



American International University-Bangladesh (AIUB)

Department of Computer Science Faculty of Science & Technology

AIUB Lifeline

A Software Engineering Project Submitted
By

Semester : Summer 24-25		Section: F	Group Number: 05	
SL	Student Name	Student ID	Contribution (CO3 + CO4)	Individual Marks
1	Sheikh Najmul Hossain	23-51376-1	33%	
2	Syed Iftear Hasan	23-51367-1	34%	
3	Mashrafi Ahsan	23-51355-1	33%	
4				
5				

The project will be evaluated for the following Course Outcomes

CO3 (PO-g-1) <i>Select 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</i>	Total Marks
Selection of Software Engineering Models: Process model selection and presents sufficient evidence to support argument for the model selection	[5 Marks]
Role identification and Responsibility Allocation: Well-planned project with proper role identification and responsibility allocation in the project management activities	[5Marks]
Formatting and Submission: Submission, Defense, Completeness, Spelling, grammar, and Organization of the Project report	[5Marks]
CO4 (PO-k-1) <i>Apply engineering management principles and economic decision making to develop software engineering project management plan.</i>	Total Marks
Project WBS and Testcases: Relevant WBS (project task list) and testcases for the proposed project are stated properly.	[5Marks]
Effort Estimation and Scheduling: Project estimation was described using proper effort estimation or schedules based on available project resources	[5Marks]
Risk Management: Sufficient and appropriate risks are identified, analyzed, and properly categorized or prioritized.	[5Marks]

1. PROJECT PROPOSAL

1.1 Background to the Problem

For most students, university life comes with a lot of pressure such as classes, exams, future planning, and everyday responsibilities all at once. Students are required to manage academic responsibilities, navigate course materials, give examinations, maintain social relationships, and plan for their future all while dealing with personal and real-life challenges. As one of the leading private universities in Bangladesh, AIUB hosts a diverse and dynamic student body that frequently experiences these pressures.

In this context, students face many problems that are not academic issues. These factors include consideration that students are not able to locate lost belongings on campus, they cannot easily find consistent lecture/handwritten notes, they are unaware of the faculty's consulting hours, and there is no go-to space for academic related questions and accessibility of faculty provided materials. Today, students are using informal channels like Facebook groups, WhatsApp chats and word of mouth to serve their needs. They generally work and, typically, lack responsible moderation, and they unaccountably fail to deliver uniform access or good information to all students. The problem exists as there is no unified, organized platform exclusively centered for the AIUB students. It can cause additional stress, miscommunication, and missed opportunities for academic and other forms of personal support. That's why we think it's time for a clean digital solution that aggregates the core student support services into a user-friendly system.

1.2 Solution to the Problem and Process Model Selection

Importance of the Problem:

Because of the following issues, students waste a lot of valuable time searching for important resources and a lot of times end up with wrong and outdated materials. Students also find it difficult to navigate their lost belongings from home. This platform will solve a lot of problems which in turn will benefit the stakeholders of the university.

Project Objective:

In this technology driven age, not having a single modern platform at a leading private university such as AIUB is conspicuous. Plugging this gap is an opportunity to establish a new and modern platform that can enhance academic achievement along with student life in general.

By introducing this platform, the university will truly transform into a modern university justifying the leading university of Bangladesh tag and going on to achieve more great achievements in the future.

Our goal is to build one easy-to-use app that brings together everything students and teachers need in one place:

- Enhancing academic collaboration,
- Reducing communication gaps,
- Seamlessly access essential latest materials and schedules,
- Promoting a supportive campus ecosystem.

Proposed Solution:

We propose “AIUB Lifeline”, a web application which will have the following features:

Basic Functionalities of the Proposed Solution:

1. **Lost and Found:** Students will be able to report and search for missing personal belongings through a secure and centralized platform. The platform will have options to upload images and provide detailed time and place of the item so that it would be easier to locate the missing belonging.
2. **Sharing Lecture and Handwritten Notes:** Through this platform the students will be able to upload and search for handwritten notes as well as lecture notes. Students will be able to search the notes by sorting them by course code, instructor, course name and department.
3. **Authorized Material Approved by Faculty:** Authorized scholarly material such as class notes, tutorial sheets, question papers, and practice sets shall be provided by the faculty to the students. There will be fewer unauthorized uses of sources and higher content accuracy.
4. **Faculty TSF Section:** There will be a designated section showing the available consulting times of every one of the faculty members. This will make it easy for students to schedule appointments, clear their questions, or receive study help efficiently.
5. **Q&A Platform:** There will be an academically moderated discussion forum where students will be able to post academic questions, receive answers from peers or instructors, and up vote useful responses. Questions will be labeled by subject, course, or topic for easier discovery and searching.

Target Group & Benefits:

Target Users:

- **Primary:** undergraduate & graduate students.
- **Secondary:** Faculty members.

Benefits:

- Students will be able to manage their time in a better way which will help them academically.

- Teachers will be able to save a lot of class time by just providing the platform and students will be able to collect everything from that platform such as faculty TSF, latest lecture notes, handwritten notes etc.
- University can manage its online services at an organized and planned manner which will reduce cost and time.

Feasibility & Appropriateness:

- It falls squarely within the purview of the Software Development Life Cycle (SDLC) as it encompasses system planning, design, documentation, and evaluation. Code implementation isn't required here.
- It addresses problematically defined problems by customized features designed specifically for AIUB student's purposes, rather than giving universal solutions.
- If the system is effective at AIUB, it can be easily modified for other universities that also experience the same issues. That makes it not only beneficial now but also a sustainable and flexible solution.

Selected Software Development Process Model:

The chosen process model for this project is **Scrum**. Scrum is an agile framework that focuses on iterative development, adaptability, and continuous feedback. It is particularly well-suited for projects where some requirements are clear while others evolve over time, which matches the nature of **AIUB Lifeline**.

Analysis of the Project Environment:

The environment of this project is a mixed environment. Some of the requirements like Lost & Found and Faculty TSF are well understood and relatively static. Other details such as the layout of the Q&A tool or how the notes will be sorted will also be subject to change on the back of user feedback. This makes Scrum a good fit, because it will make the platform stable by regular sprint reviews and backlog refinements.

Team Size, Communication & Feasibility:

Scrum is ideal for small, cross-functional teams, which is the project's smallest possible scale. It roles out a clear separation of concerns (Product Owner, Scrum Master, and Development Team) as well as accountability and focus. We have daily stand-ups, and sprint reviews, which all but ensures that communication is clear. The incremental release of increments is what makes the project viable to meet its goal of having functional system within a reasonable timeline.

Flexibility of the Model:

Scrum is a real adaptive framework and that is one of its greatest strengths. Backlog prioritizations can be shifted should the project scope increase. If there are new technologies that come out, you can refactor architecture in future sprint. If suggested changes are indicated through student input, we can make these without the flow of development being disrupted. This will allow the project to be completed on time.

Contribution to Scientific Results:

The project contributes to Software Engineering by recording how a lean approach can be used to address real world student support problems. The documentation of the project's requirements, backlog prioritization, sprint results, and feedback loops would be useful for further studies and case studies in the context of academic technological solutions.

Evidence Supporting Model Selection:

Scrum is chosen because:

- It allows incremental progress that students and faculty can test early.
- It thrives in environments where not all requirements are fixed from the start.
- It emphasizes collaboration between stakeholders, which is essential in a university setting.
- It reduces the risk of delivering an incomplete or unusable product.

Risk & Uncertainty Management:

Scrum minimizes risks by iterating constantly. In sprint planning a lot of the risks can be called out, In daily standup there will be a discussion session about the risk and then the areas will be reviewed where there might be risks. Rather than save problems until the end, Scrum raises concerns that arise early, which helps reduce the risk of project failure.

Alignment with Project Schedule:

Scrum breaks the work into periods, called sprints (usually 2–4 weeks). In every sprint we deliver a feature which can be measured constantly. It also guarantees the feature to be delivered on time and that deadlines are more reachable, since the project is divided into smaller digestible pieces.

Justification of the Chosen Model:

Scrum is much more appropriate compared to Waterfall, XP or any other model. Scrum is not a traditional model such as Waterfall which expects the requirement not to be revisited after it is

complete wherever in Scrum, changes are inevitable. XP is not suited because it needs a strict environment where stakeholders such as students and faculty members always need to be available, which will not be possible for this platform.

Scrum strikes as the right fit because it has a practical structure which ensures all the stakeholders actively engage with the platform without disrupting the projects flow. This makes it the most suitable model for developing **AIUB Lifeline**.

Phase	Item No	Specification [Role]	User Story
Feature: 1	Header		
phase 1	1	Header	As a user, I want to easily navigate the platform from a clear and consistent header so that I can access different sections without confusion.
Feature: 2	Footer		
phase 1	2	Footer	As a user, I want the footer to provide quick and organized access to important sections of the platform so that I can easily find what I need without having to navigate back to the top of the page. The footer should allow students to reach key features like login, sign up, lost and found, notes, and the Q&A platform directly from any page. It should also give visitors a simple way to find support resources such as the blog, policies, and knowledgebase, while displaying accurate contact information and social media links so they can connect with the platform easily.
Feature: 3	Home Page		
phase 1	3	Hero Section	As a student or teacher visiting the platform, I want the homepage to immediately explain that AIUB Lifeline is a student support platform so I can understand its purpose and decide where to go next. The hero section should highlight how the platform helps by organizing lecture materials, lost and found, and faculty TFS in one place. It should also provide clear call-to-action buttons so that I can quickly choose whether to explore more about the platform, access student-specific resources, or connect as a teacher.

phase 2	4	Quick Navigation Hub	As a student or faculty member visiting the homepage, I want quick navigation suggestions displayed in one place so that I can easily choose from the most relevant actions, such as logging in, searching for lecture materials, or finding faculty information, without having to browse multiple menus. This helps me save time and directly access the resources I need.
phase 3	5	Newsletter Subscription	As a visitor, I want an easy way to subscribe to the AIUB Lifeline newsletter so that I can receive updates, announcements, and important information directly in my email without having to revisit the website frequently.
Feature: 4		Login Page	
phase 1	6	Login Page [student][faculty][admin]	As a student, faculty member or admin, I want to securely log in to AIUB Lifeline using my registered email and password so that I can access my personal dashboard, resources, and academic tools.
Feature: 5		Registration Page	
phase 1	7	Registration Page[student][faculty][admin]	As a student faculty of admin, I want to register with my name, student ID, email, and password so that I can create a personal account on AIUB Lifeline and gain access to features like lecture materials, lost & found, handwritten notes, and Q&A.
Feature: 6		Password Reset	
phase 1	8	Password Reset [student][faculty][admin]	As a student, faculty member or admin, I want to reset my password via email or Google sign-in so I can regain access to my account.

Feature: 7		Student Dashboard	
phase 1	9	Student Dashboard [student]	<p>As a student, I want a personalized dashboard where I can quickly access all the tools and resources I need, such as lecture materials, handwritten notes, faculty TFS, Q&A platform, lost & found, and announcements. Having everything in one place allows me to stay organized, save time, and manage my academic activities more effectively.</p>
phase 2	10	Chatbox [student]	<p>As a student, I want a simple chatbox to message classmates and faculty so I can get quick help and coordinate tasks.</p>
phase 3	11	Edit Profile [student]	<p>As a student or faculty member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.</p>
Feature: 8		Faculty Dashboard	
phase 1	12	Faculty Dashboard [faculty]	<p>As a faculty member, I want a centralized dashboard where I can upload lecture materials, manage TFS schedules, respond to student queries, post announcements, and review submitted notes so that I can efficiently support students and stay connected with their academic needs.</p>
phase 2	13	Chatbox [faculty]	<p>As a faculty, I want a simple chatbox to message classmates and faculty so I can get quick help and coordinate tasks.</p>
phase 3	14	Edit Profile [faculty]	<p>As a faculty member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.</p>

Feature: 9		Admin Dashboard	
phase 1	15	Admin Dashboard [admin]	As an admin, I want a centralized dashboard where I can manage students, faculty, access permissions, and platform-wide resources so that I can ensure the system is functioning correctly, content is monitored, and both students and faculty receive the support they need.
phase 2	16	Edit Profile [admin]	As a admin member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.
Feature: 10		Lost and Found	
phase 1	17	Lost and Found Area [student][faculty][admin]	As a student or faculty member, I want to report lost or found items and search through listings so that I can recover my belongings or help others retrieve theirs. As an admin, I want to review and moderate all lost and found reports so that the platform remains reliable, organized, and free from misuse.
phase 2	18	Post About A Lost Item [student][faculty][admin]	As a student or faculty member, I want to post details about a lost item (including location, name, description, and optional image) so that others can identify and help me recover it.
Feature: 11		Lecture Materials And Notes	
phase 1	19	Lecture Metarial And Notes Area [student][faculty][admin]	As a student, I want to download lecture materials and handwritten notes so that I can study effectively and prepare for exams. As a faculty member, I want to upload lecture files and share study materials so that students have easy access to official course resources. As an admin, I want to oversee uploaded content so that all materials and notes meet platform guidelines and are well-organized.

phase 2	20	Lecture Metarial And Notes Open [student][faculty][admin]	<p>As a student, I want to upload, view, and access shared lecture notes and study materials so that I can prepare better for exams and assignments. and upload notes.</p> <p>As a faculty member, I want to upload official lecture material to support students.</p> <p>As an admin, I want to review uploads, ensure they are relevant, and manage inappropriate or duplicate content.</p>
phase 3	21	Lecture Metarial And Notes Post [student][faculty]	<p>As a student or faculty member, I want to upload and share notes/materials (course name, title, description, and optional image) so others can access and benefit from them.</p>
Feature: 12		Faculty TFS Search	
phase 1	22	Faculty TFS Search [student][faculty][admin]	<p>As a student, I want to search for faculty availability (TFS) so that I can meet them during office hours or contact them when needed.</p> <p>As a faculty member, I want to update and manage my own availability so students can see when and where they can reach me.</p> <p>As an admin, I want to review, approve, and edit faculty schedules to ensure accuracy and consistency across the system.</p>
Feature: 13		Q&A Area	
phase 1	23	Q&A Area [student][faculty][admin]	<p>As a student, I want to ask academic questions and receive answers from peers or faculty so that I can better understand my course materials.</p> <p>As a faculty member, I want to answer student questions and provide academic guidance so that I can support learning beyond the classroom.</p> <p>As an admin, I want to monitor and moderate the Q&A area so that discussions remain respectful, accurate, and relevant.</p>
phase 2	24	Q&A View [student][faculty][admin]	<p>As a student, I want to ask questions about academic or technical topics so I can get help from peers and faculty.</p> <p>As a faculty member, I want to answer questions and provide verified guidance to students.</p> <p>As an admin, I want to moderate questions and answers to keep the platform relevant and respectful.</p>

phase 3	25	Q&A Post [student][faculty]	As a student or faculty member, I want to post questions with tags, title, and details so others can answer and discuss.
Feature: 14		Blogs	
phase 1	26	Blogs [student][faculty][admin]	<p>Student/Faculty: I want to read blog posts and updates so I can stay informed about announcements, events, and resources.</p> <p>Admin: I want to create, edit, and remove blog posts so I can manage platform updates effectively.</p>
phase 2	27	Blog Detailed Page [student][faculty][admin]	<p>Student/Faculty: I want to read the full blog post with details, images, and references so I can gain full knowledge from it.</p> <p>Admin: I want to edit or delete blog posts so I can manage blog content effectively.</p>
Feature: 15		About Page	
phase 1	28	About Page [student][faculty][admin]	As a visitor, I want to read about AIUB Lifeline's mission, vision, and features so that I can understand what the platform is, why it exists, and how it can help me as a student or faculty member.
Feature: 16		Support Page	
phase 1	29	Contact Us [student][faculty][admin]	As a user, I want a support page where I can access FAQs, guides, policies, and contact options so that I can resolve issues or learn how to use the platform effectively.
Feature: 17		Legal Section	
phase 1	30	Terms and Conditions [student][faculty][admin]	As a user, I want to read the Terms & Conditions so that I understand my responsibilities, the rules of using AIUB Lifeline, and the limitations of the platform.
phase 2	31	Privacy Policy [student][faculty][admin]	As a user, I want to read the Privacy Policy so that I understand what data is collected, how it is used, and what rights I have to manage my information.

Feature: 18		Non-Functional Requirement	
phase 1	32	Performance [student][faculty][admin]	As a student, faculty and admin, I want pages and actions to feel instant so I can complete tasks without waiting.
phase 2	33	Security [student][faculty][admin]	As a student, faculty and admin, I want my account and data protected so only the right people can access the right tools.
phase 3	34	Usability [student][faculty][admin]	As a visitor, I want consistent navigation on every page so I never feel lost.
phase 4	35	Reliability [student][faculty][admin]	As a student, faculty and admin, I want accurate, dependable information so I can trust what I see.
phase 5	36	Scalability [admin]	As a admin, I want the system to grow with usage and be adaptable to other universities.
phase 6	37	Maintainability [admin]	As a admin, I want the codebase to be easy to modify so we can iterate every sprint.

1.3 Project Role Identification and Responsibilities

Main Roles Involved:

- **Product Owner:** Oversees the vision of the project, prioritizes the backlog, and represents stakeholder interests.
- **Scrum Master:** Facilitates Scrum ceremonies, removes obstacles for the team, and ensures that the Scrum framework is followed.
- **Development Team:** A cross-functional group of designers, developers, and testers responsible for delivering increments of the product.

Responsibilities in Key Stages:

- **Requirements Gathering:** The Product Owner leads this phase by engaging with students, faculty, and other stakeholders to document needs, while the Scrum Master ensures smooth communication. The Development Team assists by analyzing technical feasibility.
- **Design:** The Development Team takes primary responsibility for wireframes, system architecture, and UI design. The Product Owner reviews and approves based on alignment with user needs.

- **Implementation:** Developers within the team write and integrate code, supported by designers for interface elements. The Scrum Master ensures that impediments are resolved quickly.
- **Testing:** QA members of the Development Team verify each increment through functional testing and user acceptance testing. Feedback is collected from stakeholders for improvements.
- **Deployment:** The Development Team ensures the system is deployed smoothly. The Product Owner confirms release readiness, and the Scrum Master coordinates retrospective feedback.

Distribution and Justification

Responsibilities are distributed according to expertise to ensure efficiency:

- The **Product Owner**, with strong communication and organizational skills, focuses on aligning the platform with student and faculty needs.
- The **Scrum Master**, experienced in agile processes, ensures discipline in following Scrum and maintaining momentum.
- The **Development Team**, comprised of members skilled in web development, database management, UI/UX design, and quality assurance, collaboratively handle design, implementation, and testing.

This allocation ensures that each phase of the project is handled by individuals best suited for the role, leveraging their skills while maintaining accountability. It provides a balanced structure where management and technical aspects are both equally prioritized, thereby maximizing the probability of successful project delivery.

