



American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

**UniHub: All-in-One Academic Companion**

A Software Engineering Project Submitted  
By

Semester: Spring_23_24		Section:	Group Number:	
SN	Student Name	Student ID	Contribution (CO3+CO4)	Individual Marks
1	MD ASIF CHOWDHURY	22-46734-1	40	
2	MEHERAF HASAN KHAN	22-46729-1	30	
3	MD ASSADULLA AL GALIB	22-46697-1	30	

The project will be Evaluated for the following Course Outcomes

<b>CO3:</b> <i>Select</i> appropriate software engineering models, project management roles and their associated skills for the complex software engineering project and evaluate the sustainability of developed software, taking into consideration the societal and environmental aspects	Total Marks	
	Appropriate Process Model Selection and Argumentation with Evidence	[5 Marks]
	Evidence of Argumentation regarding process model selection	[5Marks]
	Evaluate the sustainability of the developed software in terms of both society and the environment (Impact identification)	[5Marks]
<b>CO4:</b> <i>Develop</i> project management plan to manage software engineering projects following the principles of engineering management and economic decision process	Submission, Defense, Completeness, Spelling, grammar, and Organization of the Project report	[5Marks]
	Total Marks	
	Develop the project plan, its components of the proposed software products	[5Marks]
	Identify all the activities/tasks related to project management and categorize them within the WBS structure. Perform detailed effort estimation correspond with the WBS and schedule the activities with resources	[5Marks]
	Identify all the potential risks in the specific project and prioritizing/categorizing those to overcome the risk factors.	[5Marks]

### Description of Student's Contribution in the Project work

Student Name: Md Asif Chowdhury

Student ID: 22-46734-1

Contribution in Percentage (%): 40%

Contribution in the Project:

- Background to the Problem
- Solution to the Problem
- Process Model
- Prototype Design
- Use Case Diagram
- Test Case

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Signature of the Student

Student Name: Meheraf Hasan Khan

Student ID: 22-46729-1

Contribution in Percentage (%): 30%

Contribution in the Project:

- Process Model
- Class Diagram
- Architectural Diagram
- Gantt Chart

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Signature of the Student

Student Name: MD Assadulla Al Galib

Student ID: 22-46697-1

Contribution in Percentage (%): 30%

Contribution in the Project:

- WBS
- Project Risks
- Project Requirements

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Signature of the Student

# 1. PROJECT PROPOSAL

## 1.1 Background to the Problem

**Project Description:** The UniHub project aims to develop a comprehensive mobile application to serve as a centralized portal for university communication, organization, and collaboration. Traditional methods of university communication lack efficiency and accessibility, leading to missed opportunities for engagement. UniHub seeks to revolutionize university connectivity by providing a seamless platform for students and faculty members to communicate effectively, access information, and collaborate efficiently.

**Problem Statement:** Existing university communication methods are inefficient and fragmented, impacting student engagement and academic success. The absence of an integrated solution exacerbates the problem, resulting in missed opportunities for engagement and reduced productivity.

## 1.2 Solution to the Problem

UniHub proposes an integrated mobile application with features such as real-time communication, organizational tools, access to information, and a collaborative learning environment. This solution addresses the root causes of inefficiency and fragmentation by providing a comprehensive and user-friendly platform.

### A. Project Objective

The objective of UniHub is to enhance university connectivity, streamline administrative processes, and foster a more engaging learning environment through the development of a comprehensive mobile application.

### B. Proposed Solutions

UniHub will provide integrated communication channels, organizational tools, access to university information, and collaborative learning features to address the identified challenges.

- 1. Integrated Communication Platform:** UniHub will provide a centralized platform for real-time communication between students and faculty members, offering features such as dedicated chat channels, announcements, and notifications.
- 2. Organizational Tools:** UniHub will offer organizational tools such as task management, assignment submissions, exam schedules, and shared folders for course materials, enabling users to stay organized and productive.
- 3. Access to Information:** UniHub will centralize university notices, events, academic calendars, and course materials, ensuring easy access to critical information for both students and faculty members.

The proposed solution is particularly appropriate to solve the problem because it addresses the root causes of inefficiency and fragmentation in university communication and organization by providing a comprehensive and integrated platform that meets the evolving needs of students and faculty members. The solution

is feasible to meet the business objective as it leverages state-of-the-art technology to develop a user-friendly and scalable mobile application that enhances university connectivity and productivity.

**C. Basic Functionalities** The basic functionalities of UniHub include:

- Real-time chat channels for students and faculty members
- Task management and assignment submission features
- Exam schedules and academic calendars
- Shared folders for course materials and notes
- Announcements and notifications for important updates

**D. Target Group of Users:** UniHub targets students, faculty members, and administrative staff of universities, offering benefits such as enhanced communication, organization, and collaboration.

**E. Contribution to Scientific Development:** UniHub contributes to the development of educational technology by addressing real-life challenges in university communication and organization and proposing innovative solutions.

**F. Literature Review:** Existing studies have discussed challenges in university communication and organization, but many solutions lack integration and accessibility. UniHub extends previous research by offering a comprehensive platform that addresses diverse needs.

**G. Existing Studies and Solutions:** Existing software solutions for university communication include learning management systems and communication platforms, but they often lack integration and user-friendliness. UniHub extends these solutions by providing a unified platform with integrated features.

### 1.3 Process Model

#### **Analysis of Software Nature and Environment:**

UniHub, a mobile application designed to enhance university communication, organization, and collaboration, operates within a dynamic software environment characterized by the following key aspects:

- A. Mobile Platform:** UniHub is hosted on iOS and Android platforms, necessitating the development of a native mobile application for optimal performance and user experience.
- B. Integration Requirements:** The application integrates various functionalities, including communication tools, organizational tools, and access to information, requiring seamless integration with backend systems and external APIs.
- C. User Engagement:** UniHub aims to foster user engagement and collaboration within the university community, demanding intuitive interfaces, interactive features, and responsive design.

**D. Scalability and Security:** With a diverse user base, scalability and security are paramount, necessitating robust mechanisms for handling large volumes of users and data while ensuring data privacy and security.

#### **Selection of Development Methodology:**

To address the dynamic nature of the software environment and meet the requirements of UniHub, the Scrum methodology is the most suitable choice for development. Scrum offers the following advantages:

- A. Iterative Development:** Scrum emphasizes iterative development cycles, allowing for frequent releases and updates based on user feedback and changing requirements. This approach enables rapid adaptation to evolving user needs and market conditions.
- B. Cross-Functional Collaboration:** Scrum promotes collaboration between cross-functional teams, including developers, designers, testers, and stakeholders. This collaborative approach ensures holistic development, from UI/UX design to backend integration, leading to a cohesive and user-friendly application.
- C. Flexibility and Adaptability:** Scrum provides flexibility and adaptability, allowing teams to respond quickly to changes in requirements and priorities. This flexibility is essential for mobile application development, where technology trends and user preferences evolve rapidly.
- D. Continuous Improvement:** Scrum encourages continuous improvement through regular retrospectives and feedback loops, enabling teams to identify areas for enhancement and implement iterative improvements. This focus on continuous improvement ensures the delivery of a high-quality application that meets the evolving needs of users.
- E. Proven Track Record:** Scrum has a proven track record of success in the software industry, with many successful projects adopting this methodology to deliver high-quality products on time and within budget. By leveraging Scrum principles and practices, we can increase the likelihood of success for the UniHub project.

By adopting the Scrum methodology, the UniHub development team can effectively navigate the dynamic software environment, deliver incremental value to users, and ensure the successful development and deployment of the mobile application.

