



AN-NAJAH NATIONAL UNIVERSITY

FACULTY OF ENGINEERING & INFORMATION  
TECHNOLOGY

## **Campus Link**

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supervised by

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# **Disclaimer**

This document, created by Bassam Tuffaha and Yazan Diab at An-Najah National University's Computer Engineering Department, is presented as submitted. It might contain errors in language or content. The views and conclusions are those of the authors alone, and the University is not responsible for any use of the information contained herein beyond its intended academic purpose.

# Abstract

Our project is an easy and fun app and website designed for university students from all around the world. We've created a place where students can come together on one platform to make their studying and university life simpler. Our app includes a bunch of different universities, their courses, and even different majors. For each course, there's a special page loaded with helpful things like e-books, videos, and notes.

One of the best features of our app is the group project space. Here, students can work together on their assignments and chat in a special area, making teamwork smooth and enjoyable.

We've also got a section for job offers. This part connects students with jobs that are a good fit for what they're studying, which is great for finding part-time work or thinking about careers after university.

Our app makes sure students don't forget important stuff. It sends reminders about exams and due dates for assignments. Students can pick their courses for the semester, and the app will keep them updated with any new information or materials.

But that's not all. Our app has a really cool questions and posts page. Here, students can ask questions, and the questions they see are all about the courses they've chosen. This means they get to see stuff that's really relevant to what they're studying. Plus, if they want to, they can filter the questions to see only those from a specific course, college, or major.

In short, our app is more than just about studying. It's a whole package that helps with courses, group projects, job hunting, and staying organized. And the best part? It's super easy to use and tailored to what students need.

# Chapter 1

## Introduction

In today's rapidly evolving educational landscape, university students across the globe face numerous challenges in accessing quality educational resources, collaborating on academic projects, and preparing for their future careers. Our project introduces a comprehensive web and mobile application designed to address these challenges by providing a unified platform for academic collaboration and resource sharing.

### 1.1 Problem

The main problem we're addressing is that many university students find it hard to get the right study materials and to connect with other students and teachers easily. Right now, there isn't one place where students can go to find everything they need for their courses. They often have to search in different places for notes, videos, or books. Also, working together on group projects or talking to teachers can be tricky without a good way to communicate.

Another big problem is finding job opportunities that match what students are studying. Many students don't know where to look for jobs or internships that are right for them. This makes it hard to start their careers after they finish university.

Our project aims to solve these problems by creating an app and website where everything a student needs is in one place. This will make studying easier and help students get ready for their future jobs.

## 1.2 Objectives

Our project aims to create a helpful and easy-to-use app and website for university students with the following main goals:

- **All-in-One Study Resource:** Develop a single platform where students can easily find all sorts of study materials for their courses, including books, videos, and notes, all organized in one place.
- **Encourage Student Collaboration:** Provide features that enable students to discuss their courses, ask and answer questions, and share ideas, fostering a supportive student community.
- **Simplify Group Projects:** Create a dedicated space in the app for students to collaborate on group projects, offering chat and file-sharing functionalities to make teamwork more manageable.
- **Job and Internship Opportunities:** Integrate a section in the app for job offers that are relevant to students' areas of study, helping them transition smoothly into their future careers.
- **Academic Management Tools:** Include tools to help students keep track of important academic deadlines, such as exams and assignment due dates, with timely reminders.
- **Course Updates and Notifications:** Enable students to select their courses on the app and receive updates or notifications about new materials or changes in their courses.
- **Student Contributions and Interactivity:** Allow students to contribute their own study materials and resources to the platform, enhancing the collaborative and interactive learning experience.

Our ultimate goal is to create a community-driven platform that simplifies academic life for students, making it easier for them to access resources, collaborate, and prepare for their future careers.

## 1.3 Scope of the Work

In this project, we're focusing on a few important things to make sure our app and website are really useful for university students. Here's what we're working on:

- **Wide Range of Courses and Colleges:** We're including lots of different colleges and their courses in the app. This means students from all over can find what they need for their own studies.
- **Study Materials in One Place:** For each course, there will be a special page where students can find all sorts of study stuff like books, videos, and notes.
- **Discussion and Community:** We're making sure there's a place in the app where students can talk about their courses, ask questions, and help each other out.
- **Group Project Area:** We know group projects can be tough, so we're adding a special part of the app where students can work together, chat, and share files.
- **Job Finding Feature:** It's important for students to find good jobs, so we're adding a part to the app where they can find job offers that fit what they're learning in school.
- **Reminders and Notifications:** We don't want students to miss important stuff like deadlines and exams, so the app will send them reminders.
- **User-Friendly Design:** We're making sure that the app and website are easy to use, look nice, and work well on different devices like phones and computers.
- **Keeping Everything Updated:** We'll keep checking to make sure all the information and materials on the app are up-to-date and useful for students.

Our goal is to cover everything a student might need for their studies, from finding materials to getting ready for jobs, all in a way that's easy and fun to use.

## 1.4 Importance of the Work

Our project is really important for a few big reasons:

- **Makes Studying Easier:** By putting all study materials and resources in one place, we make it much simpler for students to find what they need. This can save them a lot of time and stress.
- **Brings Students Together:** Our app helps students from different places and courses to connect and help each other. This kind of sharing and talking can make learning better and more fun.
- **Helps with Future Jobs:** Finding the right job or internship can be tough. Our app makes this easier by showing job offers that match what students are studying. This helps them get a good start in their careers.
- **Supports Group Work:** Group projects are a big part of a university. Our app makes it easier to work together, share files, and chat, which can make these projects go smoother.
- **Keeps Students Organized:** With reminders for exams and deadlines, students can stay on track with their studies. This means less worrying about missing something important.
- **Easy to Use:** We're making sure our app and website are simple and fun to use. This is really important so that everyone can use them without any trouble.
- **Always Up-to-Date:** We'll keep updating the app with the latest information and resources. This means students always have the best and most recent materials for their studies.

In short, our project is important because it helps students in lots of ways, from studying and talking to each other, to getting ready for jobs, all in a way that's easy and friendly to use.

## 1.5 Organization of the Report

The report begins with the chapter 'Background and Challenges', which focuses on the key obstacles encountered during the development of our project. It also

reflects on previous works and experiences that informed and influenced our approach.

Following this, the 'Literature Review' chapter is presented. This section introduces and discusses related work in the field, highlighting how our project differs and adds value compared to existing solutions.

The fourth chapter, 'Development Strategy and Technology', explores the foundational elements of our project's creation. It discusses the selection of tools, programming languages, and technologies that form the backbone of both our mobile and web applications. This chapter highlights our strategic choices in frameworks and systems to ensure a robust and scalable platform.

Following this, the fifth chapter, 'Implementation and Features', offers a detailed examination of how the project's functionalities were brought to life. It walks through the implementation process of key features, from user registration to the comprehensive control panel for administrators. This chapter showcases the practical application of the architectural designs and technologies outlined in the previous chapter, demonstrating how theoretical plans were translated into a functioning educational platform.

In the 'Future Work and Enhancements' chapter, we outline potential improvements and additional features that we aim to incorporate into our project in the future. This includes anticipated technological advancements and user feedback considerations.

The penultimate chapter, 'Conclusion and Recommendations', summarizes the key points of the project and reflects on the lessons learned. It also provides recommendations for similar projects and outlines the potential impact of our work in the academic field.

The final chapter is dedicated to 'References', where all the sources of information, research materials, and previous works referenced throughout the report are comprehensively listed.

# Chapter 2

## Background and Challenges

In this chapter, we delve into the origin and the hurdles we faced during the development of our project.

### 2.1 Background

The idea for our project emerged from a clear need: a unified platform where university students globally can access everything they need for their academic journey in one place. We recognized the hassle students face juggling between different websites and apps for study materials, course information, or job searches. Thus, the concept of our all-in-one app was born.

### 2.2 Challenges

- **Learning New Technologies in a Limited Timeframe:** A major challenge we faced was the time constraint. With only four months at our disposal, we had to rapidly learn and implement new programming frameworks and technologies. This steep learning curve required intensive effort and efficient time management to ensure the timely completion of our project.
- **Designing User Experience Under Time Pressure:** Crafting an app that is both user-friendly and aesthetically pleasing, especially under a tight deadline, was a significant hurdle. Ensuring the app's interface was intuitive and compatible across various devices added to the complexity, given our limited timeframe for development.

- **The Impact of the Brutal war on Gaza Strip:** Perhaps the most profound challenge was the brutal war on the Gaza Strip that began on 7/10. The mental and emotional toll this war took on our team was considerable. Dealing with the psychological effects of the war, while striving to maintain focus on our project, was a strenuous balancing act. The war's impact extended beyond emotional distress, as it also introduced logistical challenges that affected communication and coordination within our team.

Despite these challenges, our team remained dedicated to the vision of the project. Our goal is to deliver a platform that not only meets the academic and professional needs of students worldwide but also stands as a testament to resilience and determination in the face of adversity.

# Chapter 3

## Literature Review

This chapter provides an overview of the background research that informed the development of our unique educational platform. While there are existing websites offering similar services, our project distinguishes itself with several innovative features tailored for today's university students.

### 3.1 Emergence of Educational Platforms

The evolution of educational platforms has been pivotal in shaping modern learning experiences. We explored general trends in this domain, focusing on how digital resources and interactive tools are increasingly being integrated into students' academic lives. This research helped us understand the key components valued in such platforms and informed the development of our app's user-centric design.

### 3.2 Mobile App Integration in Education

A critical aspect of our project is the inclusion of a mobile application, a feature not commonly found in similar platforms. Studies indicate that mobile app accessibility significantly enhances engagement and learning flexibility for students. This insight drove our decision to develop a mobile version of our platform, ensuring that students have access to resources and collaborative tools anytime, anywhere.

### **3.3 Innovative Features of Our Platform**

Unique to our platform are the workspaces and job offers features. The workspace functionality addresses the growing need for collaborative spaces within the educational sphere, allowing students to manage group projects more efficiently. Additionally, the integration of a job portal directly aligns with the career aspirations of university students, bridging the gap between academic learning and professional development. This dual approach of facilitating academic collaboration while providing career support sets our platform apart.

### **3.4 Responding to Student Needs**

We've gathered feedback from university students, and it's clear they're looking for a platform that goes beyond just study materials. They want something that also helps with their career goals and makes it easy to work on projects together. This feedback has really helped us shape what our app does and how it works.

In summary, our literature review highlighted the importance of mobile accessibility, collaborative spaces, and career support in educational platforms. These insights have been central to the development of our project, ensuring it meets the evolving needs of university students in a comprehensive and innovative manner.

# Chapter 4

## Development Strategy and Technology

### 4.1 Mobile Application

Because our application can be used on the mobile phone to a high degree, we have built a complete mobile application with all the features to make it easier for students to use it, and we have built it using a flutter framework. We have specifically selected a flutter it's provide single codebase for multiple platforms and has power community and results high-performance applications, with features like hot reload and a rich set of pre-designed widgets, developers can build and iterate on their apps quickly.

### 4.2 Web Application

For our project's web component, we crafted a comprehensive and accessible website that includes all the functionalities present in our mobile app. To achieve this, we utilized PHP Laravel and Vanilla JavaScript, chosen for their robustness and adaptability. Laravel's elegant syntax facilitated the creation of a secure, scalable web platform, while its MVC architecture ensures efficient management of the website's logic and presentation. Vanilla JavaScript enriched the site with interactive elements, offering users a seamless and responsive experience.

A unique feature of our website is the inclusion of a control panel designed specifically for administrators and supervisors. This control panel, developed with the same PHP Laravel and Vanilla JavaScript technologies, provides a stream-

lined interface for managing the platform's content, user activities, and overall functionality. The control panel allows administrators and supervisors to easily update course materials, oversee user interactions, and maintain the integrity of the educational platform. This addition ensures that our website not only serves the needs of students but also provides a robust tool for platform managers to effectively oversee and enhance the learning environment.

### **4.3 Database**

MySQL is the preferred database choice for Laravel PHP web applications due to its seamless integration with the framework. Laravel's Eloquent ORM simplifies database interactions, making it easy to work with MySQL databases. The compatibility between Laravel and MySQL is well-established, allowing for efficient management of database changes through migrations and schema building. MySQL's open-source nature and robust community support contribute to its cost-effectiveness and the availability of resources for troubleshooting and best practices. Additionally, MySQL's scalability, performance, and security features align well with Laravel, providing a reliable and widely adopted solution for building scalable and secure web applications.