2. PRODUCT REQUIREMENTS DOCUMENT (PRD)

2.1 Functional Requirements

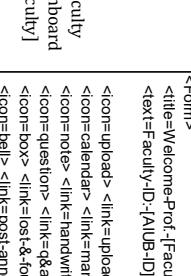
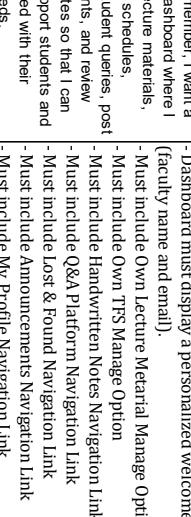
Template Name	AUUB Lifeline				
Goals & Objective	<p>We all face challenges in student life. The goal of this platform is to provide a unified and reliable system where AUUB students and faculty can connect, share, and access important resources easily.</p> <p>From this platform students/faculty can:</p> <ul style="list-style-type: none"> -Report & find lost belongings -Share and access lecture/handwritten notes -Get faculty-approved study materials -Check faculty consulting schedules -Ask & answer academic questions -View Faculty TSF 				
Phase	Item No	Specification	Screen Definition	User Story	Acceptance Criteria
Feature: 1		Header	<pre><Form> <input=c-address> <input=c-contact-number> <input-support-email> <icon=facebook> <icon=twitter> <icon=linkedin> <icon=youtube> <icon=rss> <log=AUUB Lifeline> <link=home> <link>About> <link=knowledgebase> <button=login> <button=signup> </Form></pre>	<p>As a user, I want to easily navigate the platform from a clear and consistent header so that I can access different sections without confusion.</p>	<ul style="list-style-type: none"> - Header must be visible on all pages - Logo must link to homepage - Menu items must navigate to correct pages - Login/Signup buttons must be functional - Social icons should redirect to correct platforms
phase 1	1	Header			

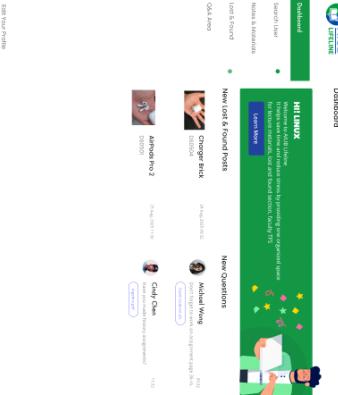
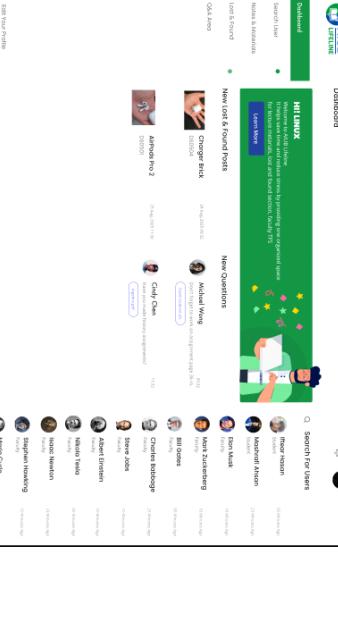
Feature: 2	Footer	Footer
<pre data-bbox="479 65 1003 2071"><form> <logo=AUB Lifeline> <description=AUB Lifeline is a unified platform where AUB students and faculty can share resources, find support, and stay organized with academic tools.> <link=login> <link=sign-up> <link=lost-& found> <link=faculty-tbs> <link=handwritten-notes> <link=q&a-platform> <link=blog> <link=about> <link=contact-us> <link=terms-& conditions> <link=privacy-policy> <text=408/1-(Old-KA-66/1)-Kuratoli-Khilkhel-Dhaka: 1229-Bangladesh> <text=(616)-458-6733> <text=Toll-Free:(888)-533-3274> <text=support@aublifeline.com> <icon=facebook> <icon=twitter> <icon=linkedin> <icon=youtube> <icon=rss> <text=Copyright © 2025-AUUB-Lifeline.-All rights reserved.> </form></pre>	<p>As a user, I want the footer to provide quick and organized access to important sections of the platform so that I can easily find what I need without having to navigate back to the top of the page. The footer should allow students to reach key features like login, sign up, lost and found, notes, and the Q&A platform directly from any page. It should also give visitors a simple way to find support resources such as the blog, policies, and knowledgebase, while displaying accurate contact information and social media links so they can connect with the platform easily.</p>	<p>- Footer must be visible on all pages. - The Features, Support, and Contact sections must be clearly separated - Clicking on links should redirect users to the correct pages. - Contact section must display physical address, phone numbers, and email correctly. - Social media icons should redirect to their respective platforms. - Copyright text must display current year automatically.</p>

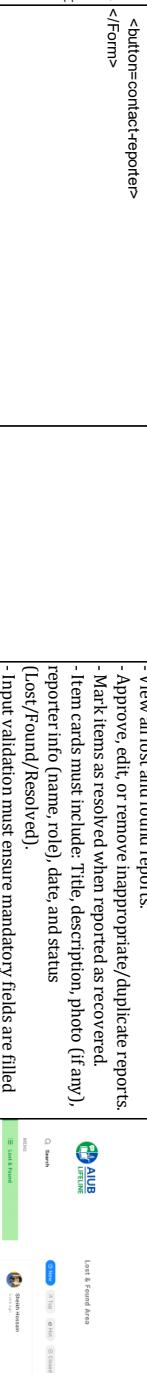
Feature: 3	Home Page	P	
phase 1 3	<p><Form></p> <p><title>AU B LIFELINE IS A STUDENT SUPPORT PLATFORM</title></p> <p><text>that helps students save time and reduce stress by providing one organized space for lecture materials, lost and found section, and faculty TFS in one place.</text></p> <p><button>learn more</button></p> <p><image>teacher-class.jpg alt="Teacher giving lecture"></p> <p><image>student-profile.jpg alt="Students collaborating in study session"></p> <p><button>I'm-a-Student → Find-the-guidance-you-need.</button></p> <p><button>I'm-a-Teacher → Connect-with-your-students.</button></p> <p></Form></p>	<p>As a student or teacher visiting the platform, I want the homepage to immediately explain that AU B Lifeline is a student support platform so I can understand its purpose and decide where to go next. The hero section should highlight how the platform helps by organizing lecture materials, lost and found, and faculty TFS in one place. It should also provide clear call-to-action buttons so that I can quickly choose whether to explore more about the platform, access student-specific resources, or connect as a teacher.</p>	<ul style="list-style-type: none"> The hero section must display a clear headline that explains the platform's purpose. 
phase 2 4	<p><Form> <title>How Can We Help You?</title> <icon>user</icon></p> <p><link>sign-in-to-your-account</link> <icon>search</icon></p> <p><link>search-for-lecture-materials</link> <icon>box</icon></p> <p><link>lost-&-found-area</link> <icon>heart</icon></p> <p><link>handwritten-notes</link> <icon>user-plus</icon></p> <p><link>create-an-account</link> <icon>calendar</icon> <link>find-faculty-tfs</link> <icon>question</icon> <link>q&a-platform</link></p> <p><icon>book</icon> <link>learn-more-about-us</link></p> <p></Form></p>	<p>As a student or faculty member visiting the homepage, I want quick navigation suggestions displayed in one place so that I can easily choose from the most relevant actions, such as logging in, searching for lecture materials, or finding faculty information, without having to browse multiple menus. This helps me save time and directly access the resources I need.</p>	<ul style="list-style-type: none"> Essential Page Links 
phase 3 5	<p><Form></p> <p><title>Subscribe to our Newsletter</title></p> <p><text>Get-latest-updates-directly-into-your-email</text></p> <p><input>email</input></p> <p><button>subscribe</button></p> <p></Form></p>	<p>As a visitor, I want an easy way to subscribe to the AU B Lifeline newsletter so that I can receive updates, announcements, and important information directly in my email without having to revisit the website frequently.</p>	<ul style="list-style-type: none"> Must have a section to input email <p>SUBSCRIBE TO OUR NEWSLETTER</p> <p>Newsletter Subscription</p> 

Feature: 4		Login Page	
phase 1	6	Login Page [student][faculty] [admin]	<pre><Form> <title>Login to AIUB Lifeline</title> <input=login> <input=password> <link=forgot-password> <link=sign-up> </Form></pre>
Feature: 5		Registration Page	
phase 1	7	Registration Page [student][faculty] [admin]	<pre><Form> <title>Create Student Account</title> <input=full-name> <input=student-id> <input=email> <input=password> <input=re-password> <button=register> <link=login> </Form></pre>
Feature: 6		Password Reset	
phase 1	8	Password Reset [student][faculty] [admin]	<p><Form></p> <p><title>Password Reset</title></p> <p><text>Enter your email and we will send you a password reset link.</text></p> <p><button>Sign in with Google</button></p> <p><input type="email" placeholder="Email Address"></p> <p><button>Submit</button></p> <p><link>Sign Up</link></p> <p><link>Terms & Conditions</link></p> <p><link>Privacy Policy</link></p> <p></Form></p> <p>As a student, faculty member or admin, I want to reset my password via email or Google sign-in so I can regain access to my account.</p> <p>- Must allow password reset via email input. - Must include Sign in with Google option. - Must show links to Sign Up, Terms & Conditions, Privacy Policy.</p> <p>- Reset link should be sent instantly to the provided email.</p>

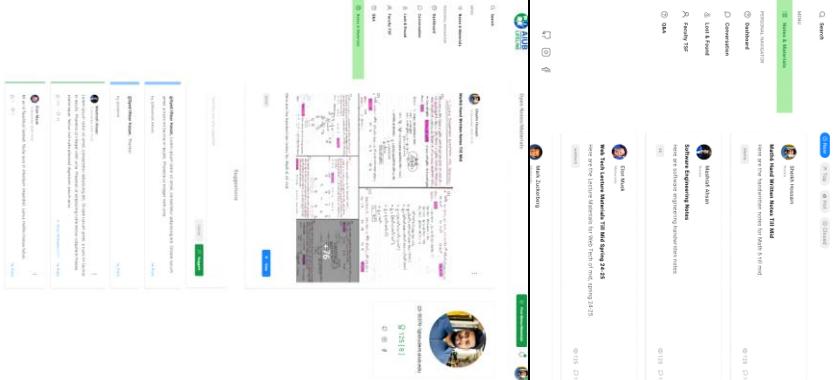
Feature: 7		Student Dashboard	
phase 1	9	Student Dashboard [student]	<pre><Form> <title>Welcome-[Student-Name]</title> <text>-Student-ID-[AUB-ID]</text> <icon=book> <link=lecture-materials> <icon=calendar> <link=faculty-1fs> <icon=note> <link=handwritten-notes> <icon=question> <link=q&a-platform> <icon=box> <link=lost-&found> <icon=bell> <link=announcements> <icon=profile> <link=my-profile> <icon=logout> <link=logout> </Form></pre> <p>As a student, I want a personalized dashboard where I can quickly access all the tools and resources I need, such as lecture materials, handwritten notes, faculty TFS, Q&A platform, lost & found, and announcements. Having everything in one place allows me to stay organized, save time, and manage my academic activities more effectively.</p>
phase 2	10	Chatbox [student]	<pre><Form> <title>Messages</title> <text>-Chat with classmates and faculty for course and campus help.</text> <input type="text" placeholder="Search conversations"> <button>New Chat</button> <list> <conversation-item>Contact name • last message • time • tags</conversation-item> <conversation-item>...</conversation-item> </list></pre> <p>As a student, I want a simple chatbox to message classmates and faculty so I can get quick help and coordinate tasks.</p>
phase 3	11	Edit Profile [student]	<pre><Form> <title>Edit Profile</title> <text>-Update your personal details, password, and account information.</text> <input type="text" placeholder="First Name"> <input type="text" placeholder="Last Name"> <input type="text" placeholder="Student ID / Faculty ID"> <input type="text" placeholder="Phone Number"> <select><option>Student</option> <option>Faculty</option> </select></pre> <p>As a student or faculty member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.</p>

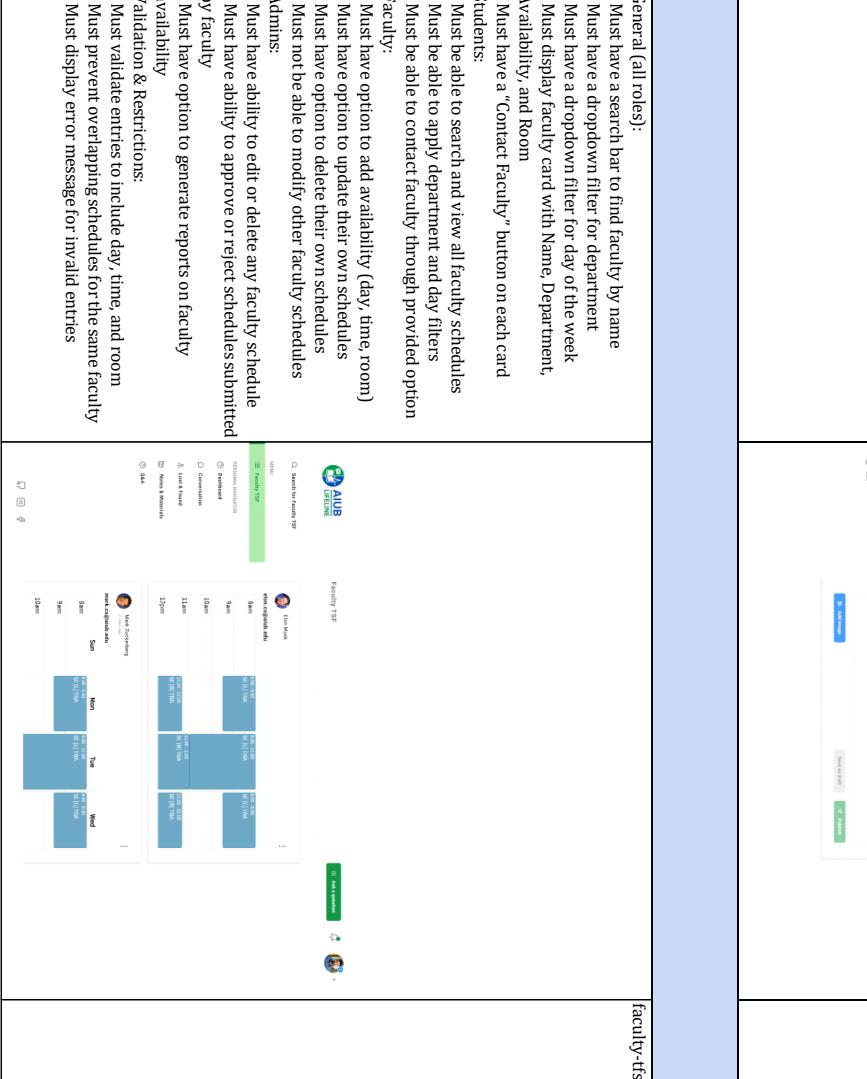
Feature: 8	Faculty Dashboard		
phase 1 12	<pre><Form> <title=Welcome-Prof-[Faculty-Name]> <text=F-aculty-ID:[AUB-ID]> <icon=upload> <link=upload-lecture-materials> <icon=calendar> <link=manage-tfs> <icon=note> <link=handwritten-notes-(review)> <icon=box> <link=post-&found-(manage)> <icon=bell> <link=post-announcements> <icon=profile> <link=my-profile> <icon=logout> <link=logout> </Form></pre> <p>As a faculty member, I want a centralized dashboard where I can upload lecture materials, manage TFS schedules, respond to student queries, post announcements, and review submitted notes so that I can efficiently support students and stay connected with their academic needs.</p>	<ul style="list-style-type: none"> - Dashboard must display a personalized welcome message (faculty name and email). - Must include Own Lecture Material Manage Option - Must include Handwritten Notes Navigation Link - Must include Q&A & Found Navigation Link - Must include Lost & Found Navigation Link - Must include Announcements Navigation Link - Must include My Profile Navigation Link - Must include Logout 	faculty-dashboard
phase 2 13	<pre><Form> <title=Messages <title> <text>Chat with classmates and faculty for course and campus help.</text> <input type="text" placeholder="Search conversations"> <button>New Chat</button> <list> <conversation-item>Contact name • last message • time • tags </conversation-item> <conversation-item>...</conversation-item> </list></pre> <p>As a faculty, I want a simple chatbox to message students and faculty so I can get quick help and coordinate tasks.</p>	<ul style="list-style-type: none"> - Must show conversation list, active thread, and message composer. - Must support send text, attach file/image, and search conversations. - Must show online status of the active contact. - New messages appear instantly in the thread. - Only logged-in users can chat. 	chatbox
phase 3 14	<pre><Form> <title>Edit Profile</title> <text>Update your personal details, password, and account information.</text> <input type="text" placeholder="First Name"> <input type="text" placeholder="Last Name"> <input type="text" placeholder="Student ID / Faculty ID"> <input type="text" placeholder="Phone Number"> <select placeholder="Profession"> <option>Student</option> <option>Faculty</option> <select> <input type="password" placeholder="New Password"></pre> <p>As a faculty member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.</p>	<ul style="list-style-type: none"> - Must allow editing of name, ID, phone, profession, and password. - Must allow adding additional email addresses. - Faculty users must be able to upload TFS. - Updates should reflect immediately in the user's dashboard. - Must provide Save and Cancel options. 	edit-profile

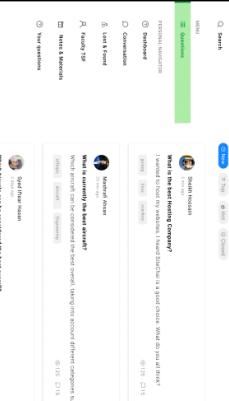
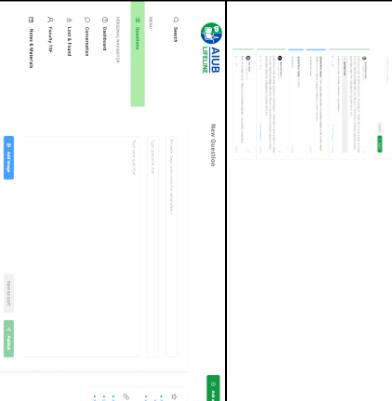
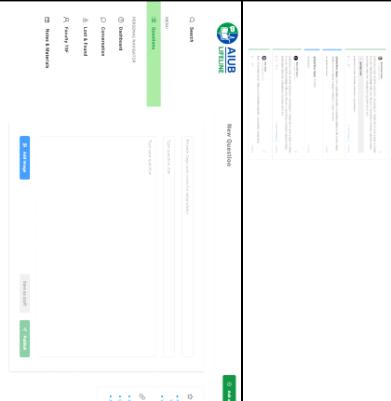
Feature: 9	Admin Dashboard	As an admin, I want a centralized dashboard where I can manage students, faculty, access permissions, and platform-wide resources so that I can ensure the system is functioning correctly, content is monitored, and both students and faculty receive the support they need.	login, authentication
phase 1	<pre data-bbox="442 297 736 741"><Form> <title>Welcome Admin-[Name]</title> <icon=users> <link=manage-students> <icon=teacher> <link=manage-faculty> <icon=shield> <link=access-control> <icon=book> <link=lecture-materials-overview> <icon=question> <link=monitor-q&a> <icon=box> <link=lost-&-found-management> <icon=bell> <link=manage-announcements> <icon=status> <link=analytics-&reports> <icon=settings> <link=system-settings> <icon=profile> <link=my-profile> <icon=logout> <link=logout> </Form></pre>	<p>- Dashboard must display a personalized welcome message (Admin name).</p> <p>- Must include the following main navigation cards/widgets:</p> <ul style="list-style-type: none"> - Manage Students - Manage Faculty - Access Control (roles, permissions) - Lecture Materials Oversight - Faculty TFS Oversight - Monitor Q&A - Lost & Found Management - Manage Announcements - Analytics & Reports (usage stats, user growth, activity logs) - System Settings (configuration, maintenance) - My Profile - Logout <p>- Each card must include an icon, label, and link to the correct admin tool/page.</p> <p>- Manage Students/Faculty must support CRUD (Create, Read, Update, Delete) operations.</p> <p>- Access Control must allow assigning or revoking roles (student, faculty, admin).</p> <p>- Analytics & Reports must generate summaries of user activity and system performance.</p> <p>- Logout must clear session and redirect to login page.</p> <p>- Dashboard must be responsive and accessible across devices.</p> <p><small>Non-dashboards must be denied access and managed if</small></p> <ul style="list-style-type: none"> - Must allow editing of name, ID, phone, profession, and password. - Must allow adding additional email addresses. - Faculty users must be able to upload TSF. - Must provide Save and Cancel options. - Updates should reflect immediately in the user's dashboard. 	
phase 2	<pre data-bbox="442 340 736 741"><Form> <title>Edit Profile</title> <text>Update your personal details, password, and account information.</text> <input type="text" placeholder="First Name"> <input type="text" placeholder="Last Name"> <input type="text" placeholder="Student ID / Faculty ID"> <input type="text" placeholder="Phone Number"> <select placeholder="Profession"> <option>Student</option> <option>Faculty</option> </select> <input type="password" placeholder="New Password"></pre> <p data-bbox="376 340 736 741"><email-section> <current-email>23-51376-1@student.aub.edu</current-email> <button>Add Email Address</button> </email-section></p> <p data-bbox="262 340 376 741"><button>Upload TSF (Faculty Only)</button> <button>Save</button> <button>Cancel</button> </Form></p>	<p>As a admin member, I want to update my profile details (name, ID, phone, password, and email) so my account remains accurate and secure.</p> <ul style="list-style-type: none"> - Must allow editing of name, ID, phone, profession, and password. - Must allow adding additional email addresses. - Faculty users must be able to upload TSF. - Must provide Save and Cancel options. - Updates should reflect immediately in the user's dashboard. <p><small>Non-dashboards must be denied access and managed if</small></p> <p><small>edit-profile</small></p> 	Page 21 of

Feature: 10		Lost and Found
phase 1	17	<p><code><form></code> <code><title> Lost-and-Found </title></code> <code><text> Report-Lost-Items, search-found-belongings, and connect-with-others-to-recover-items. </text></code> <code><button> report-lost-item </button></code> <code><button> search-items </button></code> <code><image> item-photo.jpg alt="lost-item-photo" ></code> <code><text> Status -> [User-Name] Date -> [dd/mm/yyyy]</code> <code><button> contact-reporter </button></code> <code></Form></code></p> <p>[student][faculty] [admin] Lost and Found Area</p> <p>As a student or faculty member, I want to report lost or found items and search through listings so that I can recover my belongings or help others retrieve theirs.</p> <p>As an admin, I want to review and moderate all lost and found reports so that the platform remains reliable, organized, and free from misuse.</p> <p>- Features for admins: - View all lost and found reports. - Approve, edit, or remove inappropriate/duplicate reports. - Mark items as recovered when reported as recovered. - Item cards must include: Title, description, photo (if any), reporter info (name, role), date, and status (Lost/Found/Resolved). - Input validation must ensure mandatory fields are filled before submission. - Uploaded photos must have size and format restrictions (e.g., JPEG, PNG, max 2MB). - Confirmation message must appear after successful report submission. - The page must be responsive and mobile-friendly. - Unauthorized users (not logged in) must be redirected to the login page.</p> <p>- The page must be accessible to students, faculty, and admins with role-based permissions. - Input fields must include: Location, Item Name, name, description, and optional Description (required), and optional image upload. - Must provide buttons: Add Image, Save as Draft, and Publish.</p> <p>- A published item should appear in the Lost & Found listing with title, description, location and optional photo. - Drafts should be saved for later editing and publishing. - Only logged-in users can post items.</p> 
phase 2	18	<p><code><form></code> <code><title> Post About A Lost Item </title></code> <code><text> Report a lost item by filling in the required details so others can help recover it. </text></code> <code><input type="text" placeholder="Item Name"></code> <code><input type="text" placeholder="Description"></code> <code><textarea placeholder="Item Name"></code> <code><button> Save as Draft </button></code> <code><button> Publish </button></code> <code></Form></code></p> <p>Post About A Lost Item [student][faculty] [y][admin]</p> <p>As a student or faculty member, I want to post details about a lost item (including location, name, description, and optional image) so that others can identify and help me recover it.</p> <p>- The page must be accessible to students and faculty with role-based permissions. - Input fields must include: Location, Item Name, name, description, and optional Description (required), and optional image upload. - Must provide buttons: Add Image, Save as Draft, and Publish.</p> <p>- A published item should appear in the Lost & Found listing with title, description, location and optional photo. - Drafts should be saved for later editing and publishing. - Only logged-in users can post items.</p> 