## **1.4 Project Role Identification and Responsibilities**

### ***A. Product Owner: Md Asif Chowdhury***

- **Role:** The Product Owner represents the stakeholders and is responsible for prioritizing the features of the UniHub application.
- **Responsibilities:**
  - Define and prioritize the product backlog based on stakeholder needs and project goals.

- Communicate project vision and requirements to the development team. decisions regarding feature implementation and release planning.
- Provide feedback on product increments and ensure alignment with stakeholder expectations.

#### ***B. Scrum Master: Md Asif Chowdhury***

- **Role:** The Scrum Master facilitates the Scrum process and ensures that the development team adheres to Agile principles and practices.
- **Responsibilities:**
  - Coach the development team on Scrum practices and principles.
  - Remove impediments and foster a collaborative and productive work environment.
  - Facilitate Scrum events, such as sprint planning, daily stand-ups, sprint reviews, and sprint retrospectives.
  - Ensure that the team follows the Scrum framework and adheres to Agile values.

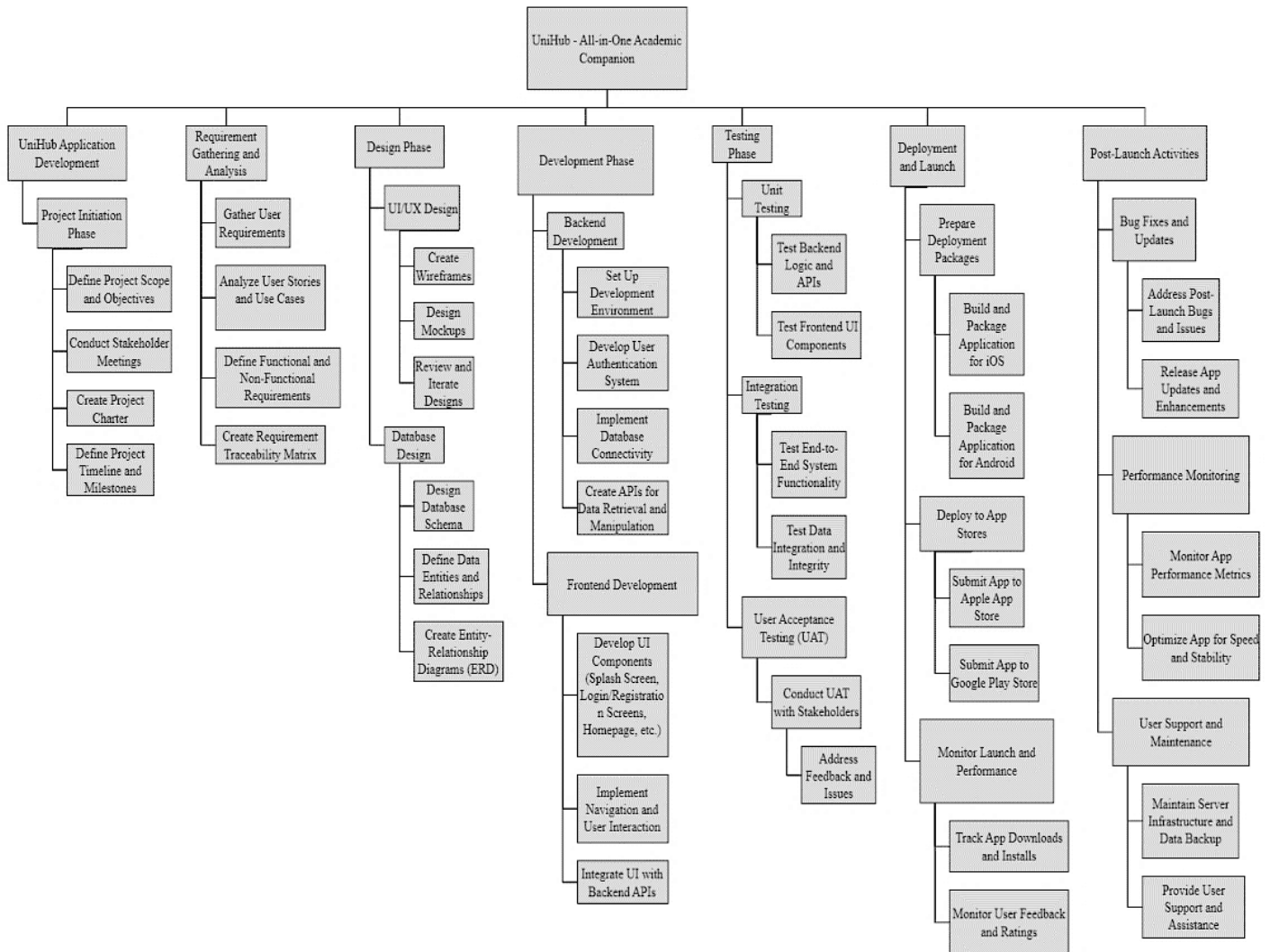
#### ***C. Development Team:***

- **Members:**
  - Md Asif Chowdhury
  - Meheraf Hasan Khan
  - Md Assadulla Al Galib
- **Role:** The Development Team is responsible for building and delivering the UniHub application according to the requirements and priorities defined by the Product Owner.
- **Responsibilities:**
  - Design, develop, test, and deploy features and functionalities of the UniHub application.
  - Collaborate with the Product Owner to understand and refine user stories and acceptance criteria.
  - Estimate effort for user stories and tasks during sprint planning.
  - Continuously improve the product by incorporating feedback and iterating on features.

#### ***D. Stakeholders: Faculty***

- **Role:** The Stakeholders have a vested interest in the success of the UniHub project and provide input and feedback throughout the development process.
- **Responsibilities:**
  - Provide input on project requirements, priorities, and goals.
  - Review and provide feedback on product increments and deliverables.
  - Participate in stakeholder meetings and provide guidance on project direction.
  - Advocate for the needs and interests of the university community.

## 1.5 Schedule / WBS



## 1.6 Project Risks

### Project Risk, Impact, Risk level

Date of last review: 29 April, 2024

ID	Description of Risk	Impact	Risk Reponse	Risk Level	Risk owner	Notes
1	Complex requirements	Delayed development, higher costs, compromised functionality	Conduct feasibility studies, allocate resources, consider outsourcing.	High	Meheraf	Frequent team communication, ongoing progress tracking, and agile methods help mitigate risks.
2	Stakeholder scope changes	Complexity, delays, conflicts, higher costs	Change management, stakeholder communication, prioritize requirements.	Medium	Asif	Stakeholder meetings, requirement reviews, documentation manage risk.
3	Resource constraints	Milestone delays, higher costs, quality compromise, stakeholder dissatisfaction.	Plan resources, outsource if needed, efficient management.	High	Meheraf	Monitor resources, address constraints, foster team support to manage risk.
4	Security vulnerabilities	Data compromise, reputation damage, legal, financial losses, trust loss	Implement robust security measures such as encryption, controls, audits, updates.	High	Galib	Prioritize security: assessments, developer training, standards compliance.
5	Integration hurdles: compatibility, formats, APIs.	Timeline delays, user disruptions, extra development, data issues.	Thorough compatibility testing, clear integration protocols, proactive collaboration.	Medium	Meheraf	Communication, integration documentation, contingency planning manage risk.
6	Dependency disruptions	Development delays, limited functionality, compatibility, security risks	Due diligence on dependencies, contingency planning, alternative solutions.	High	Asif	Monitor dependencies, stay updated, communicate proactively to manage risk.
7	Regulatory compliance considerations	Legal liabilities, penalties, delays, reputation harm	Regulatory analysis, integrate compliance, legal collaboration, ongoing monitoring.	Medium	Galib	Regular audits, compliance documentation, proactive regulatory measures mitigate risk.
8	Stakeholder misalignment	Communication breakdowns, scope creep, delays, stakeholder dissatisfaction.	Clear communication, stakeholder engagement, feedback incorporation, proactive change management.	Medium	Meheraf	Communication fosters teamwork, resolves issues, engages stakeholders.
9	Scalability concerns as user base grows	Performance degradation, slower response, downtime, user loss.	Early scalability assessment, scalable design, monitoring optimizations.	High	Asif	Communication fosters teamwork, resolves issues, engages stakeholders.
10	Communication gaps	Missed deadlines, rework, lower productivity, compromised outcomes	Clear channels, protocols, regular meetings, remote collaboration tools.	Medium	Meheraf	Teamwork, issue resolution, stakeholder engagement rely on effective communication.
11	Budget constraints	Reduced scope, quality compromise, delayed delivery, stakeholder dissatisfaction	Comprehensive budget planning, prioritize requirements, cost-saving measures, transparent communication.	Medium	Asif	Monitor budget, track costs, mitigate risks for effective budget management.
12	Unexpected departure of team members	Knowledge loss, delayed deliverables, extra workload, morale impact.	Succession planning, knowledge transfer, cross-training, documentation, communication.	Low	Galib	Resilient team culture, collaboration, support mitigate turnover impact.
13	Vendor reliance	Service disruptions, downtime, data loss, vendor disputes.	Vendor due diligence, SLA establishment, contingency planning.	Medium	Meheraf	Monitor vendor performance, communicate proactively, manage contracts for risk mitigation.