### **4.4 Web socket protocol**

We've integrated WebSocket protocol to enhance the real-time functionality of our platform, specifically for notifications, messages within the chatting system, and the dynamic content of comments and replies. This technology establishes a continuous connection between the server and the user's device, allowing for the instant delivery of notifications and messages. This means that whether a student receives a new message in a chat, a notification about platform updates, or sees new comments and replies in a discussion, the information is updated in real-time without the need to refresh the page. This seamless communication is crucial for keeping students engaged and informed, facilitating immediate interaction and feedback within the community. By utilizing WebSocket, we ensure that our platform remains interactive and responsive, enhancing the overall user experience and fostering a lively and connected online learning environment.

## 4.5 External API

- **Rapid API** Since we have each student's majors in the application, we exploited this information by providing training and work offers to each student according to his major using an API called Rapid API. This API searches for any job or training offers based on a specific specialty and can also be filtered by The place also updates this data every time to be current and true, and the way to use it is simple and direct

## 4.6 Testing and QA

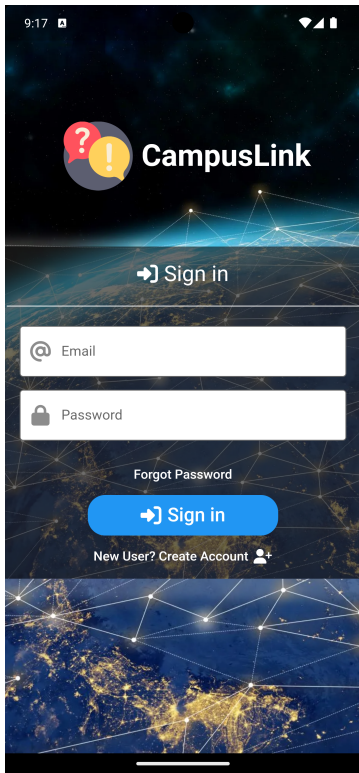
For testing and ensuring the quality of our platform, especially the backend functions, we rely on a tool called Postman. Postman is great because it lets us test our server's responses and requests without needing the front end to be ready. This means we can check if our app's backend is working correctly, like making sure it sends back the right data when asked. We use Postman to run tests on different parts of our app's backend, helping us catch any issues early on. This way, we make sure everything runs smoothly and efficiently, providing a reliable and seamless experience for our users.

# Chapter 5

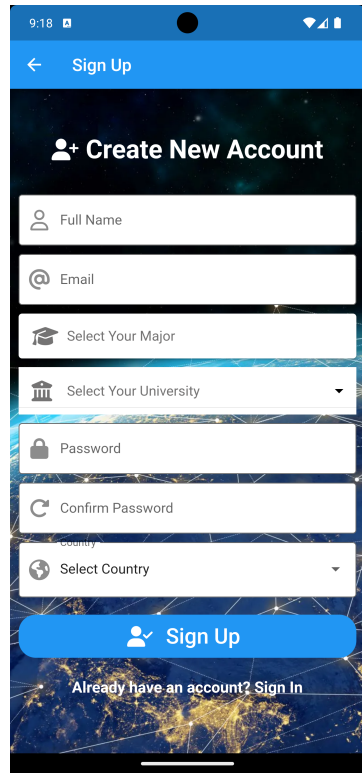
## Implementation and Features

### 5.1 Sign-in and Sign-up

When you open the app on your phone or computer, the first thing you see is the login page. This page is for students, admins, and supervisors. If you're new, you can set up a new account. Just click on "Register a New Account" and type in some details like your name, university, your major, and where you're from. After you fill in your info and we check it, you'll go to the main page.

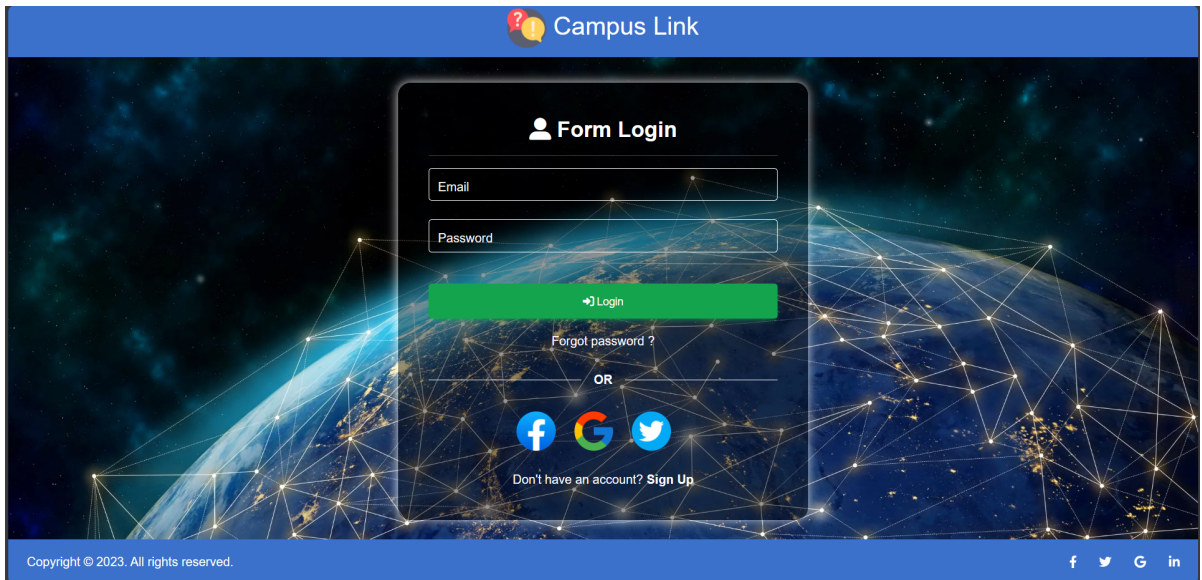


(a) Mobile sign-in page

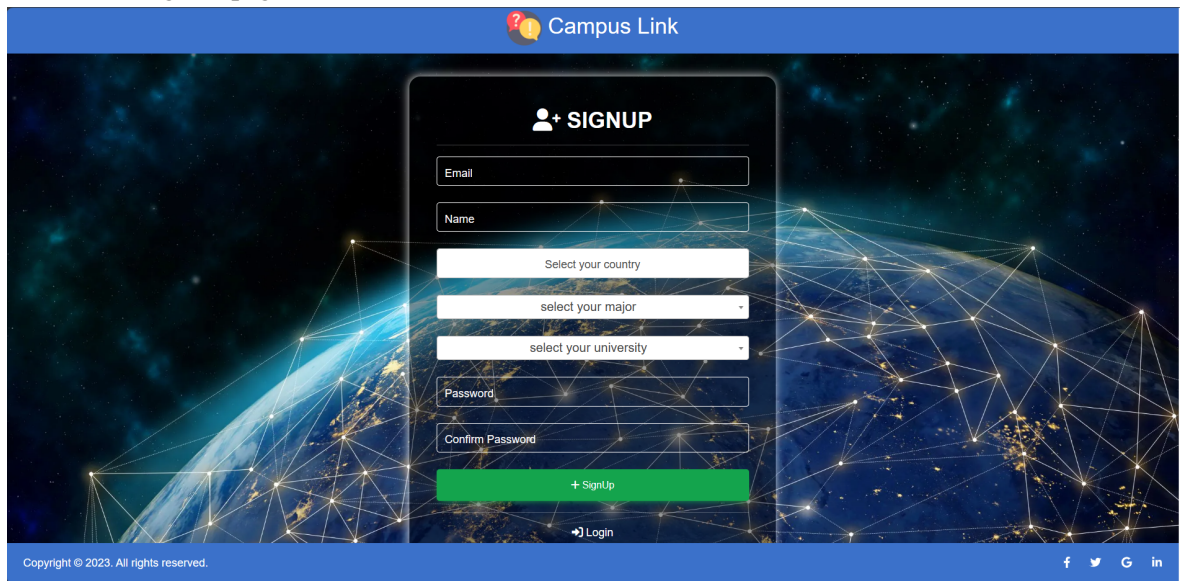


(b) Sign-up Page

Figure 5.1: Mobile Sign-in and Sign-up



(a) Web sign-in page

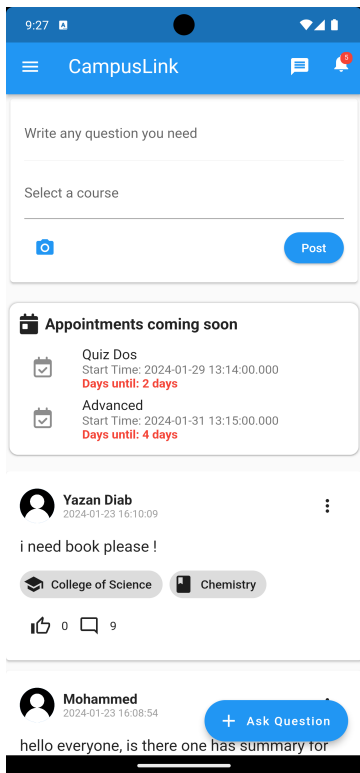


(b) Web Sign-up Page

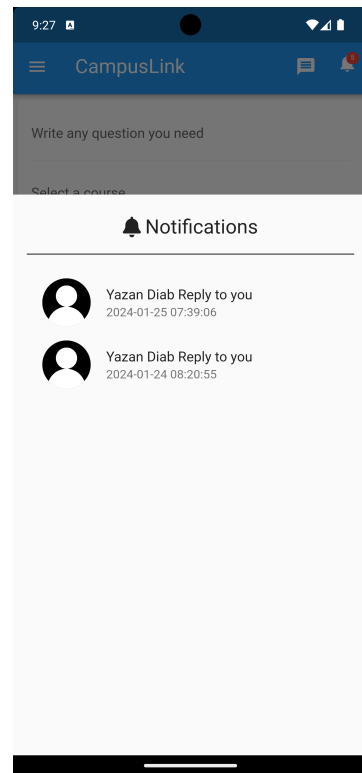
Figure 5.2: Web Sign-in and Sign-up

## 5.2 Home page

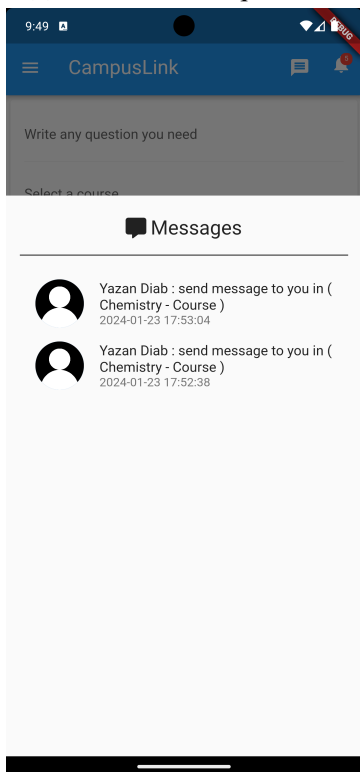
- **Recent questions for student courses:** After the student logs in and verifies his data, he will be transferred directly to the home page, where he will be shown the latest questions about his courses (if he selects them) and also the most recent questions about his specialty.
- **Notifications:** Here the latest notifications for the student appear, and they appear directly and clearly to the user when he is using the application. There are many types of notifications:
  - a- A notification indicating a new comment on a student's question or a response to a student's comment
  - b- notification of invitation to join Workspace
  - c- notification from supervisors related to the student's questions and responses
- **Messages:** Here, notifications of new messages appear to the student and appear directly as well. The messages can be in Workspace or messages with a course supervisor.
- **Sidebar:** This menu is used to navigate between all pages and is located in a place to make it easier for the user to navigate at any time.