Feature: 11	Lecture Materials And Notes	
phase 1 19	<pre> <Form> <text>Lecture-Materials-&-Notes> <text>Access-uploaded-lecture-files-and-shared-handwritten-notes-in-one-place.</text> <button=upload:lecture-materials> <input=title> <textarea>Description</textarea> <input=file> <button>Submit</button> </button> </text> <title>Lecture-Topic-(e.g.,-Digital-Logic-Week-3)</title> <text>Uploaded-by:[Faculty-Name]-Date:</text> <link=download:file.pdf> <link=download:note.jpg> </Form> </pre>	<p>As a student, I want to download lecture materials and handwritten notes so that I can study effectively and prepare for exams.</p> <p>As a faculty member, I want to upload lecture files and share study materials so that students have easy access to official course resources.</p> <p>As an admin, I want to oversee uploaded content so that all materials and notes meet platform guidelines and are well-organized.</p> <ul style="list-style-type: none"> - Can view and download lecture materials uploaded by faculty. - Can upload handwritten notes with optional description. - Can delete their own uploaded notes. - Can view all materials and notes. - Can edit or delete their own uploads. - Cannot delete student-uploaded notes (only admins can). <p>Admins:</p> <ul style="list-style-type: none"> - Can view all materials and notes. - Can delete or edit any uploaded content. - Can categorize uploads under specific courses. - Can mark tagged content as inappropriate or remove it. - Validation & Restrictions: <ul style="list-style-type: none"> - File formats: PDF, DOC, PPT, JPG, PNG. - Max file size: 10MB. - All uploads must require a Title field. - Error messages must appear if upload fails.
phase 2 20	<pre> <Form> <text>Open Notes/Materials</title> <text>Upload and share academic notes, materials, or resources with other students and faculty members.</text> <button>Post Notes/Materials</button> <image src="note-preview.jpg" alt="Notes preview"> <text>Note Title (e.g., Math Hand Written Notes Till Mid)</text> <text>Posted by: [User Name], Role: [Student/Faculty], Date: (dd/mm/yyyy)</text> <text>Description: [Brief description of the material]</text> <button>Vote</button> <button>Suggestion</button> <button>Cancel</button> <button>Suggest</button> <comment>User comments with replies, votes, and discussion threads</comment> </Form> </pre>	<p>As a student, I want to upload, view, and access shared lecture notes and study materials so that I can prepare better for exams and assignments, and upload notes.</p> <p>As a faculty member, I want to upload official lecture material to support students.</p> <p>As an admin, I want to review uploads, ensure they are relevant, and manage inappropriate or duplicate content.</p> <p>-Admins can: <ul style="list-style-type: none"> -View, edit, or remove inappropriate/duplicate uploads. -Monitor comments and suggestions for relevance. -Note cards must include: Title, description, posted by (name & role), date, optional images/files, and vote button. </p> <p>-Suggestions section must allow users to add and submit improvement ideas.</p> <p>Comments section must allow replies to add and submit threaded discussions.</p>



Feature: 12 Faculty TFS Search	<p>As a student or faculty member, I want to upload and share notes/materials (course name, title, description, and optional image) so others can access and benefit from them.</p> <pre><Form> <title>Post A Note/Material</title> <text>Share academic notes, lecture materials, or resources with others.</text> <input type="text" placeholder="Course Name"> <input type="text" placeholder="Title"> <textarea placeholder="Description"></textarea> <button>Add Image</button> <button>Save as Draft</button> <button>Publish</button> </Form></pre>	<ul style="list-style-type: none"> -Must include Course Name, Title, Description, and optional image. -Must allow Save as Draft and Publish actions. -Only logged-in users can post. -Uploaded notes appear in the Notes & Materials feed. 
Feature: 12 Faculty TFS Search	<p>As a student, I want to search for faculty availability (TFS) so that I can meet them during office hours or contact them when needed.</p> <p>As a faculty member, I want to update and manage my own availability so students can see when and where they can reach me.</p> <p>As an admin, I want to review, approve, and edit faculty schedules to ensure accuracy and consistency across the system.</p> <pre><Form> <title>Faculty-TFS</title> <text>Search-and-view-faculty-schedules,-consultation-hours,-and-availability.</text> <input type="search" placeholder="Search by faculty name"> <select> <option>filter-by-department</option> <option>CSE</option> <option>BBA</option> <option>EEE</option> <option>Architecture</option> <option>filter-by-day</option> <option>Sunday</option> <option>Monday</option> <option>Tuesday</option> <option>Wednesday</option> <option>Thursday</option> <option>Friday</option> <button>Search</button> </Form></pre> <p>Faculty TFS Admin:</p> <pre><Form> <title>Prof.-[Faculty-Name]</title> <text>Department-[Dept-Name]</text> <text>Available-[Days]-[Time(s)]</text> <text>Room-[Room-Number]</text> <button>Contact-Faculty</button> </Form></pre>	<p>As a student, I want to search for faculty availability (TFS) so that I can meet them during office hours or contact them when needed.</p> <p>As a faculty member, I want to update and manage my own availability so students can see when and where they can reach me.</p> <p>As an admin, I want to review, approve, and edit faculty schedules to ensure accuracy and consistency across the system.</p> <ul style="list-style-type: none"> - Must have a search bar to find faculty by name - Must have a dropdown filter for department - Must have a dropdown filter for day of the week - Must display faculty card with Name, Department, Availability, and Room - Must have a "Contact Faculty" button on each card - Must be able to search and view all faculty schedules - Must be able to apply department and day filters - Must be able to contact faculty through provided option - Must have option to add availability (day, time, room) - Must have option to update their own schedules - Must be able to contact faculty through provided option - Must not be able to modify other faculty schedules - Must have ability to edit or delete any faculty schedule - Must have ability to approve or reject schedules submitted by faculty - Must have option to generate reports on faculty availability - Validation & Restrictions: <ul style="list-style-type: none"> - Must validate entries to include day, time, and room - Must prevent overlapping schedules for the same faculty - Must display error or message for invalid entries 

Feature: 13	Q&A Area			
phase 1 23	<p>Q&A Area [student][faculty] [y][admin]</p> <pre><Form> <title>Q&A Platform</title> <text>Ask questions, get answers, and discuss academic topics with peers and faculty!</text> <textarea>Ask question</textarea> <button>Post question</button> <button>Ask question</button> <button>Post question</button></pre> <p><title>Question - How to solve problem 3 from Digital Logic midterm?</title> <text>Asked by: [Student Name] - Date: [dd/mm/yyyy]</text> <text>Faculty Name: [The solution requires applying K-map's implication...]</text> <text>I solved it by using Boolean algebra. Here's my method...</text> <button>Answer</button></p> <pre></Form></pre> <p><Form> <title>Post A Note/Material</title> <text>Share academic notes, lecture materials, or resources with others.</text> <input type="text" placeholder="Course Name"> <textarea placeholder="Description"></textarea> <button>Add Image</button> <button>Save as Draft</button> <button>Publish</button></p> <pre></Form></pre>	<p>As a student, I want to ask academic questions and receive answers from peers or faculty so that I can better understand my course materials.</p> <p>As a faculty member, I want to answer student questions and provide academic guidance so beyond the classroom.</p> <p>As an admin, I want to monitor and moderate the Q&A area so that discussions remain respectful, accurate, and relevant.</p> <p>As a student, I want to ask questions about academic or technical topics so I can get help from peers and faculty.</p> <p>As a faculty member, I want to answer questions and provide verified guidance to students.</p> <p>As an admin, I want to moderate questions and answers to keep the platform relevant and respectful.</p> <p>As a student or faculty member, I want to post questions with tags, title, and details so others can answer and discuss.</p>	<ul style="list-style-type: none"> - Must allow students to post questions - Must allow students and faculty to post answers - Must display who asked the question and when - Must display answers under each question - Must allow faculty to mark an answer as official/verified - Must allow admins to delete or moderate any post - Must prevent empty submissions - Must be responsive across desktop, tablet, and mobile 	q&a
phase 2 24	<p>Q&A View [student][faculty] [y][admin]</p> <pre><Form> <title>Post A Note/Material</title> <text>Share academic notes, lecture materials, or resources with others.</text> <input type="text" placeholder="Course Name"> <textarea placeholder="Description"></textarea> <button>Add Image</button> <button>Save as Draft</button> <button>Publish</button></pre> <pre></Form></pre>	<p>As a student, I want to ask questions about academic or technical topics so I can get help from peers and faculty.</p> <p>As a faculty member, I want to answer questions and provide verified guidance to students.</p> <p>As an admin, I want to moderate questions and answers to keep the platform relevant and respectful.</p>	<ul style="list-style-type: none"> - Must allow users to post questions with title, description, tags, and optional code block. - Must allow answers, comments, and threaded replies. - Must support upvotes/downvotes on both questions and answers. - Must include a Suggestions box for alternative solutions. - Only logged-in users can post, comment, or vote. - Admin can edit/remove inappropriate posts. 	q&a
phase 3 25	<p>Q&A Post [student][faculty]</p> <pre><Form> <title>New Question</title> <text>Ask academic or technical questions and share them with others.</text> <input type="text" placeholder="Tags (use comma for separation)"> <input type="text" placeholder="Question Title"> <textarea placeholder="Type your question"></textarea> <button>Add Image</button> <button>Save as Draft</button> <button>Publish</button></pre> <pre></Form></pre>	<p>As a student or faculty member, I want to post questions with tags, title, and details so others can answer and discuss.</p>	<ul style="list-style-type: none"> - Must allow adding Tags, Title, and Question text. - Must allow uploading optional image. - Must provide Save as Draft and Publish options. - Posted questions appear in the Q&A feed for others to answer. 	q&a

Feature: 14	Blogs
<p>phase 1</p> <p>26</p> <p>Blogs [student][faculty]</p> <pre><Form> <title>Blog</title> <text>Stay updated with the latest news, announcements, and articles.</text> <blog-list> <blog-card> <image>Blog Thumbnail</image> <title>Blog Title</title> <date>DD-MM-YYYY</date> <text>Short description of the blog post.</text> <button>Read More</button> </blog-card> </blog-list> <pagination>1 2 3 4 5 ...</pagination></pre>	<p>Student/Faculty: I want to read blog posts and updates so I can stay informed about announcements, events, and resources.</p> <p>Admin: I want to create, edit, and remove blog posts so I can manage platform updates effectively.</p> <p>Student/Faculty: I want to read the full blog post with details, images, and references so I can gain full knowledge from it.</p> <p>Admin: I want to edit or delete blog posts so I can manage blog content effectively.</p>
<p>phase 2</p> <p>27</p> <p>Blog Detailed Page [student][faculty]</p> <pre><Form> <title>Blog Detailed Page</title> <text>Read the full content of a blog post with related categories, archives, and recent posts.</text> <blog-post> <image>Blog Featured Image</image> <title>Blog Title</title> <meta>Author • Date • Category • Comments</meta> <content>Full blog article text with images, links, and resources.</content> <blog-post> <search placeholder="Search blog posts"></search> <recent-posts>List of latest blog articles</recent-posts> <categories>Blog categories</categories></pre>	<p>-Must display blog posts with title, image, date, and short description.</p> <p>-Must provide Read More button linking to full blog post.</p> <p>-Must include pagination for older posts.</p> <p>-Must provide newsletter subscription box.</p> <p>-Admins must be able to add, edit, and delete blog posts via an admin panel.</p> <p>-Must display full blog content with images, links, and metadata (author, date, category, comments).</p> <p>-Must include sidebar with search, recent posts, categories, and archives.</p> <p>-Must provide share and comment options.</p> <p>-Admin access must allow edit and delete of the post.</p> 

Feature: 15	About Page		
phase 1 28	About Page [student][faculty][admin]	<p><Form></p> <p><title>About-AUB-Lifeline></p> <p><text>A-unified-student-support-platform-that-helps-students-save-time-and-reduce-stress-by-organizing-lecture-materials,-notes,-lost-and-found,-faculty-TFS,-and-academic-discussions-in-one-place.></p> <p><text>Our-Mission></p> <p><text>To-empower-AUB-students-and-faculty-with-digital-tools-that-make-academic-life-easier,-more-organized,-and-connected.></p> <p><title>Our-Vision></p> <p><text>To-become-the-most-reliable-academic-support-platform-at-AUB,-fostering-collaboration-and-success-across-the-university-community.></p> <p><title>What-We-Offer></p> <p><text>Access-to-lecture-materials-and-handwritten-notes></p> <p><text>Lost-&-Found-platform-for-campus-belongings></p> <p><text>Faculty-TFS-search-and-availability></p> <p><text>Student-to-student-and-student-to-faculty-Q&A></p> <p><text>Announcements-and-updates></p> <p><Form></p>	<p>As a visitor, I want to read about AUB Lifeline's mission, vision, and features so that I can understand what the platform is, why it exists, and how it can help me as a student or faculty member.</p> <ul style="list-style-type: none"> - Must display platform description (what AUB Lifeline is) - Must include sections for mission and vision - Must list the key features offered by the platform - Must have a register instead option  <p>AUB Lifeline Slogans On-Demand Support Lost & Found Announcements</p> <p>Key Features</p> <p>The platform will be a central hub for all academic support needs at AUB. It will provide students and faculty with access to lecture materials, handwritten notes, lost and found items, and faculty availability. The platform will also facilitate communication between students and faculty through Q&A sessions and announcements.</p>
phase 1 29	Contact Us [student][faculty][admin]	<p>Feature: 16</p> <p>Support Page</p> <p><Form></p> <p><title>Support></p> <p><text>Find-help,-resources,-and-guidance-for-using-AUB-Lifeline.></p> <p><title>Help-Center></p> <p><link>FAQs></p> <p><link>User-Guides></p> <p><link>Contact-Support></p> <p><title>Policies></p> <p><link>Terms-&-Conditions></p> <p><link>Privacy-Policy></p> <p><Form></p>	<p>As a user, I want a support page where I can access FAQs, guides, policies, and contact options so that I can resolve issues or learn how to use the platform effectively.</p> <ul style="list-style-type: none"> - Must support email & other contact information  <p>support</p>

Feature: 17	Legal Section	
<p>phase 1</p> <p>30</p> <p>Terms and Conditions [student][faculty][admin]</p> <pre data-bbox="321 306 1341 739"><Form> <title=Terms & Conditions> <text=Effective-Date-[DD/MM/YYYY]> <text=1 -User-Agreement> <text= Details-about-user-responsibilities-and-agreement.> <text=2 -Prohibited-Activities> <text= Rules-against-misuse,-spam,-academic-dis-honesty,-etc.> <text=3 -Platform-Usage> <text= Guidelines-for-students-and-faculty-using-the-services.> <text=4 -Liability> <text= Limitations-of-responsibility-for-AUB-Lifeline.> <text=5 -Changes> <text= Policy-on-updates-and-modifications-to-these-terms.></pre>	<p>As a user, I want to read the Terms & Conditions so that I understand my responsibilities, the rules of using AUB Lifeline, and the limitations of the platform.</p>	<p>-Must list all terms and conditions</p> <p>terms-and-conditions</p> 
<p>phase 2</p> <p>31</p> <p>Privacy Policy [student][faculty][admin]</p> <pre data-bbox="321 306 1341 950"><text=Information-Usage> <text= How-collected-data-is-used-(authentication,-support,-analytics).> <text=1 -Information-Collection> <text= Details-on-what-user-data-is-collected-(e.g., -email, -ID).> <text=2 -Information-Usage> <text= Effective-Date-[DD/MM/YYYY]> <text=3 -Data-Protection> <text= Measures-taken-to-protect-personal-information.> <text=4 -Sharing-Policy> <text= When-if-ever-data-may-be-shared-(legal-obligations-only).> <text=5 -User-Rights> <text= Options-for-users-to-update-or-delete-their-data.> </Form></pre>	<p>As a user, I want to read the Privacy Policy so that I understand what data is collected, how it is used, and what rights I have to manage my information.</p> <p>-Must list all privacy policies</p> <p>privacy-policy</p> 	

Feature: 18	Non-Functional Requirement	
phase 1 32	Performance [student][faculty][admin]	<p>Response time, perceived latency, interactive smoothness</p> <p>As a student, faculty and admin, I want pages and actions to feel instant so I can complete tasks without waiting</p> <ul style="list-style-type: none"> -All the pages in PC & Phone takes less than 5 seconds to load -Chat messages loads and sends within a second -Uploading files will not take more than 10 second
phase 2 33	Security [student][faculty][admin]	<p>Authentication, authorization, data validation</p> <p>As a student, faculty and admin, I want my account and data protected so only the right people can access the right tools.</p> <ul style="list-style-type: none"> -Unique, validated email; strong password policy enforced at input -Session management prevents unauthorized access to protected routes -Role-based access denies access to other then the given role options -Cloudflare prevents unwanted brute force attacks
phase 3 34	Usability [student][faculty][admin]	<p>Header, footer, primary nav, shortcuts</p> <p>As a visitor, I want consistent navigation on every page so I never feel lost.</p> <ul style="list-style-type: none"> -Header and footer remain visible and consistent on all pages -Menu links always route to the correct destination -Clear, descriptive labels; focus order and keyboard tabbing are logical -Empty states and errors provide actionable guidance
phrase 4 35	Reliability [student][faculty][admin]	<p>System statuses, static text accuracy</p> <p>As a student, faculty and admin, I want accurate, dependable information so I can trust what I see.</p> <ul style="list-style-type: none"> -Footer shows correct contact info and social links -Copyright year auto-updates to current year
phrase 5 36	Scalability [admin]	<p>Architecture readiness, multi-institution adaptability</p> <p>As a admin, I want the system to grow with usage and be adaptable to other universities.</p> <ul style="list-style-type: none"> -Features/modules can be implemented with ease
phrase 6 37	Maintainability [admin]	<p>Code structure, documentation, testability</p> <p>As a admin, I want the codebase to be easy to modify so we can iterate every sprint.</p> <ul style="list-style-type: none"> -Feature folders with clear ownership and interfaces -Automated checks (lin/test) run on each change -Screens and flows documented with acceptance criteria and test cases -Backlog items traceable to deployed increments

3. PROJECT ESTIMATION AND SCHEDULING

3.1 Effort and Cost Estimation

Modules in MVP: Lost & Found, Notes Sharing, Authorized Materials, Faculty TSF, Q&A; small web app with CRUD, search/filter, upload (images/PDFs), authentication, and role-based access.

Using Lines of Code (LOC) estimation:

Assumptions:

- Estimated size SLOC = 15,000
- Team productivity = 500 LOC / PM
- 1 PM = 160 hours
- Cost rate = BDT 45,000 / PM

Calculations:

$$1. \text{ Effort (PM)} = \text{SLOC} / \text{productivity}$$

$$= 15,000 \div 500 = 30.0 \text{ PM}$$

$$2. \text{ Effort (hours)} = \text{Effort (PM)} \times 160 \text{ hours/PM}$$

$$= 30.0 \times 160 = 4,800 \text{ hours}$$

$$3. \text{ Cost} = \text{Effort (PM)} \times \text{Cost rate}$$

$$= 30.0 \times 45,000 = 1,350,000 \text{ BDT}$$

Using COCOMO Model:

Assumptions:

- Project type: Organic (small team, familiar technology)
- Use basic COCOMO coefficients for Organic:
 - $a=2.4$
 - $p=1.05$
 - $T=0.38$
- SLOC = 15,000
- Cost rate = BDT 45,000 / PM

Calculations:

$$\text{Effort} = \text{PM} = a \times (\text{SLOC}/1000)^P$$

$$= 2.4 \times \left(\frac{15000}{1000}\right)^{1.05} = 41.224 \text{ person-months}$$

$$\text{Development time} = \text{DM} = 2.50 * (\text{PM})^T$$

$$= 2.50 \times (41.224)^{0.38} = 10.27 \text{ months}$$

$$\text{Required number of people} = \text{ST} = \text{PM}/\text{DM} = \frac{41.224}{10.27} = 4.014 \approx 4 \text{ person}$$

3.2 Project Scheduling

Effort Allocation:

- **Analysis & Design** = $41.224 * 0.4 = 16.4896$ person-months
- **Coding/Implementation** = $41.224 * 0.2 = 8.2248$ person-months
- **Testing & Release** = $41.224 * 0.4 = 16.4896$ person-months

Earned Value Analysis (EVA):

Total Tasks = 55, BAC = $41.224 * 30 = 1240$ person-days

Task	Planned Effort	Actual Effort
1	15	16
2	21	20
3	14	15
4	16	15.5
5	24	21
6	13	15
7	9	10
8	16	15.5
9	12	12
10	18	17
11	25	23
12	27	25
13	10	-
14	20	-
15	15	-

BCWP = 210, BCWS = 255, ACWP = 205

$$SPI = BCWP / BCWS = 210 / 255 = 0.8235$$

$$SV = BCWP - BCWS = 210 - 255 = -45 \text{ person-day}$$

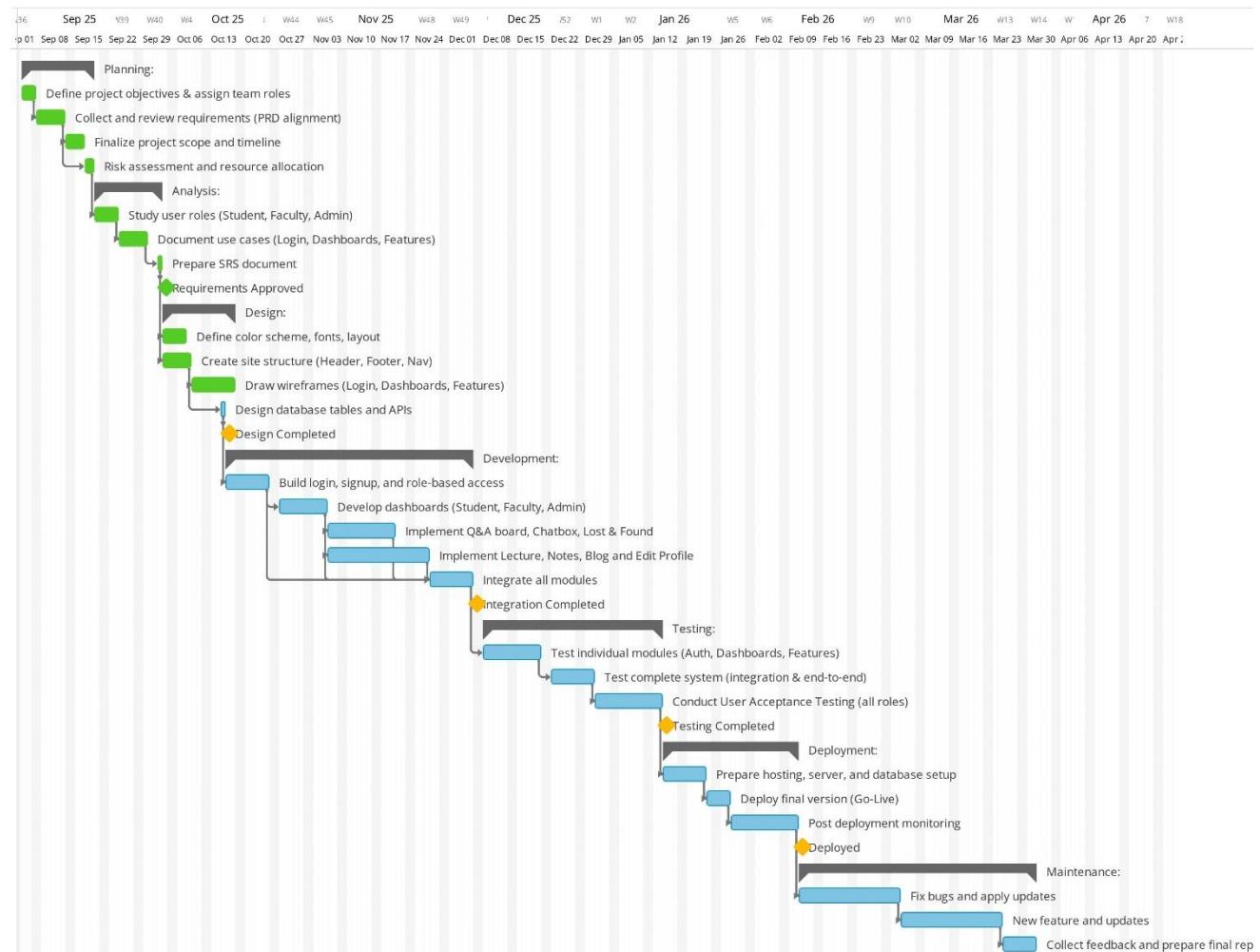
$$CPI = BCWP / ACWP = 210 / 205 = 1.035$$

$$CV = BCWP - ACWP = 210 - 205 = 5 \text{ person-day}$$

$$\text{schedule for completion} = BCWS / BAC = 255 / 1240 = 20.56\%$$

$$\text{complete} = BCWP / BAC = 210 / 1240 = 16.93\%$$

Gantt Chart:



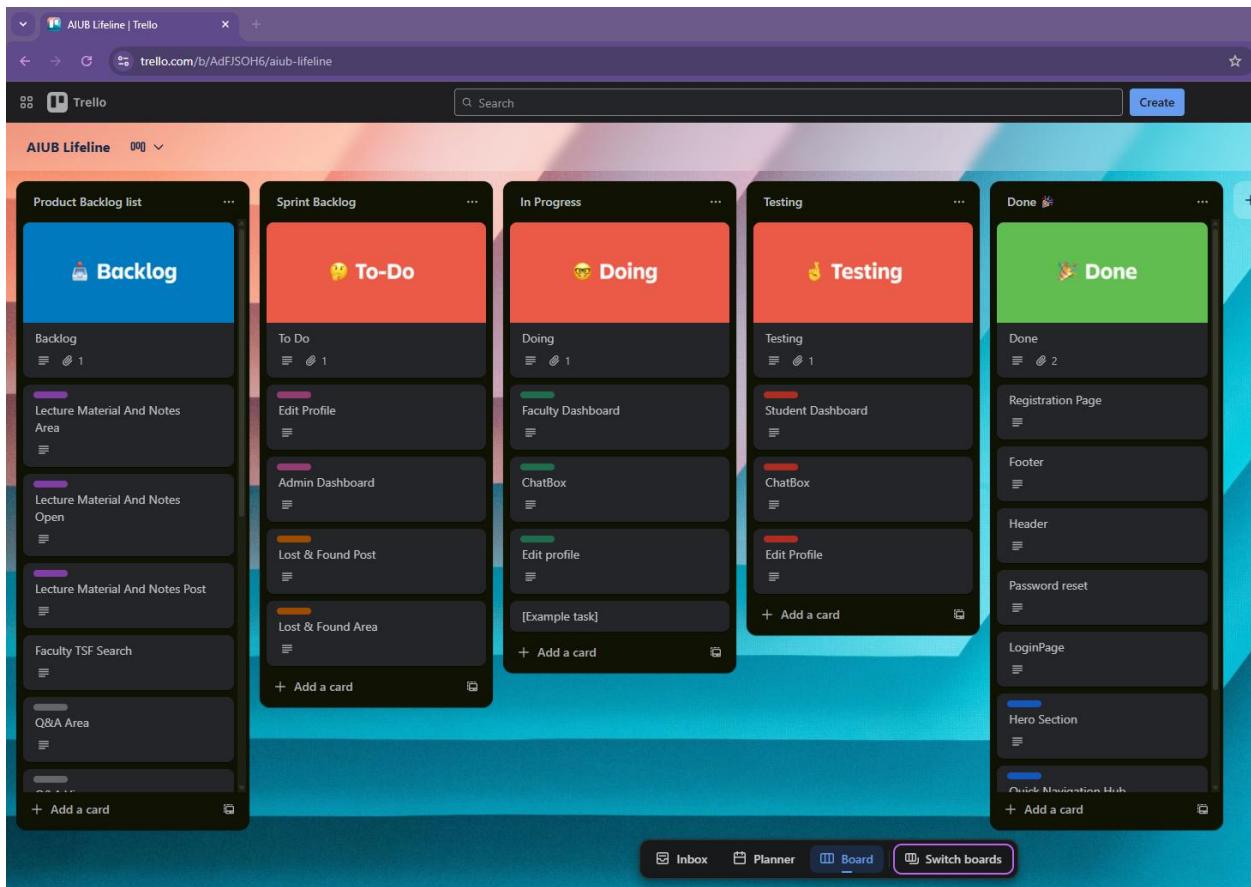
Work Breakdown Structure:

AIUB Lifeline

Read-only view, generated on 04 Sep 2025

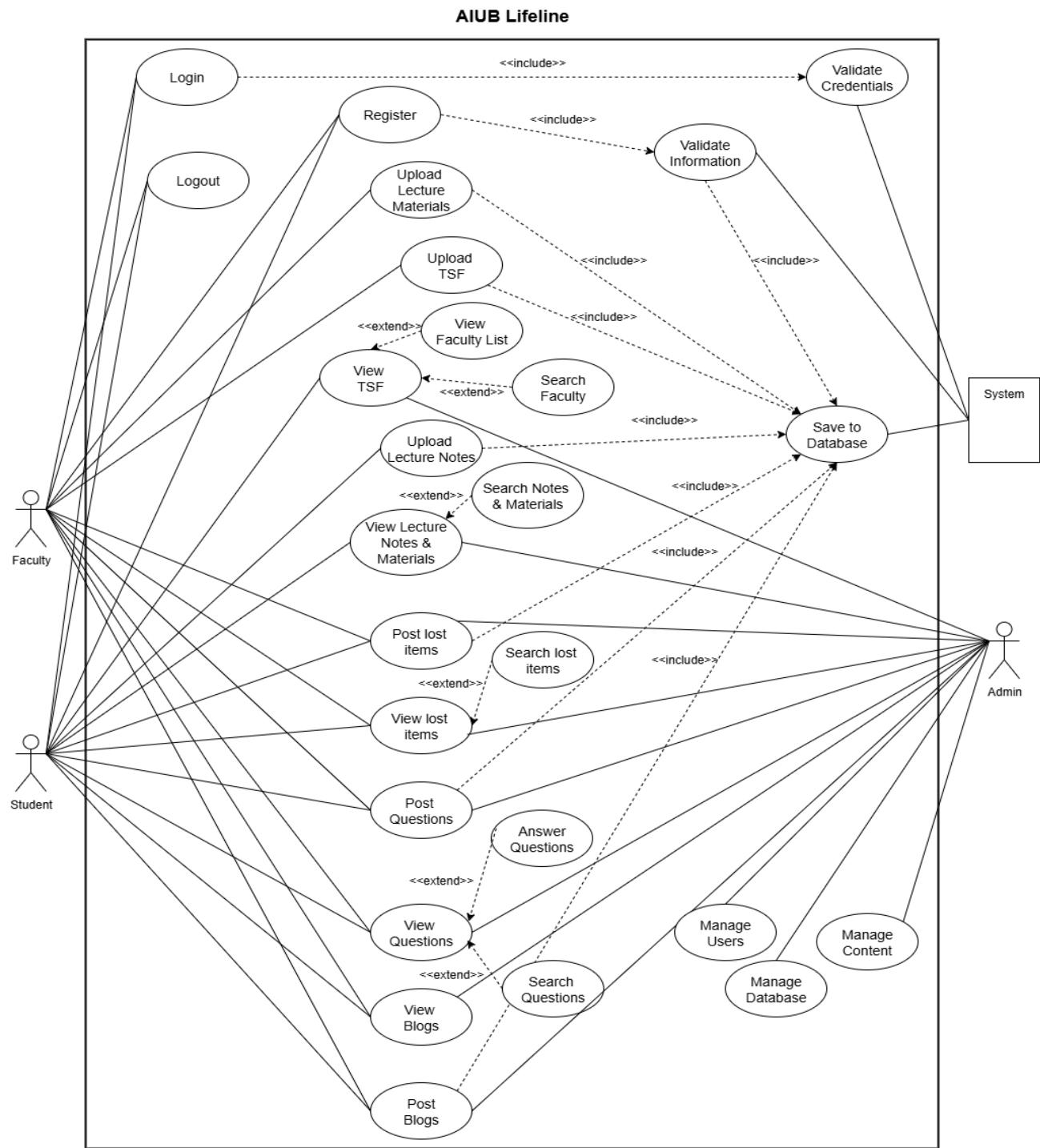
	ACTIVITIES	ASSIGNEE	START	WD	DUe	DPD	STATUS	%
	Planning:		04/Sep	11d	18/Sep			100%
1	Define project objectives & assign team roles	Syed Iftear Hasan	04/Sep	2d	06/Sep		Approved	100%
2	Collect and review requirements (PRD alignment)	Syed Iftear Hasan	07/Sep	5d	12/Sep	1	Approved	100%
3	Finalize project scope and timeline	Sheikh Najmul ...	13/Sep	2d	16/Sep	2	Approved	100%
4	Risk assessment and resource allocation	Mashrafi Ahsan	17/Sep	2d	18/Sep	2	Approved	100%
	Analysis:		19/Sep	10d	02/Oct			100%
6	Study user roles (Student, Faculty, Admin)	Mashrafi Ahsan	19/Sep	3d	23/Sep	4	Approved	100%
7	Document use cases (Login, Dashboards, Features)	Mashrafi Ahsan	24/Sep	4d	29/Sep	6	Approved	100%
8	Prepare SRS document	Syed Iftear Hasan	02/Oct	1d	02/Oct	7	Approved	100%
9	Requirements Approved	Unassigned	02/Oct	1d	02/Oct	8	Finished	100%
	Design:		03/Oct	11d	17/Oct			88%
11	Define color scheme, fonts, layout	Sheikh Najmul ...	03/Oct	3d	07/Oct	8	Approval requested	100%
12	Create site structure (Header, Footer, Nav)	Sheikh Najmul ...	03/Oct	4d	08/Oct	8	Approval requested	100%
13	Draw wireframes (Login, Dashboards, Features)	Sheikh Najmul ...	09/Oct	7d	17/Oct	12	Approval requested	100%
14	Design database tables and APIs	SN, SI	15/Oct	1d	15/Oct	12	Started	10%
15	Design Completed	Unassigned	15/Oct	1d	15/Oct	14	Not started	0%
	Development:		16/Oct	37d	05/Dec			0%
17	Build login, signup, and role-based access	Syed Iftear Hasan	16/Oct	7d	24/Oct	14	Not started	0%
18	Develop dashboards (Student, Faculty, Admin)	Syed Iftear Hasan	27/Oct	8d	05/Nov	17	Not started	0%
19	Implement Q&A board, Chatbox, Lost & Found	Syed Iftear Hasan	06/Nov	10d	19/Nov	18	Not started	0%
20	Implement Lecture, Notes, Blog and Edit Profile	Syed Iftear Hasan	06/Nov	15d	26/Nov	18	Not started	0%
21	Integrate all modules	Syed Iftear Hasan	27/Nov	7d	05/Dec	20, 19, 18, 17	Not started	0%
22	Integration Completed	Unassigned	05/Dec	1d	05/Dec		Not started	0%
	Testing:		08/Dec	27d	13/Jan			0%
24	Test individual modules (Auth, Dashboards, Featu...	Sheikh Najmul ...	08/Dec	10d	19/Dec	21	Not started	0%
25	Test complete system (integration & end-to-end)	Syed Iftear Hasan	22/Dec	7d	30/Dec	24	Not started	0%
26	Conduct User Acceptance Testing (all roles)	Mashrafi Ahsan	31/Dec	10d	13/Jan	25	Not started	0%
27	Testing Completed	Unassigned	13/Jan	1d	13/Jan		Not started	0%
	Deployment:		14/Jan	20d	10/Feb			0%
29	Prepare hosting, server, and database setup	Sheikh Najmul ...	14/Jan	7d	22/Jan	26	Not started	0%
30	Deploy final version (Go-Live)	Syed Iftear Hasan	23/Jan	3d	27/Jan	29	Not started	0%
31	Post deployment monitoring	Mashrafi Ahsan	28/Jan	10d	10/Feb	30	Not started	0%
32	Deployed	Unassigned	10/Feb	1d	10/Feb		Not started	0%
	Maintenance:		11/Feb	35d	31/Mar			0%
34	Fix bugs and apply updates	Sheikh Najmul ...	11/Feb	15d	03/Mar	31	Not started	0%
35	New feature and updates	Syed Iftear Hasan	04/Mar	15d	24/Mar	34	Not started	0%
36	Collect feedback and prepare final report	Mashrafi Ahsan	25/Mar	5d	31/Mar	35	Not started	0%

Trello:



4. SOFTWARE DESIGN

4.1 System Design:



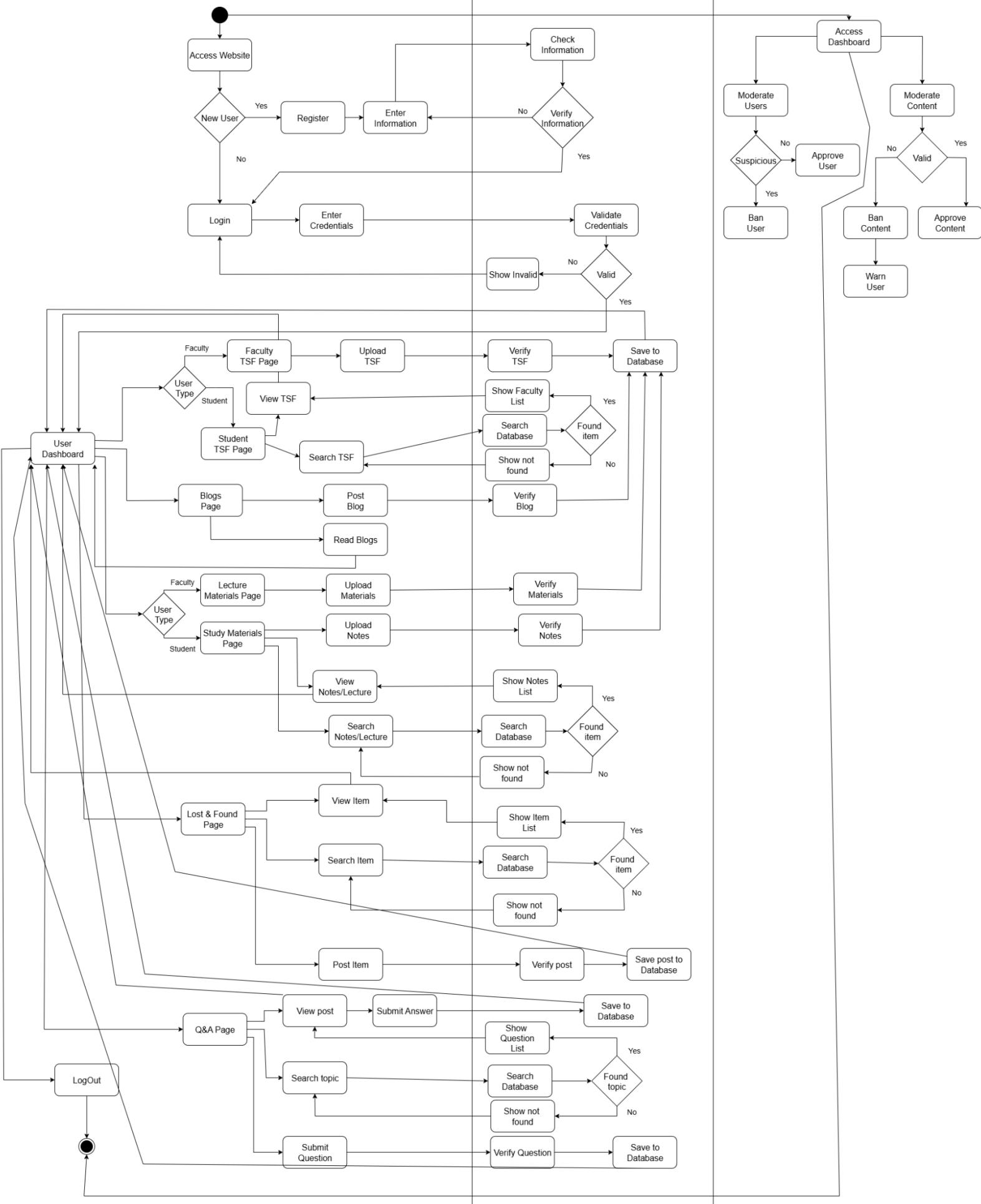
Use Case Diagram

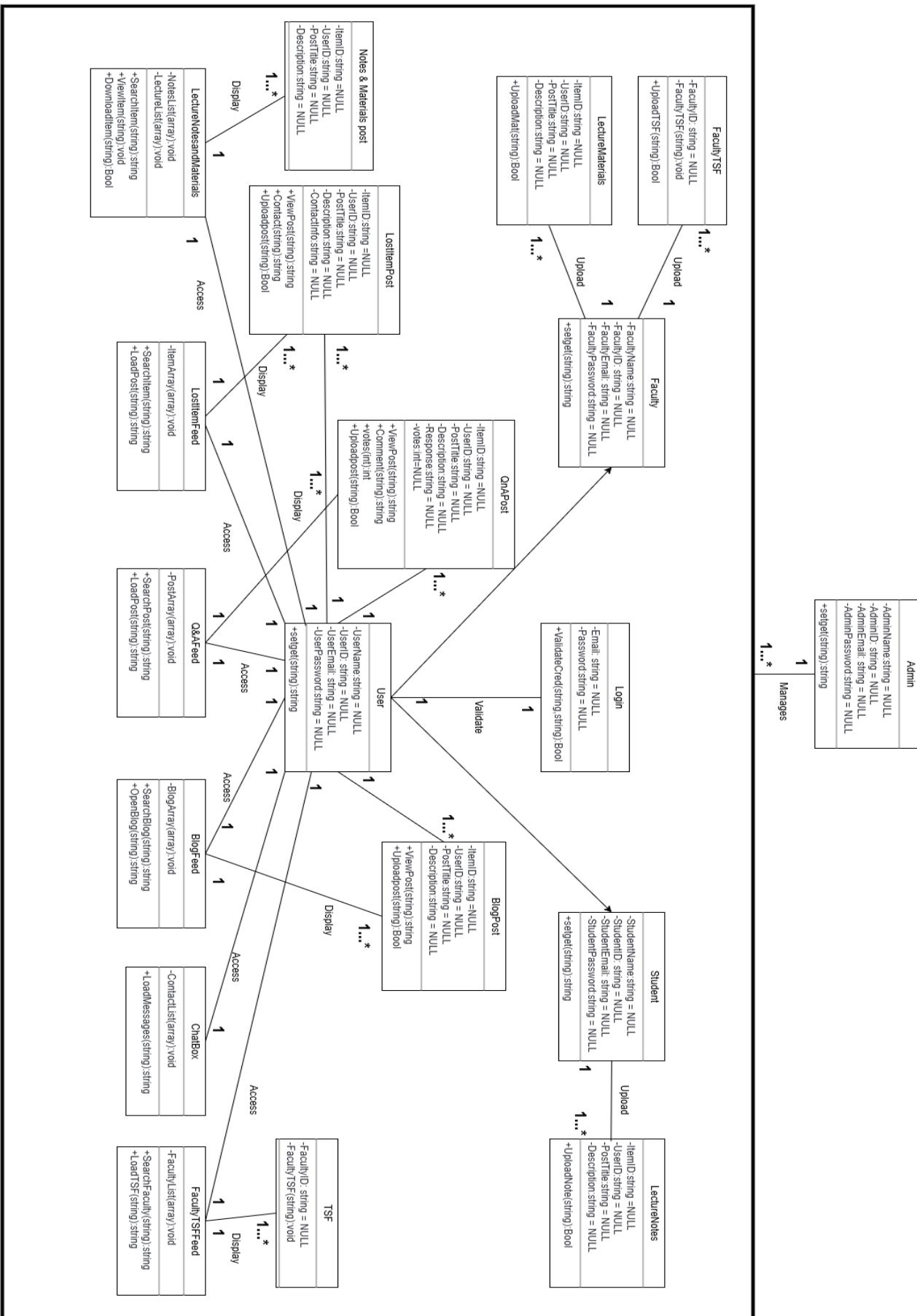
AIUB Lifeline Activity Diagram

User [Student] [Faculty]

System

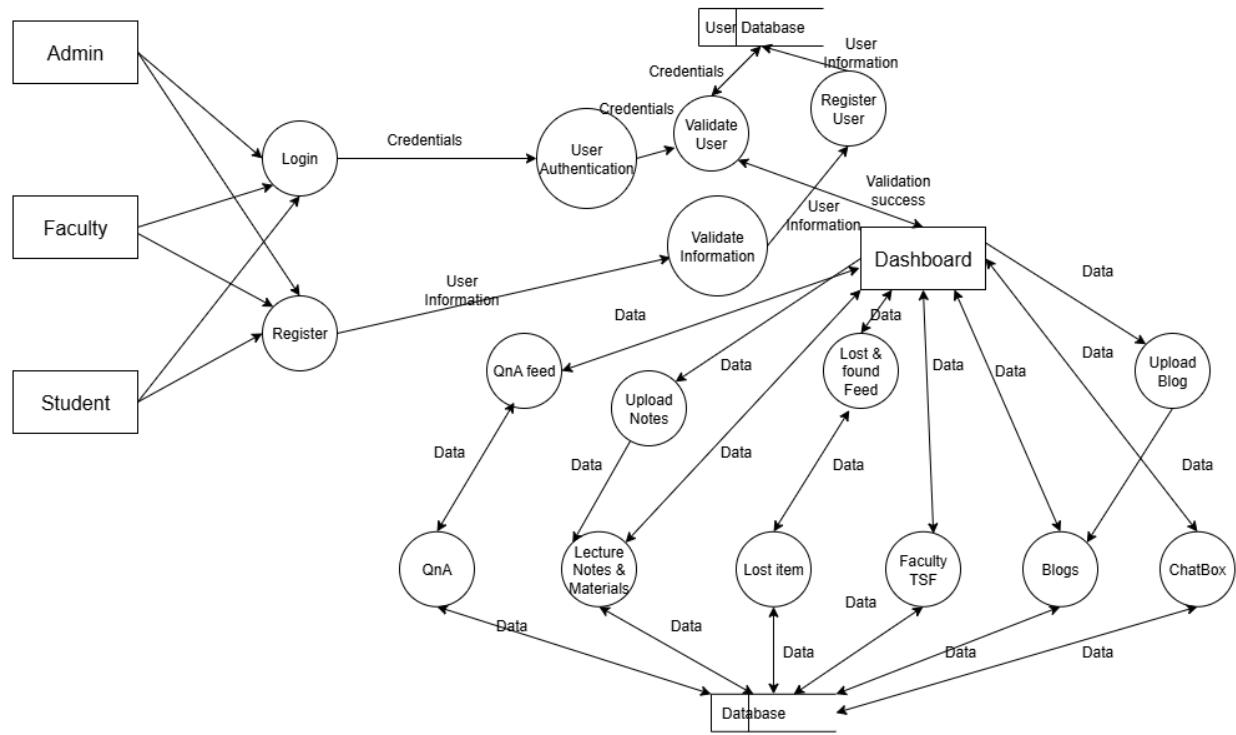
Admin





Class Diagram

AIUB Lifeline-DFD



4.1 UI Design using Figma

UI Design

AIUB Lifeline- Homepage

Kuratoli, Khilkhet,Dhaka 1229 | (888) 533-3274 | support@aiublifeline.com | [Facebook](#) [Twitter](#) [LinkedIn](#) [YouTube](#) [RSS](#)

 [Home](#) [About](#) [Blogs](#) [Contact Us](#) [Login](#) [Sign Up](#)

AIUB LIFELINE IS A STUDENT SUPPORT PLATFORM

that helps students save time and reduce stress by providing one organized space for lecture materials, lost and found section, faculty TFS in one place.