## 1.7 Project Requirements

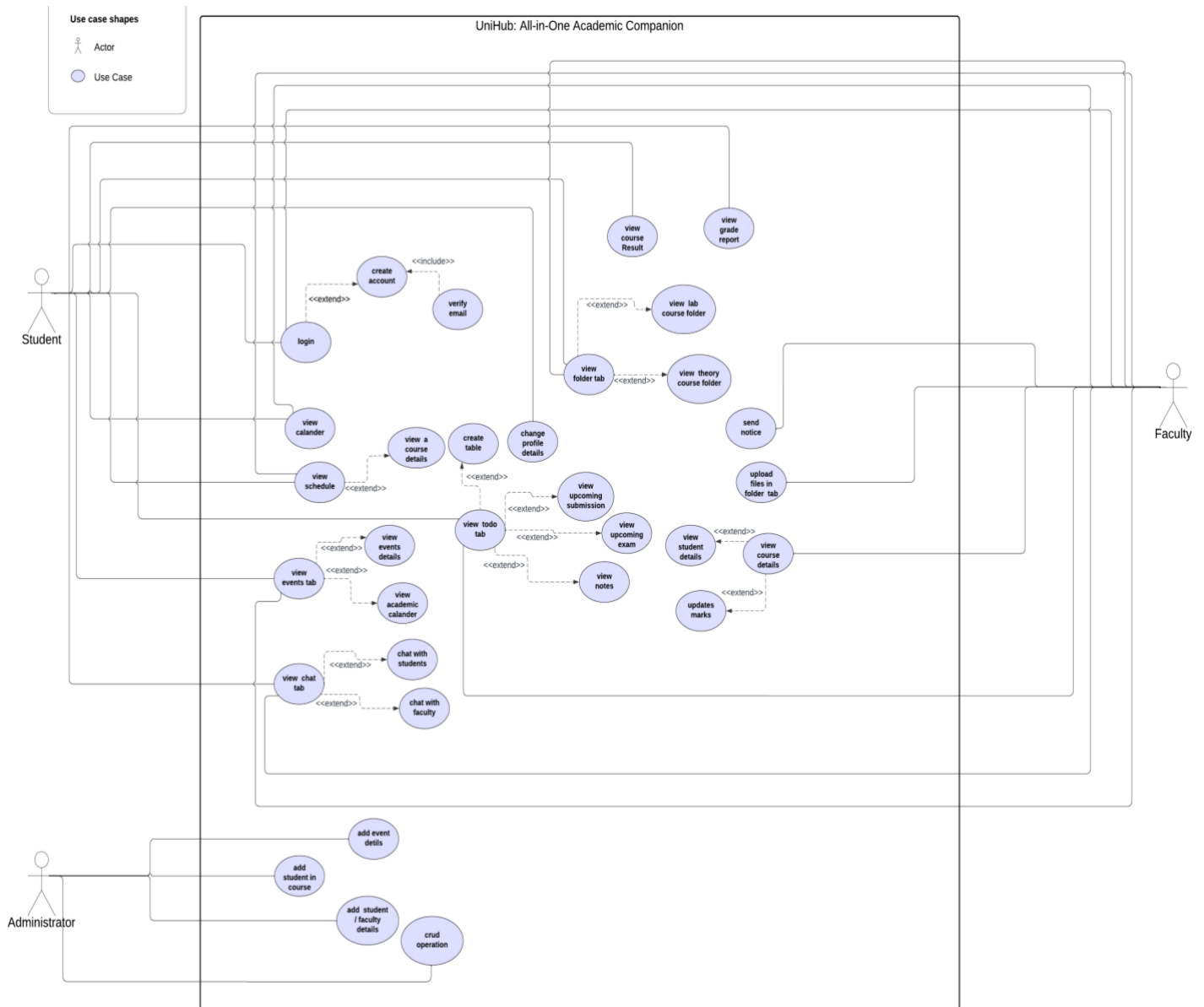
### *Functional Requirements:*

- A. User Authentication:** Users should be able to create an account and log in securely.
- B. Communication Features:** Users should be able to send and receive messages in real-time.
- C. Organizational Tools:** Users should be able to create and manage tasks, assignments, and exam schedules.
- D. Access to Information:** Users should have access to university notices, events, and academic calendars.
- E. Course Management:** Users should be able to view course materials, lecture notes, and resources.