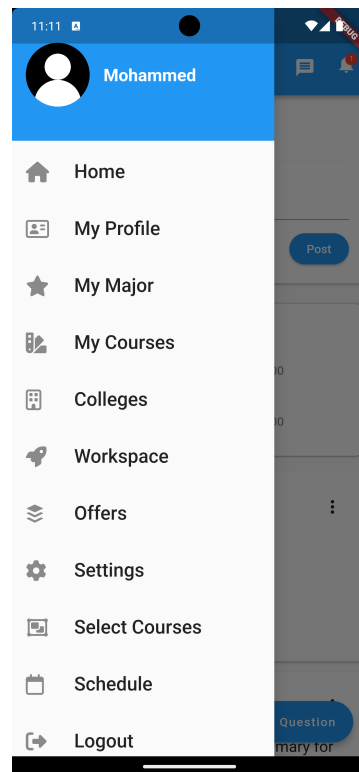
(a) Mobile recent questions



(b) Mobile Notifications

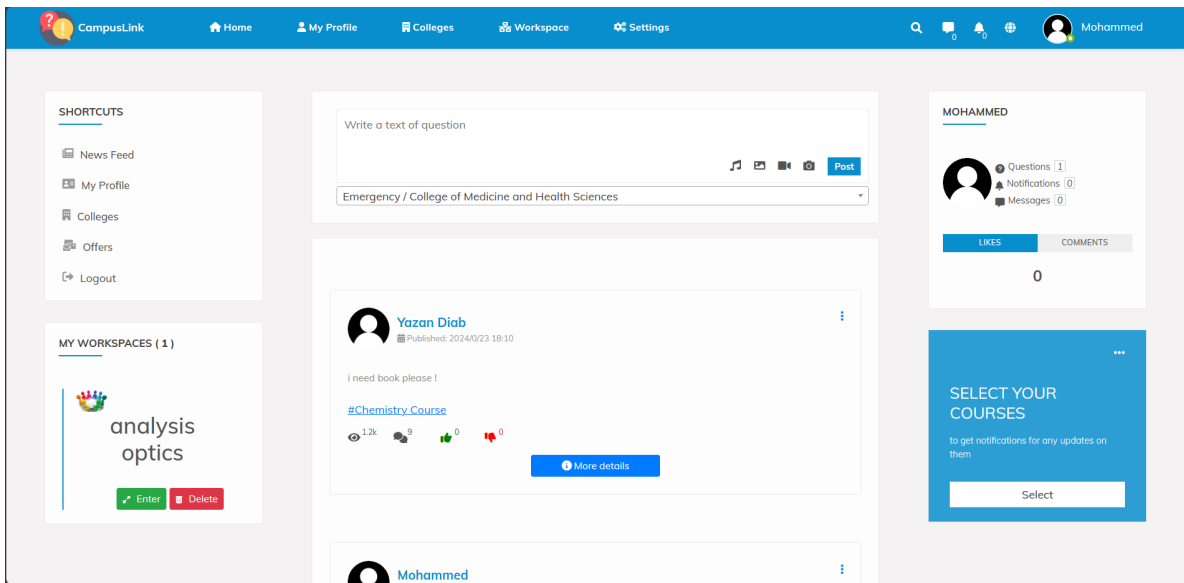


(c) Mobile Messages

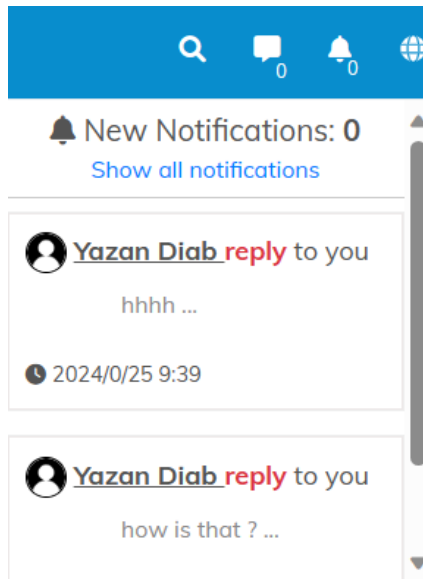


(d) Mobile Sidebar

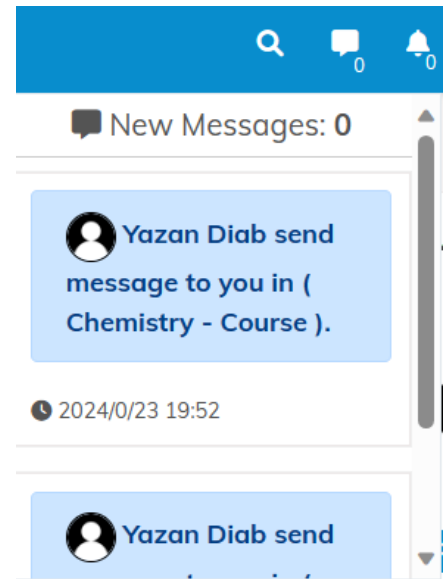
Figure 5.3: Mobile Home page Figures



(a) Mobile recent questions



(b) Mobile Notifications



(c) Mobile Messages

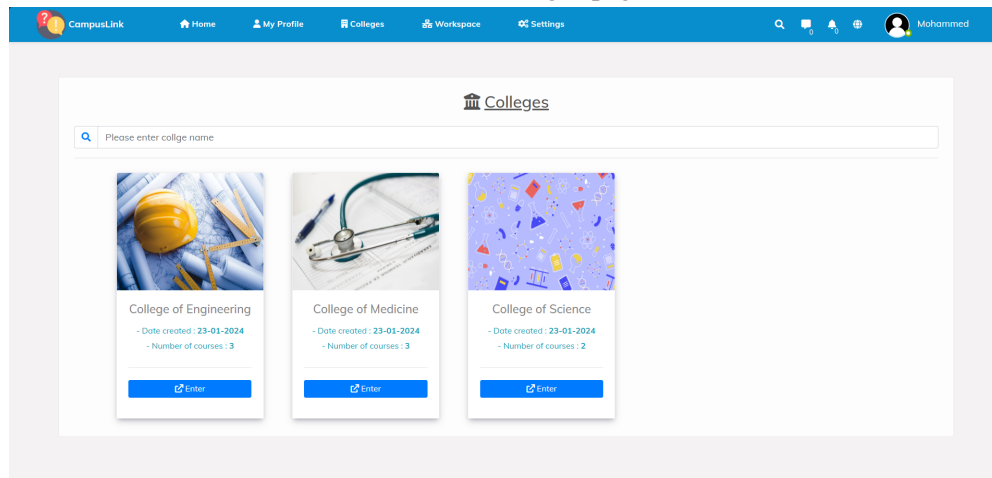
Figure 5.4: Web Home page Figures

## 5.3 Colleges

This page displays all the colleges in the application that are added by the supervisors. Within each college there is a group of majors affiliated with it, and at the same time there is also a group of courses affiliated with it, and all of them are controlled by the supervisors and the administrators.



(a) Mobile Collages page

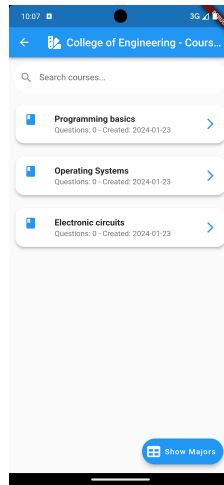


(b) Web Collages Page

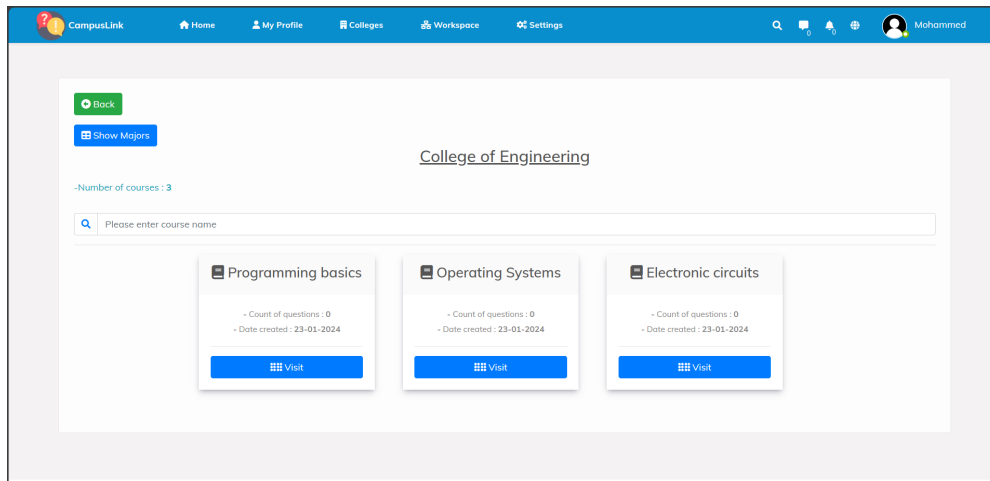
Figure 5.5: Web And Mobile Collages Page

## 5.4 Courses

When you enter this page, it displays all the courses affiliated with the college that you have accessed.



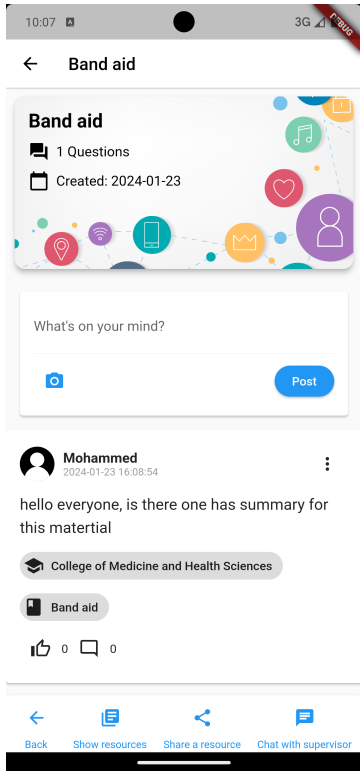
(a) Mobile Courses page



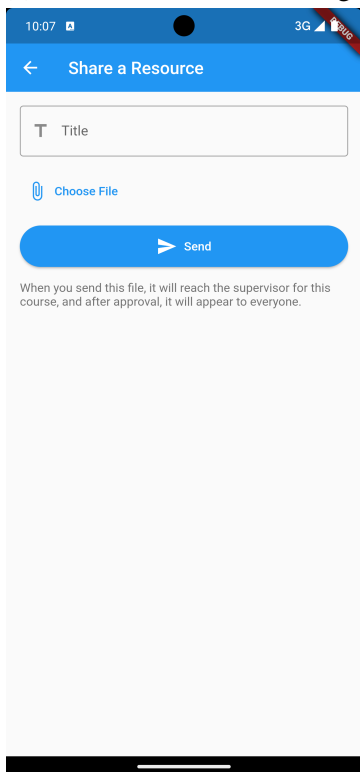
(b) Web Courses Page

Figure 5.6: Web And Mobile Courses Page

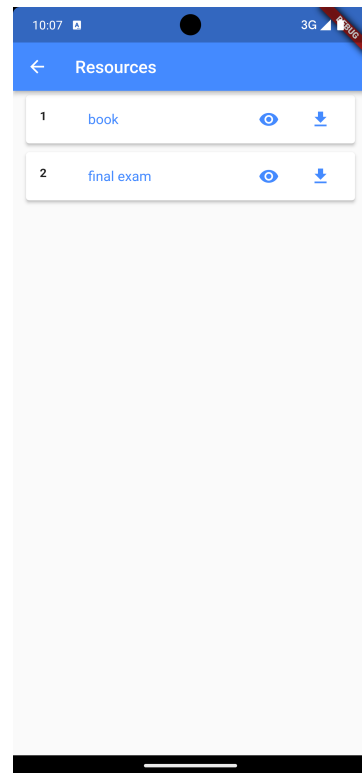
- **Home Page for a Course:** After entering a specific course, a page specific to this course is displayed, where all the questions related to it and some information such as the college it belongs to and the number of questions appear on the main page of this course.
- **Resources for a Course:** This interface displays all the resources related to this course, as they are added by an appointed course supervisor.
- **Share Resource for a Course:** Students can also share a useful resource for the course through this interface, after which it is sent to the supervisor to review and approve it so that it appears to all students.
- **Chat with Supervisor of a Course:** The student can have a conversation with the course supervisor to ask about specific details.



