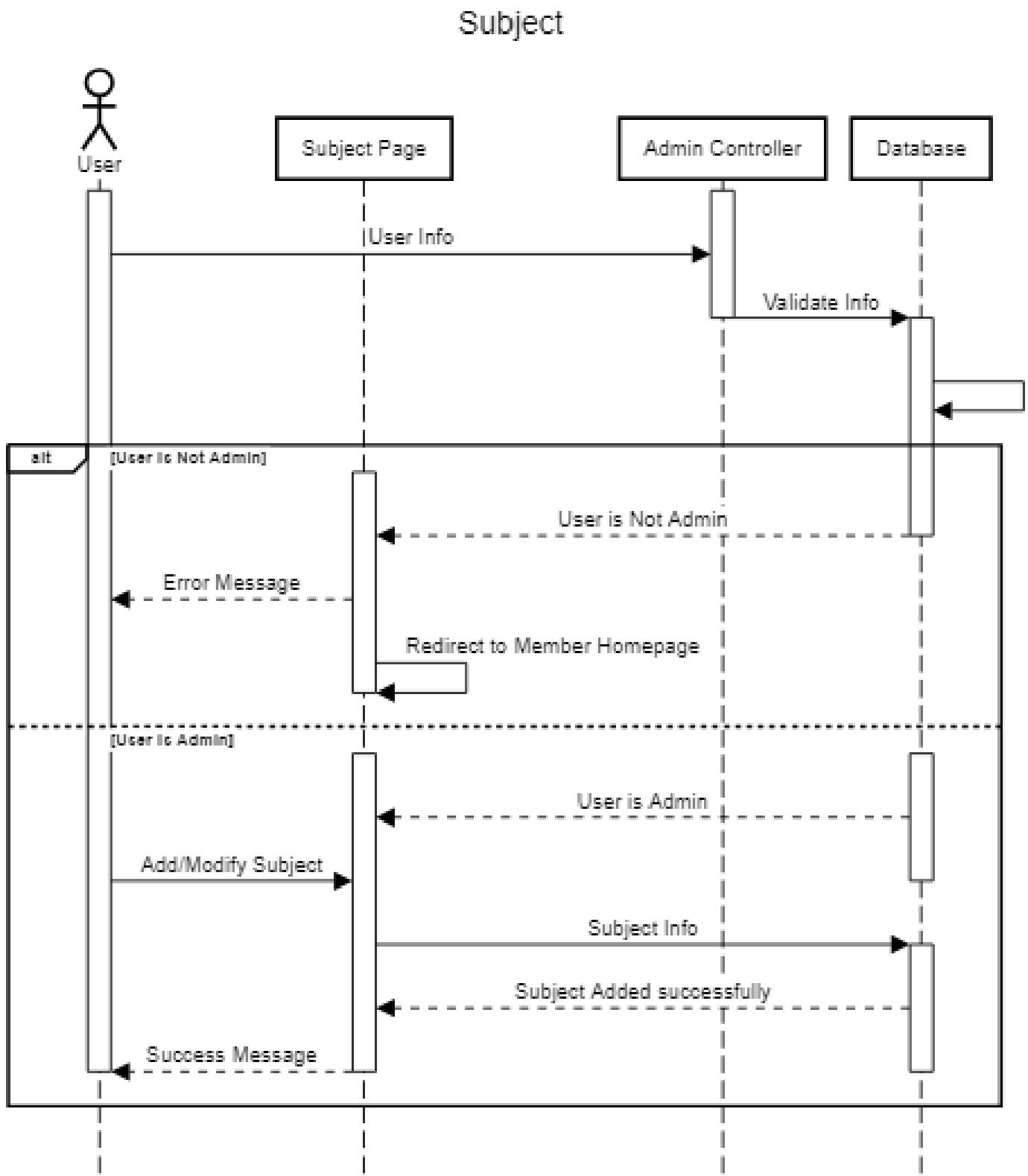
Meeting Agenda



## 5- User Sequence Diagram:

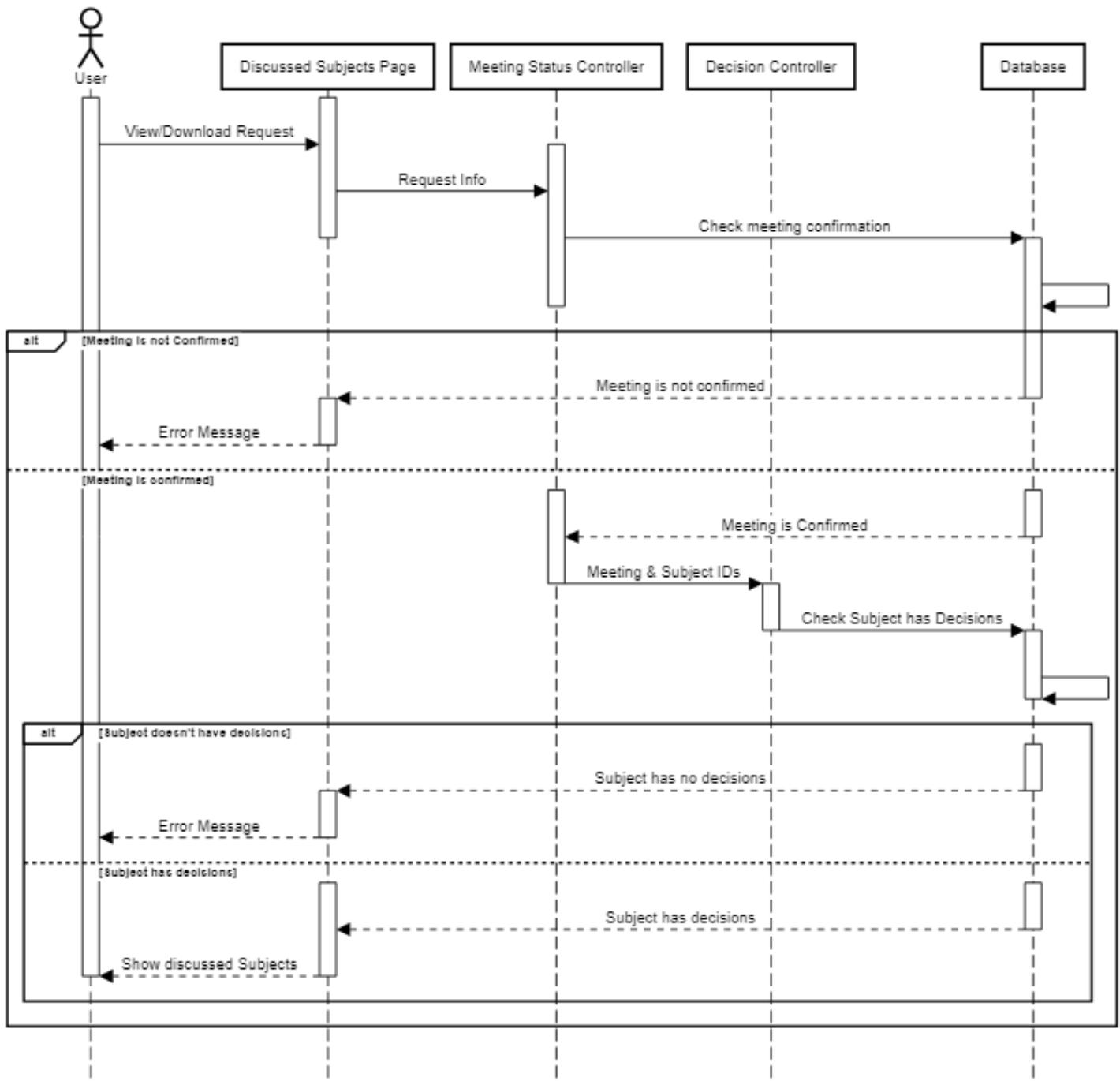


## 6- Subjects Sequence Diagram:



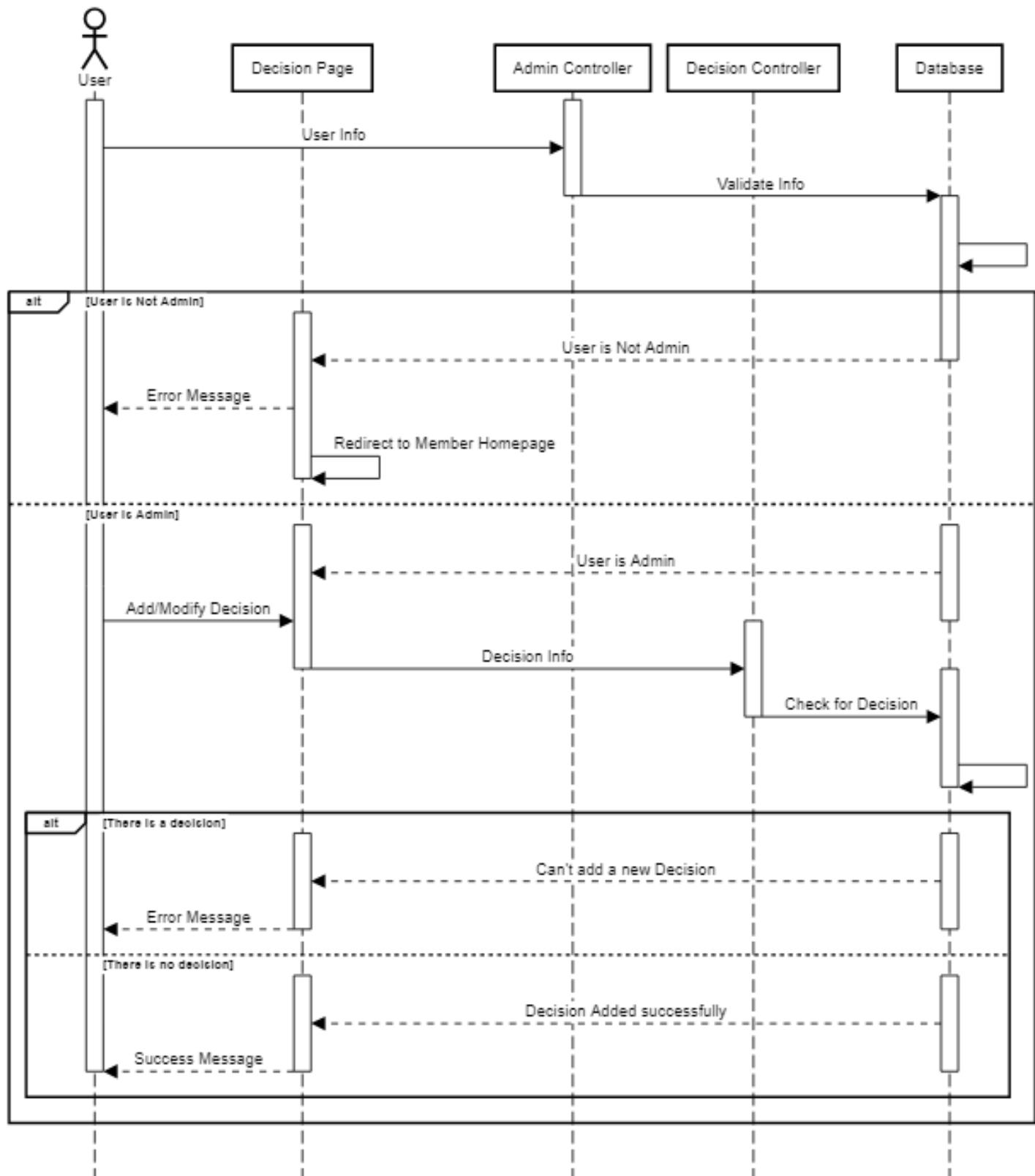
## 7- Discussed Subjects Sequence Diagram