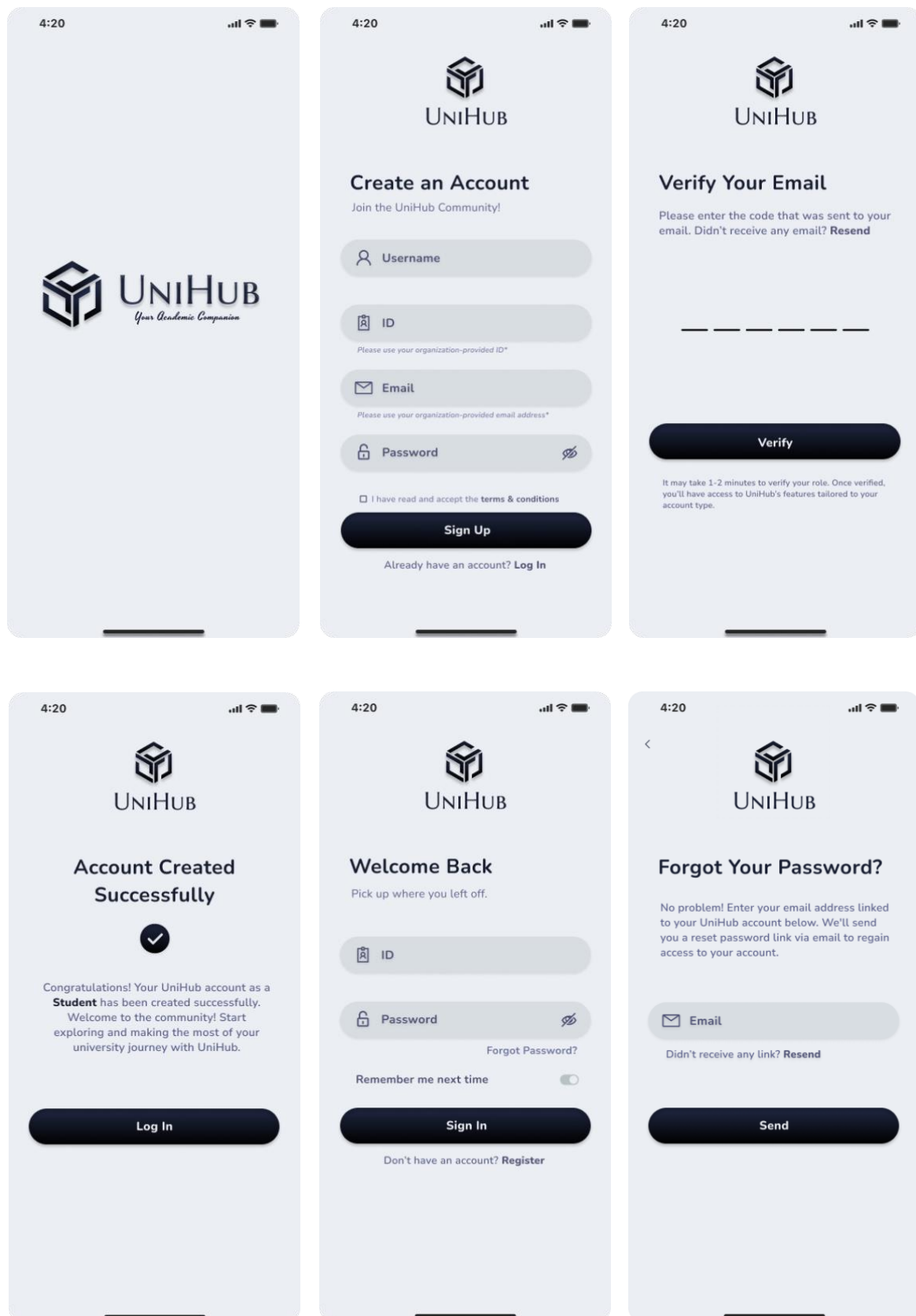
### *Non-Functional Requirements:*

- A. Performance:** The app should be responsive and perform efficiently, even with a large user base.
- B. Usability:** The user interface should be intuitive and easy to navigate.
- C. Security:** User data should be encrypted and stored securely.
- D. Reliability:** The system should always be stable and available for use.
- E. Scalability:** The app should be able to handle a growing user base and increasing data volume over time.
- F. Compatibility:** The app should be compatible with a wide range of mobile devices and operating systems.

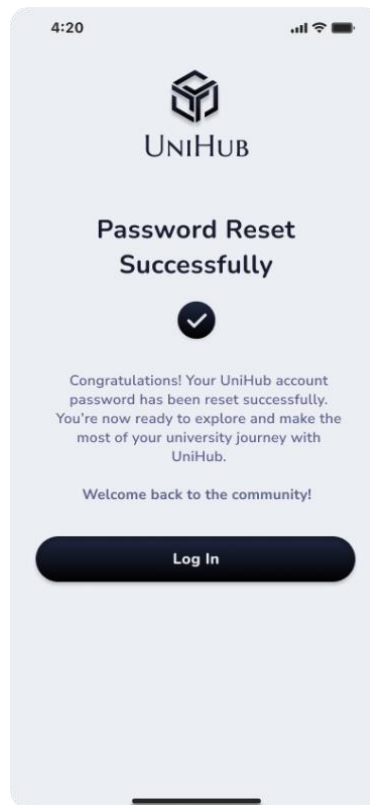
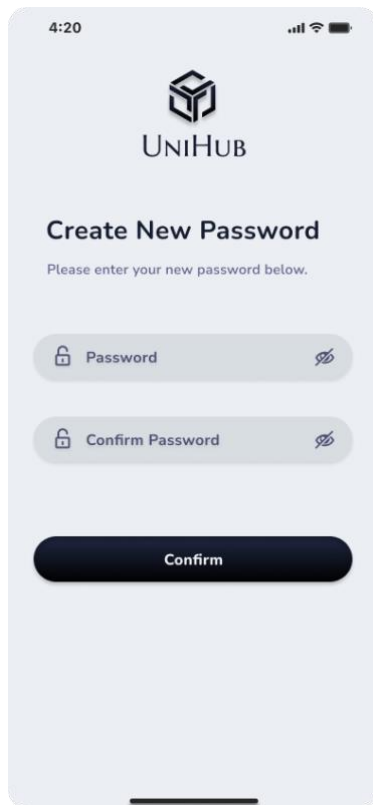
## Use Case Diagram:



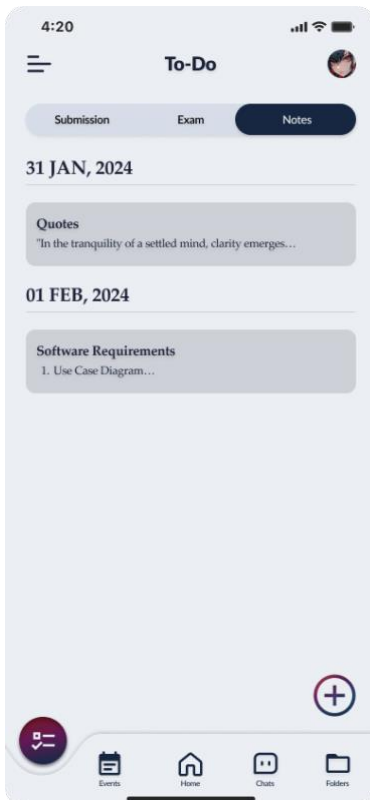
## 1.8 Prototype Design

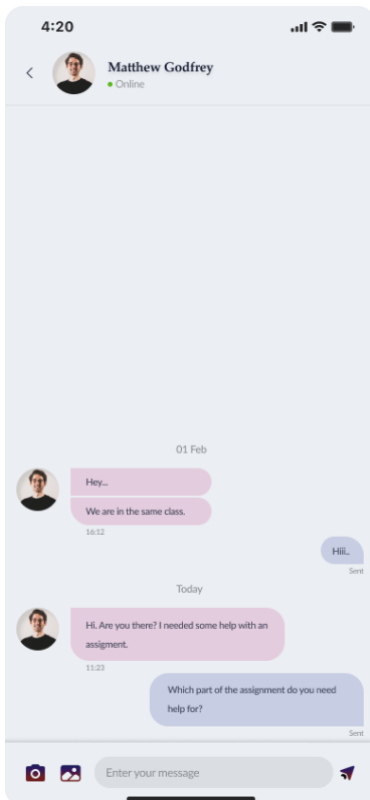
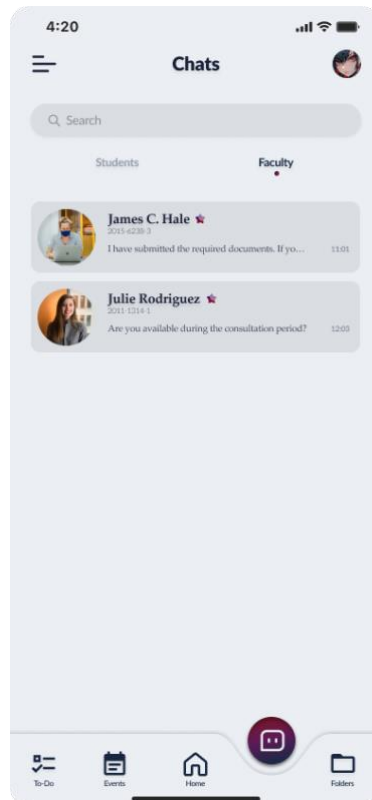
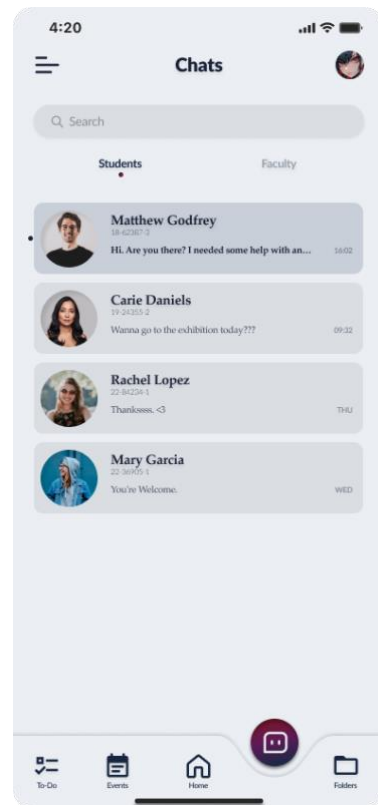
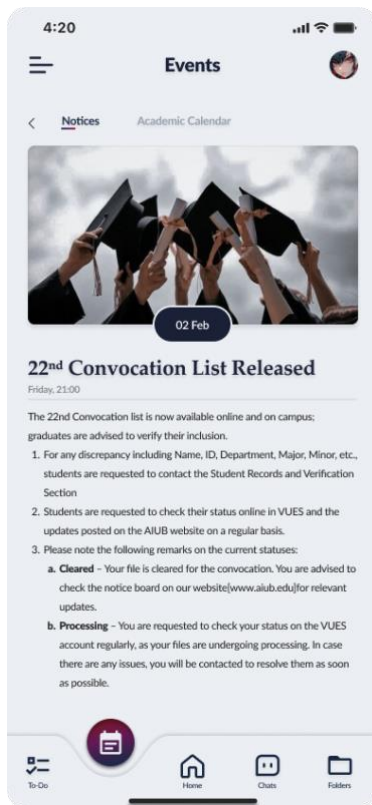