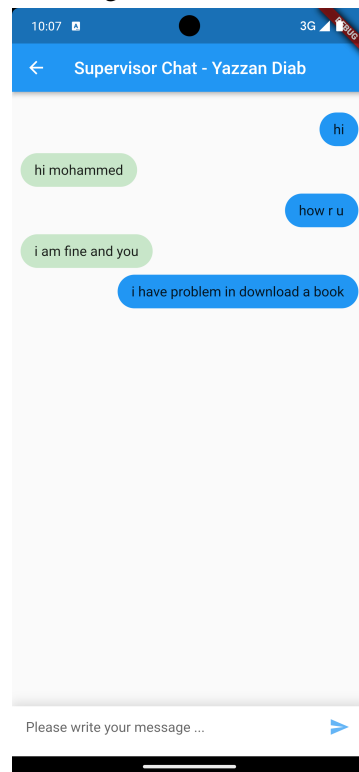
(a) Mobile Courses Home Page



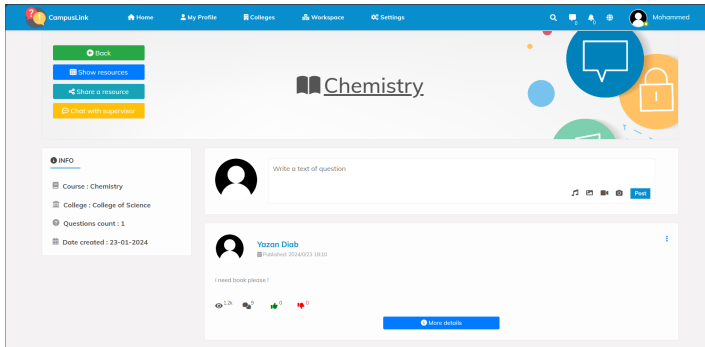
(c) Mobile Share a Resources for a Course



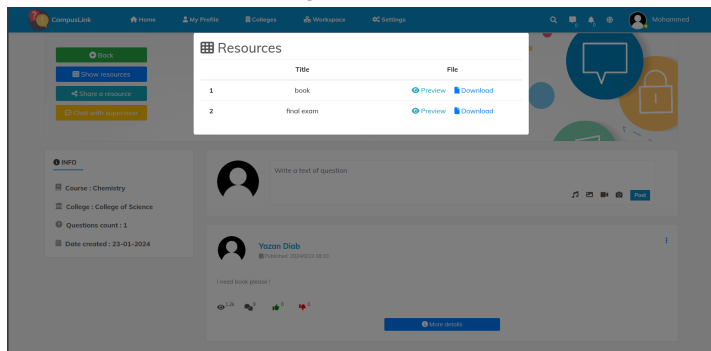
(b) Mobile Courses Resource Page



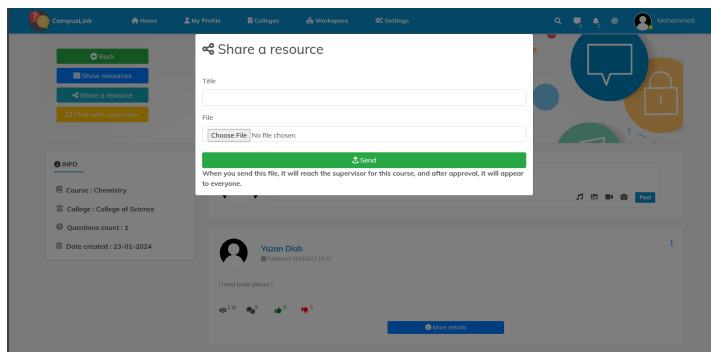
(d) Mobile Chat with Supervisor of a Course



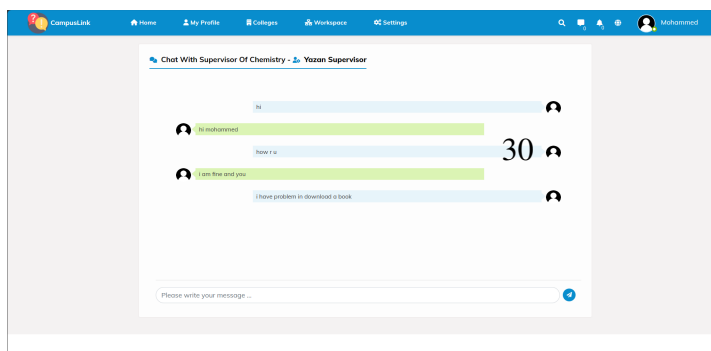
(a) Web Courses Home Page



(b) Web Courses Resource Page



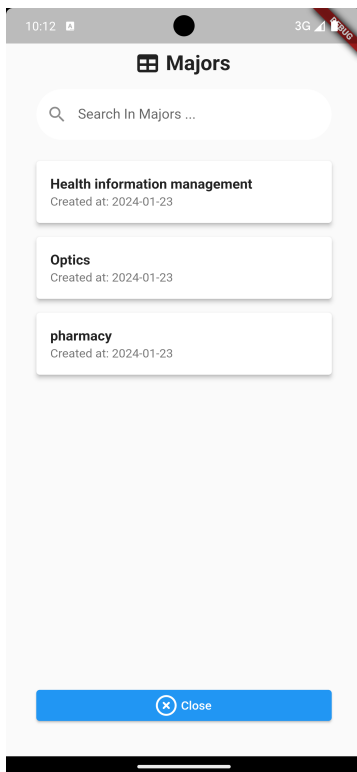
(c) Web Share a Resources for a Course



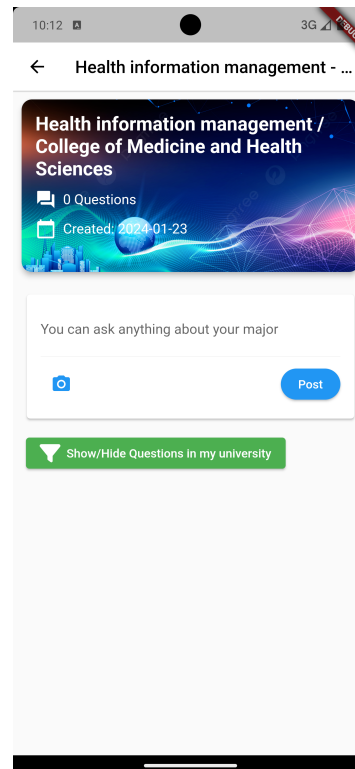
(d) Web Chat with Supervi-

## 5.5 Majors

As we said, for each college there are courses and majors. On this page, all the majors affiliated with a particular college are displayed. When you click on a major, a special page for this major opens, containing questions asked by students regarding this major and basic information about it.

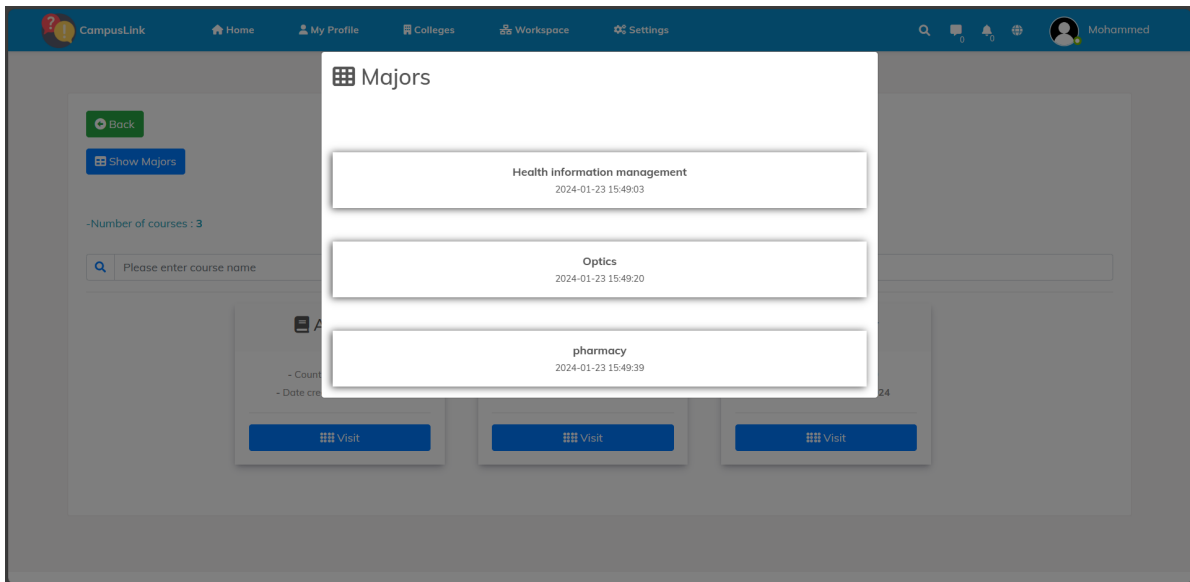


(a) Majors in a specific college

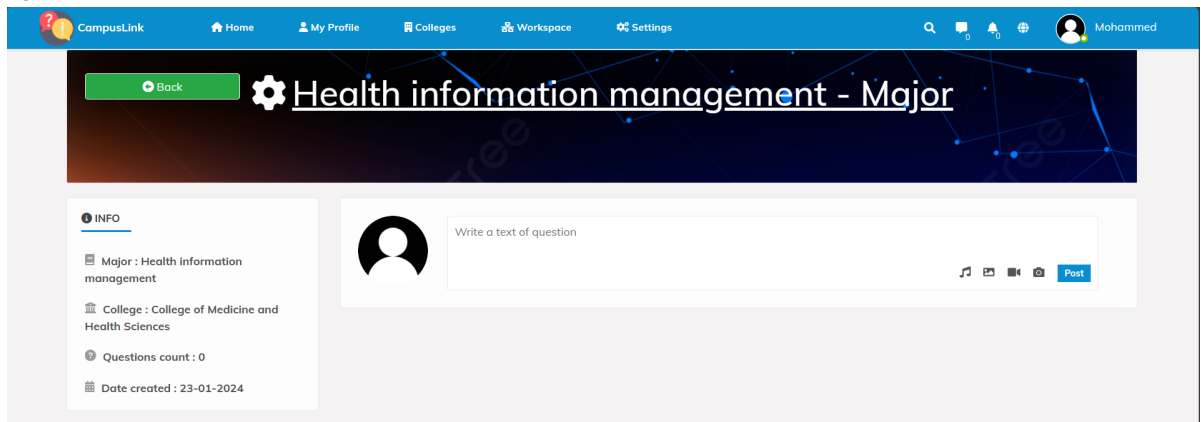


(b) Major's details and questions

Figure 5.9: Mobile Major's Pages



(a) Majors in a specific college

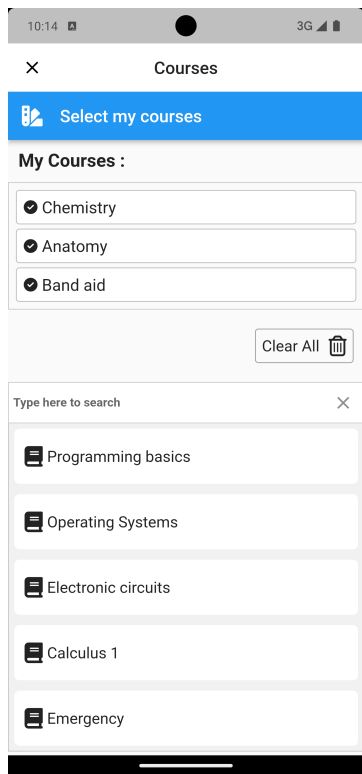


(b) Major's details and questions

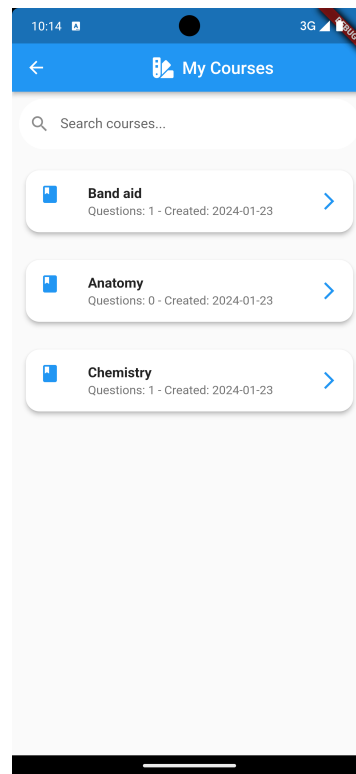
Figure 5.10: Web Major's Pages

## 5.6 Student Courses

There is a page for registering a student's courses so that he can be notified of the latest additions and changes to his courses and also see all recent questions. He can choose any number of courses and modify them as well, and there is a page to show his courses.