Discussed Subjects

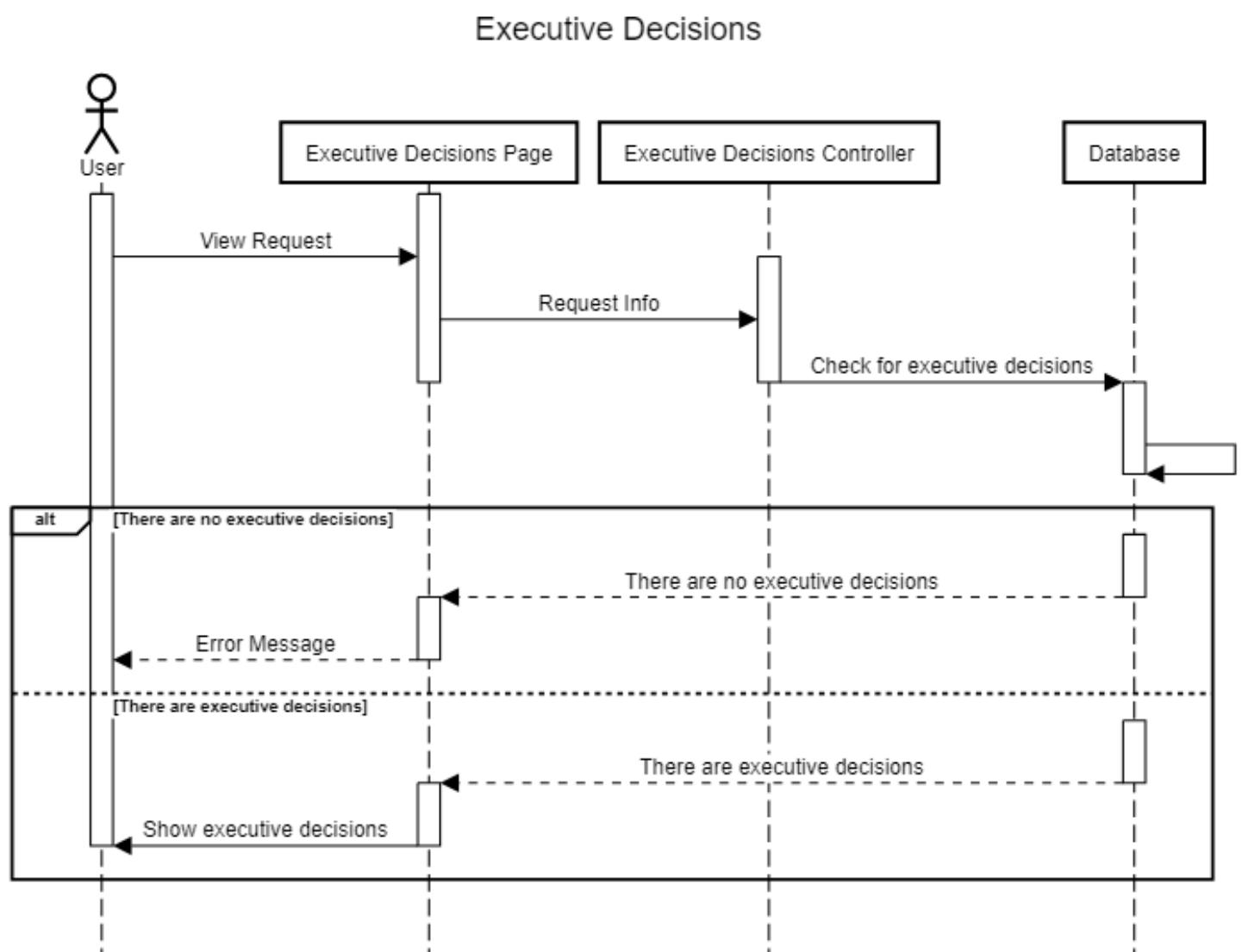


## 8- Decision Sequence Diagram:

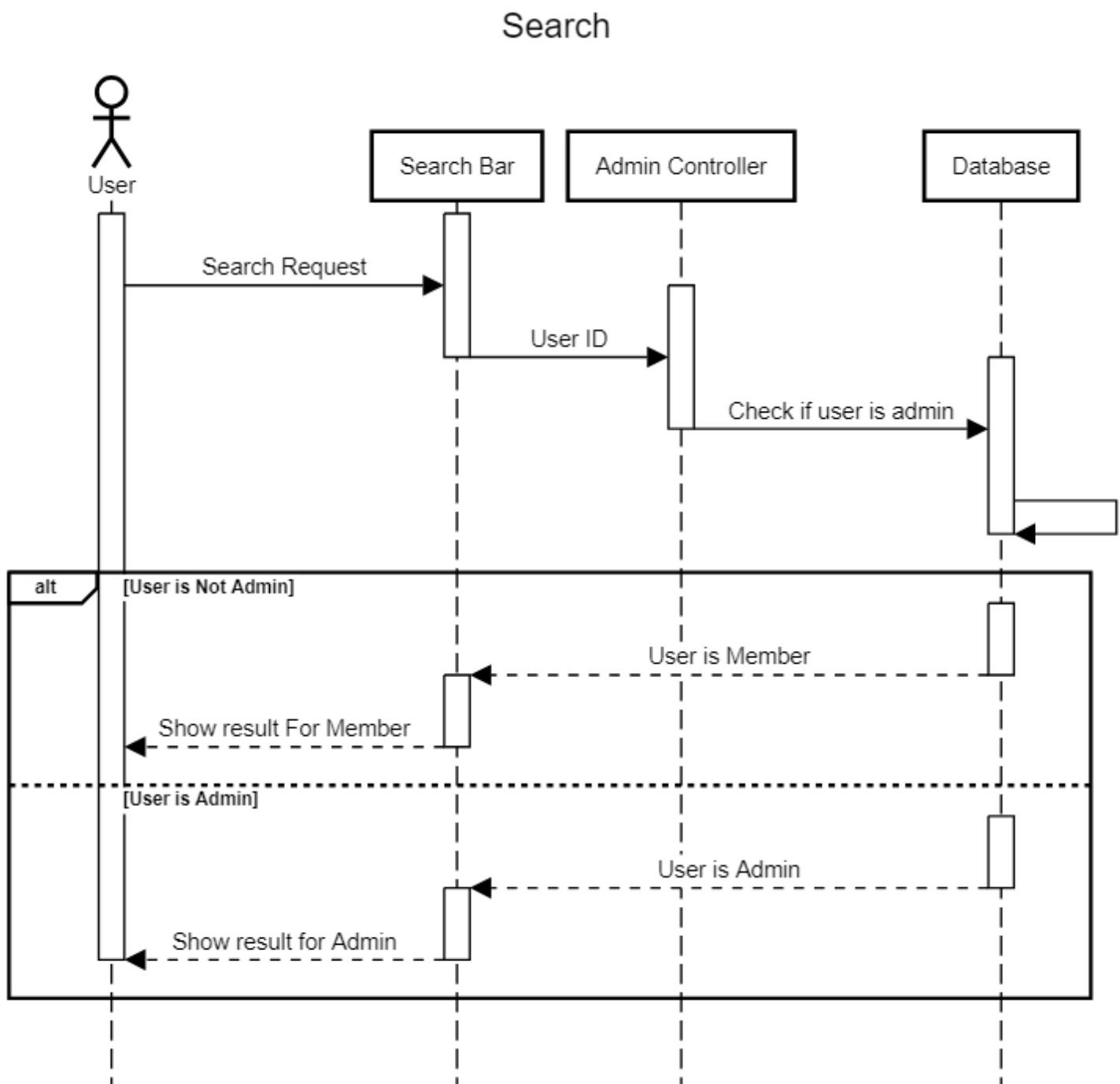
Decision



## 9- Executive Decisions Sequence Diagram:



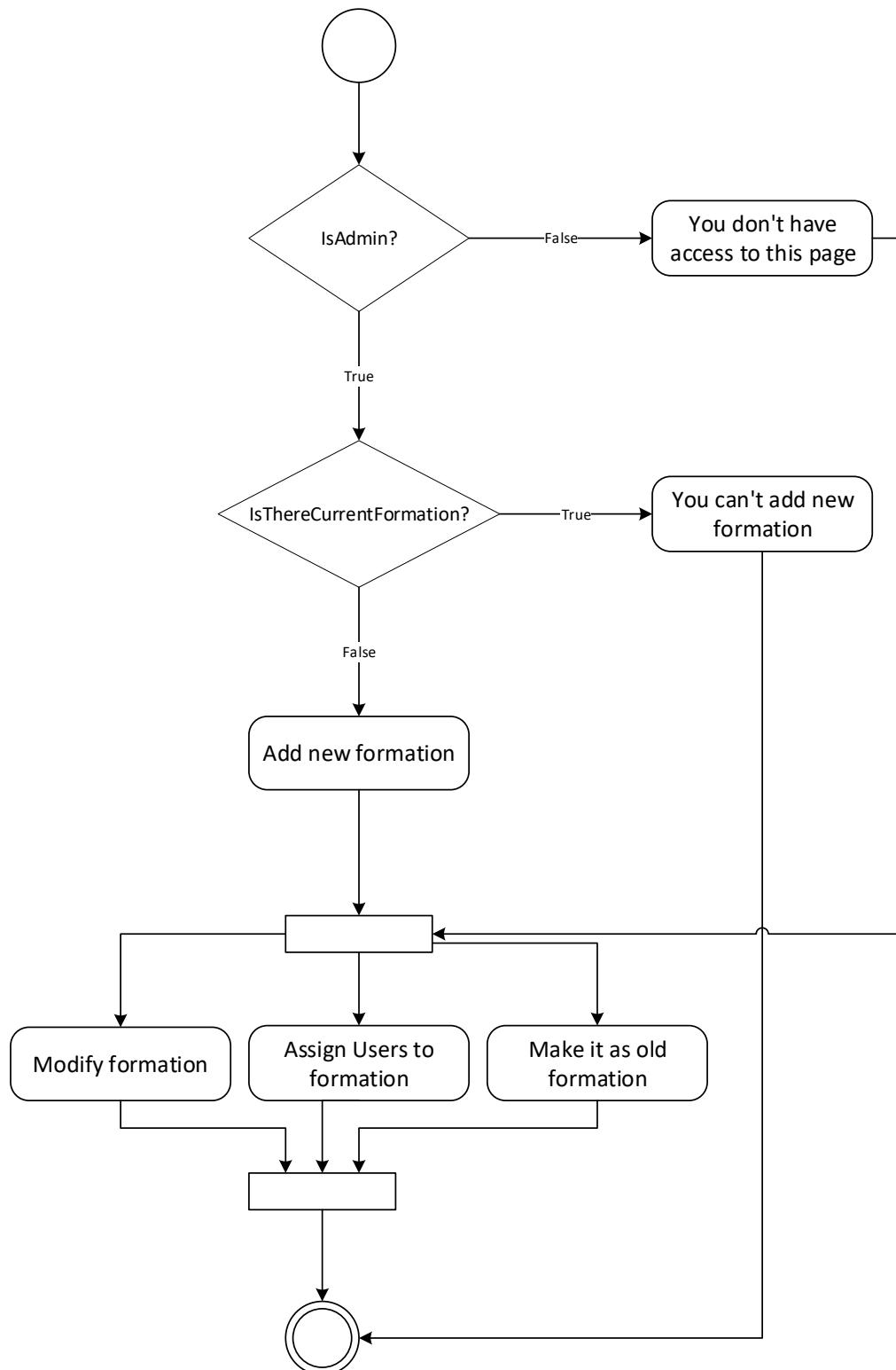
## 10- Search Sequence Diagram:



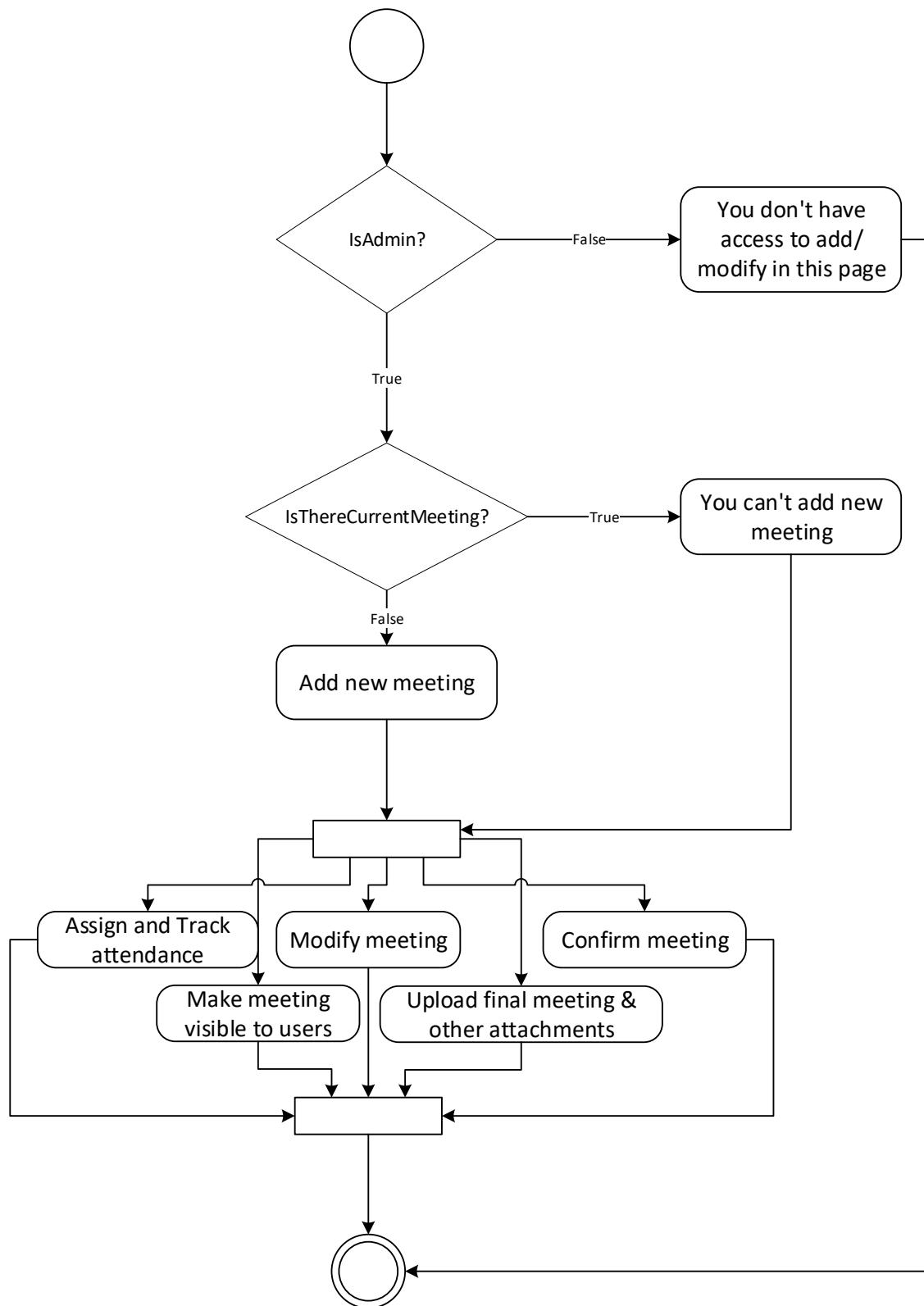
# Chapter Four: System Design

## 4.1 UML Activity Diagram

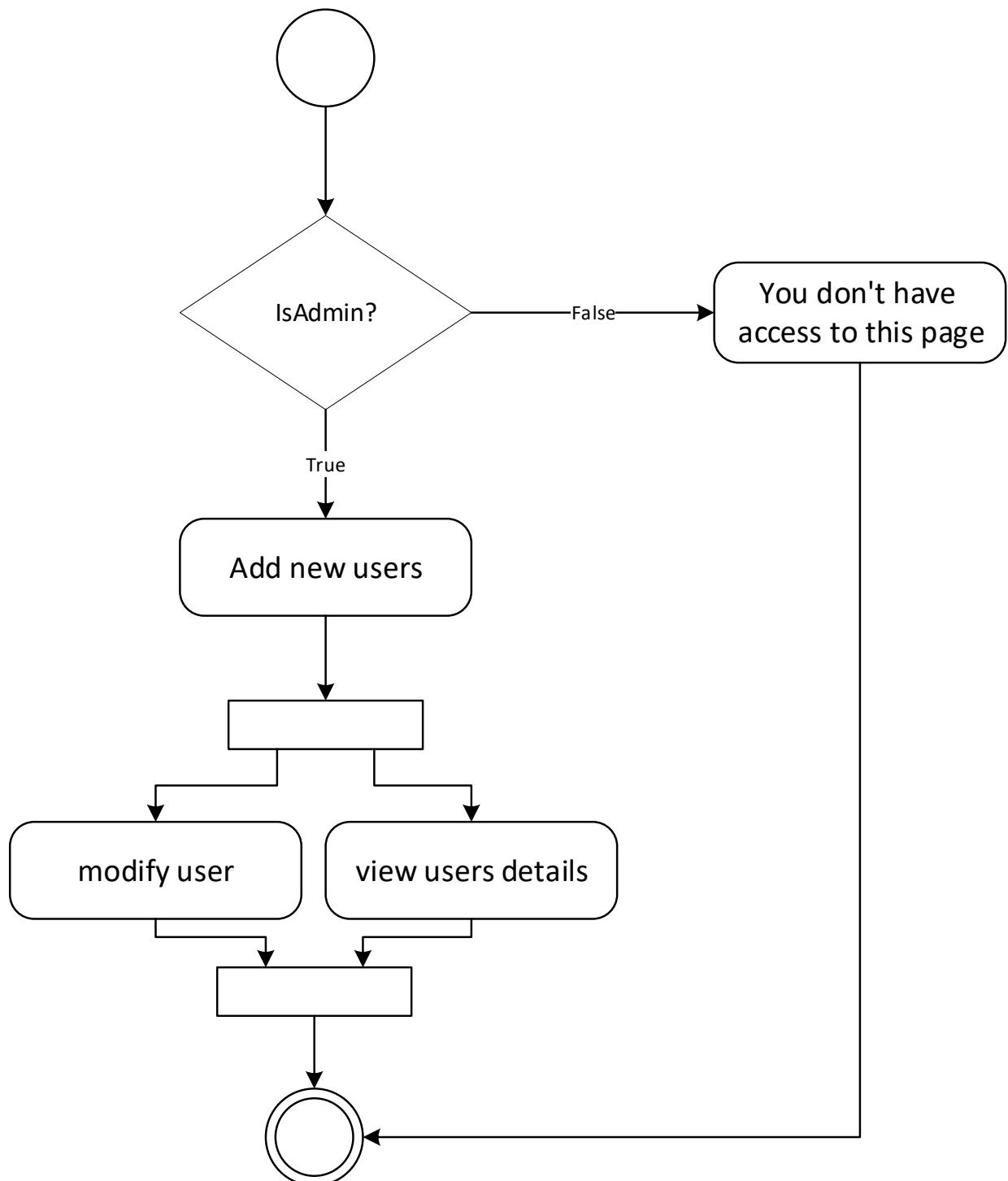
1- Add / modify formation



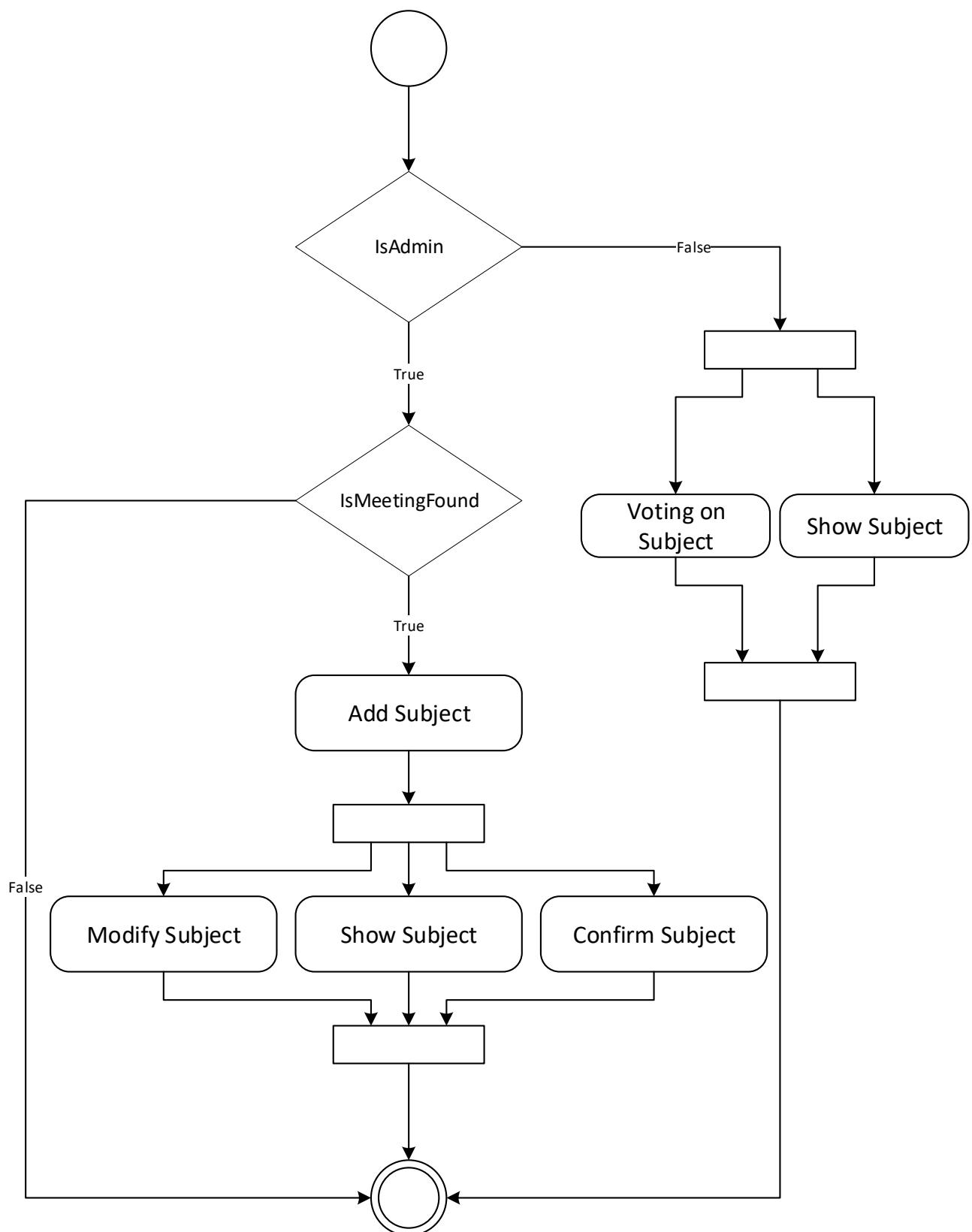
2- Add / modify meeting, confirm all meetings & upload final meeting attachment



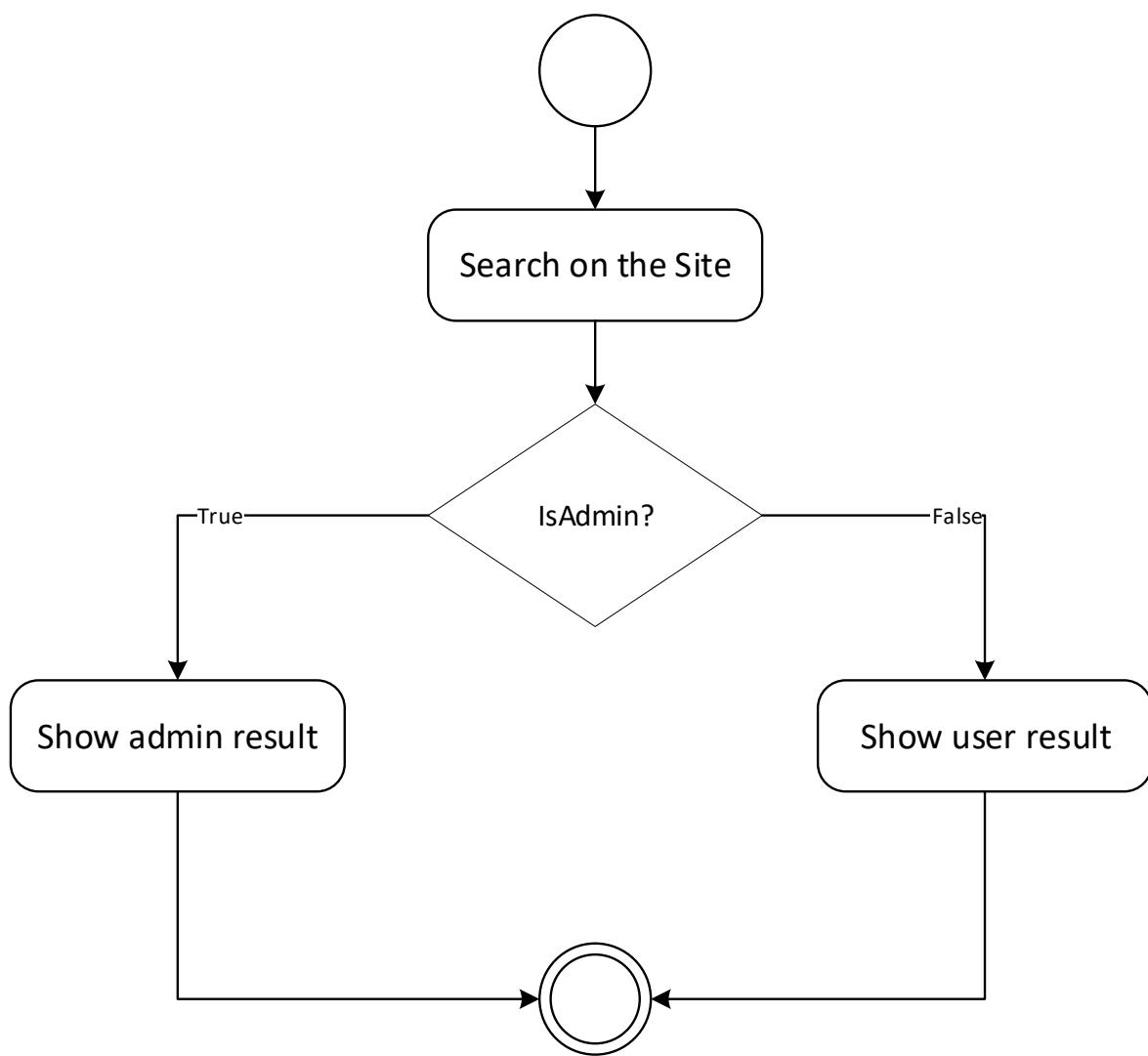
### 3- Add / modify users



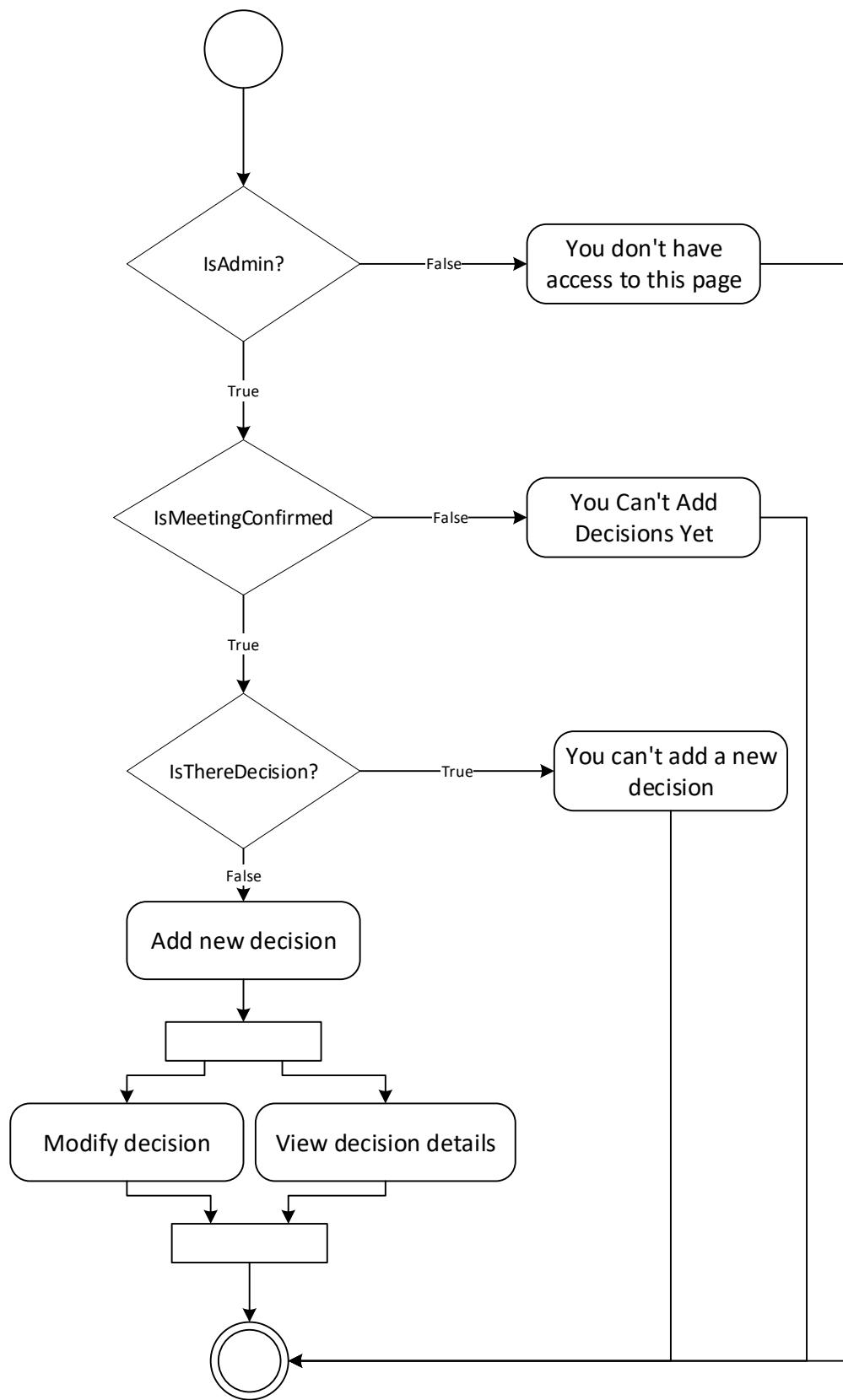
#### 4- Add / modify subjects, confirm all subjects & voting on subjects