## Student View

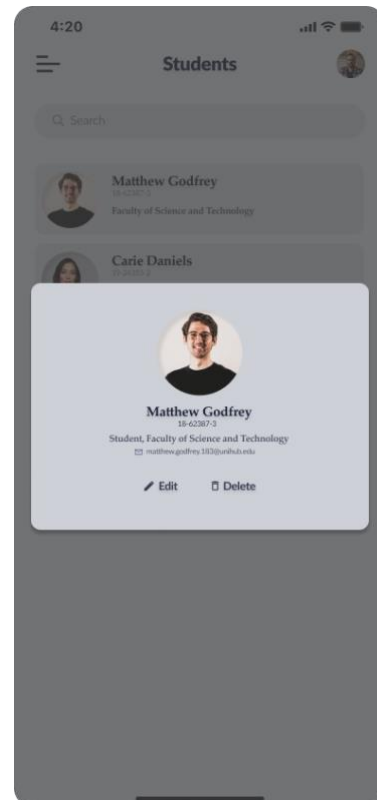
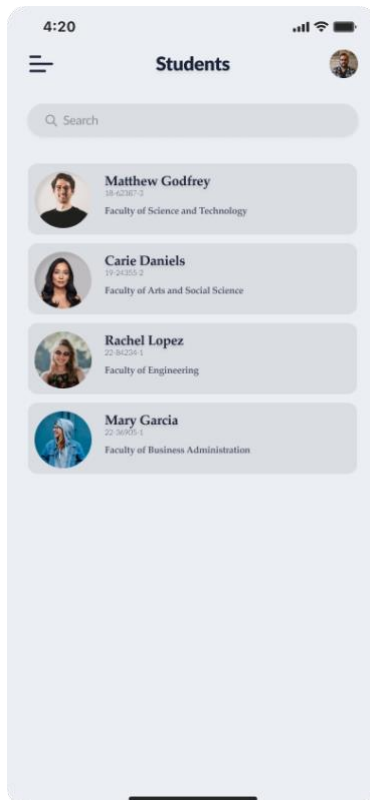
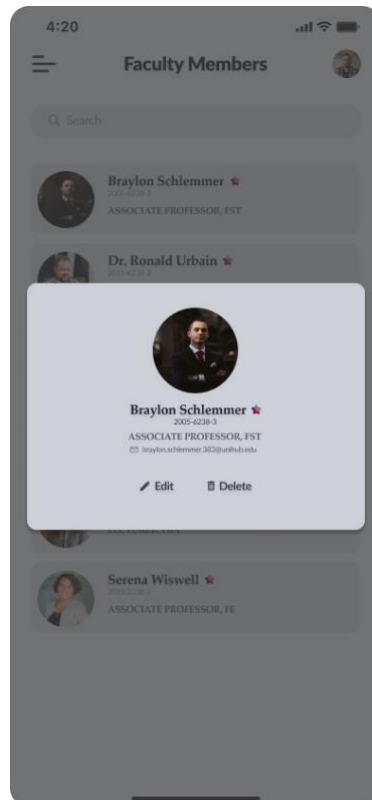
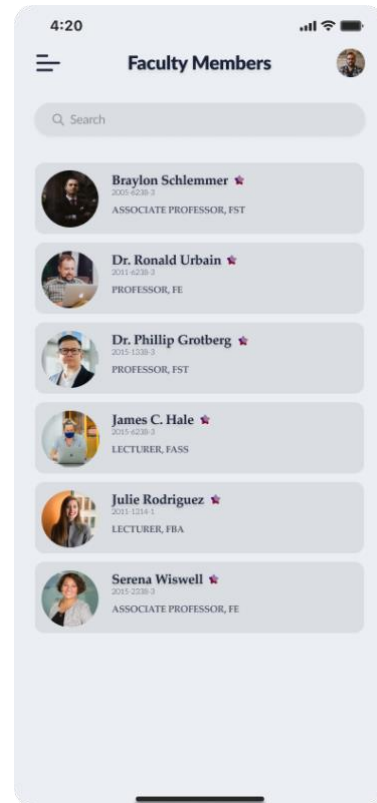
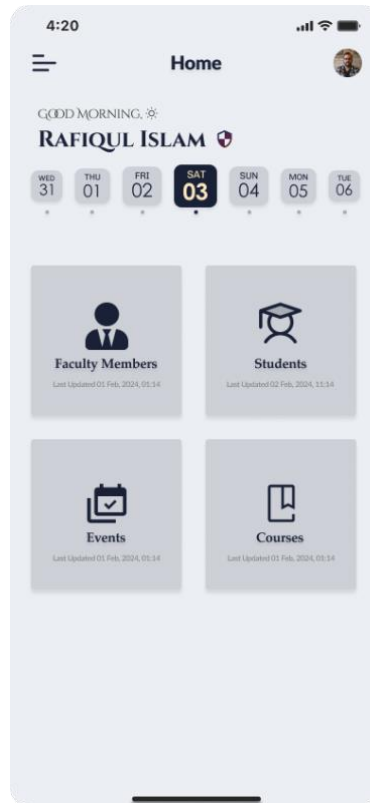