(a) Student Selects his Courses



(b) Student Selected Courses

Figure 5.11: Mobile Student Courses Pages

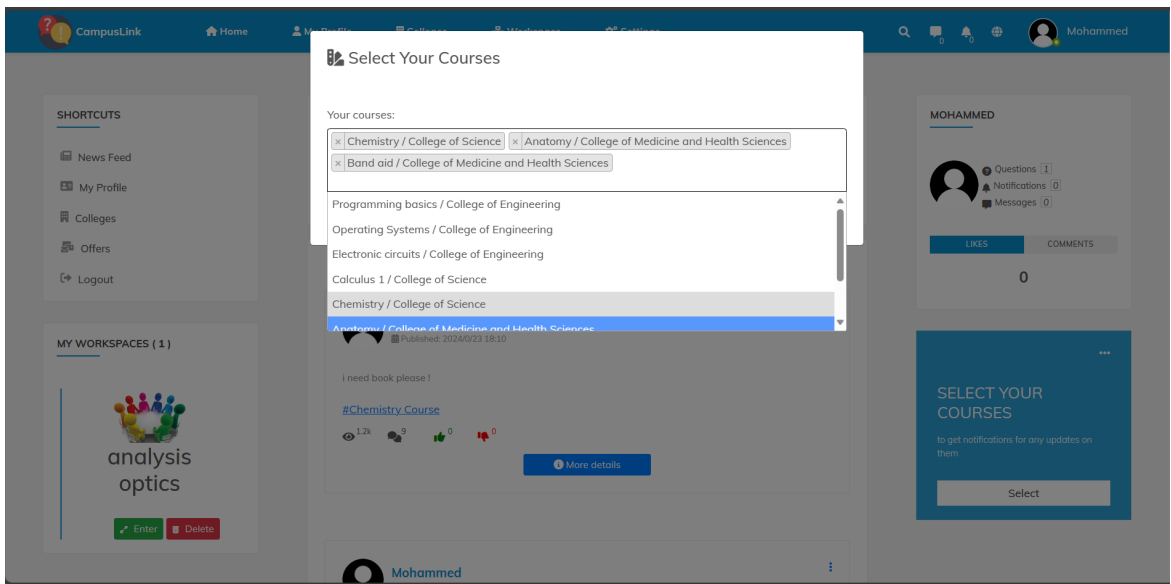
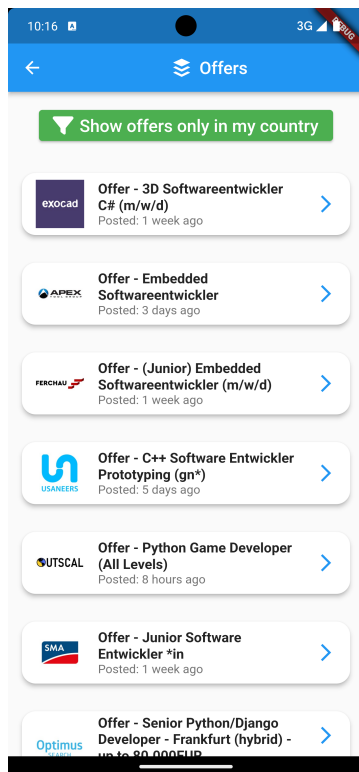


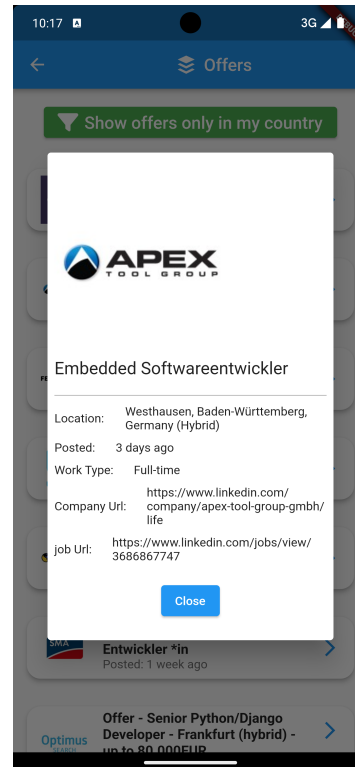
Figure 5.12: Web Student Courses Pages

## 5.7 Offers

All job and training offers are brought and displayed to the student based on the specialization he has selected, and these offers are updated daily to be useful to everyone, and this helps students obtain training and jobs.



(a) Available Offers Page



(b) Details of a selected offer Page

Figure 5.13: Mobile Offers Pages

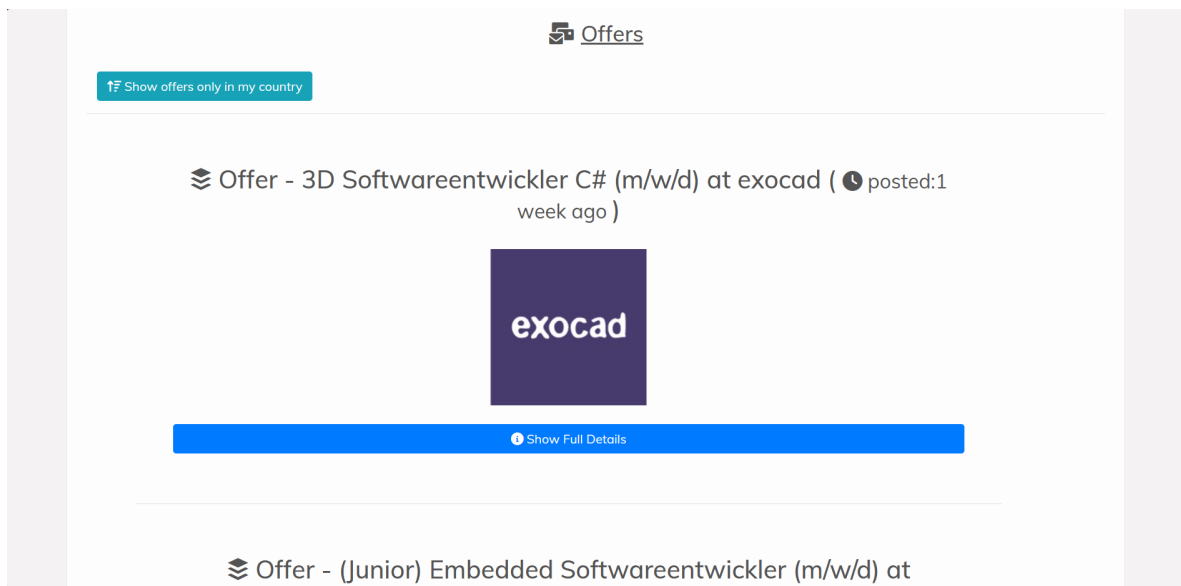
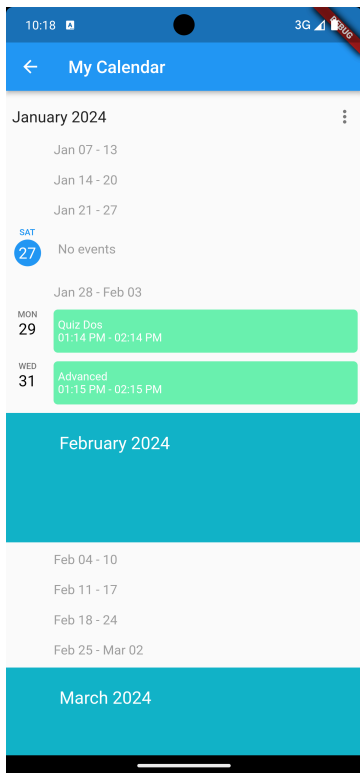


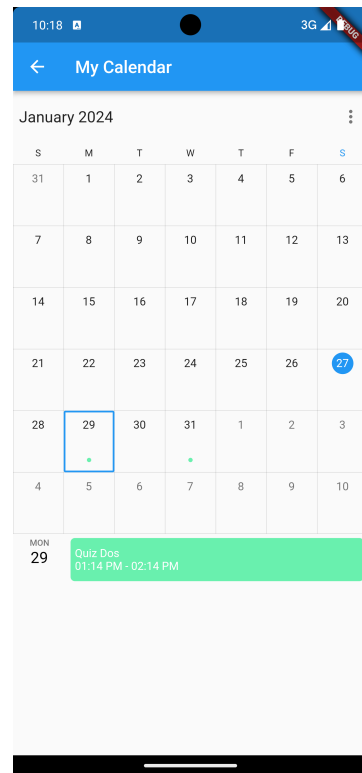
Figure 5.14: Web Offers Pages

## **5.8 Schedule**

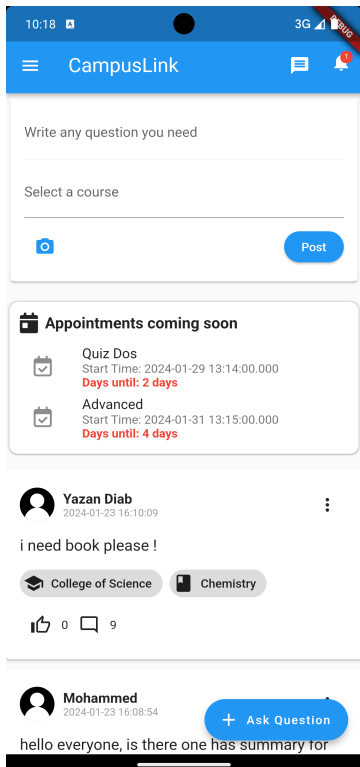
This feature is specific to the mobile application only, as the student uses it to organize all his times at the level of months, weeks, days, and hours. The student sets all his appointments for exams, projects, etc., and then when an appointment approaches, it is displayed on the main page of the application, and this is to alert the student that the appointment is approaching.



(a) Events in a Selected Week



(b) Events in a Selected Day

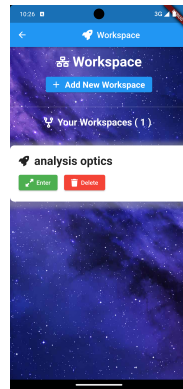


(c) Upcoming events in the home page

## 5.9 Workspace:

Since this application is considered a platform that includes university students, we have worked to add a place that includes a group of specific students to work on a project called Workspace, where any student can create it and invite any student to it easily, and this place provides the simplicity of group work using many features.

- **Student Workspaces:** This interface displays all of the student's Workspaces, whether they belong to him or he has joined.



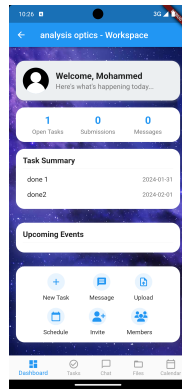
(a) Mobile Student Workspaces



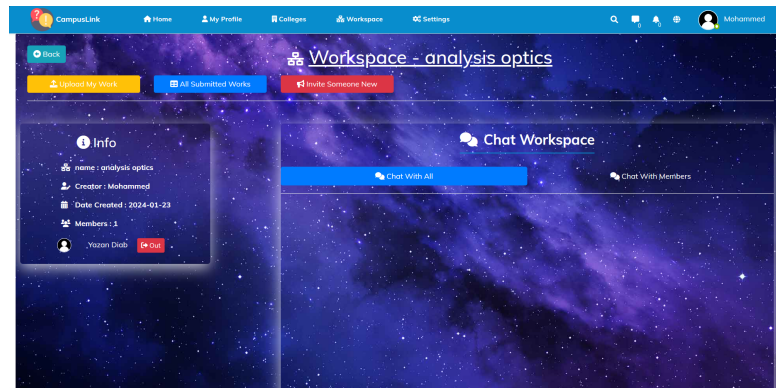
(b) Web Student Workspaces

Figure 5.16: Web And Mobile Student Workspaces

- **Dashboard Page:** When you enter workspace, the workspace dashboard appears, displaying details about it and also information about all updates in this workspace. It displays the achievements of each student and the appointments that have been set, and it is also possible to invite someone to join, and it displays all the students within it. During which you can navigate to other pages that we will explain later.