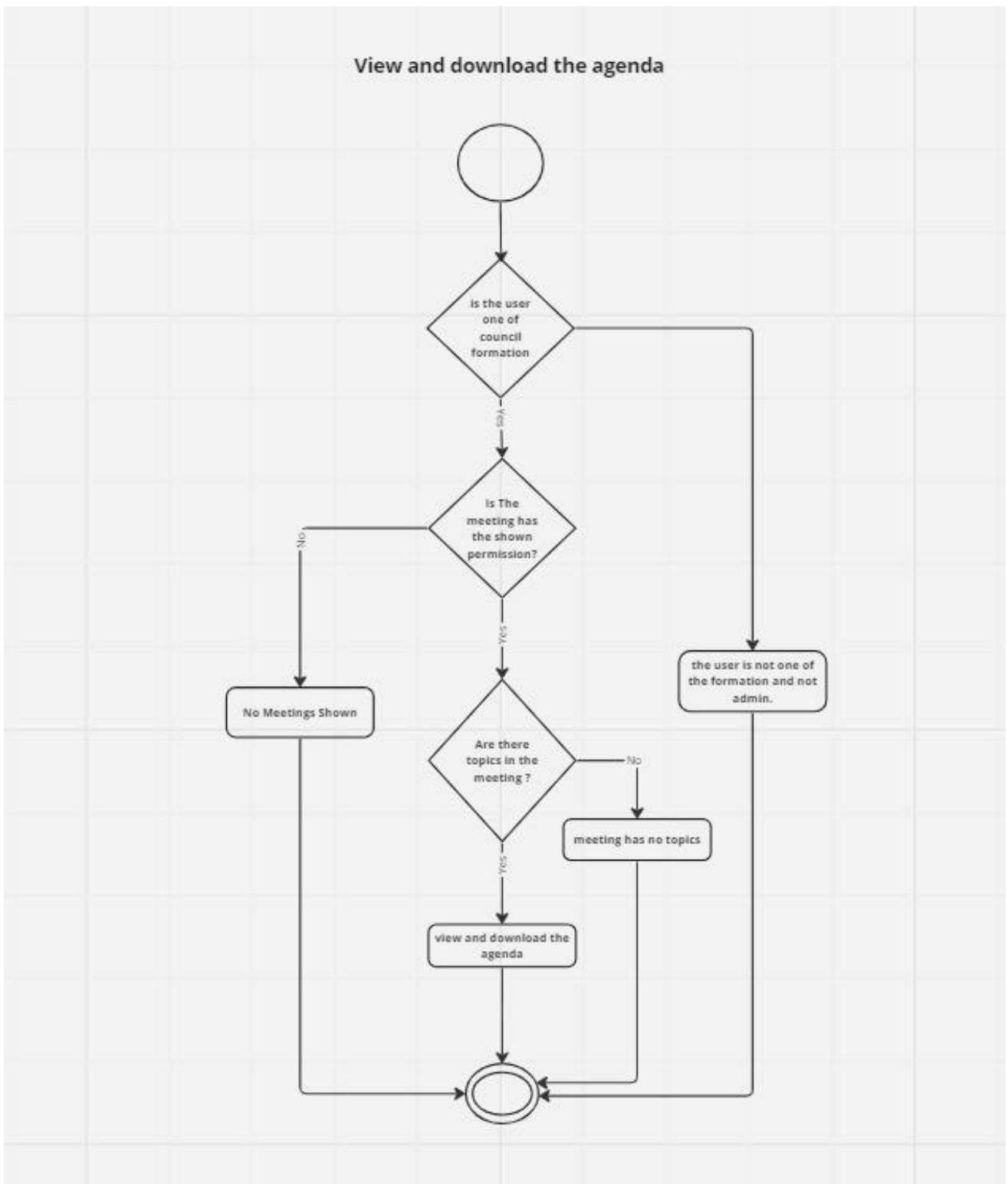
## 5- Search



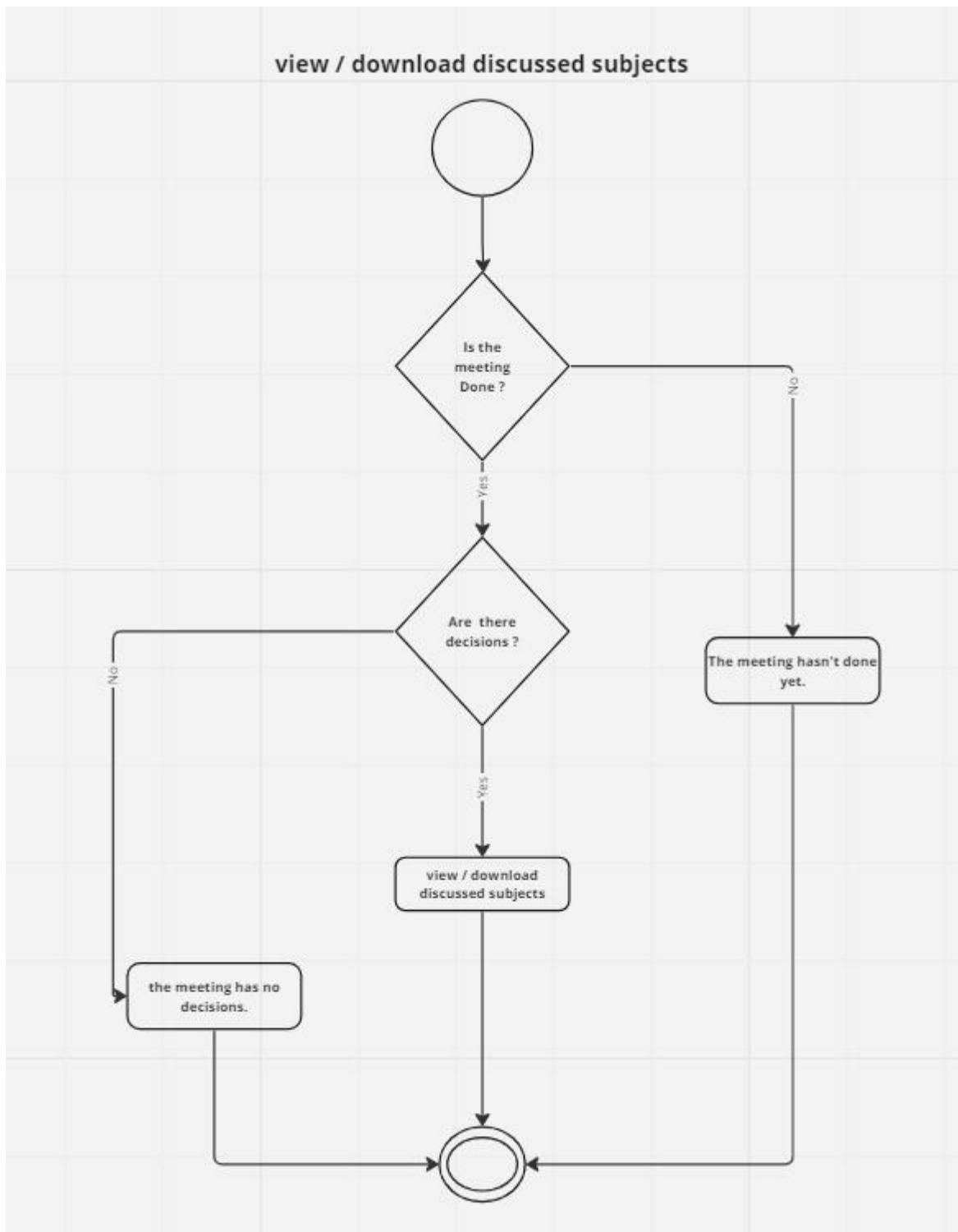
## 6- Add / modify decision



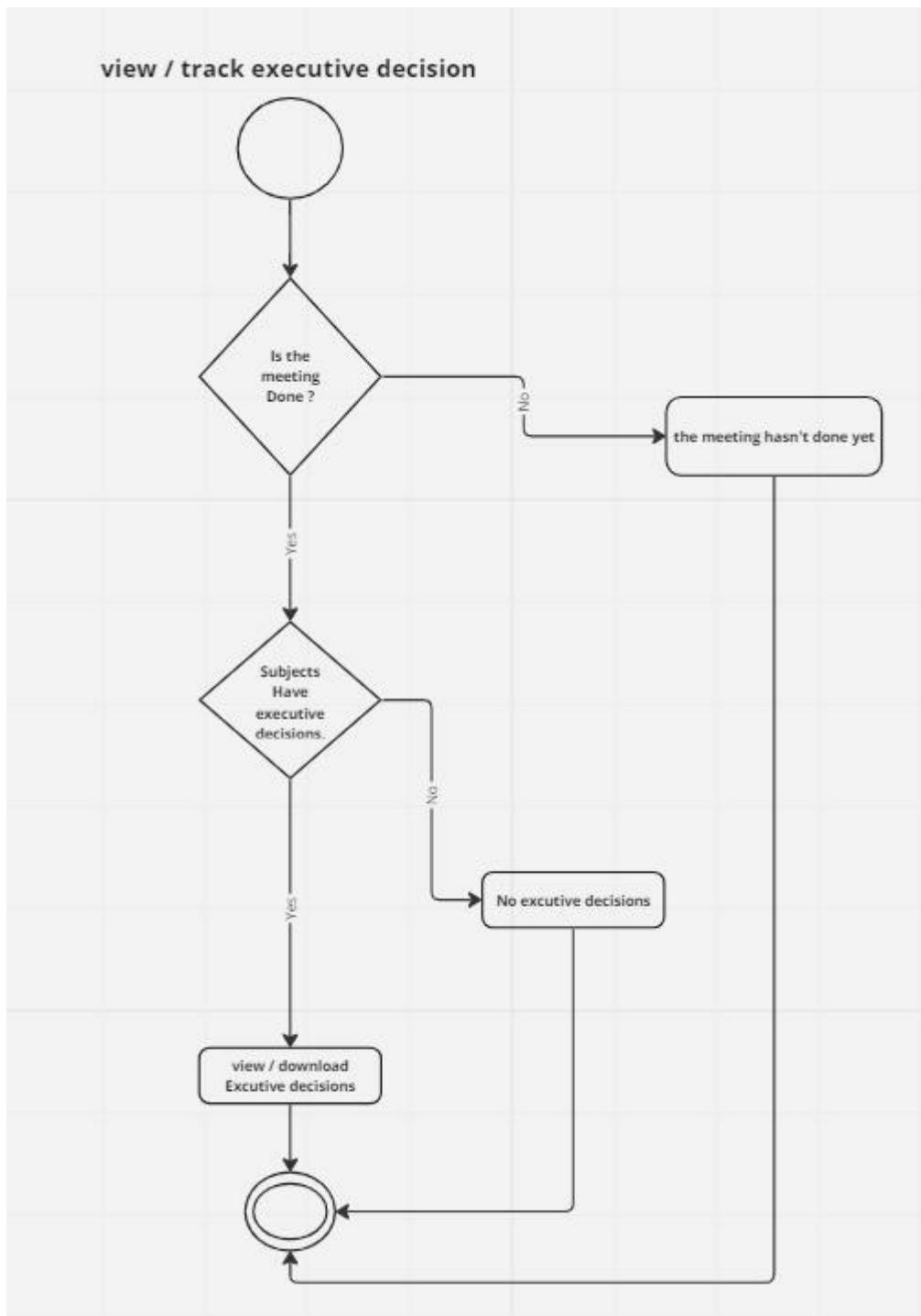
## 7- View / download agenda



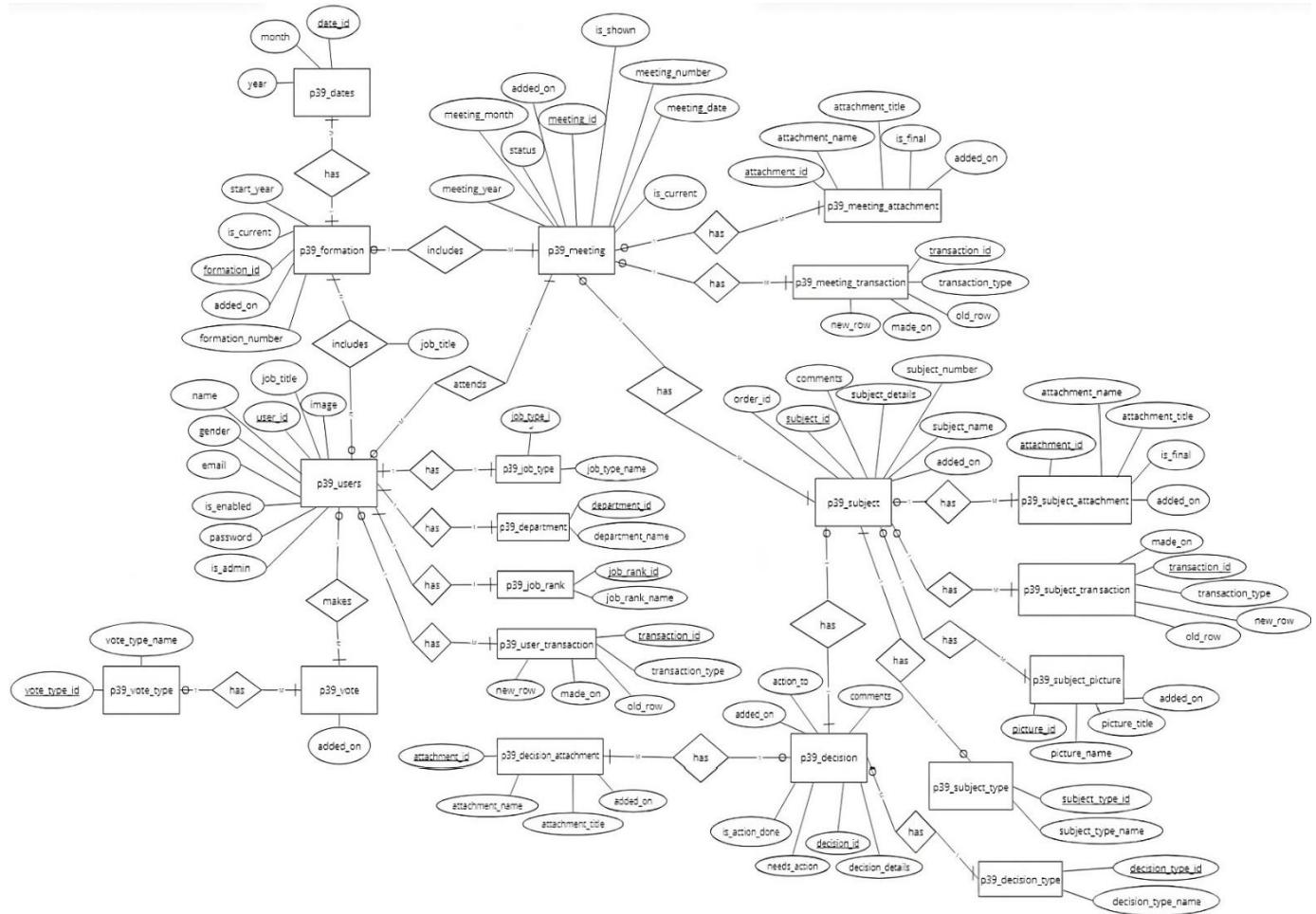
## 8- View / download discussed subjects