[Learn More](#)



I'm a Student
Find the guidance you need.



I'm a Teacher
Connect with your students



PROMOTING HEALTHY AND SUSTAINABLE HOUSING

through education, sustainable housing certification, and public policy.

Why? We want only the best for our planet, our families, our organizations and our communities. We want the best for you, for everyone and every building.

How? We offer consulting, preliminary review, education, and third party certifications.

We put education first by providing in person and web based classes to building professionals nationwide. And connect those professionals with homeowners. We are the resource for all things GreenHomes.

[About Us](#)

[Check Latest Updates](#)

SUBSCRIBE TO OUR NEWSLETTER

Get latest updates directly into your email

[Subscribe](#)

HOW CAN WE HELP YOU?

 Sign in to your Account

 Search for lecture materials

 Lost & Found Area

 Handwritten Notes

 Create an account

 Find faculty TFS

 Q&A Platform

 Learn more about us

 Find faculty information

BECOME A GREEN HOME SPONSOR

AprilAire

AprilAire

Check out Aprilaire today to keep your home and your client's home healthier.

[View Website](#)

AWAIR

Aware

Check out Awair today to keep your home and your client's home healthier.

[View Website](#)

AVAWindow

AVA Window

Check out AVA today to keep your home and your client's home healthier.

[View Website](#)

CER

Buldequinox

Check out Buldequinox today to keep your home and your client's home healthier.

[View Website](#)

ENERTECH

ENER TECH

Check out Ener Tech today to keep your home and your client's home healthier.

[View Website](#)

Indow

Indow

Check out Indow today to keep your home and your client's home healthier.

[View Website](#)[Become A Sponsor](#)

TOP-NOTCH EDUCATION GET TRAINED AND LEARN SOMETHING NEW

With nearly 100,000 professionals and homeowners trained since we started in 2000, we know how to provide top-notch, relevant, and just-in-time live, online, and on-demand education. Get trained, learn something new, and pick up some continuing education while you're at it.

Continuing Education
Webinars on Demand



Sign Up for our Live Webinar
Classes



Become a LEED for Homes
Green Rater



Become a Home Energy
Score Assessor



Become a Certified
GreenHome Professional



How to become a LEED
Accredited Professional in
Homes



Our Research



Understanding LEED for Homes
and Accredited Professional
Training



OUR PROGRAMS ARE READY TO ASSIST YOU

With the vast experience we've
accumulated, we prefer to work
with programs

that have performance-based verification, as these programs emphasize tangible results.

Whether you choose LEED certification or another third-party verification program, GreenHome Institute and our partners have the expertise to help you determine which programs best meet your goals, and we will help you implement them.

[View All Our Programs](#)



LATEST UPDATES FROM OUR BLOG!



30 Dec
2024

Thank you for joining our session at REBAR GR 22

0 Comments / By Syed Iftear Hasan

Below are some resources for you based on our discussion during the seminar. We are first going to play a game – Which one of these items are more sustainable and why in the photos below? Raffle tickets for the winner(s) of each!

[Read More](#)



30 Dec
2024

Top 5 on-demand green home videos 22

0 Comments / By Sheikh Hossain

What were the top 5 residential green building videos for 2022?

This year we saw significant interest in our growing GHI residential green building education channel on youtube.

[Read More](#)



01 Jan
2025

AprilAire Dehumidifier helps GHI Education Manager stay dry and healthy

0 Comments / By Mashrafi Ahsan

The system is very energy efficient and has worked well getting out the humid air in my house. Humidity can be an issue in the swing seasons and even in winter when it does not appear humid.

[Read More](#)

[Learn More On Our Blog!](#)

SUBSCRIBE TO OUR NEWSLETTER

Get latest updates directly into your email

Enter your Email

Subscribe



AIUB Lifeline is a unified platform where AIUB students and faculty can share resources, find support, and stay organized with academic tools.

Features

- [Login](#)
- [Sign up](#)
- [Lost & Found](#)
- [Faculty TFS](#)
- [Handwritten Notes](#)
- [Q&A Platform](#)

Support

- [Blog](#)
- [About](#)
- [Contact Us](#)
- [Terms & Conditions](#)
- [Privacy Policy](#)

Contact

- 408/1 (Old KA 66/1), Kuratoli, Khilkhet,Dhaka 1229, Bangladesh
- Tel: (616) 458-6733
- Toll Free: (888) 533-3274
- support@aiublifeline.com

Copyright © 2025 AIUB Lifeline. All rights reserved.



AIUB Lifeline- Login Page



Sign In

[Sign In using Google](#)

or sign in with your email

Email Address

Password [Forgot Password?](#)

[Sign In](#)

New to AIUB Lifeline? [Sign Up](#)

Copyright © 2025 AIUB Lifeline. [Terms & Conditions](#) [Privacy Policy](#)

AIUB Lifeline- Registration Page



Sign Up

[Sign Up using Google](#)

or sign up with your email

First Name Last Name

Account Type Student/Faculty/Admin

Email Address

Password [Forgot Password?](#)

By Signing Up I agree with [Terms & Conditions](#)

[Sign Up](#)

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

Copyright © 2025 AIUB Lifeline. [Terms & Conditions](#) [Privacy Policy](#)

AIUB Lifeline- Password Reset



Password Reset

[Sign In using Google](#)

Forgotten your password?
Enter your email and we will send you a password reset link

Email

Email Address

[Submit](#)

New to AIUB Lifeline? [Sign Up](#)

Copyright © 2025 AIUB Lifeline.

[Terms & Conditions](#) [Privacy Policy](#)

AIUB Lifeline- Student Dashboard

 **Dashboard**

Dashboard Faculty TSF Notes & Materials Todo List Policy Lost & Found Q&A Area

HI! SHEIKH
Welcome to AIUB Lifeline
It helps save time and reduce stress by providing one organized space for lecture materials, lost and found section, faculty TFS

Learn More

Lost & Found

 **Charger Brick**
DS0504 24 Aug, 2025 09:32

 **AirPods Pro 2**
DS0501 23 Aug, 2025 11:32

Questions Answered

 **Michael Wong** 09:32
Don't forget to work on assignment page 36 in..
[Exam-Science.xls](#)

 **Cindy Chen** 11:32
Have you made history assignments?
[Algebra.pdf](#)

Friends Online

 **Iftear Hasan**
Health is not good. 05 Minutes Ago

 **Mashrafi Ahsan**
Health is not good. 23 Minutes Ago

 **Elon Musk**
I am a big fan, Sheikh. 10 Minutes Ago

 **Mark Zuckerberg**
How can I fix this? 10 Minutes Ago

New Chat

Class Schedule

Physics 2 DS0504 Sunday 24 Aug 2025 08:30 AM ...

Math 6 DS0501 Monday 25 Aug 2025 08:30 AM ...

DLC Lab DS0502 Thursday 26 Aug 2025 08:30 AM ...



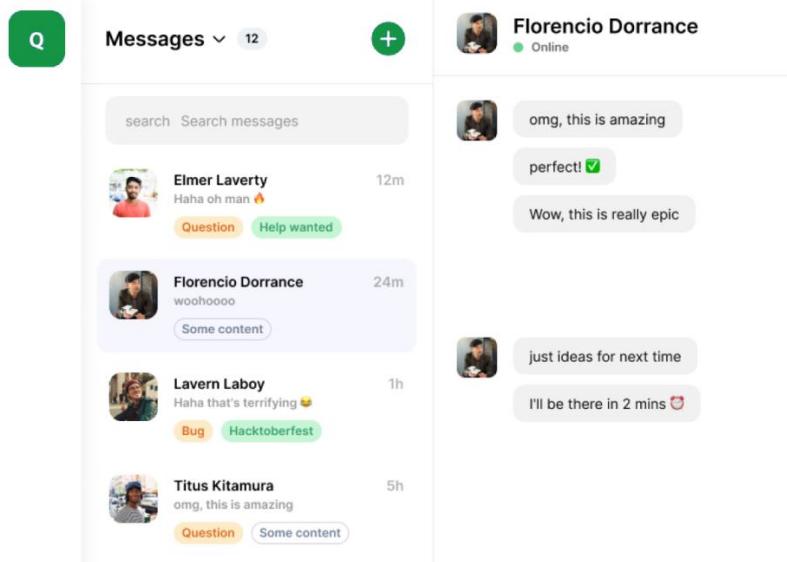
Upcoming Task

 **Algo Assignment**
Deadline: 26th Aug, 2025

 **Math6 HW**
Deadline: 27th Aug, 2025

 **Homework For SE**
Deadline: 28th Aug, 2025

Chatbox



AIUB Lifeline- Student Edit Profile

Edit your profile

Tue, 26 Aug 2025



Sheikh Hossain
23-51376-1@student.aiub.edu

First Name	Last Name
Your First Name	Your Last Name
Student ID/ Faculty ID	Profession
Your Student ID/ Faculty ID	Are you a student or a teacher
Phone Number	New Password
+880 01*****	Enter your new password here
My Email Address	
23-51376-1@student.aiub.edu	Upload TSF (Only For Faculty Accounts)
1 month ago	<input type="button" value="Upload TSF"/>
+Add Email Address	
<input type="button" value="Save"/>	<input type="button" value="Cancel"/>

AIUB Lifeline- Faculty Dashboard

 **AIUB
LIFELINE**

Faculty Dashboard

[Dashboard](#) [Update My TSF](#) [Upload Materials](#) [Todo List](#) [Policy](#) [Lost & Found](#) [Q&A Area](#)

HI! MEHEDI HASAN
Welcome to AIUB Lifeline.
It helps save time and reduce stress by providing one organized space for lecture materials, lost and found section, faculty TFS.

[Learn More](#)



Total Materials Posted **832** Questions Answered **1293**

Friends Online

No conversation

No Lost & Found Posts No Questions Asked

[New Chat](#)

Class Schedule

SE[A]	DS0504	Sunday	24 Aug 2025	08:30 AM	...
SE[B]	DS0501	Monday	25 Aug 2025	08:30 AM	...
SE[C]	DS0502	Thursday	26 Aug 2025	08:30 AM	...

[Edit Your Profile](#)

Upcoming Task

Increase SE[F] Marks	Deadline: 26th Aug, 2025
----------------------	--------------------------

AIUB Lifeline- Faculty Edit Profile

Edit your profile

Tue, 26 Aug 2025





Sheikh Hossain
23-51376-1@student.aiub.edu

First Name	Last Name
Your First Name	Your Last Name
Student ID/ Faculty ID	Profession
Your Student ID/ Faculty ID	Are you a student or a teacher
Phone Number	New Password
+880 01*****	Enter your new password here
My email Address	
23-51376-1@student.aiub.edu 1 month ago	
+Add Email Address	
Save Cancel	

AIUB Lifeline- Admin Dashboard

The screenshot displays the AIUB Lifeline Admin Dashboard. At the top right, there is a user profile for "Linux T" with a green checkmark. On the left, a sidebar menu includes "Dashboard", "Search User", "Notes & Materials", "Lost & Found", "Q&A Area", and "Edit Your Profile". The main content area features a "HI! LINUX" section with a welcome message and a "Learn More" button. Below this are sections for "New Lost & Found Posts" and "New Questions". The "New Lost & Found Posts" section shows items like "Charger Brick" and "AirPods Pro 2". The "New Questions" section shows posts from users like Michael Wong and Cindy Chen. To the right, a "Search For Users" sidebar lists various users with their names, roles (Student or Faculty), and the time of their last activity.

User	Role	Last Activity
Iftear Hasan	Student	05 Minutes Ago
Mashrafi Ahsan	Student	23 Minutes Ago
Elon Musk	Faculty	10 Minutes Ago
Mark Zuckerberg	Faculty	10 Minutes Ago
Bill Gates	Faculty	05 Minutes Ago
Charles Babbage	Faculty	23 Minutes Ago
Steve Jobs	Faculty	10 Minutes Ago
Albert Einstein	Faculty	10 Minutes Ago
Nikola Tesla	Faculty	05 Minutes Ago
Isaac Newton	Faculty	23 Minutes Ago
Stephen Hawking	Faculty	10 Minutes Ago
Marie Curie	Faculty	10 Minutes Ago

AIUB Lifeline- Admin Edit Profile

Edit your profile

Tue, 26 Aug 2025



Sheikh Hossain

23-51376-1@student.aiub.edu

First Name

Your First Name

Last Name

Your Last Name

Student ID/ Faculty ID

Your Student ID/ Faculty ID

Profession

Are you a student or a teacher



Phone Number

+880 01*****

New Password

Enter your new password here

My email Address

Upload TSF (Only For Faculty Accounts)

23-51376-1@student.aiub.edu
1 month ago

AIUB Lifeline- Lost & Found Area

AIUB LIFELINE

Lost & Found Area

Post an Item 

Search

New Top Hot Closed

Sheikh Hossain 5 min ago

Airpods 2



Found an AirPods2 at DS0501. DM me with proof to retrieve it.

DS0501 125 15 155

Syed Iftear Hasan 2 days ago

Charger Brick 20w



Found this Charger Brick at DS0502. Inbox me if you are the owner.

DS0502 125 15 155

Lost & Found

Dashboard Conversation Faculty TSF Notes & Materials Q&A Area

Must-read posts

- Please read rules before you start working on a platform
- Vision & Strategy of Alemlab

Featured links

- Alemlab source-code on GitHub
- Golang best-practices
- Alem School dashboard

AIUB Lifeline- Post about a lost item

The screenshot shows the AIUB Lifeline platform interface. At the top left is the AIUB Lifeline logo. To the right is a navigation bar with a search icon, a menu icon labeled "MENU", and a "Post About A Lost Item" button. On the far right are "Ask a question", a user profile icon, and a notification icon.

The main content area is titled "Post About A Lost Item". It contains fields for "Location", "Item Name", and "Description". Below these fields are buttons for "Add Image", "Save as draft", and "Publish".

On the right side, there are two sidebar boxes: "Must-read Questions" and "Featured Questions", each listing several links.

- Must-read Questions:**
 - Please read rules before you start working on a platform
 - Vision & Strategy of Alemlhelp
- Featured Questions:**
 - Alemlhelp source-code on GitHub
 - Golang best-practices
 - Alem.School dashboard

AIUB Lifeline- Lecture Material & Notes Area

The screenshot shows the 'Notes & Materials Area' of the AIUB Lifeline platform. At the top, there's a navigation bar with a search icon, a 'Post Notes/Materials' button, and a user profile icon. Below the navigation is a sidebar with a 'Search' bar and a 'MENU' section containing links for Dashboard, Conversation, Lost & Found, Faculty TSF, and Q&A. The main content area displays four note cards:

- Sheikh Hossain** (Notes) - **Math6 Hand Written Notes Till Mid**: A note by Sheikh Hossain about handwritten notes for Math 6 till mid. It includes a 'Math6' tag and statistics: 125 views, 15 likes, and 155 shares.
- Mashrafi Ahsan** (Notes) - **Software Engineering Notes**: A note by Mashrafi Ahsan about software engineering handwritten notes. It includes a 'SE' tag and statistics: 125 views, 15 likes, and 155 shares.
- Elon Musk** (Materials) - **Web Tech Lecture Materials Till Mid Spring 24-25**: A note by Elon Musk about lecture materials for Web Tech of mid, spring 24-25. It includes a 'webtech' tag and statistics: 125 views, 15 likes, and 155 shares.
- Mark Zuckerberg** (Materials) - This note card is partially visible at the bottom.

On the right side, there are two boxes: 'Must-read Notes/Materials' (with links to reading rules and vision strategy) and 'Featured Notes/Materials' (with links to Alembhelp source code, Golang best practices, and Alem.School dashboard).

AIUB Lifeline- Post a Note/Material

The screenshot shows the 'Post A Note/Material' form on the AIUB Lifeline platform. At the top, there's a navigation bar with a search icon, a 'Post Notes/Materials' button, and a user profile icon. Below the navigation is a sidebar with a 'Search' bar and a 'MENU' section containing links for Dashboard, Conversation, Lost & Found, Faculty TSF, and Q&A. The main content area has fields for 'Course Name', 'Title', and 'Description'. At the bottom, there are buttons for 'Add Image', 'Save as draft', and 'Publish'.

AIUB Lifeline- Open Notes/Material



Open Notes/Materials

Post Notes/Materials



Search

MENU

Notes & Materials

PERSONAL NAVIGATOR

Dashboard

Conversation

Lost & Found

Faculty TSF

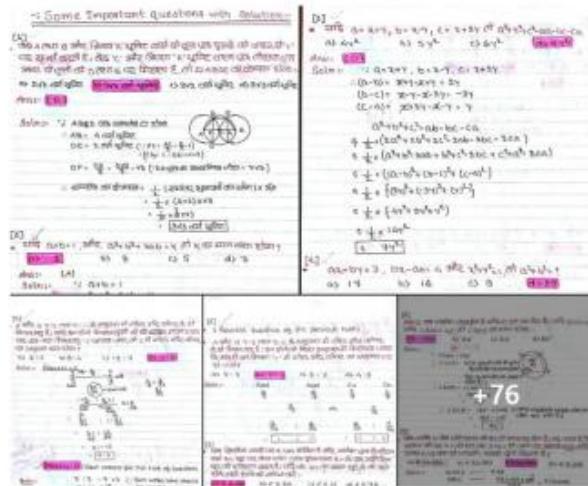
Q&A

Notes & Materials

Sheikh Hossain

12 November 2020 19:35

Math6 Hand Written Notes Till Mid



Here are the handwritten notes for Math 6 till mid.



23-51376-l@student.aiub.edu

125 [8]



+76

Start

Vote

Suggestions

Type your note suggestion

Cancel

Suggest

@Syed Hitear Hasan, Lorem ipsum dolor sit amet, consectetur adipiscing elit. Omnis rutrum amet, a nunc mi lacini in ipsius. Pharetra ut integer nibh urna.

by @Masrafi Ahsan

↳ Reply

@Syed Hitear Hasan, Thanks!

by @unkind

↳ Reply

Masrafi Ahsan

12 November 2020 19:35

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Omnis rutrum amet, a nunc mi lacini in ipsius. Pharetra ut integer nibh urna. Placerat ut adipiscing nulla lectus vulputate massa, scelerisque. Netus nisi nulla placerat dignissim ipsum arcu.

179 43

Show All Replies (21) ↳ Reply

Elon Musk

12 November 2020 19:35

Mi acc id faucibus isaret. Nulla quis in interdum imperdiet. Locus mollis massa netus.

1 0

↳ Reply

AIUB Lifeline- Faculty TFS Search

The screenshot shows the AIUB Lifeline- Faculty TFS Search interface. At the top, there is a logo for "AIUB LIFELINE" and a search bar labeled "Search for Faculty TSF". Below the search bar is a green "MENU" bar containing the following items: "Faculty TSF" (which is highlighted), "PERSONAL NAVIGATOR", "Dashboard", "Conversation", "Lost & Found", "Notes & Materials", and "Q&A".