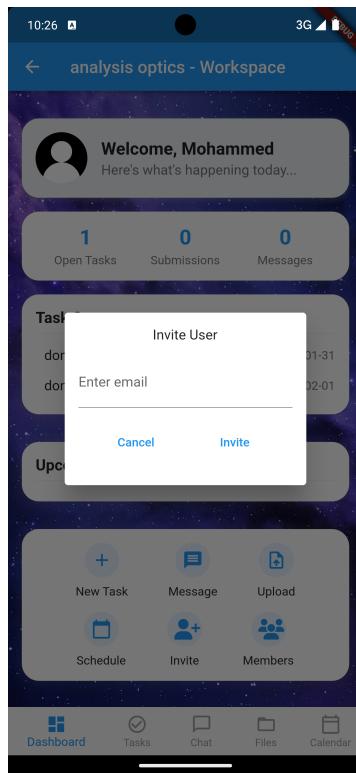


(a) Mobile workspace dash- (b) Mobile workspace Mem-  
board board

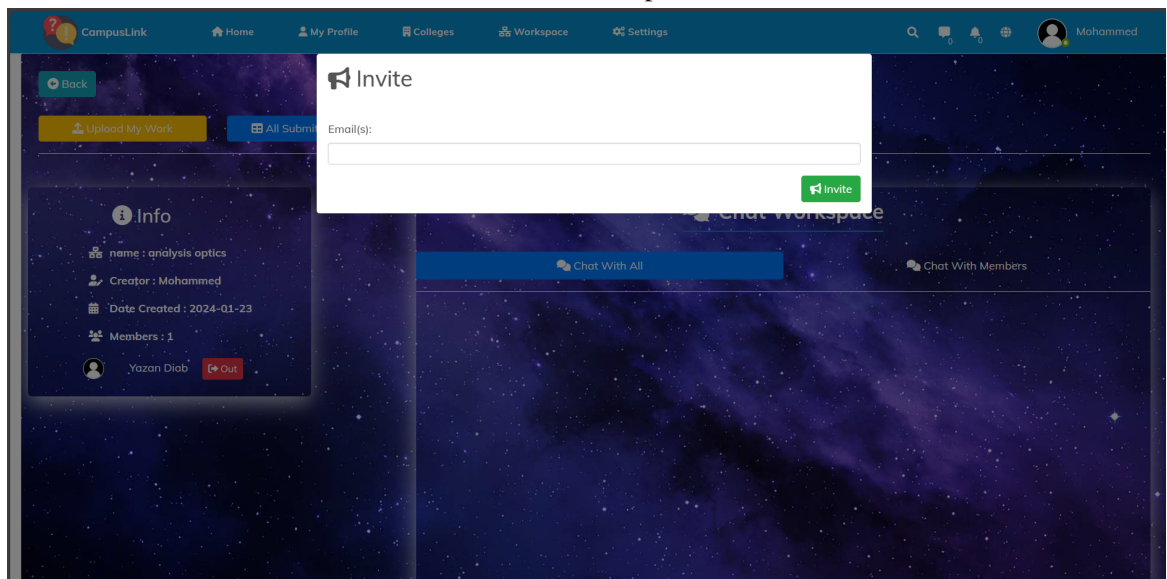


(c) Web workspace dashboard

Figure 5.17: Web And Mobile Workspace dashboard



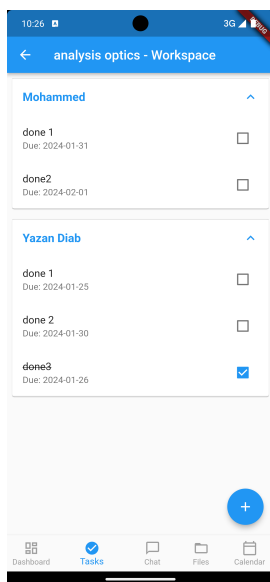
(a) Mobile invite to workspace



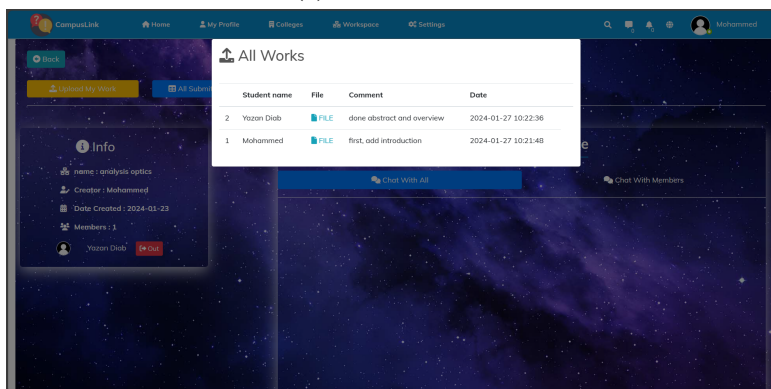
(b) Web invite to workspace

Figure 5.18: Web And Mobile invite to Workspace  
41

- **Tasks Page:** This part is dedicated to each student within this workspace, where he sets the goals he has and the date they are expected to accomplish them, and when he finishes any task, he marks them as completed, and this is visible to all members.



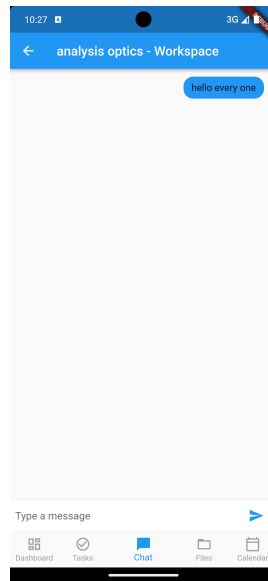
(a) Mobile tasks



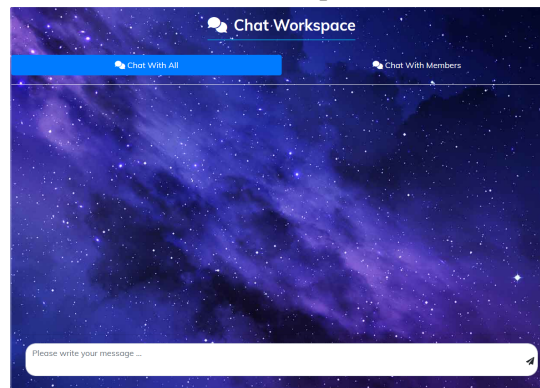
(b) Web tasks

Figure 5.19: Web And Mobile tasks

- **Chat Page:** This is a special page for conversation between members of this workspace to enable them to easily communicate with each other directly



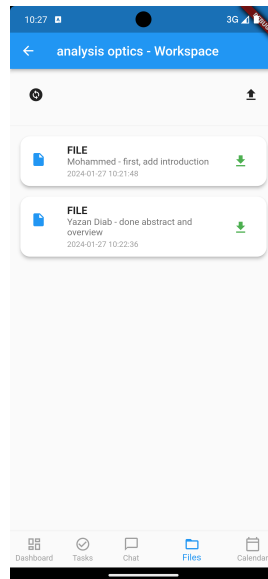
(a) Mobile Workspace Chat



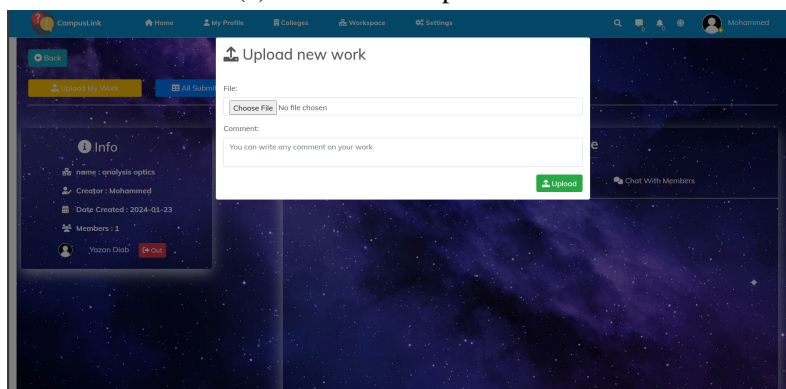
(b) Web Workspace Chat

Figure 5.20: Web And Mobile Workspace Chat

- **Files Page:** This part is responsible for receiving files from members, and these files are considered functions accomplished by members, as each member submits any file and writes a comment on it if he wants, and these files appear in an organized manner for everyone. This helps organize and facilitate group work.



(a) Mobile Workspace Files



(b) Web Workspace Files

Figure 5.21: Web And Mobile Workspace Files

- **Calendar Page:** Finally, the calendar page, through which any member can designate a specific event and specify its time, and this is visible to everyone so that they are directly connected to all new information.

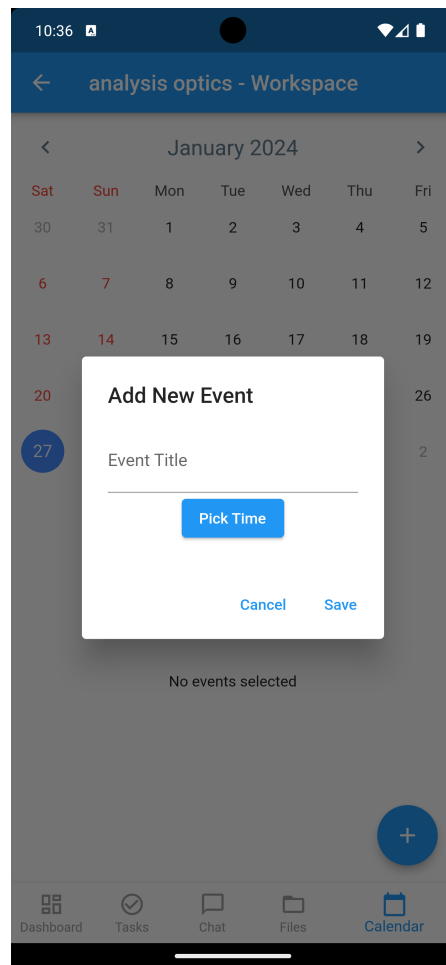
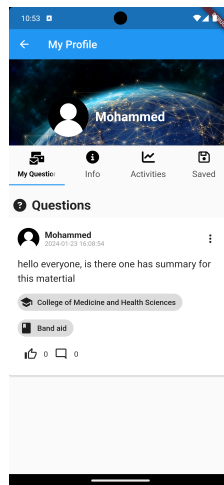


Figure 5.22: Mobile Workspace Calendar Pages

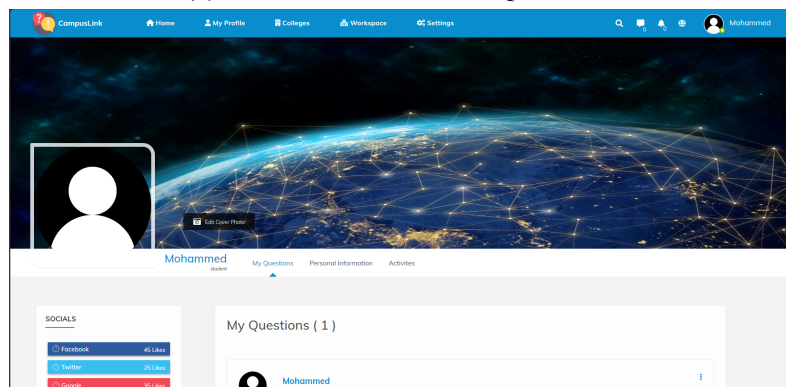
## 5.10 Student Profile

This is a private page for each student that is not visible to anyone. Through it, his or her personal photo can be modified and it also contains information about the student.

- **Student Questions:** This section displays all questions related to the student



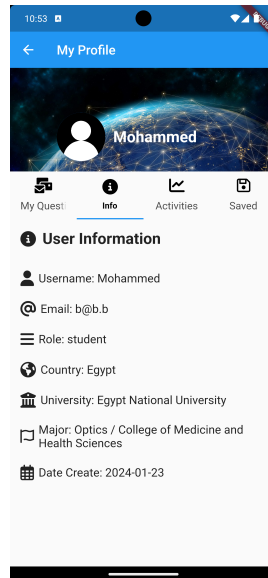
(a) Mobile Student Asked Questions



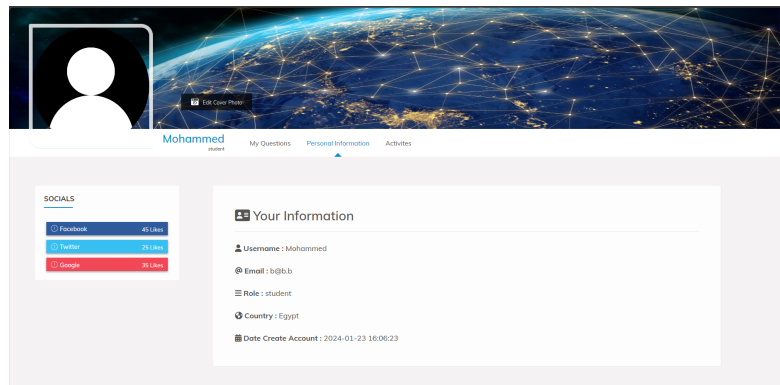
(b) Web Student Asked Questions

Figure 5.23: Web And Mobile Student Asked Questions

- **Student Informations:** This section displays all of the student's information



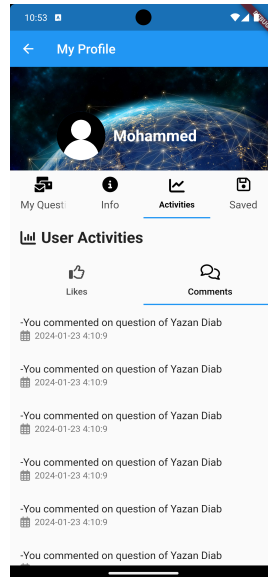
(a) Mobile Student Info



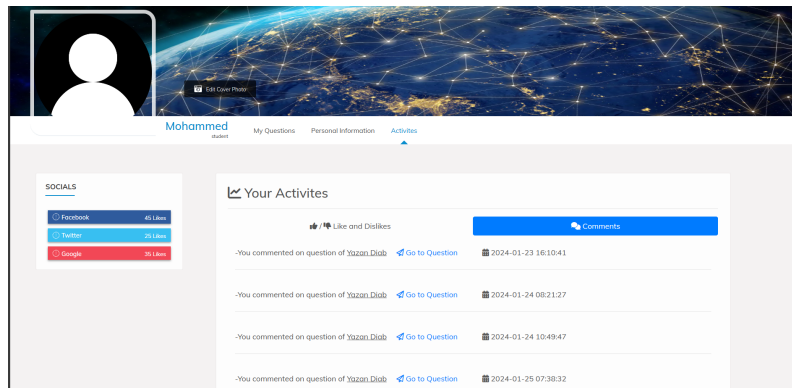
(b) Web Student Info

Figure 5.24: Web And Mobile Student Info:

- **Student Activities:** The activities section displays the student’s activities and questions



(a) Mobile Student Activity

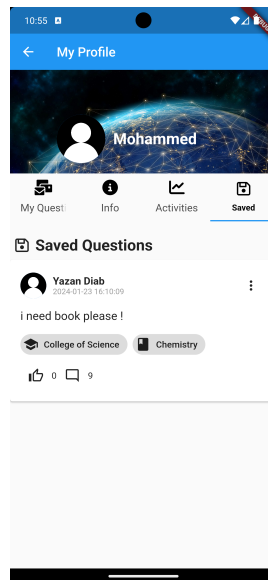


(b) Web Student Activity

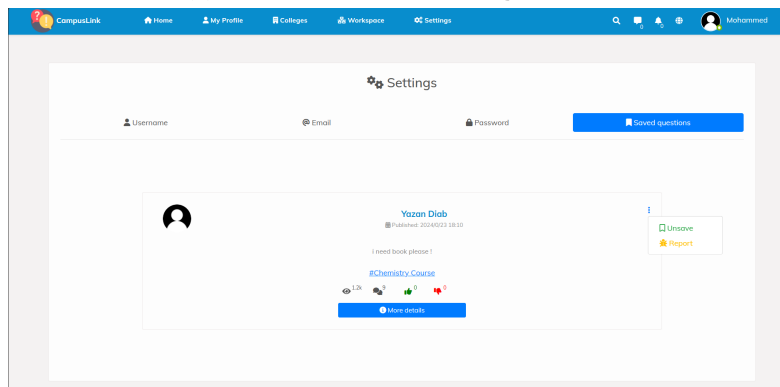
Figure 5.25: Web And Mobile Student Activity:

## 5.11 Student Saved Questions

This page displays all the questions that the student has saved because they are important to him or he needs them later.