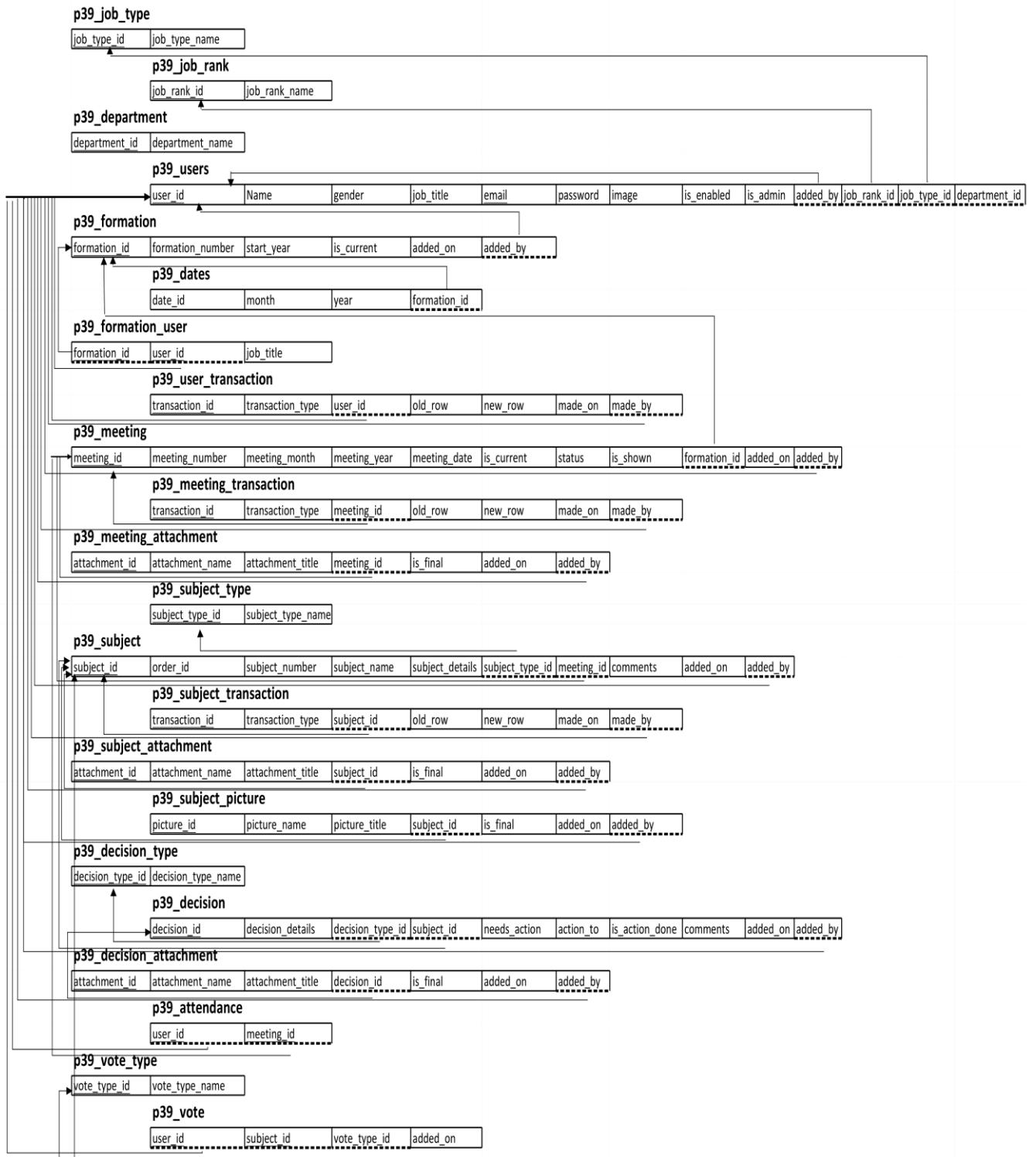
## 9- View / track executive decision



## 4.2 Database Structure (ERD)

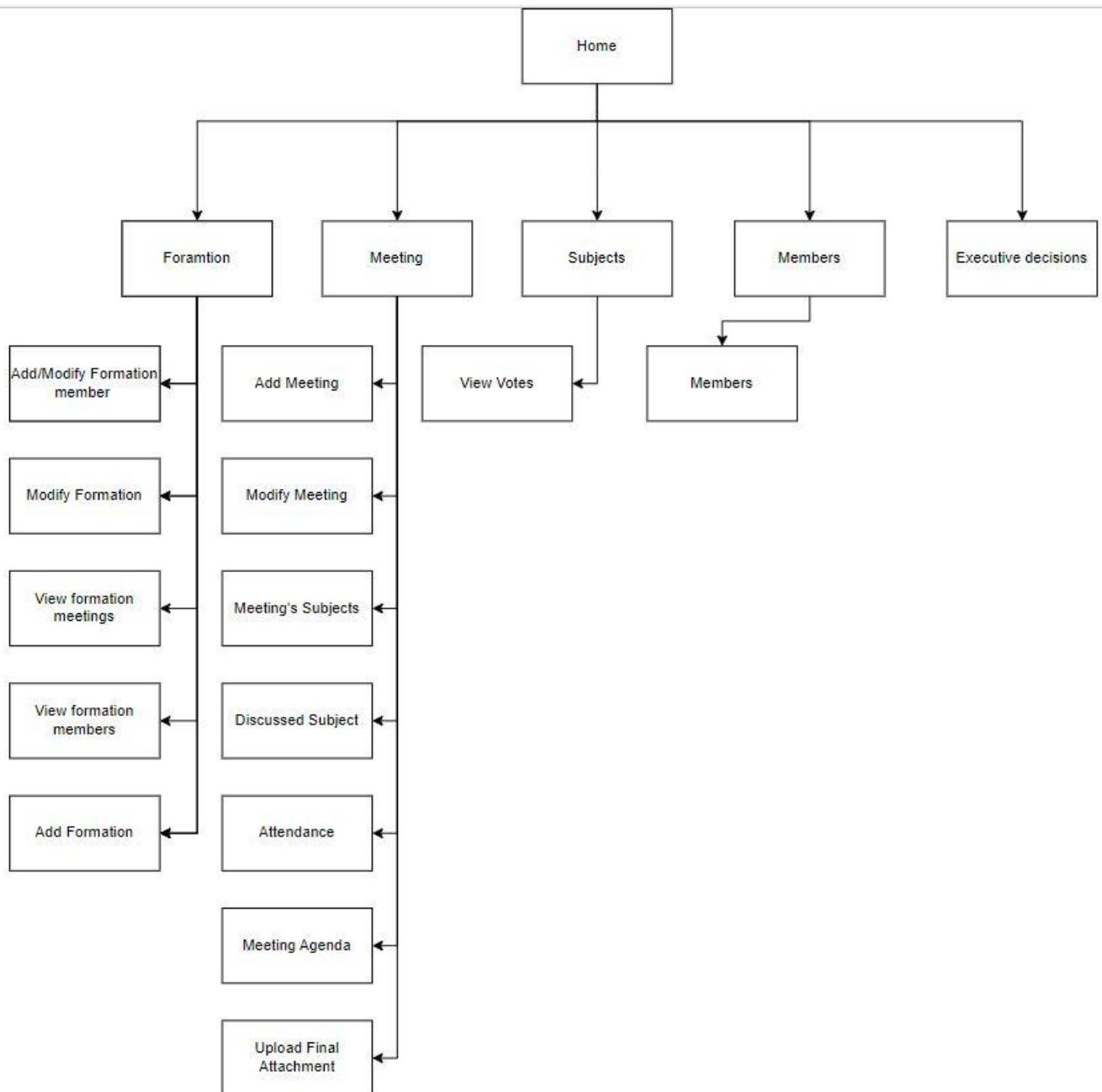


## 4.3 Database Schema (Mapping)

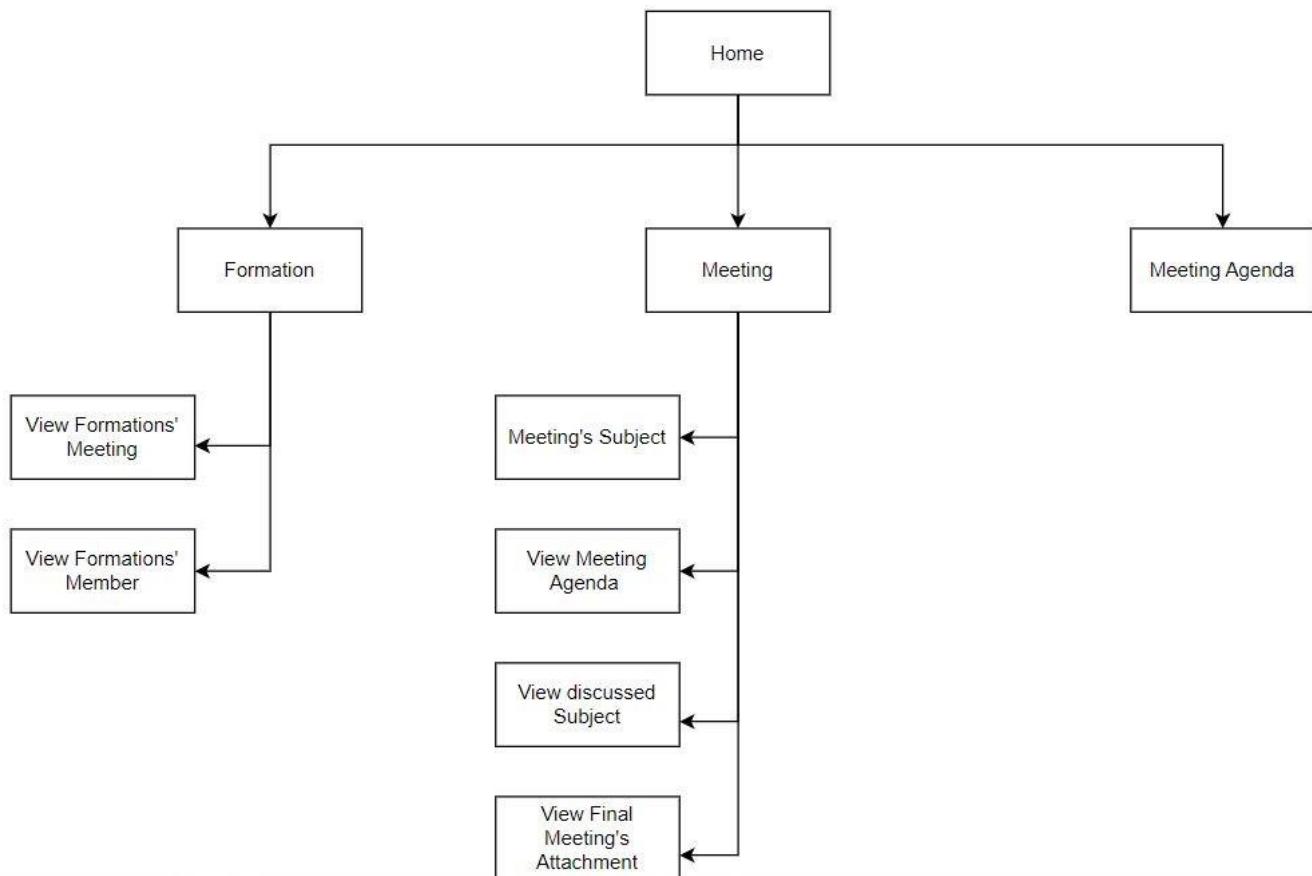


## 4.4 Site Map

## 1- Admin Site Map



## 2- Member Site Map



# Chapter Five: System Implementation

## 5.1 Project Interfaces

### 1- Login Page

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BIS  
برنامج نظم معلومات الأعمال  
النظام الإلكتروني لإدارة موضوعات مجلس الكلية

تسجيل الدخول

البريد الإلكتروني

كلمة المرور

تسجيل الدخول

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### 2- Homepage: The main page from which users can navigate through the website

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برنامج نظم معلومات الأعمال  
النظام الإلكتروني لإدارة موضوعات مجلس الكلية

محمد ايمن

خروج

الصفحة الرئيسية

التشكيلات السنوية      المجالس      القرارات التنفيذية      الأعضاء      الموضوعات      المجلس      التشكيلات      محمد ايمن      الصفحة الرئيسية

التشكيلات السنوية      المجالس      القرارات التنفيذية      الأعضاء      جميع الموضوعات      جدول الأعمال

جميع الحقوق محفوظة © لدى فريق رقم 39 Bis Seniors 2023

3- Meetings Page: The page from which admin can add/modify meetings, and users can view meetings:

### 3-1- Meetings Page: Admin's view

The screenshot shows the 'Meetings' page of a university website. At the top, there is a header with the university's logo, name, and a search bar. Below the header, the main content area is divided into three sections, each representing a different council meeting.

**الجلسات**

**المجلس الحالي**

رقم المجلس:	1
رقم تشكيل المجلس:	2
بيان تاريخ:	2024 / 10
حالة المجلس:	مؤكدة
تاریخ التعقّد:	غير محدد
فرارات غير منقذة:	0
الاعضاء الحاضرين:	0
عدد الموضوعات:	1
الموضوعات المقروءة:	0
الموضوعات المقروءة:	0
فرارات منقذة:	0
مختار الاجتماع:	X
رفع ملف المجلس النهائي:	▼
تعديل المجلس:	▼
رسالة للمجلس:	▼

**المجلس السابقة**

رقم المجلس:	2
رقم تشكيل المجلس:	1
بيان تاريخ:	2022 / 10
حالة المجلس:	مؤكدة
فرارات غير منقذة:	0
الاعضاء الحاضرين:	0
عدد الموضوعات:	1
الموضوعات المقروءة:	0
الموضوعات المقروءة:	0
فرارات منقذة:	0
مختار الاجتماع:	▼
رفع ملف المجلس النهائي:	▼
تعديل المجلس:	▼
رسالة للمجلس:	▼

رقم المجلس:	1
رقم تشكيل المجلس:	1
بيان تاريخ:	2022 / 9
حالة المجلس:	مؤكدة
فرارات غير منقذة:	0
الاعضاء الحاضرين:	4
عدد الموضوعات:	2
الموضوعات المقروءة:	0
الموضوعات المقروءة:	0
فرارات منقذة:	0
مختار الاجتماع:	▼
رفع ملف المجلس النهائي:	▼
تعديل المجلس:	▼
رسالة للمجلس:	▼

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### 3-2- Meetings Page: Member's view

The screenshot shows the 'Meetings' page for a member. At the top, there are logos for Belman University and the Faculty of Business Administration, along with navigation links for 'Search', 'About', 'Logout', 'Councils', 'Constituencies', and 'Main Page'. Below the header, the title 'المجالس' (Councils) is displayed.