The main content area displays two faculty profiles:

- Elon Musk** (Profile picture, 2 days ago, elon.cs@aiub.edu)
Availability Grid:

8am	8:00 - 9:30 SE [L] TBA	8:00 - 11:00 SE [L] TBA	8:00 - 9:30 SE [L] TBA
9am			
10am			
11am	11:20 - 12:50 SE [B] TBA	11:00 - 2:00 SE [B] TBA	11:20 - 12:50 SE [B] TBA
12pm			
- Mark Zuckerberg** (Profile picture, 2 days ago, mark.cs@aiub.edu)
Availability Grid:

Sun	Mon	Tue	Wed
8am	8:00 - 9:30 SE [L] TBA	8:00 - 11:00 SE [L] TBA	8:00 - 9:30 SE [L] TBA
9am			
10am			

At the bottom of the interface, there are three small icons: a cat, a person, and a document.

AIUB Lifeline- Q&A Area

The screenshot shows the AIUB Lifeline Q&A Area interface. At the top left is the AIUB Lifeline logo. The top right features a "Ask a question" button, a user profile icon, and a notification badge showing '0'. The main header "Q&A Area" is centered above a search bar and a menu bar.

Left Sidebar (PERSONAL NAVIGATOR):

- Search
- MENU
 - Questions (highlighted in green)
 - Dashboard
 - Conversation
 - Lost & Found
 - Faculty TSF
 - Notes & Materials
 - Your questions

Top Right Buttons:

- New
- Top
- Hot
- Closed

Question Cards (Listed from Top to Bottom):

- Sheikh Hossain** (5 min ago)
What is the best Hosting Company?
I wanted to host my websites, I heard SiteChai is a good choice. What do you all think?
Tags: golang, linux, overflow
Views: 125, Likes: 15, Comments: 155
- Mashrafi Ahsan** (25 min ago)
What is currently the best aircraft?
Which aircraft can be considered the best overall, taking into account different categories such....
Tags: offtopic, Aircraft, Engineering
Views: 125, Likes: 15, Comments: 155
- Syed Iftear Hasan** (2 days ago)
Which bicycle can be considered the best overall?
I was planning on buying a new bicycle and wanted to know which one is overall the best in the....
Tags: svelte, javascript, recommendations
Views: 125, Likes: 15, Comments: 155
- Elon Musk** (2 days ago)

Right Sidebar:

- Must-read Questions**
 - Please read rules before you start working on a platform
 - Vision & Strategy of Alemlab
- Featured Questions**
 - Alemlab source-code on GitHub
 - Golang best-practices
 - Alem.School dashboard

AIUB Lifeline- Post a Question

The screenshot shows the 'Post A Question' page of the AIUB Lifeline website. At the top left is the AIUB Lifeline logo. To the right is a navigation bar with 'Ask a question' and a user profile icon. On the far right, there is a green button with a person icon and a '0'.

The main content area has a title 'Post A Question'. On the left, a sidebar titled 'MENU' includes 'Search', 'PERSONAL NAVIGATOR' (with 'Dashboard' highlighted), 'Conversation', 'Lost & Found', 'Faculty TSF', and 'Notes & Materials'. Below these are three green buttons: 'Questions' (highlighted), 'Answers', and 'Comments'.

The central form area contains fields for 'Provide Tags (use comma for separation)', 'Type question title', and a large 'Type your question' text area. At the bottom of this area are three buttons: 'Add Image' (blue), 'Save as draft' (grey), and 'Publish' (green).

To the right, there are two sections: 'Must-read Questions' (with links to 'Please read rules before you start working on a platform' and 'Vision & Strategy of Alemlhelp') and 'Featured Questions' (with links to 'Alemlhelp source-code on GitHub', 'Golang best-practices', and 'Alem.School dashboard').

AIUB Lifeline- View Question

Open Question

Ask a question

Sheikh Hasain 12 November 2020 19:35

How to patch KDE on FreeBSD?

Mi magna sed nec nisi mattis. Magna cursus tincidunt rhoncus imperdiet fermentum pretium, pharetra nisi. Euismod.

```
1 package main
2
3 import "fmt"
4
5 func main() {
6     fmt.Println("Hello, world!")
7 }
```

Posuere arcu arcu consectetur turpis rhoncus tellus. Massa, consectetur massa sit fames nulla eu vehicula ullamcorper. Ante sit msuris elementum sollicitudin arcu sit suspendisse pretium. Nisi egestas fringilla justo bibendum.

Java javascript vif

+ Vote

125 [8]

Suggestions

Type here your wise suggestion

Syed Iftear Hasan 12 November 2020 19:35

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ornare rutrum amet, a nunc mi lacinia in iaculis. Pharetra ut integer nibh urna. Placerat ut adipiscing nulla lectus vulputate massa, scelerisque. Netus nisi nulla placerat dignissim ipsum arcu.

```
1 package main
2
3 Lorem ipsum dolor sit amet, consectetur adipiscing elit.
4
```

12 3 Hide All Replies (2) ↗ Reply

@Syed Iftear Hasan, Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ornare rutrum amet, a nunc mi lacinia in iaculis. Pharetra ut integer nibh urna.

by @Mashrafi Ahsan ↗ Reply

@Syed Iftear Hasan, Thanks!

by @unkind ↗ Reply

Mashrafi Ahsan 12 November 2020 19:35

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ornare rutrum amet, a nunc mi lacinia in iaculis. Pharetra ut integer nibh urna. Placerat ut adipiscing nulla lectus vulputate massa, scelerisque. Netus nisi nulla placerat dignissim ipsum arcu.

259 43 Show All Replies (21) ↗ Reply

Elon Musk 12 November 2020 19:35

Mi ac id faucibus laoreet. Nulla quis in interdum imperdiet. Locus mollis massa netus.

1 0 ↗ Reply

AIUB Lifeline- Blogs

Kuratoli, Khilkhet,Dhaka 1229

(888) 633-3274

support@aiublifeline.com

| [Facebook](#) [Twitter](#) [LinkedIn](#) [YouTube](#) [RSS](#)



Home About **Blogs** Contact Us

Login

Sign Up

LATEST UPDATES FROM OUR BLOG!



30 Dec
2023

Thank you for joining our session at REBAR GR 22

0 Comments / By [Green Home Institute](#)

Below are some resources for you based on our discussion during the seminar. We are first going to play a game – Which one of these items are more sustainable and why in the photos below? Raffle tickets for the winner(s) of each!

[Read More](#)



30 Dec
2023

Top 5 on-demand green home videos 22

0 Comments / By [Brett Little](#)

What were the top 5 residential green building videos for 2022?

This year we saw significant interest in our growing GHI residential green building education channel on youtube.

[Read More](#)



23 Nov
2023

Rob Derksen Joins GHI Board

22 – 24

0 Comments / By [Brett Little](#)

Rob Derksen has spent the past 32 years in the Geothermal heating and cooling industry and is currently the Business Development Manager for EnerTech Global LLC, a Geothermal and Air to Water Heat Pump Manufacturer.

[Read More](#)



31 Oct
2022

Welcome Eliza Searles, New Program Manager

0 Comments / By [Brett Little](#)

Eliza Searles is keenly interested in the relationship between well-being and the built environment. After learning about the USGBC's LEED program as an undergraduate in Aquinas College's Sustainable Business program,

[Read More](#)



26 Oct
2022

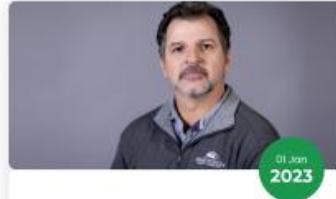
Inflation Reduction Act Resources

0 Comments / By [Brett Little](#)

What were the top 5 residential green building videos for 2022?

This year we saw significant interest in our growing GHI residential green building education channel on youtube.

[Read More](#)



01 Jan
2023

AprilAire Dehumidifier helps GHI Education Manager stay dry and healthy

0 Comments / By [Brett Little](#)

The system is very energy efficient and has worked well getting out the humid air in my house. Humidity can be an issue in the swing seasons and even in winter when it does not appear humid.

[Read More](#)

AIUB Lifeline- Blogs Detailed Page

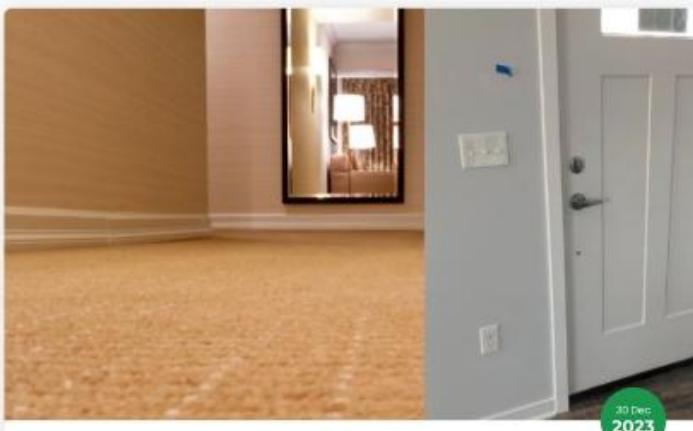
Kurotoll, Khilkhet,Dhaka 1229 | (88) 533-3274 | support@aiublifeline.com | [Facebook](#) [Twitter](#) [LinkedIn](#) [YouTube](#) [RSS](#)

AIUB LIFELINE

Home About **Blogs** Contact Us

Login Sign Up

THANK YOU FOR JOINING OUR SESSION
AT REBAR GR 22



Thank you for joining our session at REBAR GR 22

0 Comments / By [Green Home Institute](#)

Below are some resources for you based on our discussion during the seminar. We are first going to play a game - Which one of these items are more sustainable and why in the photos below? Raffle tickets for the winner(s) of each!



Search



Recent Posts

 31 October 2022 [Top 5 on-demand green home videos 22](#)

 31 October 2022 [Top 5 on-demand green home videos 22](#)

 31 October 2022 [Top 5 on-demand green home videos 22](#)

Categories

- GHI Education Manager
- On-Demand Green Home Videos
- GHI Youtube Channel Subscribe list
- GreenStar Homes Certification
- Net zero energy conference
- Financial resources for low income
- GreenStar Homes Certification
- Net zero energy conference
- Financial resources for low income

Archives

- December 2022
- August 2022
- June 2022
- May 2022
- March 2022
- February 2022
- January 2022



Register a LEED Project



Get the GreenStar Checklist



Additional resources we reference for you.

[Click to access 2022-realtors-and-sustainability-report-04-26-2022_0.pdf](#)

[Click to access Moving-the-Market_-Energy-Cost-Disclosure-In-Residential-Real-Estate-Listings.pdf](#)

Home Energy Sale Disclosures are coming! See an example here <https://www.pdxhes.com/>
Green Sellers Disclosure form <https://www.dropbox.com/s/9zm49lsn0tdk8wp/SellersGreenDisclosureStatement.pdf?dl=0>

[Click to access SWMRIC- Goes-Green-2.pdf](#)

[GreenHome Inspection https://greenhomeinstitute.org/greenhomeinspection/](#)

[Continue Learning - https://greenhomeinstitute.org/events/ {Realtor CEUS coming soon}](#)

[Join our Green Realtor Committee Eliza.Searles@greenhomeinstitute.org](#)

[Join us at the New Home and Remodel Show all weekend - Talk about IRA benefits for your clients at 8 pm on Friday](#)



Air source heat pumps for all project types



Detect air quality inside in real time!



DIY Storm Windows on the inside



Whole house smart ventilation



2 Replies To "REBAR GR 22"

Below are some resources for you based on our discussion during the seminar. We are first going to play a game – Which one of these items are more sustainable and why in the photos below? Raffle tickets for the winner(s) of each!



Md Sween

31 October 2022

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco

[Reply](#)



Md Sween

31 October 2022

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco

[Reply](#)

Leave A Comment

Name

Email

Type Comment Here

[Post Comment >](#)

SUBSCRIBE TO OUR NEWSLETTER

Get latest updates directly into your email

Enter your Email

Subscribe



AIUB Lifeline is a unified platform where AIUB students and faculty can share resources, find support, and stay organized with academic tools.

Features

- [Login](#)
- [Sign up](#)
- [Lost & Found](#)
- [Faculty TFS](#)
- [Handwritten Notes](#)
- [Q&A Platform](#)

Support

- [Blog](#)
- [About](#)
- [Contact Us](#)
- [Terms & Conditions](#)
- [Privacy Policy](#)

Contact

- 40B/1 (Old KA 66/1), Kuratoli, Khilkhet,Dhaka 1229, Bangladesh
- Tel: (616) 458-6733
- Toll Free: (888) 533-3274
- support@aiublifeline.com

AIUB Lifeline- About Page

Kuratoli, Khilkhet,Dhaka 1229 | (886) 533-3274 | support@aiublifeline.com | [Facebook](#) [Twitter](#) [LinkedIn](#) [YouTube](#) [RSS](#)

AIUB LIFELINE

Home **About** Blogs Contact Us

Login Sign Up

ABOUT AIUB LIFELINE



Background & Problem Context

For most students, university life comes with a lot of pressure such as classes, exams, future planning, and everyday responsibilities all at once. Students are required to manage academic responsibilities, navigate course materials, give examinations, maintain social relationships, and plan for their future all while dealing with personal and real-life challenges. As one of the leading private universities in Bangladesh, AIUB hosts a diverse and dynamic student body that frequently experiences these pressures.

In this context, students face many problems that are not academic issues. These factors include consideration that students are not able to locate on campus lost belongings, they cannot easily find consistent lecture/handwritten notes, they are unaware of the faculty's consulting hours, and there is no go-to space for academic related questions and accessibility of faculty provided materials. Today, students are using informal channels like Facebook groups, WhatsApp chats and word of mouth to serve their needs. They generally work and, typically, lack responsible moderation, and they unaccountably fail to deliver uniform access or good information to all students. The problem exists as there is no unified, organized platform exclusively centered for the AIUB students. It can cause additional stress, miscommunication, and missed opportunities for academic and other forms of personal support. That's why we think it's time for a clean digital solution that aggregates the core student support services into a user-friendly system.

AIUB Lifeline

Designers

Sheikh Najmul Hossain
ID: 23-51376-1

Mashrafi Ahsan
ID: 23-51355-1

Syed Iftear Hasan
ID: 23-51367-1

Key Features

1. Lost and Found: Students will be able to report and search for missing personal belongings through a secure and centralised platform. The platform will have options to upload Images and provide detail time and place of the item so that it would be easier to locate the missing belonging.

2. Sharing Lecture and Handwritten Notes: Through this platform the students will be able to upload and search for handwritten notes as well as lecture notes. Students will be able to search the notes by sorting it by course code, instructor, course name and department.

3. Authorised Material Approved by Faculty: Authorised scholarly material such as class notes, tutorial sheets, question papers, and practice sets shall be provided by the faculty to the students. There will be fewer unauthorised uses of sources and higher content accuracy.

4. Faculty TSF Section: There will be a designated section showing the available consulting times of every one of the faculty members. This will make it easy for students to schedule appointments, clear their questions, or receive study help efficiently.

5. Q&A Platform: There will be an academically moderated discussion forum where students will be able to post academic questions, receive answers from peers or instructors, and up vote useful responses. Questions will be label by subject, course, or topic for easier discovery and searching.

Importance of the Problem

Because of the following issues, students waste a lot of valuable time searching for important resources and a lot of times end up with wrong and outdated materials. Students also find it difficult to navigate their lost belonging from home. This platform will solve a lot of problems which in turn will benefit the stakeholders of the university.

AIUB Lifeline Objective

In this technology driven age, not having a single modern platform at a leading private university such as AIUB is conspicuous. Plugging this gap is an opportunity to establish a new and modern platform that can enhance academic achievement along with student life in general.

By introducing this platform the university will truly transform into a modern university justifying the leading university of Bangladesh tag and going on to achieve more great achievements in the future.

Our goal is to build one easy-to-use app that brings together everything students and teachers need in one place by:

- Enhancing academic collaboration.
- Reducing communication gaps.
- Seamlessly access essential latest materials and schedules.
- Promoting a supportive campus ecosystem.

SUBSCRIBE TO OUR NEWSLETTER

Get latest updates directly into your email

Frame 17

Enter your Email

Subscribe

HOW CAN WE HELP YOU?

 Sign in to your Account

 Search for lecture materials

 Lost & Found Area

 Handwritten Notes

 Create an account

 Find faculty TFS

 Q&A Platform

 Learn more about us

 Find faculty information

LATEST UPDATES FROM OUR BLOG!



Thank you for joining our session at REBAR GR 22

0 Comments / By Green Home Institute

Below are some resources for you based on our discussion during the seminar. We are first going to play a game – Which one of these items are more sustainable and why in the photos below? Raffle tickets for the winner(s) of each!

[Read More](#)



Top 5 on-demand green home videos 22

0 Comments / By Brett Little

What were the top 5 residential green building videos for 2022?

This year we saw significant interest in our growing GHI residential green building education channel on youtube.

[Read More](#)



AprilAire Dehumidifier helps GHI Education Manager stay dry and healthy

0 Comments / By Brett Little

The system is very energy efficient and has worked well getting out the humid air in my house. Humidity can be an issue in the swing seasons and even in winter when it does not appear humid.

[Read More](#)

[Learn More On Our Blog!](#)



AIUB Lifeline is a unified platform where AIUB students and faculty can share resources, find support, and stay organized with academic tools.

Features

- [Login](#)
- [Sign up](#)
- [Lost & Found](#)
- [Faculty TFS](#)
- [Handwritten Notes](#)
- [Q&A Platform](#)

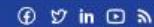
Support

- [Blog](#)
- [About](#)
- [Contact Us](#)
- [Terms & Conditions](#)
- [Privacy Policy](#)
- [Knowledgebase](#)

Contact

- [408/1 \(Old KA 66/1\), Kuratoli, Khilkhet,Dhaka 1229, Bangladesh](#)
- [Tel: \(616\) 458-6733](#)
- [Toll Free: \(888\) 533-3274](#)
- support@aiublifeline.com

Copyright © 2025 AIUB Lifeline. All rights reserved.



AIUB Lifeline- Support Page

The screenshot shows the AIUB Lifeline support page. At the top, there's a blue header bar with the AIUB Lifeline logo, address (Kuratoli, Khilkhet, Dhaka 1229), phone number (888) 533-3274, email (support@aiublifeline.com), and social media links (Facebook, Twitter, LinkedIn, YouTube, RSS). Below the header, there's a navigation menu with Home, About, Blogs, Contact Us, Login, and Sign Up buttons. The main content area features a large "CONTACT US" section with three contact details boxes: a phone icon for calling from anywhere, an envelope icon for emailing, and a location pin icon for visiting. Each box has a corresponding button: "Call Us", "Email Us", and "Visit Us".

AIUB LIFELINE CONTACT DETAILS

Three contact details boxes:

- Call Us**: Represented by a phone icon. Text: "Call us anytime from anywhere". Button: "Call Us".
- Email Us**: Represented by an envelope icon. Text: "Email us for anything". Button: "Email Us".
- Visit Us**: Represented by a location pin icon. Text: "Call us anytime from anywhere". Button: "Visit Us".

SUBSCRIBE TO OUR NEWSLETTER

Get latest updates directly into your email

Enter your Email

Subscribe

AIUB LIFELINE

AIUB Lifeline is a unified platform where AIUB students and faculty can share resources, find support, and stay organized with academic tools.

Features

- Login
- Sign up
- Lost & Found
- Faculty TFS
- Handwritten Notes
- Q&A Platform

Support

- Blog
- About
- Contact Us
- Terms & Conditions
- Privacy Policy
- Knowledgebase

Contact

408/1 (Old KA 66/1), Kuratoli,
Khilkhet, Dhaka 1229, Bangladesh

Tel: (618) 458-6733

Toll Free: (888) 533-3274

support@aiublifeline.com

Copyright © 2025 AIUB Lifeline. All rights reserved.



AIUB Lifeline- Terms and Conditions

TERMS & CONDITIONS AIUB LIFELINE

Terms & Conditions

Last Modified: 26-08-2023

1. Introduction

Welcome to AIUB Lifeline ("we", "our", "us"). By accessing or using our platform, you agree to comply with and be bound by these Terms & Conditions. If you do not agree, please refrain from using the service.

AIUB Lifeline is a student-support platform designed to help AIUB students connect, share resources, find lost belongings, access notes, and receive academic-related assistance.

2. Eligibility

- You must be a current or former student, faculty, or authorized member of AIUB to use this platform.
- By registering, you confirm that the information provided is accurate and belongs to you.

3. User Responsibilities

- You agree to use the platform only for lawful purposes related to academic and student life.
- You are responsible for maintaining the confidentiality of your login credentials.
- You must not upload, share, or post any content that is offensive, misleading, abusive, defamatory, or violates any local laws.
- Academic materials [notes, lectures, etc.] shared on AIUB Lifeline must be used for personal educational purposes only and must not be sold or distributed outside the platform.

4. Content Ownership

- All content posted by users [notes, questions, discussions, lost & found items, etc.] remains the property of the respective owner.
- By posting, you grant AIUB Lifeline a non-exclusive license to display and distribute your content within the platform for academic support purposes.
- University policies regarding plagiarism, copyright, and academic integrity fully apply.

5. Prohibited Activities

You agree not to:

- Misrepresent your identity or affiliation.
- Spread false information, spam, or promotional/advertising content.
- Attempt to hack, disrupt, or exploit the system.
- Engage in harassment, bullying, or any form of misconduct toward other users.

6. Privacy & Data Use

- We collect and store only essential information such as name, student ID, and email for verification and service improvement.
- AIUB Lifeline does not share your personal data with third parties except as required by law or university authorities.
- Usage data [such as feature access and activity logs] may be analyzed to improve the platform.

7. Limitation of Liability

- AIUB Lifeline is a support tool and does not replace official AIUB systems or communications.
- We are not responsible for the accuracy of user-generated content, lost belongings, or any academic outcomes.
- Use of the platform is at your own risk.

8. Suspension & Termination

- AIUB Lifeline reserves the right to suspend or terminate accounts found violating these Terms & Conditions without prior notice.
- Users engaged in repeated misconduct may be permanently banned from the platform.

9. Modifications

- We may update these Terms & Conditions from time to time.
- Continued use of the platform after changes constitutes acceptance of the updated terms.