(a) Mobile Student Saved Questions



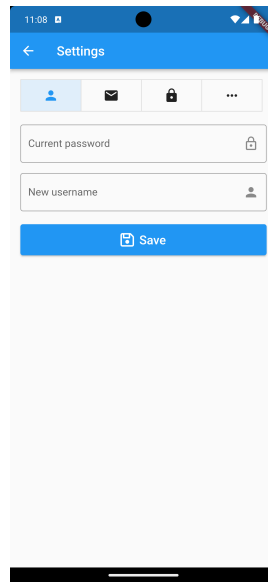
(b) Web Student Saved Questions

Figure 5.26: Web And Mobile Student Saved Questions

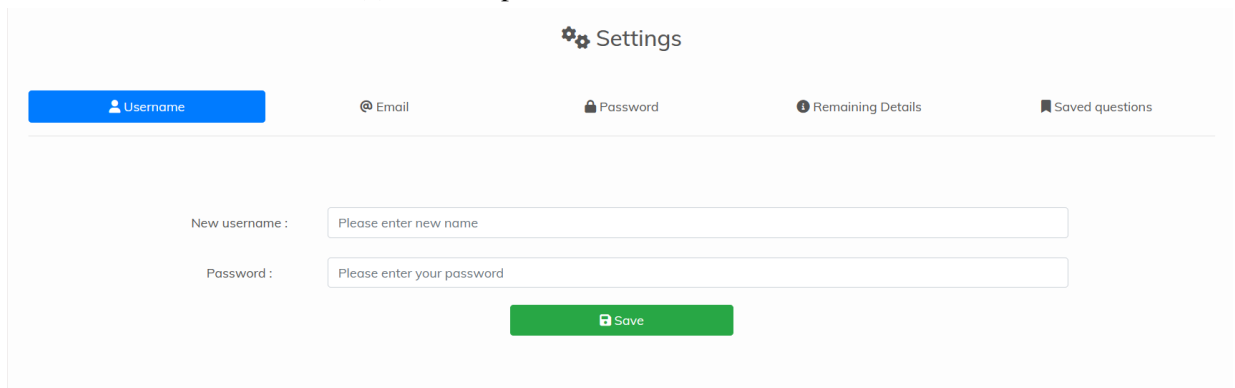
## 5.12 Student Settings

This page allows the student to modify his data.

- **Update Name:** Here to modify the student's name, and of course, this requires his current password



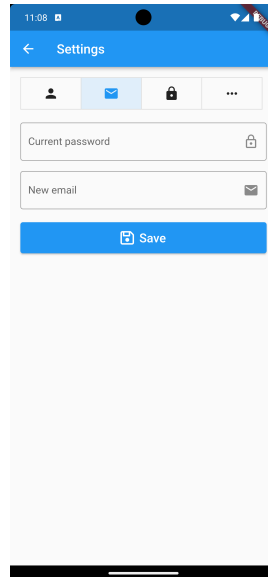
(a) Mobile update username



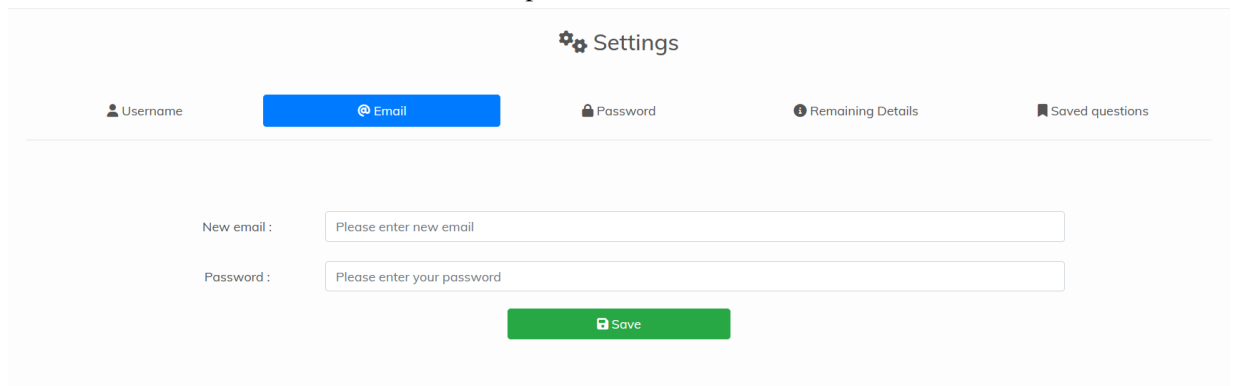
(b) Web Student Saved Questions

Figure 5.27: Web And Mobile update username setting

- **Update Email:** Here to modify the student's email, and of course, this requires his current password



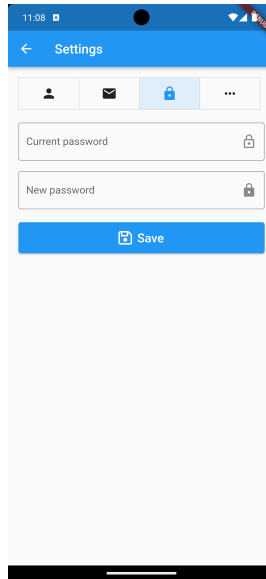
(a) Mobile update email



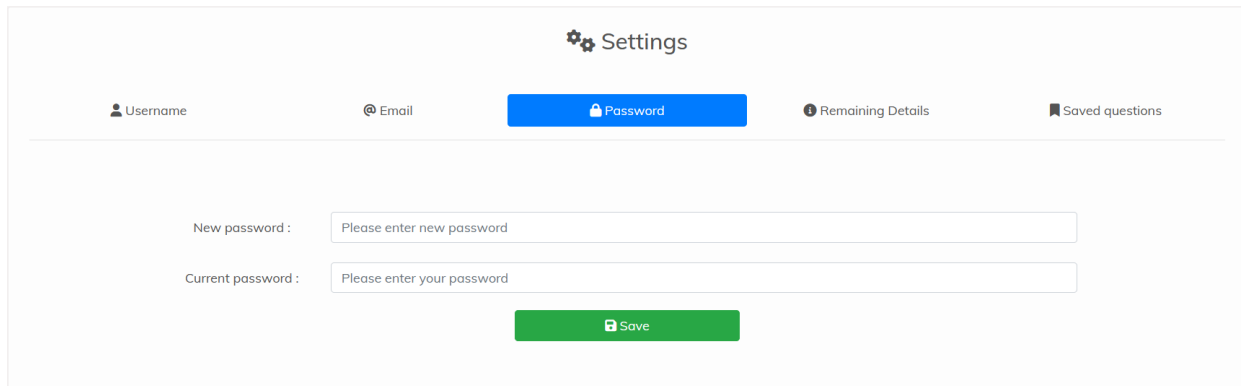
(b) Web Student Saved email

Figure 5.28: Web And Mobile update email setting

- **Update Password:** Here to modify the student's password, and of course, this requires his current password



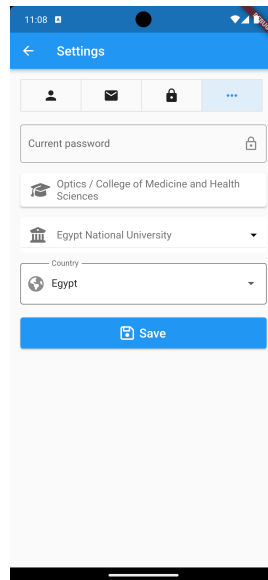
(a) Mobile update password



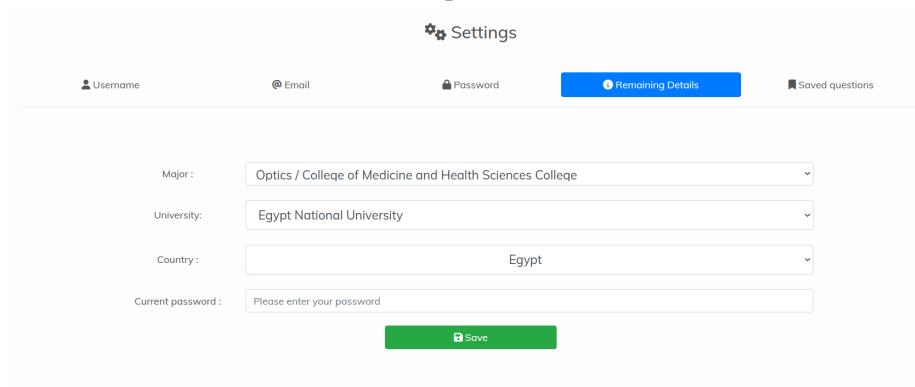
(b) Web update password

Figure 5.29: Web And Mobile update password setting

- **Update Remaining Details:** As for this section, it is for modifying the remaining data, such as the university, specialty, or even country, and every operation here requires the student's current password to confirm this modification.



(a) Mobile update username



(b) Web Student Saved Questions

Figure 5.30: Web And Mobile update remaining settings

## 5.13 Control Panel

This section is for supervisors and admins only, and through it most of the site's information is controlled so that it is renewed and up-to-date. Each supervisor is appointed for one or more courses and not for all courses, and this is their job. As for the admin, he has higher powers.

- **Universities:** This page contains all the universities registered in the application, and it can be modified and added as well. In addition, when a student registers a new account and does not see his university, he can write it and then reach the admin and accept it, because it is possible that not all the universities in the world are present there.