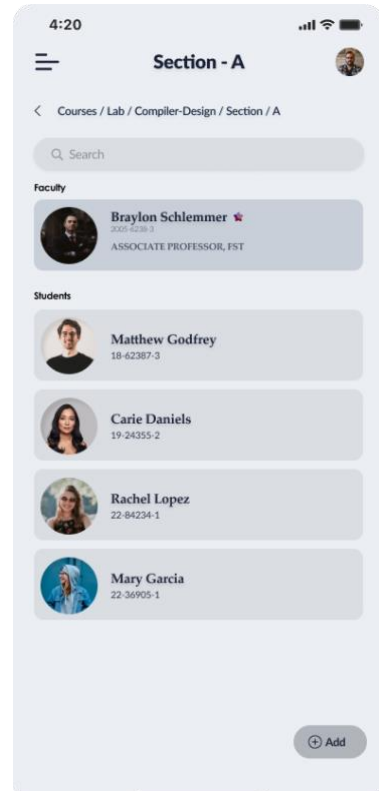
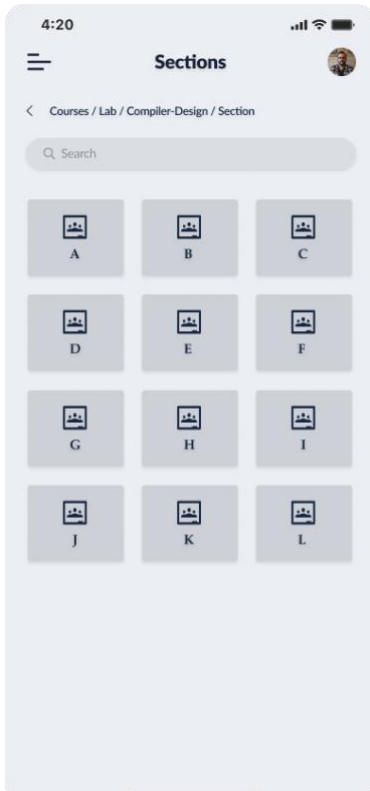
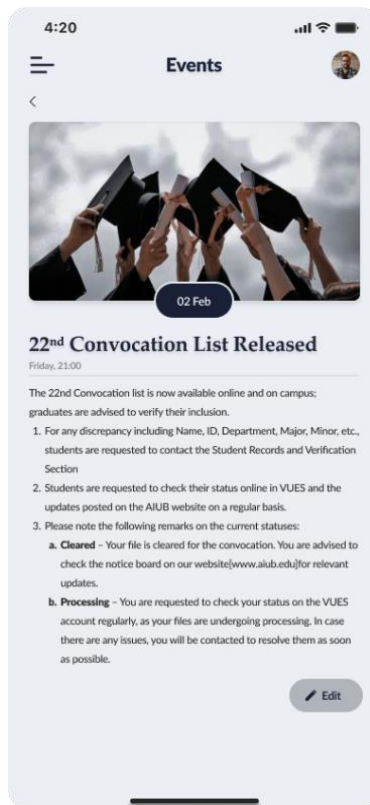
## Faculty View