10. Governing Law

These Terms & Conditions are governed by the laws of Bangladesh and in accordance with the policies of American International University - Bangladesh (AIUB).

AIUB Lifeline- Privacy Policy

PRIVACY POLICY AIUB LIFELINE

Privacy Policy

Last Modified: 26-08-2025

1. Introduction

AIUB Lifeline ("we", "our", "us") values your privacy and is committed to protecting your personal information. This Privacy Policy explains how we collect, use, and safeguard your data when you use our platform. By accessing or using AIUB Lifeline, you agree to the practices described in this policy.

2. Information We Collect

We may collect the following types of information when you register or use our services:

- Personal Information: Name, AIUB Student ID, email address, and other details required for identity verification.
- Academic Content: Notes, lecture materials, questions, answers, and other academic contributions you upload or share.
- Usage Data: Log data such as pages visited, features accessed, time spent, and interactions on the platform.
- Device Information: Browser type, IP address, and operating system (for security and analytics purposes).

3. How We Use Your Information

We use your information for:

- Provide access to AIUB Lifeline's features and services.
- Verify your identity as a student or faculty member.
- Facilitate academic sharing, Q&A, and lost & found services.
- Improve the platform through usage analytics.
- Communicate updates, notifications, or important announcements.

4. Data Sharing & Disclosure

- We do not sell or rent your personal information to third parties.
- Information may be shared only:
 - With AIUB authorities, if required for academic or disciplinary purposes.
 - To comply with legal obligations or enforce our Terms & Conditions.
 - For technical support or security monitoring (with trusted service providers).

5. Data Security

- We implement reasonable technical and organizational measures to protect your data.
- However, no system is 100% secure, and we cannot guarantee absolute protection against unauthorized access.

6. Your Rights

As a user, you have the right to:

- Access and review your personal information.
- Update or correct inaccurate details.
- Request deletion of your account and associated data (subject to AIUB regulations).

7. Cookies & Tracking

- AIUB Lifeline may use cookies or similar technologies to improve user experience, track usage, and remember preferences.
- You can disable cookies in your browser settings, but some features may not function properly.

8. Third-Party Links

- Our platform may contain links to third-party websites or resources.
- We are not responsible for the privacy practices of external sites and encourage you to review their policies before using them.

9. Changes to This Privacy Policy

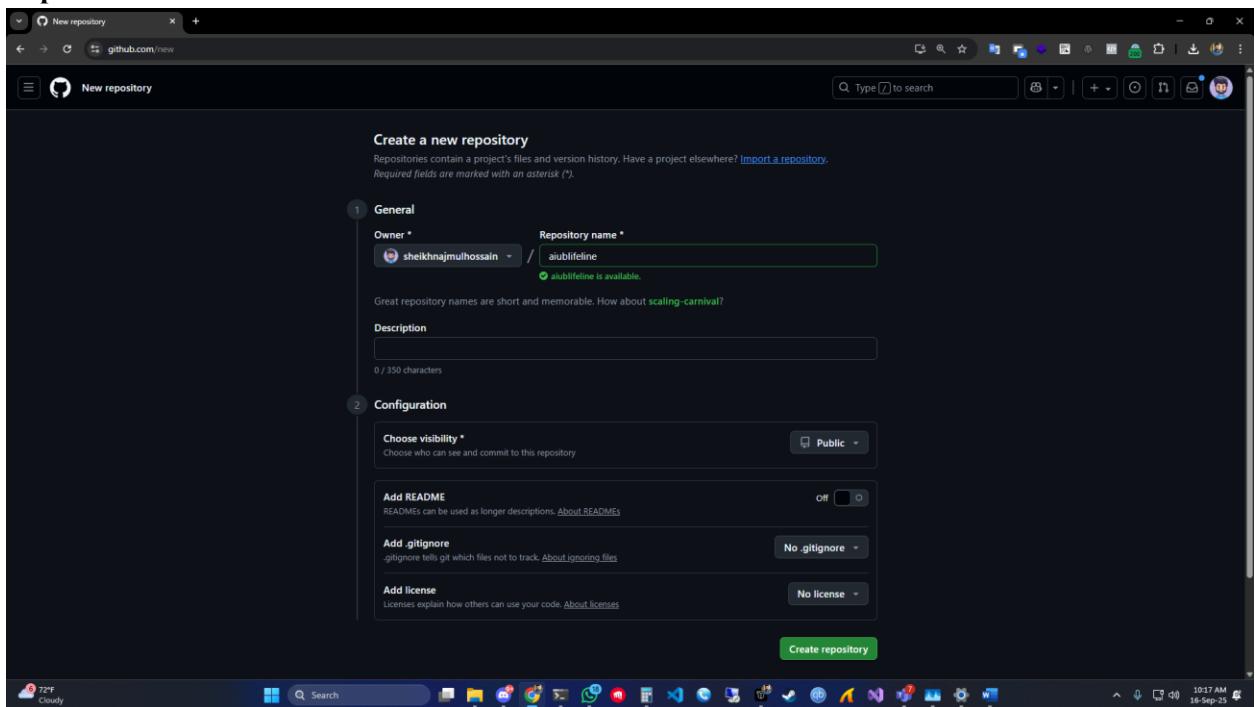
- We may update this Privacy Policy from time to time.
- Any changes will be posted on this page with the updated date.
- Continued use of AIUB Lifeline after changes constitutes acceptance of the updated policy.

10. Contact Us

If you have any questions or concerns about this Privacy Policy, please contact us through the support section of AIUB Lifeline.

5. GIT WORKFLOW

1. Repo Creation



The screenshot shows a GitHub repository page for 'sheikhnajmulhossain/aiublifeline' and a Windows PowerShell window.

GitHub Repository Page:

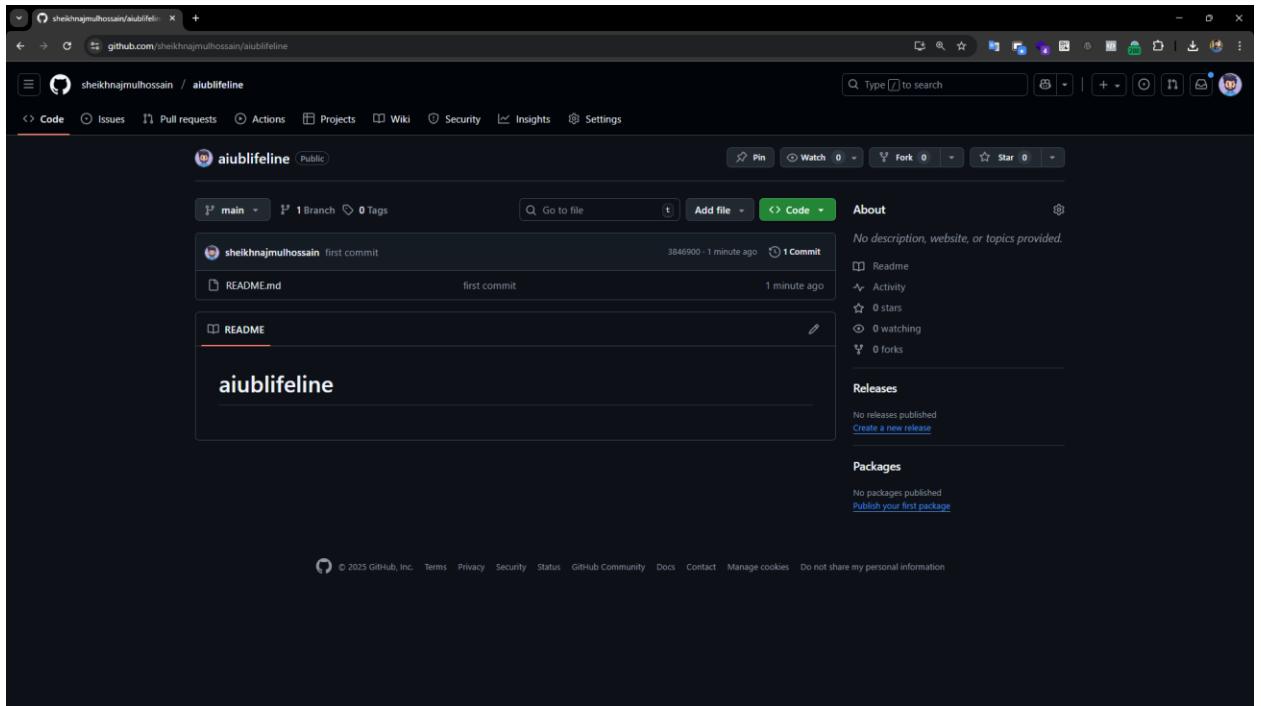
- Header:** sheikhnajmulhossain / aiublifeline
- Navigation:** Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, Settings
- Repository Information:** aiublifeline Public
- Actions:** Pin, Watch 0, Fork 0, Star 0
- Sections:**
 - Start coding with Codespaces:** Add a README file and start coding in a secure, configurable, and dedicated development environment. [Create a codespace](#)
 - Add collaborators to this repository:** Search for people using their GitHub username or email address. [Invite collaborators](#)
 - Quick setup — if you've done this kind of thing before:**
 - Set up in Desktop or HTTPS SSH <https://github.com/sheikhnajmulhossain/aiublifeline.git>
 - Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).
 - ...or create a new repository on the command line:**

```
echo "# aiublifeline" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/sheikhnajmulhossain/aiublifeline.git
git push -u origin main
```
 - ...or push an existing repository from the command line:**

```
git remote add origin https://github.com/sheikhnajmulhossain/aiublifeline.git
git branch -M main
git push -u origin main
```

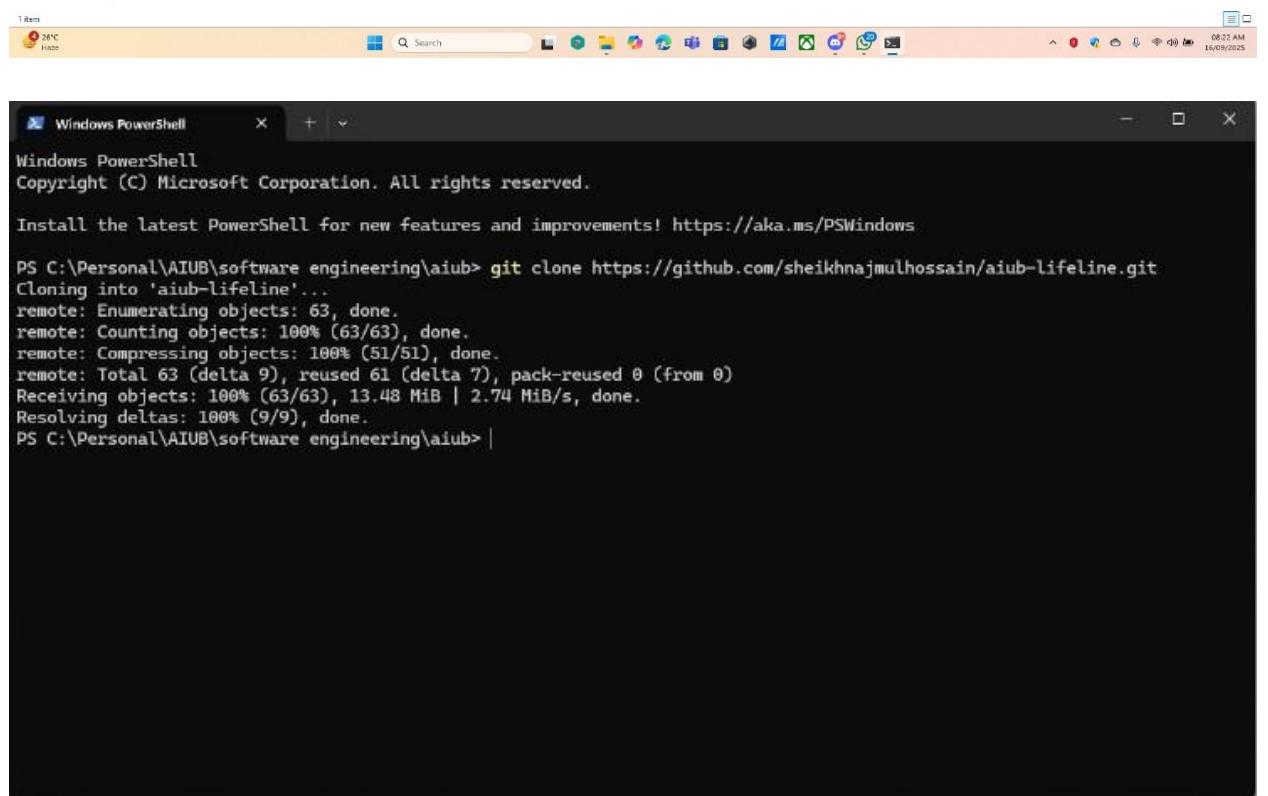
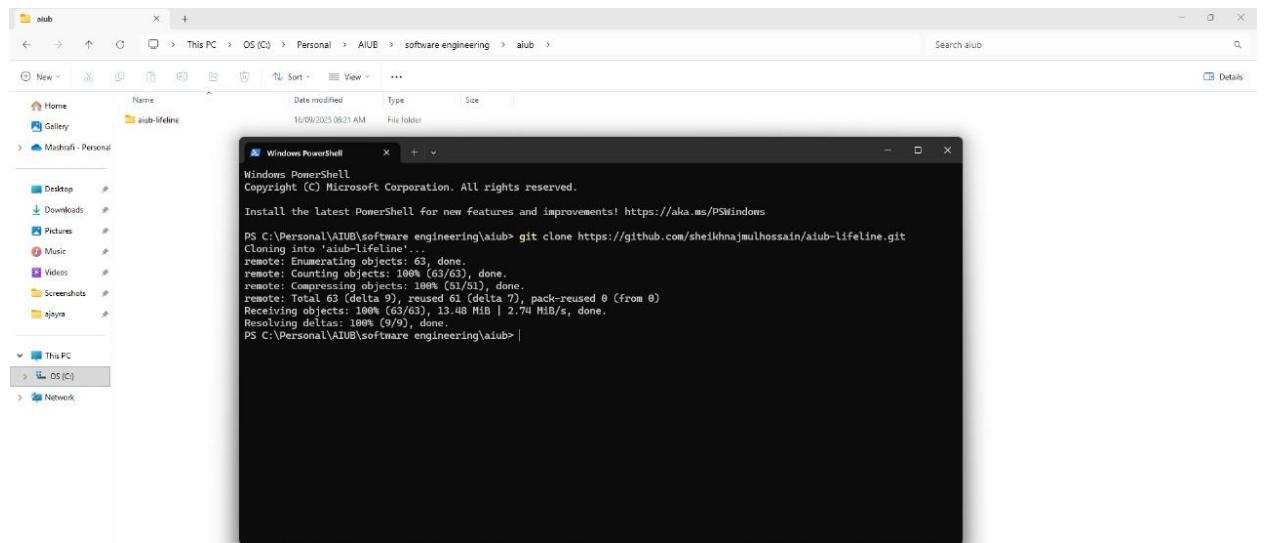
Windows PowerShell:

```
PS F:\Github\aiublifeline> echo "# aiublifeline" >> README.md
PS F:\Github\aiublifeline> git init
Initialized empty Git repository in F:/Github/aiublifeline/.git/
PS F:\Github\aiublifeline> git add README.md
PS F:\Github\aiublifeline> git commit -m "first commit"
[master (root-commit) 3846900] first commit
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 README.md
PS F:\Github\aiublifeline> git branch -M main
PS F:\Github\aiublifeline> git remote add origin https://github.com/sheikhnajmulhossain/aiublifeline.git
PS F:\Github\aiublifeline> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 250 bytes | 250.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/sheikhnajmulhossain/aiublifeline.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS F:\Github\aiublifeline> |
```

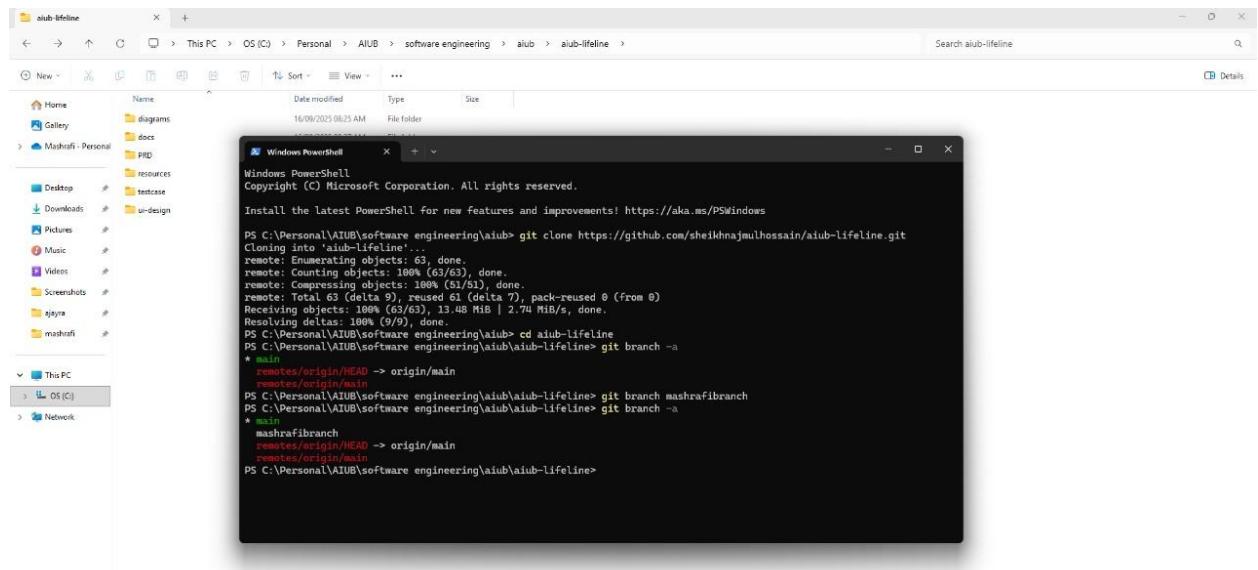


2. Cloning the repo, creating own feature branches, committing each individual branch and pushing them.

Group Member: Mashrafi Ahsan
a. cloning repo

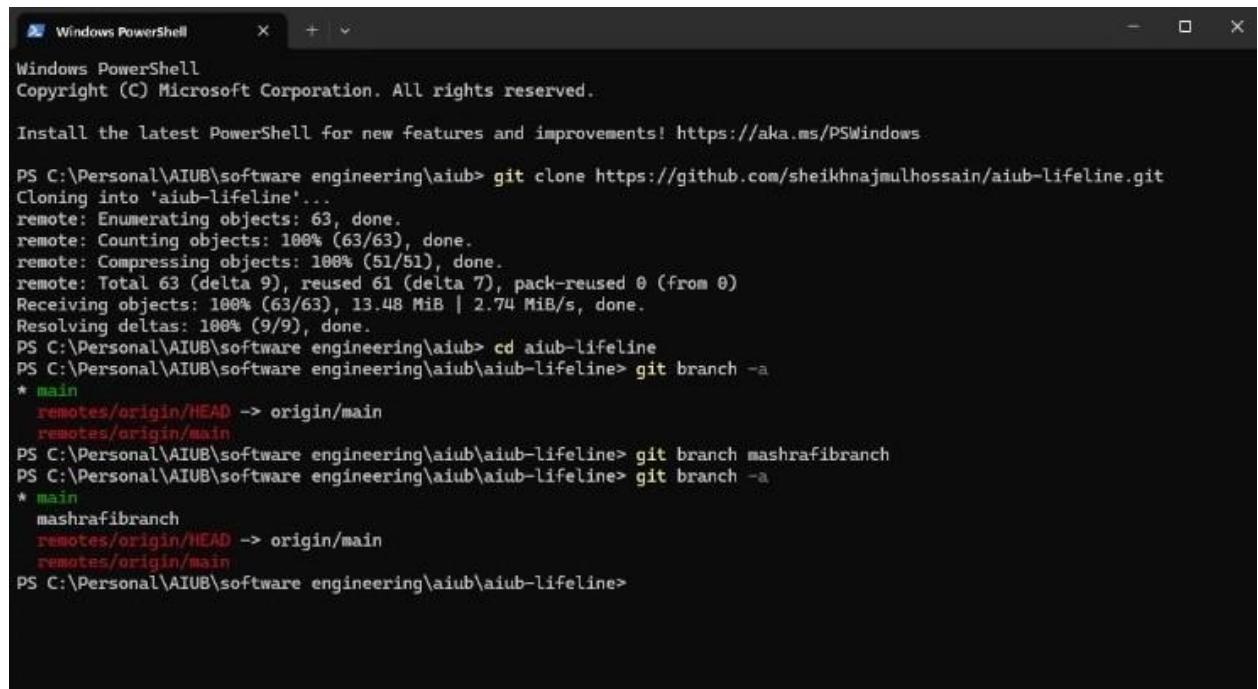


b. creating branch named “mashrafibranch”



```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

PS C:\Personal\AIUB\software engineering\aiuib> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 63, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 63 (delta 9), reused 61 (delta 7), pack-reused 0 (from 0)
Receiving objects: 100% (63/63), 13.48 MiB | 2.74 MiB/s, done.
Resolving deltas: 100% (9/9), done.
PS C:\Personal\AIUB\software engineering\aiuib> cd aiub-lifeline
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch mashrafibranch
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch -a
* main
  mashrafibranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline>
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Personal\AIUB\software engineering\aiuib> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 63, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 63 (delta 9), reused 61 (delta 7), pack-reused 0 (from 0)
Receiving objects: 100% (63/63), 13.48 MiB | 2.74 MiB/s, done.
Resolving deltas: 100% (9/9), done.
PS C:\Personal\AIUB\software engineering\aiuib> cd aiub-lifeline
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch mashrafibranch
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline> git branch -a
* main
  mashrafibranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiuib\aiub-lifeline>
```

c. Pushing first commit

```

PS C:\Personal\AIUB\software engineering\aiub> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 63, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 63 (delta 9), reused 61 (delta 7), pack-reused 0 (from 0)
Receiving objects: 100% (63/63), 13.48 MiB | 2.74 MiB/s, done.
Resolving deltas: 100% (9/9), done.
PS C:\Personal\AIUB\software engineering\aiub> cd aiub-lifeline
PS C:\Personal\AIUB\software engineering\aiub> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git branch mashrafibran
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git branch -a
* main
  mashrafibran
    remotes/origin/HEAD -> origin/main
    remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git checkout mashrafibran
Switched to branch 'mashrafibran'
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git add --all
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git commit -m "added prd and ui design"
[mashrafibran 76bacd3] added prd and ui design
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 PRD/PRD-AIUBLine-p2.xlsx
 create mode 100644 ui-design/aiub-lifeline-ui-design-p2.pdf
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline>