**المجلس الحالي:**

- Number of the council: 1
- Formation number: 2
- Date of formation: 2024 / 10
- Status of the council: Valid
- Last update date: 25-11-2024

Buttons for viewing the council's files, minutes, and agendas are available.

**المجالس السابقة:**

- Number of the council: 2
- Formation number: 1
- Date of formation: 2022 / 10
- Status of the council: Valid

Buttons for viewing the council's files, minutes, and agendas are available.

- Number of the council: 1
- Formation number: 1
- Date of formation: 2022 / 9
- Status of the council: Valid

Buttons for viewing the council's files, minutes, and agendas are available.

At the bottom, a footer bar displays: 'Bis Seniors 2023 39 جميع الحقوق محفوظة © لدى فريق رقم'.

### 4- Formations Page: The page from which admin can add/modify formations, and users can view formations:

#### 4-1 Formations Page: Admin's view

The screenshot shows the 'Formations' page for an administrator. At the top, there are logos for Belman University and the Faculty of Business Administration, along with navigation links for 'Search', 'About', 'Executive Committees', 'Members', 'Constituencies', and 'Main Page'. Below the header, the title 'التشكيلات' (Constituencies) is displayed.

**التشكيلات الحالية:**

- Formation number: 2
- Start date: 2024 / 9
- End date: 2025 / 8

Buttons for viewing members, viewing constituency files, modifying constituency data, and deleting members are available.

**التشكيلات السابقة:**

- Formation number: 1
- Start date: 2022 / 9
- End date: 2023 / 8

Buttons for viewing members, viewing constituency files, and modifying constituency data are available.

At the bottom, a footer bar displays: 'Bis Seniors 2023 39 جميع الحقوق محفوظة © لدى فريق رقم'.

## 4-2 Formations Page: Member's view

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برنامج نظم معلومات الأعمال BIS  
النظام الإلكتروني لإدارة موضوعات مجلس الكلية

**التشكيلات**

**التشكيل الحالي**

رقم التشكيل السنوي: 2  
تاريخ بداية: 2024 / 9  
تاريخ نهاية: 2025 / 8

[عرض أعضاء التشكيل](#) [عرض مجالس التشكيل](#)

**التشكيلات السابقة**

رقم التشكيل السنوي: 1  
تاريخ بداية: 2022 / 9  
تاريخ نهاية: 2023 / 8

[عرض مجالس التشكيل](#) [عرض أعضاء التشكيل](#)

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## 5- Current Meeting Subjects Page: The page from which admin can add/modify subjects of the current meeting, and users can view them:

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النظام الإلكتروني لإدارة موضوعات مجلس الكلية

**المجالس** **التشكيلات** **الصفحة الرئيسية**

**مواضيع المجلس الحالي**

ترتيب عرض الموضوع: 1  
رقم إدخال الموضوع: 1  
تصنيف الموضوع: قسم الاقتصاد والتجارة الخارجية  
عنوان الموضوع: توزيع أشراف مشروع التخرج

[عرض الأصوات](#) [عرض المرفقات](#) [تعديل الموضوع](#) [تفاصيل الموضوع](#) [تعديل قرار](#) [إضافة قرار](#)

ترتيب عرض الموضوع: 2  
رقم إدخال الموضوع: 2  
تصنيف الموضوع: شئون التعليم والطلاب  
عنوان الموضوع: طلب التحويل

[عرض الأصوات](#) [عرض المرفقات](#) [تعديل الموضوع](#) [تفاصيل الموضوع](#) [تعديل قرار](#) [إضافة قرار](#)

ترتيب عرض الموضوع: 3  
رقم إدخال الموضوع: 3  
تصنيف الموضوع: قسم الاقتصاد والتجارة الخارجية  
عنوان الموضوع: توزيع أشراف مشروع التخرج

[عرض الأصوات](#) [عرض المرفقات](#) [تعديل الموضوع](#) [تفاصيل الموضوع](#) [تعديل قرار](#) [إضافة قرار](#)

**إضافة موضوع**

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## 6- All Subjects Page: The page that displays all the subjects included in all meetings on the database

**جميع الموضوعات**

| الرقم | الموضوع                 |
|-------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 1     | عن حمد الدين عبد العليم |
| 2     | محمد مصطفى              |
| 3     | إيهاب محمد عزيز         |
| 4     | إيهاب محمد عزيز         |
| 5     | محمد محمد عزيز          |
| 6     | محمد سعدي طه            |
|       | مختار                   |
|       | القرار                  |

## 7- Executive Decisions Page: The page in which all executive decisions of subjects are shown to admins and can be modified by them as well

The screenshot shows the 'Executive Decisions' page of the Helwan University website. At the top, there is a header with the university's logo, name in Arabic and English, and the title 'BIS نظم معلومات الاعمال'. Below the header, there is a navigation bar with links for 'القرارات التنفيذية', 'النضاء', 'الموضوعات', 'المجالس', 'التشكيلات', and 'الصفحة الرئيسية'. On the right side of the header, there is a user profile for 'محمد ايمان' and a 'Logout' button.

The main content area is titled 'القرارات التنفيذية' (Executive Decisions). It features three buttons: 'عرض القرارات المنفذة فقط (0)' (Show only implemented decisions (0)), 'عرض القرارات المنفذة فقط (1)' (Show only implemented decisions (1)), and 'عرض جميع القرارات (1)' (Show all decisions (1)).

Below these buttons, there is a section titled 'القرارات المنفذة' (Implemented decisions) containing a single decision entry:

نوع القرار: توزيع اشراف مشروع التخرج	رقم الموضوع: 1	التاريخ: مجلس رقم (1) بالتشكيل رقم (2) بتاريخ
عنوان الموضوع: توزيع اشراف مشروع التخرج		القرار الت التنفيذي موجه إلى: د محمد عبدالسلام
صيغة القرار: تفاصيل قرار تفاصيل قرار تفاصيل قرار تفاصيل قرار تفاصيل قرار		تفاصيل القرار
القرار	تفاصيل الموضوع (1)	المرفقات

At the bottom of the page, there are download buttons for two PDF files: 'activity diagram.pdf' and 'activity diagram (1).pdf'.

8- Final Meeting File Page: The page that shows the final file of the meeting after all subjects & decisions are added and the file is signed

The screenshot displays the Helwan University electronic system interface for managing meeting files. At the top, there is a header with the university's logo, name, and the title "النظام الإلكتروني لإدارة موضوعات مجلس الكلية". Below the header, a navigation bar includes links for "ملفات المجلس الموثقة", "ملفات المجلس المقترنة", "ملفات المجلس المنشورة", "ملفات المجلس المنشورة", "الملفات المرفقة", and "ملفات المجلس المنشورة". On the right side of the header, there is a user profile section with a photo, name "محمد أيمن", and a "Logout" button.

**الملفات الموثقة لمجلس رقم 1**

ملفات المجلس الموثقة

**NPV.pdf**

حذف

ملفات أخرى

لا يوجد ملفات لـ

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جميع الحقوق محفوظة

ربيع ملف المجلس الموثق

ربيع ملفات أخرى

## 9- Members Page: The page in which all users of the system are shown to admins and can be modified by them

**الأعضاء**

رقم العضو:	اسم العضو:	الاسم:	الايميل:	المسمى الوظيفي:	القفة الوظيفية:	الدرجة الوظيفية:	القسم العلمي:	حالة العضو:
1	محمد بدر	محمد ايمن	aymon@gmail.com	Admin	عميد	أستاذ	قسم المحاسبة	مفعل
2	محمد ايمن	محمد ايمن						
3	دكتور	دكتور 2	d2@hotmail.com	المسمى الوظيفي: دكتور	الفترة الوظيفية: عضو هيئة تدريس	الدرجة الوظيفية: أستاذ	قسم المحاسبة	مفعل
4	دكتور	دكتور 3		المسمى الوظيفي: دكتور	الفترة الوظيفية: عضو هيئة تدريس	الدرجة الوظيفية: أستاذ	قسم نظم المعلومات	مفعل
5	دكتور 3	دكتور 4		المسمى الوظيفي: دكتور	الفترة الوظيفية: عضو هيئة تدريس	الدرجة الوظيفية: أستاذ	قسم نظم المعلومات	مفعل
6	دكتور 5	دكتور 6		المسمى الوظيفي: دكتور	الفترة الوظيفية: عضو هيئة تدريس	الدرجة الوظيفية: أستاذ	قسم نظم المعلومات	مفعل

إضافة عضو جديد

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## 10- Add Formation Members Page: The page in which members are assigned to formations by admins

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النظام الإلكتروني لإدارة موضوعات مجلس الكلية

محمد اين  
خروج

الصفحة الرئيسية

اضافة و تعديل الاعضاء للتشكيل السنوي الحالي رقم: 2

اختيار	اسم العضو
<input checked="" type="checkbox"/>	دكتور 1
<input checked="" type="checkbox"/>	دكتور 2
<input checked="" type="checkbox"/>	دكتور 3
<input checked="" type="checkbox"/>	دكتور 5
<input checked="" type="checkbox"/>	اختيار الكل

تسجيل

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## 11- Votes Page: The page that shows statistics regarding subject votes

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محمد اين  
خروج

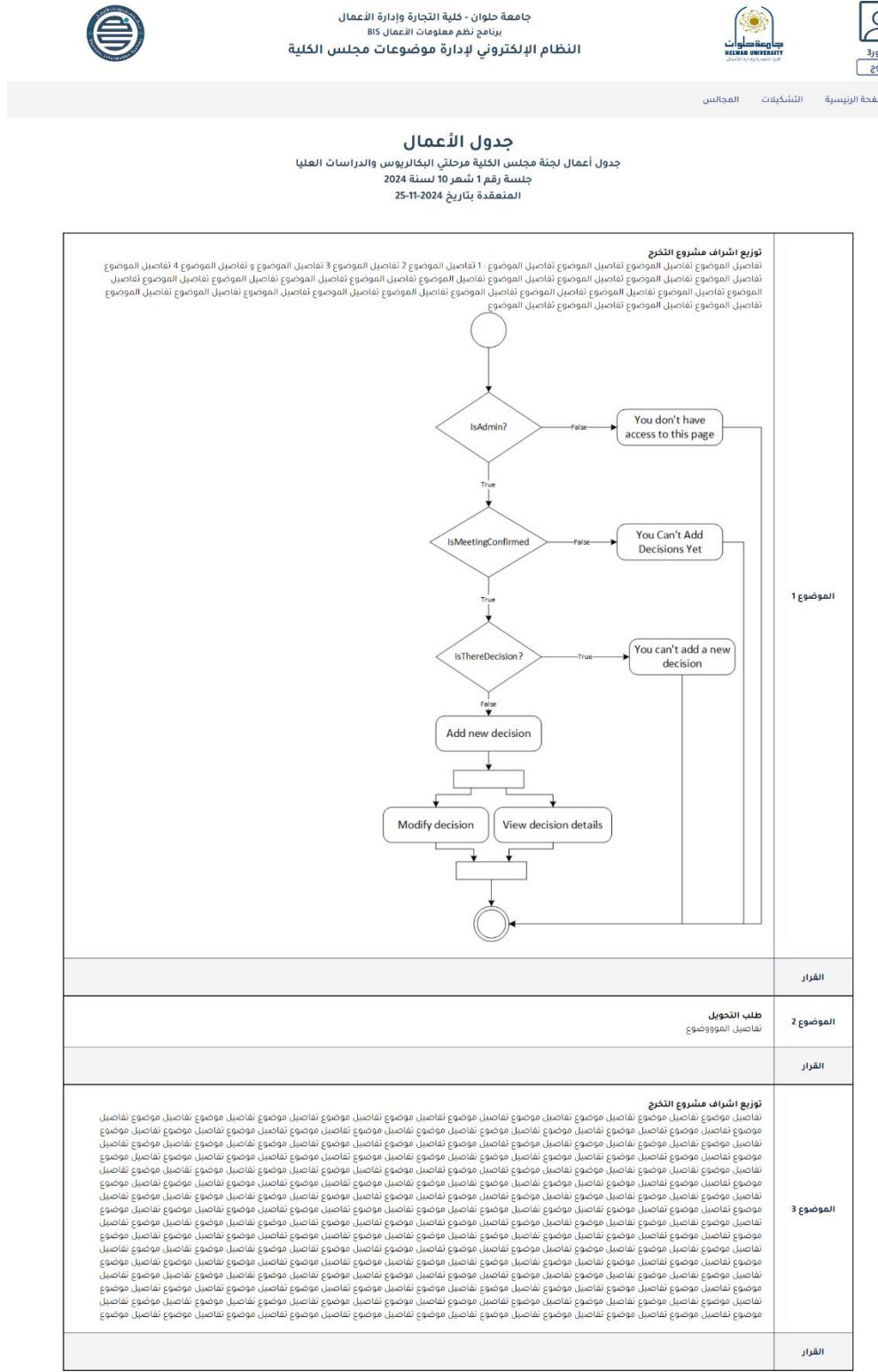
الصفحة الرئيسية

عرض تصويت الأعضاء على موضوع رقم: 1

التصويت	اسم العضو
موافقة	دكتور 3
تحفظ	دكتور 2
انسحاب	دكتور 5

جميع الحقوق محفوظة © لد فريق رقم 39

## 12- Meeting Agenda Page: The page that shows the subjects of meetings without the decisions, and it's done prior to the actual meeting



## 13- Discussed Subjects Page: The page that shows the subjects of the meeting and decisions related to them, and it's done after the actual meeting



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BIS  
برنامج نظم معلومات الأعمال