---

+ Add new university ×

---


University name :

---

Add × Close

Figure 5.31: Add universities in control panel

- **Colleges:** This page is for controlling colleges, including adding, modifying, deleting, and through it one can also control all specializations Through this page, the majors and colleges that appear to the student are added

 **Colleges ( 3 )**

[+ Add new college](#)




	Name	Image	Count of majors	
1	College of Science		3	<a href="#" style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 5px;">X<sub>1</sub> Majors</a> <a href="#" style="background-color: #28a745; color: white; padding: 5px 10px; border-radius: 5px;">Edit</a> <a href="#" style="background-color: #dc3545; color: white; padding: 5px 10px; border-radius: 5px;">Delete</a>
2	College of Medicine and Health Sciences		3	<a href="#" style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 5px;">X<sub>1</sub> Majors</a> <a href="#" style="background-color: #28a745; color: white; padding: 5px 10px; border-radius: 5px;">Edit</a> <a href="#" style="background-color: #dc3545; color: white; padding: 5px 10px; border-radius: 5px;">Delete</a>
3	College of Engineering		2	<a href="#" style="background-color: #007bff; color: white; padding: 5px 10px; border-radius: 5px;">X<sub>1</sub> Majors</a> <a href="#" style="background-color: #28a745; color: white; padding: 5px 10px; border-radius: 5px;">Edit</a> <a href="#" style="background-color: #dc3545; color: white; padding: 5px 10px; border-radius: 5px;">Delete</a>

Figure 5.32: Add Collages in control panel

- **Courses:** This page displays all the courses on the site and also controls them for the admin. As for the admin, it shows him the courses that the admin has assigned to him. You can control the resources for each course that appear to students, and also enter into conversations that the student sends to the supervisor

**Courses ( 8 )**

+ Add new course

College of Engineering

Please enter course name

	Course Name				
1	Electronic circuits	Messages	Resources	Edit	Delete
2	Operating Systems	Messages	Resources	Edit	Delete
3	Programming basics	Messages	Resources	Edit	Delete

Figure 5.33: Add Courses in control panel

- **Questions:** This page is for all questions and is often linked to complaints. When you receive any complaint about a question, the question number is sent with it. By entering the question number on this page, all its details are displayed, such as who posted it, what time, what course, etc. After verifying the complaint, the supervisor can stop this question, it does not appear to anyone after that. The supervisor also writes a note to the students and then sends a notification to the students about this topic

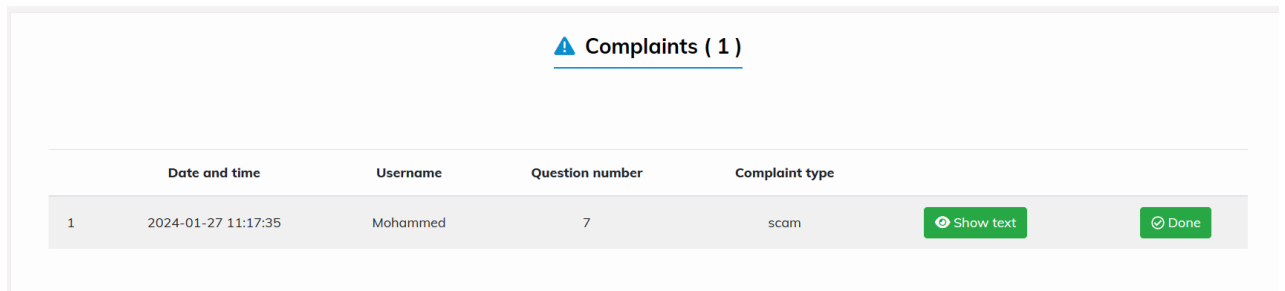
[? Questions](#)

Q 6

Question number	6
Student name	Mohammed
Count of comments	5
College - Course	College of Medicine and Health Sciences / Band aid
Date and time of publication	2024-01-23 16:08:54
Visit Question	<a href="#">Visit Question</a>
Status	<div style="display: flex; justify-content: space-around;"> <span>Active</span> <span style="background-color: red; color: white; padding: 2px 5px; border-radius: 3px;">Inactive</span> </div> <div style="border: 1px solid #ccc; padding: 5px; margin-top: 5px;"> A note on why the question was stopped </div>
Comment from supervisor	

Figure 5.34: Questions Control in control panel

- **Complaints:** This page displays complaints received from students regarding a specific question so that each course supervisor can follow up on them and then click on that they are being dealt with.



The screenshot shows a control panel titled "Complaints ( 1 )" with a warning icon. Below the title is a table with the following columns: "Date and time", "Username", "Question number", and "Complaint type". The table contains one row of data. To the right of the table are two green buttons: "Show text" and "Done".

	Date and time	Username	Question number	Complaint type		
1	2024-01-27 11:17:35	Mohammed	7	scam	Show text	Done

Figure 5.35: view complaints in control panel

- **Users:** This page is private for the admin only, as it displays all student accounts in the application and information about name and email only. Through it, the admin can appoint any student as a supervisor and give him powers over the courses.

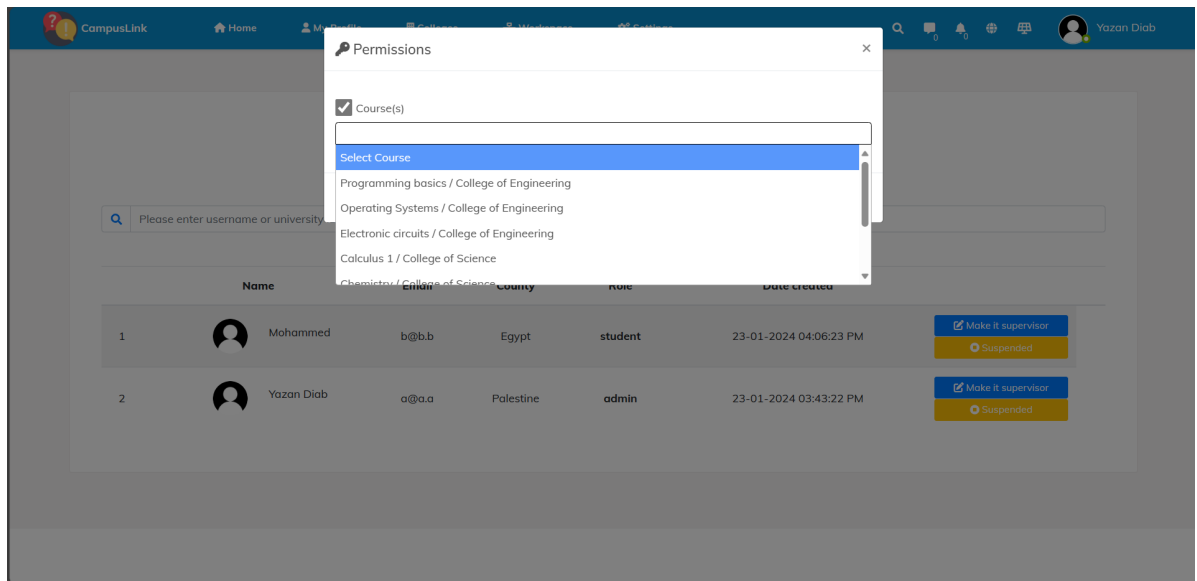


Figure 5.36: Change users permission in control panel

- **Statistics:** Also, this page is for admins, and it displays statistics about all the site's issues, as shown in the figure below, through which the application's development can be followed.

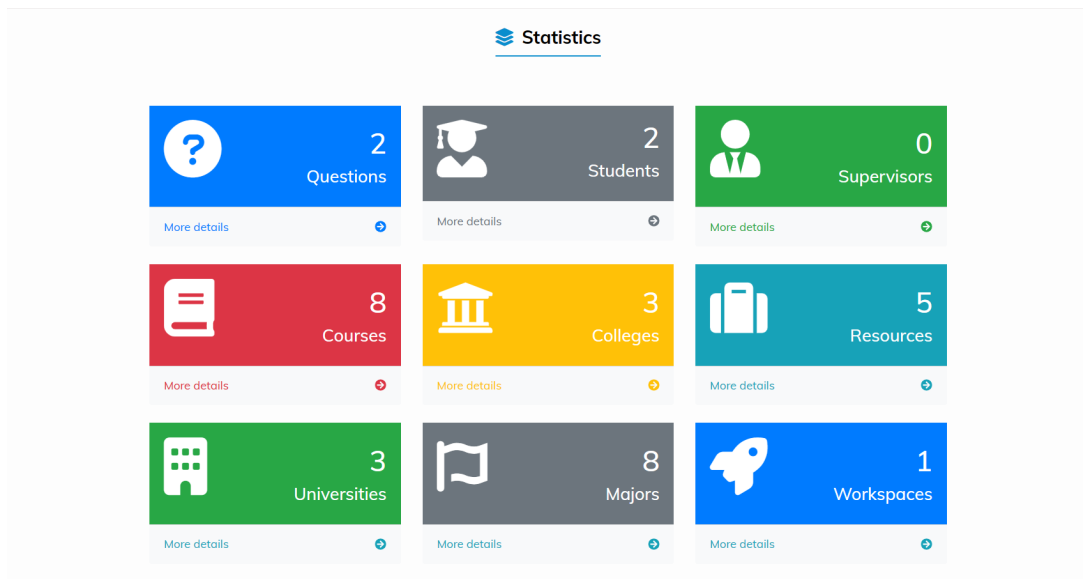



Figure 5.37: Statistics of the platform in control panel

- **Log:** This page is also for the admin only, in which all the supervisors' operations are displayed in everything. Any operation that occurs is recorded so that the admin is aware of it. Details about this operation are also recorded, for example, its type, what was done through it, and who is the supervisor who carried it out.

 Operations Log ( 25 )

	Date And Time	Supervisor name	Operation Type	Details	
1	23-01-2024 05:48:54 PM	Yazan Diab	add	Added new resource: book to course:Calculus 1	<a href="#">Delete</a>
2	23-01-2024 05:48:34 PM	Yazan Diab	delete	Deleted course : test	<a href="#">Delete</a>
3	23-01-2024 05:43:19 PM	Yazan Diab	delete	Deleted course : test	<a href="#">Delete</a>
4	23-01-2024 05:43:13 PM	Yazan Diab	add	Added a new course named: test	<a href="#">Delete</a>
5	23-01-2024 05:42:32 PM	Yazan Diab	add	Added new resource: code to course:Chemistry	<a href="#">Delete</a>
6	23-01-2024 05:42:24 PM	Yazan Diab	delete	Deleted resource : order in course : Chemistry	<a href="#">Delete</a>
7	23-01-2024 05:42:12 PM	Yazan Diab	add	Added new resource: order to course:Chemistry	<a href="#">Delete</a>

Figure 5.38: Moderators activity Log in control panel

# Chapter 6

## Future Work

Our roadmap for enhancing the platform is laid out with clear immediate steps and visionary long-term aspirations, all aimed at enriching the educational experience for our users.

### 6.1 Short-Term Features

- **Surveys and Polls:** This will be a key feature for getting your opinions. It'll help us understand what you need and want, making it super important for making our platform even better, especially for researchers who are looking for direct feedback and insights from users.
- **Sustainability Score:** We're adding a feature that tracks how eco-friendly your actions are on our platform. When you give answers to student questions that show you're thinking about sustainability, your score will go up. A higher score not only makes your answers stand out more but also boosts your chance to become a moderator. It's all about encouraging and rewarding green thinking.
- **Smarter Feedback Systems:** We're working on making it easier for you to give us feedback. With smarter tools, we'll be able to understand and use your suggestions to make our platform better for everyone.

## 6.2 Long-Term Features

- **LMS Integration:** We're aiming to seamlessly connect our platform with Learning Management Systems (LMS) that schools and colleges use. This way, your learning experience gets smoother, bringing all your academic resources and activities into one easy spot.
- **Direct Job Postings by Companies:** We're planning to let companies post job offers directly on our platform. This means you'll get to see new job opportunities, including internships and part-time positions, right away. It's a great way for students to find work that fits their studies perfectly.
- **Lifelong Learning Expansion:** We're planning to take our platform beyond just school and college learning. We want to offer courses and activities for all kinds of learning, from career skills to fun hobbies. No matter where you are in life, we'll have something to help you keep learning and growing.

With these enhancements on the horizon, we're not just looking to maintain the status quo; we're aiming to revolutionize the way you learn, interact, and grow on our platform.

# Chapter 7

## Conclusion and Recommendations

### 7.1 Conclusion

As we reach the conclusion of our report on the development and deployment of our educational platform, we reflect on the journey undertaken and the milestones achieved. Our platform, designed with the modern student in mind, integrates a wealth of resources, collaborative tools, and personalized learning experiences to enhance academic engagement and success. Through the implementation of advanced technologies, user-friendly interfaces, and responsive feedback mechanisms, we have created a dynamic and supportive online learning environment.

The inclusion of real-time communication features, a diverse range of educational materials, and tailored job opportunities demonstrates our commitment to not only academic excellence but also to the professional growth of our users. The positive reception and active participation of the student community affirm the value and impact of our platform in facilitating a more connected and enriching educational experience.

### 7.2 Recommendations

As we look forward, we offer the following recommendations to ensure the continued growth and effectiveness of our platform:

- **Continuous Improvement:** Regularly update and refine the platform based on user feedback and technological advancements to maintain its relevance and effectiveness.

- **Expand Partnerships:** Collaborate with more educational institutions, industry partners, and content creators to broaden the range and depth of resources available to users.
- **Enhance Accessibility:** Further improve the platform's accessibility features to ensure it is inclusive and accommodating to all users, regardless of their physical abilities or learning preferences.
- **Promote Community Engagement:** Strengthen the platform's community features to encourage more peer-to-peer learning and support, fostering a vibrant and supportive online learning community.
- **Invest in Research:** Conduct ongoing research into the latest educational technologies and pedagogical strategies to continuously innovate and enhance the platform's offerings.

In conclusion, our educational platform stands as a testament to the potential of technology to transform the learning experience. We remain dedicated to its ongoing development, ensuring it remains at the forefront of educational innovation and continues to meet the evolving needs of learners worldwide.

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