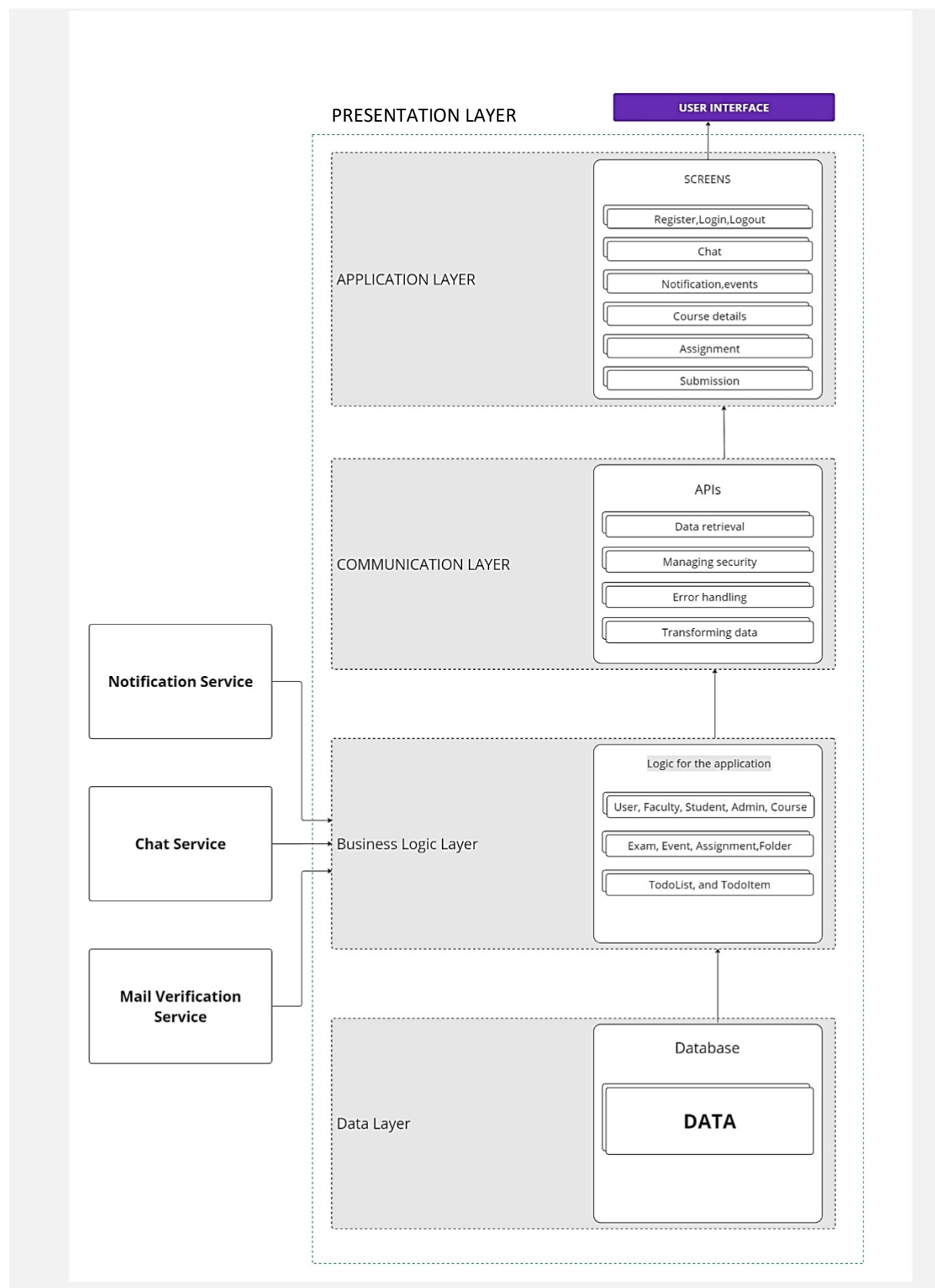
## Admin View



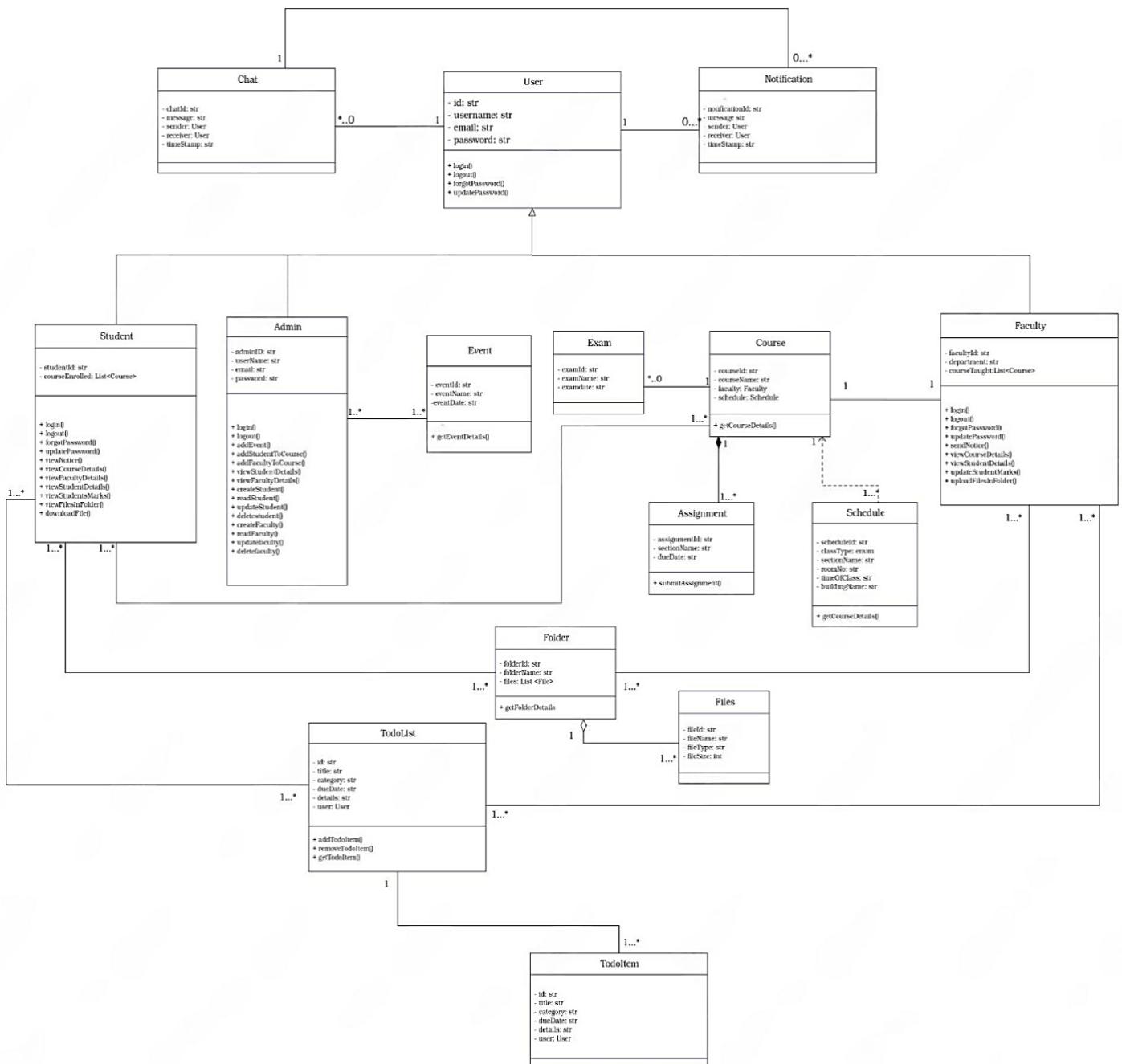




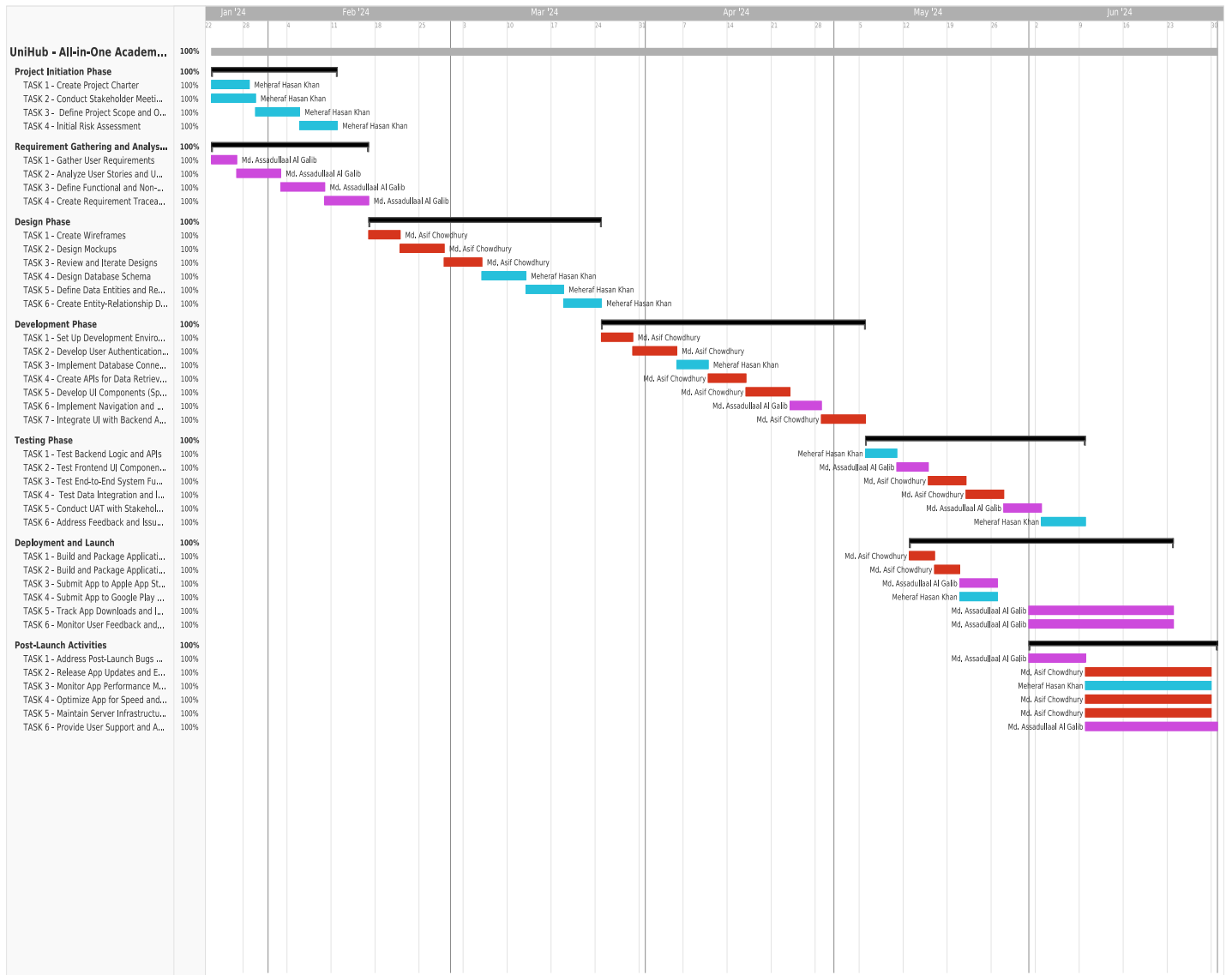
## 1.9 Architectural Diagram



## 1.10 Class Diagram



## 1.11 Gantt Chart



## 1.12 Test Case

Test Case ID	UH_TC_001	Test Case Description	Verify registration with valid credentials.		
Created By	Asif	Reviewed By	Meheraf	Version	1.0
QA Tester's Log		Registration process completed without errors.			
Tester's Name	Asif	Date Tested	15-Apr-2024	Test Case (Pass/Fail/Not)	Pass
S #	Prerequisites:	S #	Test Data		
1	User must have access to the registration page.	1	Username: user123		
2	User must provide valid personal information.	2	Password: @user123		
3		3	Email: user123@gmail.com		
Test Scenario		User registers with valid credentials.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspende	
1	Open UniHub app.	Registration page should load successfully.	As Expected	Pass	
2	Enter Username & Password	User details should be accepted and validated.	As Expected	Pass	
3	Click on 'Sign Up' button.	User should be successfully registered and redirected to login page.	As Expected	Pass	