**النظام الإلكتروني لإدارة موضوعات مجلس الكلية**



جامعة حلوان  
كلية التجارة وإدارة الأعمال



دكتور  
خروج

المجلس
التشكيلات
الصفحة الرئيسية

**محضر الاجتماع**

محضر اجتماع لجنة إدارة البرامج الجديدة بكلية مرحلي البكالريوس والدراسات العليا  
جلسة رقم 1 بتاريخ

انعقدت اللجنة في تمام الساعة الثالثة عصرا يوم الأربعاء وبرئاسة الأستاذ الدكتور صالح الدين اسماعيل عميد الكلية ورئيس اللجنة  
بعضوية كلا من:

Doctor	دكتور 1
دكتور	دكتور 2
دكتور 3	دكتور 3
دكتور	دكتور 5

**طلب التحويل**  
طلبات التحويل المقدمة من الطلاب الراغبين للتحول إلى كلية التجارة وإدارة الأعمال جامعة حلوان ببرنامج Bis

الاسم	الكلية المحوّل منها	الكلية المحوّل إليها	غير مسمى الذين عدد
محمد مصطفى	جامعة بهايغ العبور كلية التجارة شعبة اللغة الإنجليزية	جامعة بهايغ العبور كلية	1
إيهاد محمد جعدي	جامعة طنطا كلية التجارة شعبة	جامعة طنطا كلية التجارة	2
أحمد كامل الدين عبد	جامعة طنطا كلية الآهلية كلية	جامعة طنطا كلية الآهلية كلية	3
زياد الشرف حسين محروم	كلية التجارة جامعة حلوان	كلية التجارة جامعة حلوان	4
محمد محمد سعيد عبد	كلية التجارة جامعة شويفط	كلية التجارة جامعة شويفط	5
احمد صبرى فربوب	كلية التجارة جامعة حلوان	كلية التجارة جامعة حلوان	6

الموضوع (1)

الموضوع (2)

**القرار**

لا يوجد

**توزيع أشراف مشروع التخرج**  
اعتماد توزيع أشراف مشروع تخرج-2 على السادة الآتي اسماؤهم متتابع 2 د محمد عبدالسلام متتابع 3 د احمد عبدالوهاب متتابع 4 د اية محمد

الموضوع (2)

**القرار**

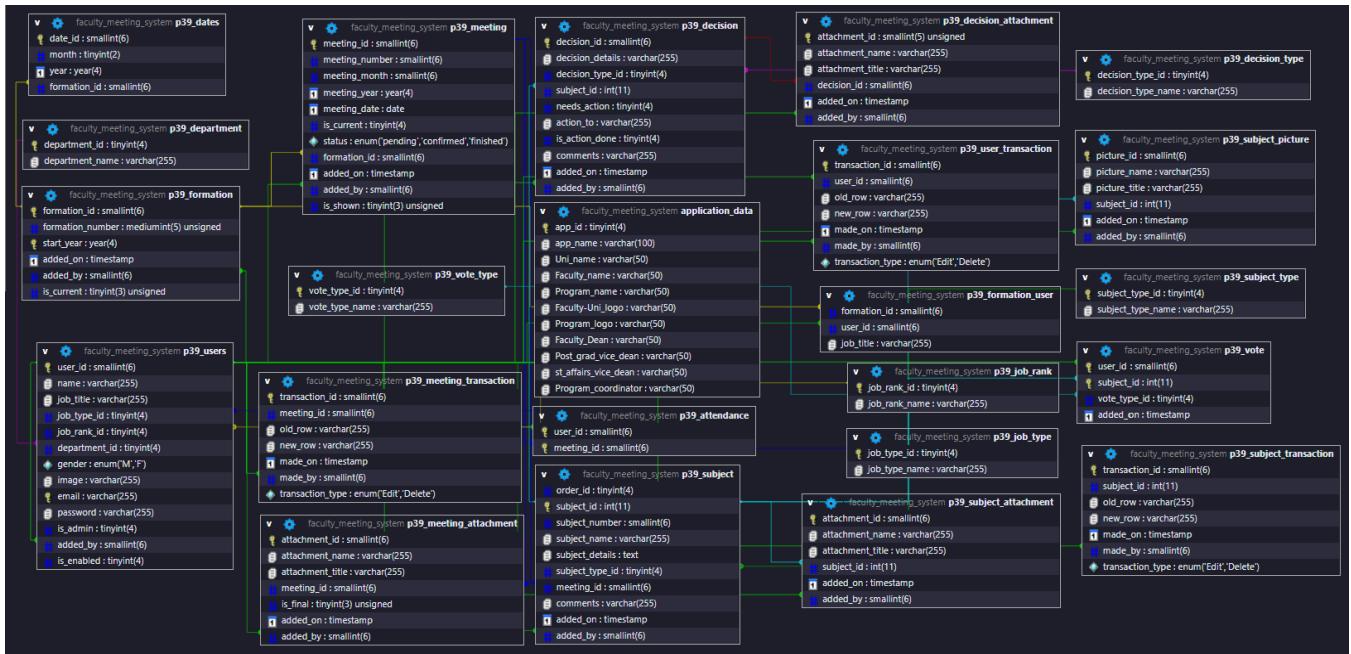
لا يوجد

**طباعة**

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## 5.2 Database Tables



# Chapter Six: System Testing

## 6.1 Main Features Validation

### 6.1.1 Login: Nonexistent User

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النظام الإلكتروني لإدارة موضوعات مجلس الكلية

هذا المستخدم غير مسجل في النظام

### تسجيل الدخول

البريد الإلكتروني

كلمة المرور

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### 6.1.2 Login: Incorrect Password

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البيانات غير صحيحة. يرجى إعادة المحاولة

### تسجيل الدخول

البريد الإلكتروني

كلمة المرور

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### 6.1.3 Login: Incorrect Email Format



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يرجى إدخال البريد الإلكتروني بطريقة صحيحة

### تسجيل الدخول

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### 6.1.4 Login: User Not Allowed



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غير مسموح لك بالدخول لأن حسابك غير مفعل

### تسجيل الدخول

البريد الإلكتروني

كلمة المرور

**تسجيل الدخول**

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# **Chapter Seven: Conclusion**

## **7.1 Conclusion**

In conclusion, the College Council Meeting Management Application offers a user-friendly and efficient solution for managing college council meetings. With its features such as agenda, decision tracking, document sharing, and communication tools, it provides an effective way for college council members and administrative staff to input and retrieve information related to college council meetings. By utilizing this application, colleges and universities can streamline their college council management process, leading to more productive and successful meetings. Overall, the College Council Meeting Management Application is an excellent tool for improving the efficiency and effectiveness of college council meetings.

## **7.2 Future Work**

### **1- Use Progressive Web Application (PWA) technology:**

A Progressive Web Application (PWA) is a type of web application that leverages modern web technologies to provide a user experience similar to that of a native mobile or desktop application. PWAs are designed to be fast, reliable, and engaging, and they can be accessed through a web browser on any device, including smartphones, tablets, and desktops.

Key features of Progressive Web Applications include:

- App-like Experience: PWAs offer an app-like experience with features such as full-screen mode, push notifications, and access to device hardware capabilities like cameras or geolocation.
- Connectivity Independent: PWAs can function even in low or unreliable network conditions. They can cache data and assets to allow offline access and provide a seamless experience when network connectivity is limited.
- Installable: Users have the option to install PWAs directly on their home screen or app launcher, allowing quick access to the application without needing to go through a web browser.
- Secure: PWAs are served over HTTPS, ensuring the security and privacy of user data and interactions.

**2- Video conference:**

We will allow members to attend meetings online through online video conference and record meetings to future review.

**3- Feedback from System to Member :**

After each meeting the system send a conclusion pdf file about the meeting to the meeting members

**4- ChatBot:**

Chat bot that helps to answer questions for users

**5- Integration with other platforms:**

Consider integrating your app with other platforms that your users might be using such as other faculty systems.

**6- Two-factor authentication (2FA):**

Two-factor authentication (2FA) is a security measure that requires users to provide two forms of identification in order to access a system or online account. It is used to improve the security of online accounts by making it more difficult for unauthorized users to gain access to sensitive information

**7- User feedback:**

Solicit feedback from users of the app to identify areas that could be improved or added. This can help ensure that future work on the app is aligned with the needs and preferences of its users, this process can be made in general or after each service.

## Sample of Queries

```
CREATE TABLE IF NOT EXISTS p39_meeting
(
    meeting_id      SMALLINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    meeting_number  MEDIUMINT UNSIGNED,
    meeting_month   SMALLINT UNSIGNED,
    meeting_year    YEAR,
    meeting_date    DATE                      DEFAULT NULL,
    is_current      TINYINT UNSIGNED          DEFAULT 1,
    status          ENUM ("pending", "confirmed", "finished") DEFAULT "pending",
    is_shown        TINYINT UNSIGNED          DEFAULT 0,
    formation_id   SMALLINT UNSIGNED,
    added_on        TIMESTAMP                 DEFAULT CURRENT_TIMESTAMP,
    added_by        SMALLINT UNSIGNED,
    FOREIGN KEY (added_by) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (formation_id) REFERENCES p39_formation (formation_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

CREATE TABLE IF NOT EXISTS p39_formation
(
    formation_id      SMALLINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    formation_number  MEDIUMINT UNSIGNED,
    start_year        YEAR UNIQUE,
    is_current        TINYINT UNSIGNED,
    added_on          TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    added_by          SMALLINT UNSIGNED,
    FOREIGN KEY (added_by) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

CREATE TABLE IF NOT EXISTS p39_users
(
    user_id          SMALLINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    name             VARCHAR(255) character set utf8 collate utf8_unicode_520_ci NOT NULL,
    job_title        VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    job_type_id     TINYINT UNSIGNED,
    job_rank_id     TINYINT UNSIGNED,
    department_id   TINYINT UNSIGNED,
    gender           ENUM ("M", "F") character set utf8 collate utf8_unicode_520_ci,
    image            VARCHAR(255) character set utf8 collate utf8_unicode_520_ci DEFAULT "images/members/user.svg",
    email            VARCHAR(255) character set utf8 collate utf8_unicode_520_ci UNIQUE,
    password         VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    is_admin          TINYINT UNSIGNED,
    added_by         SMALLINT UNSIGNED,
    is_enabled       TINYINT UNSIGNED          DEFAULT 1,
    FOREIGN KEY (added_by) References p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (job_type_id) References p39_job_type (job_type_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (job_rank_id) References p39_job_rank (job_rank_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (department_id) References p39_department (department_id) ON UPDATE CASCADE ON DELETE RESTRICT
);
```

```

CREATE TABLE IF NOT EXISTS p39_subject
(
    order_id      TINYINT UNSIGNED DEFAULT NULL,
    subject_id    MEDIUMINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    subject_number MEDIUMINT UNSIGNED,
    subject_name   VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    subject_details TEXT character set utf8 collate utf8_unicode_520_ci,
    subject_type_id TINYINT UNSIGNED,
    meeting_id    SMALLINT UNSIGNED,
    comments      TEXT character set utf8 collate utf8_unicode_520_ci,
    added_on      TIMESTAMP      DEFAULT CURRENT_TIMESTAMP,
    added_by      SMALLINT UNSIGNED,
    FOREIGN KEY (added_by) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (subject_type_id) REFERENCES p39_subject_type (subject_type_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (meeting_id) REFERENCES p39_meeting (meeting_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

CREATE TABLE IF NOT EXISTS p39_decision
(
    decision_id    SMALLINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    decision_details TEXT character set utf8 collate utf8_unicode_520_ci,
    decision_type_id TINYINT UNSIGNED,
    subject_id    MEDIUMINT UNSIGNED,
    needs_action   TINYINT UNSIGNED,
    action_to      VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    is_action_done  TINYINT UNSIGNED,
    comments      TEXT character set utf8 collate utf8_unicode_520_ci,
    added_on      TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    added_by      SMALLINT UNSIGNED,
    FOREIGN KEY (added_by) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (decision_type_id) REFERENCES p39_decision_type (decision_type_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (subject_id) REFERENCES p39_subject (subject_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

CREATE TABLE IF NOT EXISTS p39_vote
(
    user_id      SMALLINT UNSIGNED,
    subject_id    MEDIUMINT UNSIGNED,
    PRIMARY KEY (user_id, subject_id),
    vote_type_id TINYINT UNSIGNED,
    added_on      TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    FOREIGN KEY (user_id) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (vote_type_id) REFERENCES p39_vote_type (vote_type_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (subject_id) REFERENCES p39_subject (subject_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

CREATE TABLE IF NOT EXISTS p39_meeting_attachment
(
    attachment_id    SMALLINT UNSIGNED AUTO_INCREMENT PRIMARY KEY,
    attachment_name  VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    attachment_title VARCHAR(255) character set utf8 collate utf8_unicode_520_ci,
    meeting_id       SMALLINT UNSIGNED,
    is_final         TINYINT UNSIGNED,
    added_on         TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    added_by         SMALLINT UNSIGNED,
    FOREIGN KEY (added_by) REFERENCES p39_users (user_id) ON UPDATE CASCADE ON DELETE RESTRICT,
    FOREIGN KEY (meeting_id) REFERENCES p39_meeting (meeting_id) ON UPDATE CASCADE ON DELETE RESTRICT
);