Test Case ID	UH_TC_002	Test Case Description	Verify login with valid credentials.		
Created By	Asif	Reviewed By	Meheraf	Version	1.0
QA Tester's Log					
Login functionality verified. User credentials authenticated.					
Tester's Name	Asif	Date Tested	April 15, 2024	Test Case (Pass/Fail/Not Executed)	Pass
S #	Prerequisites:		S #	Test Data	
1	User must be registered and have valid login		1	Username: user123	
2			2	Password: @user123	
Test Scenario					
User logs in with valid credentials.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Navigate to login page.	Login page should load successfully.	As Expected	Pass	
2	Enter Username & Password	User credentials should be accepted and validated.	As Expected	Pass	
3	Click on 'Login' button.	User should be successfully logged in and redirected to homepage.	As Expected	Pass	

Test Case ID	UH_TC_003	Test Case Description	Verify password reset with valid information.		
Created By	Asif	Reviewed By	Galib	Version	1.0
QA Tester's Log		Password reset process tested. Reset link received and successfully reset password.			
Tester's Name	Asif	Date Tested	April 15, 2024	Test Case (Pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	User must have an existing account.		1	Email: user123@gmail.com	
2	User must have access to the email associated with the		2		
Test Scenario		User resets password using valid email.			
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Navigate to password reset page.	Password reset page should load successfully.	As Expected	Pass	
2	Enter registered email address.	Email should be accepted and validated.	As Expected	Pass	
3	Click on 'Reset Password' button.	Reset password link should be sent to the provided email address.	As Expected	Pass	

Test Case ID	UH_TC_004	Test Case Description	Verify navigation through homepage.		
Created By	Asif	Reviewed By	Galib	Version	1.0

QA Tester's Log Navigation through homepage tested. User can access all sections without errors.

Tester's Name	Asif	Date Tested	April 15, 2024	Test Case (Pass/Fail/Not)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	
2	User must have access to the		

Test Scenario User navigates through homepage sections.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Log in to UniHub.	User should be directed to the homepage after successful login.	As Expected	Pass
2	Access 'All Courses' section.	All enrolled courses should be listed.	As Expected	Pass
3	Access 'Today's Schedule' section.	User's schedule for the current day should be displayed.	As Expected	Pass

Test Case ID	UH_TC_005	Test Case Description	Verify management of To-Do List		
Created By	Meheraf	Reviewed By	Asif	Version	1.0

QA Tester's Log To-Do list functionality tested. Tasks can be added, edited, and marked as completed.

Tester's Name	Meheraf	Date Tested	April 17, 2024	Test Case (Pass/Fail/Not Executed)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	Task: Complete Assignment 1
2	To-Do list section must be accessible.	2	Due Date: 25-03-2024
3		3	Course: Compiler Design

Test Scenario User manages To-Do list tasks.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Access To-Do list section.	To-Do list should load with existing tasks	As Expected	Pass
2	Add new task.	Task should be added to the To-Do list.	As Expected	Pass
3	Edit existing task.	Task details should be editable.	As Expected	Pass

Test Case ID	UH_TC_006	Test Case Description	Verify viewing of events		
Created By	Meheraf	Reviewed By	Asif	Version	1.0

QA Tester's Log Events section functionality verified. Events displayed correctly with relevant details.

Tester's Name	Meheraf	Date Tested	April 17, 2024	Test Case (Pass/Fail/Not)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	
2	Events section must be accessible.	2	

Test Scenario User views upcoming events.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Access Events section.	Upcoming events should be listed.	As Expected	Pass
2	Click on event for details.	Event details should be displayed.	As Expected	Pass
3	Navigate to previous events.	Previous events should be accessible.	As Expected	Pass

Test Case ID	UH_TC_007	Test Case Description	Verify chat functionality		
Created By	Meheraf	Reviewed By	Galib	Version	1.0

QA Tester's Log Chat feature tested. Users can send and receive messages without errors.

Tester's Name	Meheraf	Date Tested	April 17, 2024	Test Case (Pass/Fail/Not)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	
2	Chats section must be accessible.	2	

Test Scenario User interacts with chat feature.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Access Chat section.	Chat interface should load with contacts	As Expected	Pass
2	Select contact to chat with.	Chat window should open with selected	As Expected	Pass
3	Send message.	Message should be sent and displayed in chat	As Expected	Pass

Test Case ID	UH_TC_008	Test Case Description	Verify folder accessibility		
Created By	Meheraf	Reviewed By	Galib	Version	1.0

QA Tester's Log Access to course folders tested. Folders displayed correctly with relevant course materials.

Tester's Name	Meheraf	Date Tested	April 17, 2024	Test Case (Pass/Fail/Not)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	
2	Folders section must be accessible.	2	
3	User must be enrolled in courses.	3	

Test Scenario User navigates through course folders.

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Access Chat section.	Course folders should load with relevant materials displayed.	As Expected	Pass
2	Select course folder.	Folder contents should be displayed.	As Expected	Pass
3	Download course material.	Material should be downloadable and accessible.	As Expected	Pass

Test Case ID	UH_TC_009	Test Case Description	Verify enrollment of courses.		
Created By	Galib	Reviewed By	Asif	Version	1.0

QA Tester's Log Course enrollment process verified. User can enroll in courses without errors.

Tester's Name	Galib	Date Tested	April 20, 2024	Test Case (Pass/Fail/Not)	Pass
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S #	Prerequisites:	S #	Test Data
1	User must be logged in.	1	Course Code: CSC101
2	Course enrollment must be accessible.	2	Course Name: Introduction to Computer Science

Test Scenario User enrolls in a course

Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended
1	Access Course Enrollment section.	Course enrollment page should load successfully.	As Expected	Pass
2	Search for desired course.	Searched course should be displayed.	As Expected	Pass
3	Click on 'Enroll' button.	User should be successfully enrolled in the course.	As Expected	Pass

Test Case ID	UH_TC_010	Test Case Description	Verify management of profile.		
Created By	Galib	Reviewed By	Asif	Version	1.0
QA Tester's Log					
Profile management functionality tested. User can update profile details without errors.					
Tester's Name	Galib	Date Tested	April 20, 2024	Test Case (Pass/Fail/Not	Pass
S #	Prerequisites:	S #	Test Data		
1	User must be logged in.	1			
2	Profile section must be accessible.	2			
Test Scenario					
User manages profile details.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Access Profile section.	Profile details should be displayed.	As Expected	Pass	
2	Edit profile details.	Details should be editable.	As Expected	Pass	
3	Save changes.	Changes should be saved successfully.	As Expected	Pass	

Test Case ID	UH_TC_011	Test Case Description	Verify notification handling.		
Created By	Galib	Reviewed By	Meheraf	Version	1.0
QA Tester's Log					
Notification feature tested. User receives notifications and can manage them effectively.					
Tester's Name	Galib	Date Tested	April 20, 2024	Test Case (Pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	User must be logged in.		1		
2	Notifications must be enabled.		2		
3	Notifications section must be		2		
Test Scenario					
User interacts with notifications.					
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Access Notifications section.	Notifications should be listed.	As Expected	Pass	
2	Click on notification.	Relevant information should be displayed.	As Expected	Pass	
3	Mark notification as read.	Notification status should be updated.	As Expected	Pass	

Test Case ID	UH_TC_012	Test Case Description	Verify logout functionality.		
Created By	Galib	Reviewed By	Meheraf	Version	1.0
QA Tester's Log					
Logout process verified. User can log out of the application without errors.					
Tester's Name	Galib	Date Tested	April 20, 2024	Test Case (Pass/Fail/Not	Pass
S #	Prerequisites:		S #	Test Data	
1	User must be logged in.		1		
2	Logout option must be accessible		2		
Test Scenario	User logs out of the application.				
Step #	Step Details	Expected Results	Actual Results	Pass / Fail / Not executed / Suspended	
1	Access Logout option.	User should be logged out and redirected to the login page.	As Expected	Pass	