```

# Sample of Code

```
1 /* default css initialization */
2 /* variables */
3 :root {
4   --main-color: #214090;
5   --secondary-color: #f4f4f4;
6   --headings-color: #294862;
7   --disabled-color: rgb(102, 102, 104);
8   --main-font: "Tajawal", sans-serif;
9   --checkmark: url("../images/icons/checkmark.svg");
10  --box-radius: 15px;
11  --error-color: red;
12 }
13 /* CSS HEX */
14 --headings-color: #294862;
15 --geyser: #d6dce1;
16 --bermuda-gray: #6c8b9d;
17 --eastern-blue: #2198b9;
18 --java: #1ebadc;
19 --jelly-bean: #27718f;
20 --slate-gray: #64748b;
21 --tangaroa: #04183b;
22 }
23
24 /* Global Rules */
25 *
26 box-sizing: border-box;
27 margin: 0;
28 padding: 0;
29 }
30 html {
31 scroll-behavior: smooth;
32 }
33
34 a {
35 text-decoration: none;
36 display: inline-block;
37 }
38 ul {
39 list-style-type: none;
40 }
41
42 body {
43 min-height: 100vh;
44 display: flex;
45 flex-direction: column;
46 font-family: var(--main-font);
47 }
48 img {
49 width: 300px;
50 height: 300px;
51 }
52 body .deactive {
53 display: none;
54 }
55
56 h1,
57 h2,
58 h3,
59 h4,
60 h5 {
61 color: var(--headings-color);
62 }
63
64 button {
65 border-style: none;
66 font-family: var(--main-font);
67 }
68 input,
69 input::placeholder {
70 font-family: var(--main-font);
71 }
72
73 .container {
74 padding: 0 15px;
75 margin: auto;
76 min-height: calc(100vh - 233px);
77 }
```

```
1 /* Small */
2 @media (min-width: 768px) {
3   .container {
4     width: 750px;
5   }
6 }
7 @media (max-width: 992px) {
8   .meetings-content .container {
9     width: auto;
10  }
11 }
12
13 /* Medium */
14 @media (min-width: 992px) {
15   .container {
16     width: 970px;
17   }
18 }
19
20 /* Big */
21 @media (min-width: 1200px) {
22   .container {
23     width: 1170px;
24   }
25 }
26 /* Large */
27 @media (min-width: 1600px) {
28   .container {
29     width: 1550px;
30   }
31 }
```



```
1 /* Header */
2
3 header {
4   display: flex;
5   justify-content: space-around;
6
7   text-align: center;
8   margin: 10px;
9 }
10
11 header h1 {
12   font-size: 24px;
13   color: var(--headings-color);
14 }
15 header .logo {
16   width: 110px;
17   height: 100px;
18 }
19 header .user-logged img {
20   width: 70px;
21   height: 70px;
22   border-radius: 5px;
23   border: 4px solid var(--headings-color);
24 }
25 header .user-logged button {
26   color: var(--main-color);
27   background-color: #fff;
28   border: 2px solid var(--main-color);
29   font-weight: bold;
30   padding: 1px 5px;
31   font-size: 15px;
32   margin: 0;
33   border-radius: 5px;
34 }
35 header .user-name {
36   font-size: 1em;
37 }
38 header .header-container {
39   display: flex;
40   flex-grow: 1;
41   justify-content: space-around;
42   align-items: center;
43   margin-bottom: 15px;
44 }
45
46 @media (max-width: 430px) {
47   header h1 {
48     font-size: 18px;
49   }
50   header h3,
51   header h4 {
52     font-size: 12px;
53   }
54   header .logo {
55     width: 80px;
56     height: 70px;
57   }
58 }
59 @media (max-width: 650px) {
60   header {
61     flex-direction: column-reverse;
62   }
63 }
```



```
1 /* Navigation Links */
2
3 .nav-bar {
4   background-color: var(--secondary-color);
5 }
6 nav {
7   display: flex;
8   justify-content: space-between;
9
10  padding: 10px;
11 }
12
13 nav ul {
14   display: flex;
15   flex-wrap: wrap;
16   padding: 10px 0;
17 }
18 nav ul li {
19   margin: 0 15px;
20 }
21 nav .links {
22   display: flex;
23 }
24
25 nav ul li a {
26   color: #000;
27   font-weight: 500;
28   border-radius: 7px;
29   box-shadow: inset 0 0 0 0 var(--main-color);
30   color: var(--main-color);
31   padding: 0 0.25rem;
32   transition: color 0.3s ease-in-out, box-shadow 0.3s ease-in-out;
33 }
34
35 nav ul li a:hover,
36 nav ul li a.active {
37   box-shadow: inset -150px 0 0 0 var(--main-color);
38   color: var(--secondary-color);
39 }
40
41 nav ul .icon {
42   color: var(--main-color);
43   padding: 5px;
44   background-color: #fff;
45   display: none;
46 }
47
48 /* medium screen */
49 @media (max-width: 1140px) {
50   nav ul .icon {
51     display: block;
52     cursor: pointer;
53   }
54
55   nav ul,
56   nav ul .links {
57     flex-direction: column;
58     align-items: flex-start;
59   }
60   nav .deactive {
61     display: none;
62   }
63   nav .links {
64     max-height: 0;
65     overflow: hidden;
66     transition: 0.5s;
67   }
68
69   nav .links.open {
70     max-height: 350px;
71     margin-top: 40px;
72   }
73
74   nav ul li {
75     margin: 10px 0;
76   }
77 }
```

```
● ○ ●
1 // Make The Photo Uploaded Appears As a Preview
2
3 const buttons = document.querySelectorAll(".upload-button");
4 const fileLists = document.querySelectorAll(".file-list");
5
6 buttons.forEach((button, i) => {
7   button.addEventListener("change", function () {
8     displayFile(this.files, fileLists[i]);
9   });
10 });
11
12 function displayFile(files, fileList) {
13   fileList.innerHTML = "";
14
15   // Loop Through The Files And Display Each File Name and Preview
16   for (let i = 0; i < files.length; i++) {
17     const fileName = document.createElement("p");
18     fileName.textContent = `اسم الملف: ${files[i].name}`;
19     fileList.appendChild(fileName);
20
21     if (files[i].type === "image/jpeg" || files[i].type === "image/png") {
22       const filePreview = document.createElement("img");
23       filePreview.src = URL.createObjectURL(files[i]);
24       fileList.appendChild(filePreview);
25     }
26   }
27 }
28
29 // Links Toggler
30
31 const toggler = document.querySelector("nav ul .icon");
32 const linksDiv = document.querySelector("nav ul .links");
33
34 toggler.addEventListener("click", () => {
35   linksDiv.classList.toggle("open");
36
37   // Make the search in the start of the nav when the links are open
38   if (linksDiv.classList.contains("open")) {
39     document.querySelector(".search").style.alignItems = "flex-start";
40   }
41   // Make the search bar in center when the links aren't open, and it delay the action by the transition duration of the links animation
42   else {
43     setTimeout(() => {
44       document.querySelector(".search").style.alignItems = "center";
45     }, Number(getComputedStyle(linksDiv).transitionDuration.slice(0, 3) * 1000));
46   }
47 });
48 }
```

```
● ○ ●
1 // Details Button Toggle
2 let allSubjectDetailsButtons = document.querySelectorAll(
3   ".box .subject-details-btn"
4 );
5
6 allSubjectDetailsButtons.forEach((btn) => {
7   btn.addEventListener("click", () => {
8     let subjectDetails = btn.parentElement.parentElement.nextElementSibling;
9     subjectDetails.classList.toggle("deactive");
10  });
11 });
12
```

```

1 // Drop Down List Function
2
3 export function dropDownList() {
4     let x, i, j, l, ll, selElmnt, a, b, c;
5     /*look for any elements with the class "select-basic":*/
6     x = document.getElementsByClassName("select-basic");
7     l = x.length;
8
9     for (i = 0; i < l; i++) {
10        selElmnt = x[i].getElementsByTagName("select")[0];
11        ll = selElmnt.length;
12        /*for each element, create a new DIV that will act as the selected item:*/
13        a = document.createElement("DIV");
14        a.setAttribute("class", "select-selected");
15        a.innerHTML = selElmnt.options[selElmnt.selectedIndex].innerHTML;
16        x[i].appendChild(a);
17        /*for each element, create a new DIV that will contain the option list:*/
18        b = document.createElement("DIV");
19        b.setAttribute("class", "select-items select-hide");
20        for (j = 1; j < ll; j++) {
21            /*for each option in the original select element,
22            create a new DIV that will act as an option item:*/
23            c = document.createElement("DIV");
24            c.innerHTML = selElmnt.options[j].innerHTML;
25            c.addEventListener("click", function (e) {
26                /*when an item is clicked, update the original select box,
27                and the selected item:*/
28                let y, i, k, s, h, sl, yl;
29                s = this.parentNode.parentNode.getElementsByTagName("select")[0];
30                sl = s.length;
31                h = this.parentNode.previousSibling;
32                for (i = 0; i < sl; i++) {
33                    if (s.options[i].innerHTML == this.innerHTML) {
34                        s.selectedIndex = i;
35                        h.innerHTML = this.innerHTML;
36                        y = this.parentNode.getElementsByClassName("same-as-selected");
37                        yl = y.length;
38                        for (k = 0; k < yl; k++) {
39                            y[k].removeAttribute("class");
40                        }
41                        this.setAttribute("class", "same-as-selected");
42                        break;
43                    }
44                }
45                h.click();
46            });
47            b.appendChild(c);
48        }
49        x[i].appendChild(b);
50        a.addEventListener("click", function (e) {
51            /*when the select box is clicked, close any other select boxes,
52            and open/close the current select box:*/
53            e.stopPropagation();
54            closeAllSelect(this);
55            this.nextSibling.classList.toggle("select-hide");
56            this.classList.toggle("select-arrow-active");
57        });
58    }
59    function closeAllSelect(elmnt) {
60        /*a function that will close all select boxes in the document,
61        except the current select box:*/
62        let x,
63            y,
64            i,
65            xl,
66            yl,
67            arrNo = [];
68        x = document.getElementsByClassName("select-items");
69        y = document.getElementsByClassName("select-selected");
70        xl = x.length;
71        yl = y.length;
72        for (i = 0; i < yl; i++) {
73            if (elmnt == y[i]) {
74                arrNo.push(i);
75            } else {
76                y[i].classList.remove("select-arrow-active");
77            }
78        }
79        for (i = 0; i < xl; i++) {
80            if (arrNo.indexOf(i)) {
81                x[i].classList.add("select-hide");
82            }
83        }
84    }
85    /*if the user clicks anywhere outside the select box,
86    then close all select boxes:*/
87    document.addEventListener("click", closeAllSelect);
88 }

```

```

function Upload($source, $destination, $allowed_formats):array
{
    $result = array();
    if ((is_dir($destination) === true) && (array_key_exists($source, $_FILES) === true))
    {
        if (count($_FILES[$source], mode: COUNT_RECURSIVE) == 5)
        {
            foreach ($_FILES[$source] as $key => $value)
            {
                $_FILES[$source][$key] = array($value);
            }
        }
        foreach (array_map( callback: 'basename', $_FILES[$source]['name']) as $key => $value)
        {
            $new_file_path = $destination . $value;
            $file_type = pathinfo($new_file_path, flags: PATHINFO_EXTENSION);
            if (in_array($file_type, $allowed_formats))
            {
                $result[$value] = false;
                if ($_FILES[$source]['error'][$key] == UPLOAD_ERR_OK)
                {
                    $file = NULL;
                    $file = strtolower(trim(preg_replace( pattern: '/[^A-Za-z0-9-]/', replacement: '-', $file)));
                    if (file_exists($filename: $destination . $file) == true)
                    {
                        $file = substr_replace($file, replace: '_', md5_file($_FILES[$source]['tmp_name'][$key]) . ".$file_type", strpos($value, needle: '.'), length: 0);
                    }

                    if (move_uploaded_file($_FILES[$source]['tmp_name'][$key], $destination . $file) == true)
                    {
                        $result[$value] = $destination . $file;
                    }
                }
            }
        }
    }
    return $result;
}

```

```

<?php while ($formation_users_row = $formation_users_result->fetch_assoc()) { ?>
    <?php if (in_array($formation_users_row["user_id"], $formation_users)) { ?>
        <tr>
            <td>
                <?= $formation_users_row["name"] ?>
            </td>
            <td>
                <input type="hidden" name="<?=$formation_users_row['user_id']?>" value="0">
                <input type="checkbox" name="<?=$formation_users_row['user_id']?>" class="check"
                    value="1" checked>
                <input type="hidden"
                    name="job_title-<?=$formation_users_row['user_id']?>"
                    value="<?=$formation_users_row['job_title']?>">
            </td>
        </tr>
    <?php } else { ?>
        <tr>
            <td>
                <?= $formation_users_row["name"] ?>
            </td>
            <td>
                <input type="hidden" name="<?=$formation_users_row['user_id']?>" value="0">
                <input type="checkbox" name="<?=$formation_users_row['user_id']?>" class="check"
                    value="1">
                <input type="hidden"
                    name="job_title-<?=$formation_users_row['user_id']?>"
                    value="<?=$formation_users_row['job_title']?>">
            </td>
        </tr>
    <?php } ?>

```

```

$subjects_count_stmt = $conn->prepare( query: "SELECT
                                                SUM(d.decision_type_id = 1) AS a_s,
                                                SUM(d.decision_type_id = 2) AS r_s,
                                                SUM(d.decision_type_id = 3) AS p_s,
                                                SUM(d.needs_action = 1) AS e_s,
                                                SUM(d.needs_action = 1 AND d.is_action_done = 1) AS e_s1,
                                                SUM(s.subject_id > 0) AS s_all,
                                                SUM(d.decision_id IS NULL) AS s_no
                                            FROM
                                                p39_subject AS s
                                            LEFT JOIN p39_decision AS d
                                            ON
                                                s.subject_id = d.subject_id");

$subjects_count_stmt->execute();
$subjects_count_result = $subjects_count_stmt->get_result();
$subjects_count_row = $subjects_count_result->fetch_assoc();
?>
<!-- الفلتر للمقحة -->
<div class="decision-filter">
    <div class="row">
        <a class="btn-basic" href="all_subjects.php?f=all">
            <?= جميع الموضوعات ?=
            <?= $subjects_count_row["s_all"] == NULL ? 0 : $subjects_count_row["s_all"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=s_no">
            <?= الموضوعات بدون قرارات ?=
            <?= $subjects_count_row["s_no"] == NULL ? 0 : $subjects_count_row["s_no"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=a_s">
            <?= الموضوعات المقبولة ?=
            <?= $subjects_count_row["a_s"] == NULL ? 0 : $subjects_count_row["a_s"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=r_s">
            <?= الموضوعات المعرفة ?=
            <?= $subjects_count_row["r_s"] == NULL ? 0 : $subjects_count_row["r_s"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=p_s">
            <?= الموضوعات المجلة ?=
            <?= $subjects_count_row["p_s"] == NULL ? 0 : $subjects_count_row["p_s"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=e_s">
            <?= الموضوعات بقرار تنفيذي ?=
            <?= $subjects_count_row["e_s"] == NULL ? 0 : $subjects_count_row["e_s"] ?>
        </a>
        <a class="btn-basic" href="all_subjects.php?f=e_s1">
            <?= الموضوعات بقرار تنفيذي منفذ ?=
            <?= $subjects_count_row["e_s1"] == NULL ? 0 : $subjects_count_row["e_s1"] ?>
        </a>
    </div>
</div>

```