```



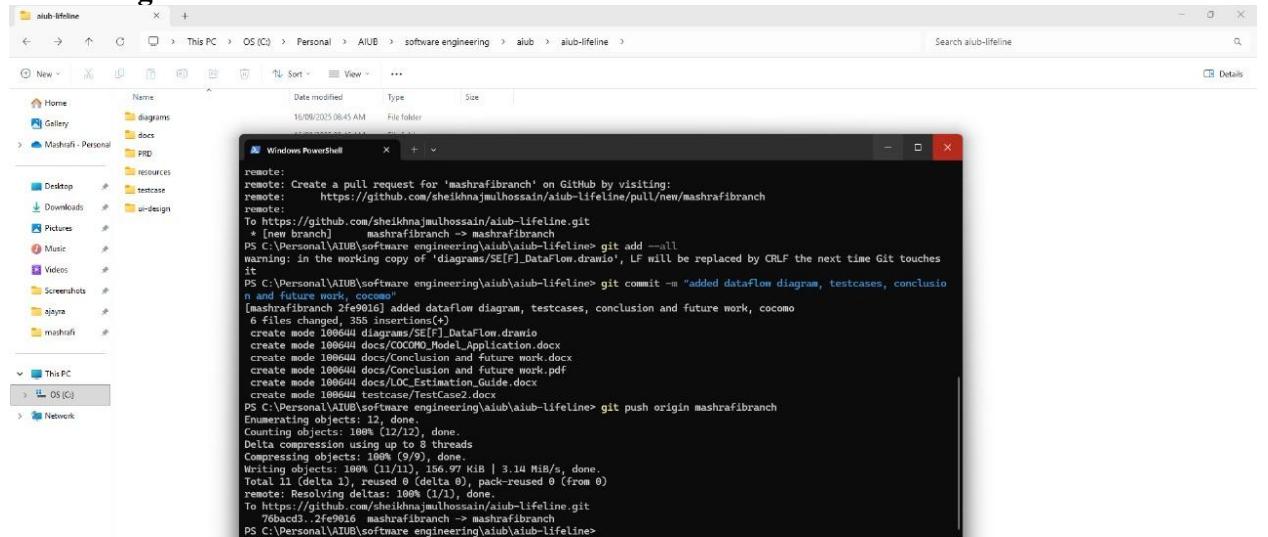
```

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Personal\AIUB\software engineering\aiub> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 63, done.
remote: Counting objects: 100% (63/63), done.
remote: Compressing objects: 100% (51/51), done.
remote: Total 63 (delta 9), reused 61 (delta 7), pack-reused 0 (from 0)
Receiving objects: 100% (63/63), 13.48 MiB | 2.74 MiB/s, done.
Resolving deltas: 100% (9/9), done.
PS C:\Personal\AIUB\software engineering\aiub> cd aiub-lifeline
PS C:\Personal\AIUB\software engineering\aiub> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git branch mashrafibran
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git branch -a
* main
  mashrafibran
    remotes/origin/HEAD -> origin/main
    remotes/origin/main
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git checkout mashrafibran
Switched to branch 'mashrafibran'
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git add --all
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git commit -m "added prd and ui design"
[mashrafibran 76bacd3] added prd and ui design
 2 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 PRD/PRD-AIUBLine-p2.xlsx
 create mode 100644 ui-design/aiub-lifeline-ui-design-p2.pdf
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline>

```

d. Pushing second commit



A screenshot of a Windows File Explorer window titled 'aiub-lifeline'. The path is 'This PC > OS (C) > Personal > AIUB > software engineering > aiub > aiub-lifeline'. The folder contains subfolders like 'diagrams', 'docs', 'img', 'resources', 'testcase', and 'ui-design'. A separate 'Windows PowerShell' window is open, showing the command-line session for pushing changes to GitHub.

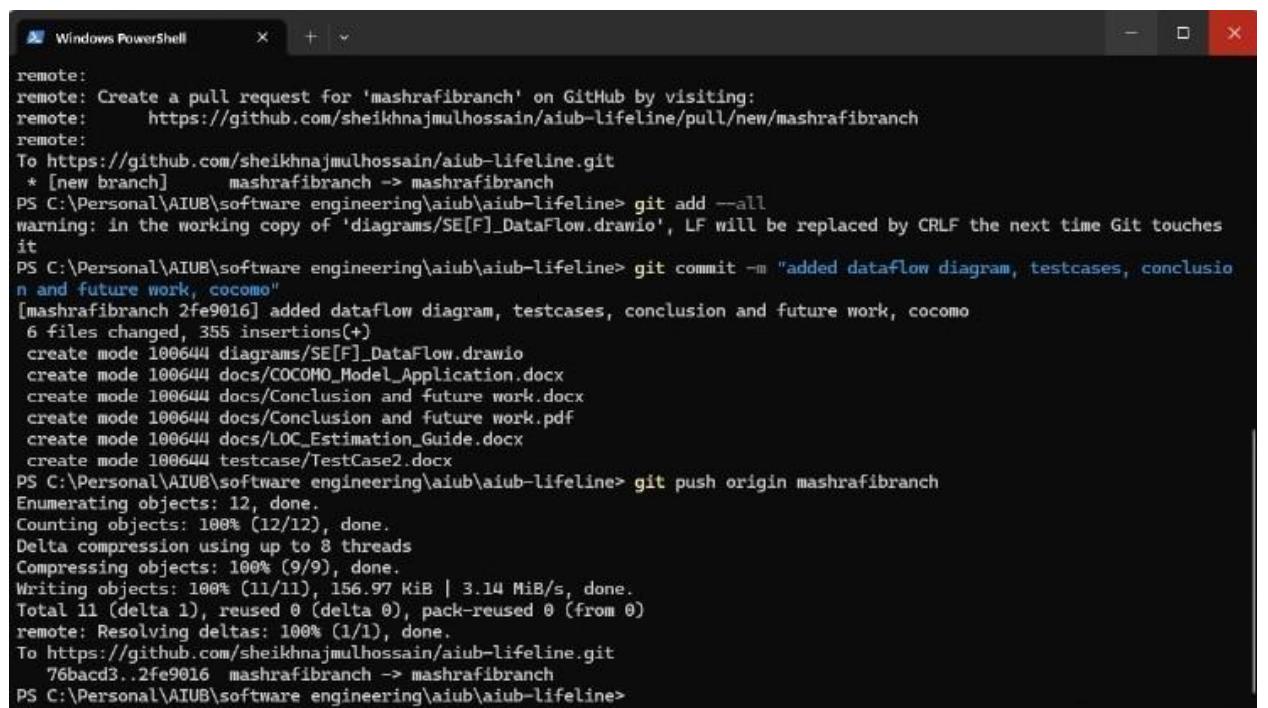
```

remote:
remote: Create a pull request for 'mashrafibranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/mashrafibranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      mashrafibranch -> mashrafibranch
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git add --all
warning: in the working copy of 'diagrams/SE[F].DataFlow.drawio', LF will be replaced by CRLF the next time Git touches it
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git commit -m "added dataflow diagram, testcases, conclusion and future work, cocomo"
[mashrafibranch 2fe9016] added dataflow diagram, testcases, conclusion and future work, cocomo
 6 files changed, 355 insertions(+)
create mode 100644 diagrams/SE[F].DataFlow.drawio
create mode 100644 docs/COCOMO_Model_Application.docx
create mode 100644 docs/Conclusion_and_future_work.docx
create mode 100644 docs/Conclusion_and_future_work.pdf
create mode 100644 docs/LOC_Estimation_Guide.docx
create mode 100644 testcase/TestCase2.docx
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git push origin mashrafibranch
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (11/11), 156.97 KiB | 3.14 MiB/s, done.
Total 11 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 76bacd3..2fe9016  mashrafibranch -> mashrafibranch
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline>

```




The taskbar shows the date and time as 08:52 AM on 16/09/2025.



A screenshot of a Windows PowerShell window titled 'Windows PowerShell'. It displays the same command-line session for pushing changes to GitHub, identical to the one shown in the previous window.

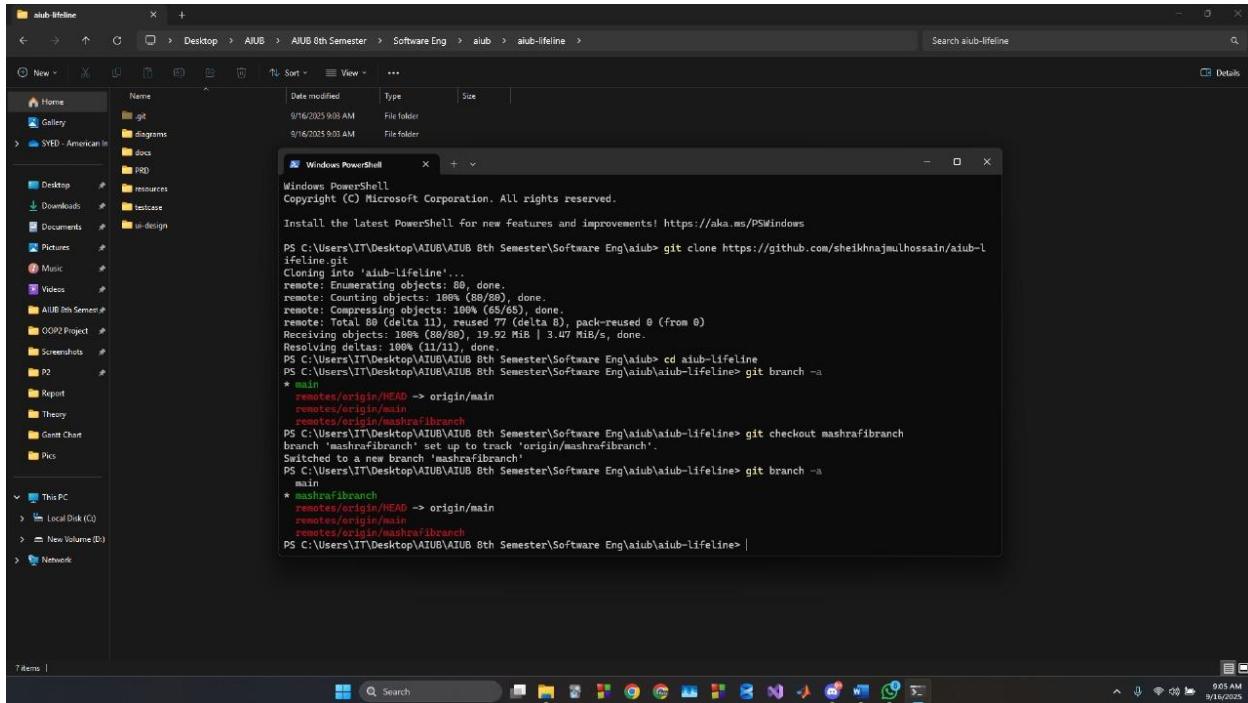
```

remote:
remote: Create a pull request for 'mashrafibranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/mashrafibranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      mashrafibranch -> mashrafibranch
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git add --all
warning: in the working copy of 'diagrams/SE[F].DataFlow.drawio', LF will be replaced by CRLF the next time Git touches it
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git commit -m "added dataflow diagram, testcases, conclusion and future work, cocomo"
[mashrafibranch 2fe9016] added dataflow diagram, testcases, conclusion and future work, cocomo
 6 files changed, 355 insertions(+)
create mode 100644 diagrams/SE[F].DataFlow.drawio
create mode 100644 docs/COCOMO_Model_Application.docx
create mode 100644 docs/Conclusion_and_future_work.docx
create mode 100644 docs/Conclusion_and_future_work.pdf
create mode 100644 docs/LOC_Estimation_Guide.docx
create mode 100644 testcase/TestCase2.docx
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline> git push origin mashrafibranch
Enumerating objects: 12, done.
Counting objects: 100% (12/12), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (11/11), 156.97 KiB | 3.14 MiB/s, done.
Total 11 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 76bacd3..2fe9016  mashrafibranch -> mashrafibranch
PS C:\Personal\AIUB\software engineering\aiub\aiub-lifeline>

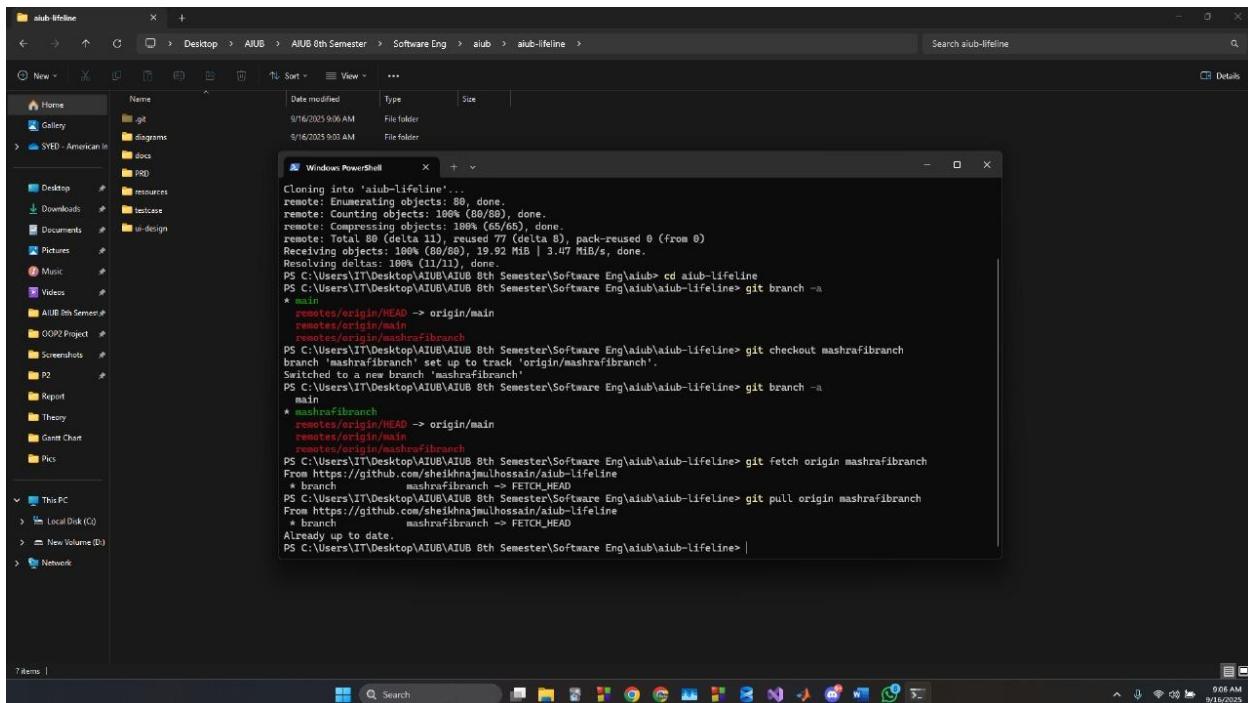
```

Group Member: Syed Iftear Hasan

a. Cloning repo and pulling code



```
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git clone https://github.com/sheikhnaejmulhossain/aiub-lifeine
Cloning into 'aiub-lifeine'...
remote: Enumerating objects: 89, done.
remote: Counting objects: 100% (89/89), done.
remote: Compressing objects: 100% (65/65), done.
remote: Total 89 (delta 8), reused 77 (delta 8), pack-reused 0 (from 0)
Receiving objects: 100% (89/89), 19.92 MiB | 3.47 MiB/s, done.
Resolving deltas: 100% (11/11), done.
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> cd aiub-lifeine
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafibran
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git checkout mashrafibran
Branch 'mashrafibran' set up to track 'origin/mashrafibran'.
Switched to a new branch 'mashrafibran'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git branch -a
* mashrafibran
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafibran
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> |
```



```
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git fetch origin mashrafibran
From https://github.com/sheikhnaejmulhossain/aiub-lifeine
 * branch      mashrafibran    -> FETCH_HEAD
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> git pull origin mashrafibran
From https://github.com/sheikhnaejmulhossain/aiub-lifeine
 * branch      mashrafibran    -> FETCH_HEAD
Already up to date.
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeine> |
```

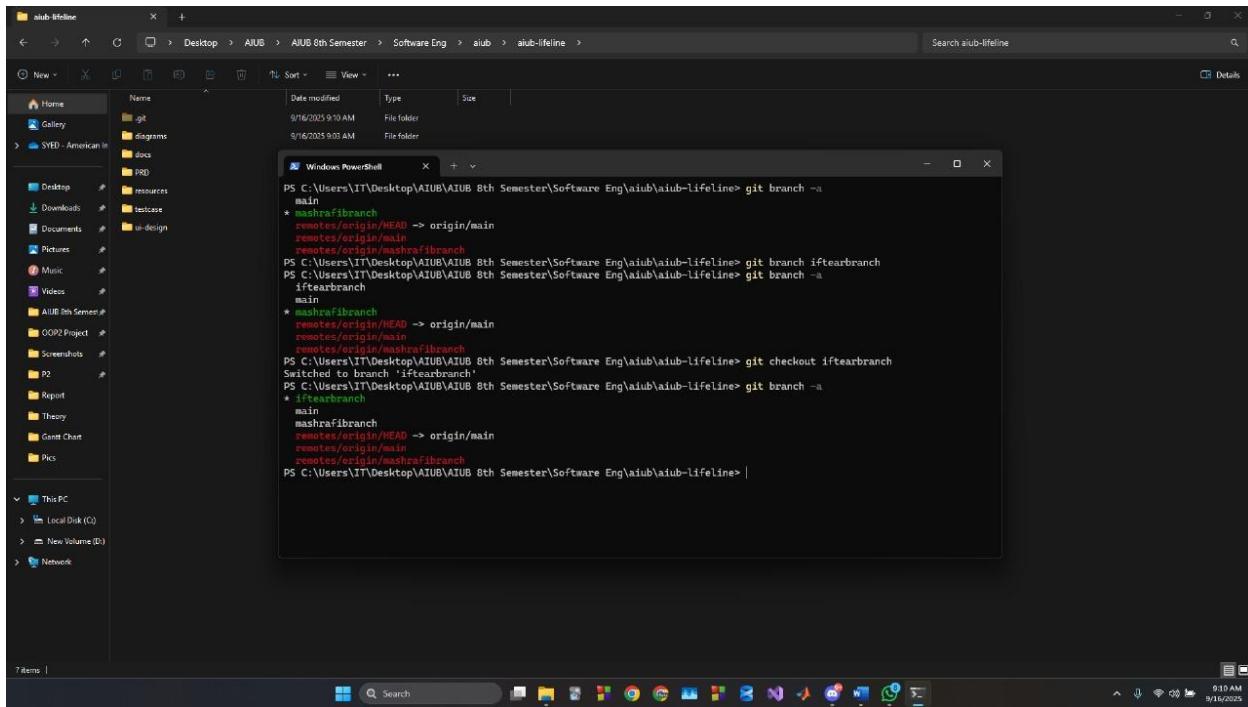
```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 80, done.
remote: Counting objects: 100% (80/80), done.
remote: Compressing objects: 100% (65/65), done.
remote: Total 80 (delta 11), reused 77 (delta 8), pack-reused 0 (from 0)
Receiving objects: 100% (80/80), 19.92 MiB | 3.47 MiB/s, done.
Resolving deltas: 100% (11/11), done.
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub> cd aiub-lifeline
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git checkout mashrafbranch
branch 'mashrafbranch' set up to track 'origin/mashrafbranch'.
Switched to a new branch 'mashrafbranch'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
  main
* mashrafbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> |
```

```
Windows PowerShell
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 80, done.
remote: Counting objects: 100% (80/80), done.
remote: Compressing objects: 100% (65/65), done.
remote: Total 80 (delta 11), reused 77 (delta 8), pack-reused 0 (from 0)
Receiving objects: 100% (80/80), 19.92 MiB | 3.47 MiB/s, done.
Resolving deltas: 100% (11/11), done.
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub> cd aiub-lifeline
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git checkout mashrafbranch
branch 'mashrafbranch' set up to track 'origin/mashrafbranch'.
Switched to a new branch 'mashrafbranch'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
  main
* mashrafbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git fetch origin mashrafbranch
From https://github.com/sheikhnajmulhossain/aiub-Lifeline
 * branch      mashrafbranch -> FETCH_HEAD
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git pull origin mashrafbranch
From https://github.com/sheikhnajmulhossain/aiub-Lifeline
 * branch      mashrafbranch -> FETCH_HEAD
Already up to date.
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> |
```

b. Creating branch named “iftearbranch”



This screenshot shows a single PowerShell window with the title "Windows PowerShell". It displays the command history for creating a new branch named "iftearbranch". The commands entered are:

```
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
  main
* mashrafbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch iftearbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* iftearbranch
  main
  mashrafbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git checkout iftearbranch
Switched to branch 'iftearbranch'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* iftearbranch
  main
  mashrafbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/main
  remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> |
```

c. First commit and push

```

Switched to branch 'iftearbranch'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* iftearbranch
  main
  mashrafbranch
    remotes/origin/HEAD -> origin/main
    remotes/origin/main
    remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git add --all
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git commit -m "Added PRD and UI design for User Dashboards"
[iftearbranch f05269b] Added PRD and UI design for User Dashboards
  2 files changed, 9 insertions(+), 0 deletions(-)
   create mode 100644 PRD/PRD-AIUBLine-p1.xlsx
   create mode 100644 ui-design\aiub-lifeline-ui-design-p1.pdf
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git push origin iftearbranch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 427 bytes | 213.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'iftearbranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/iftearbranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      iftearbranch -> iftearbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> |

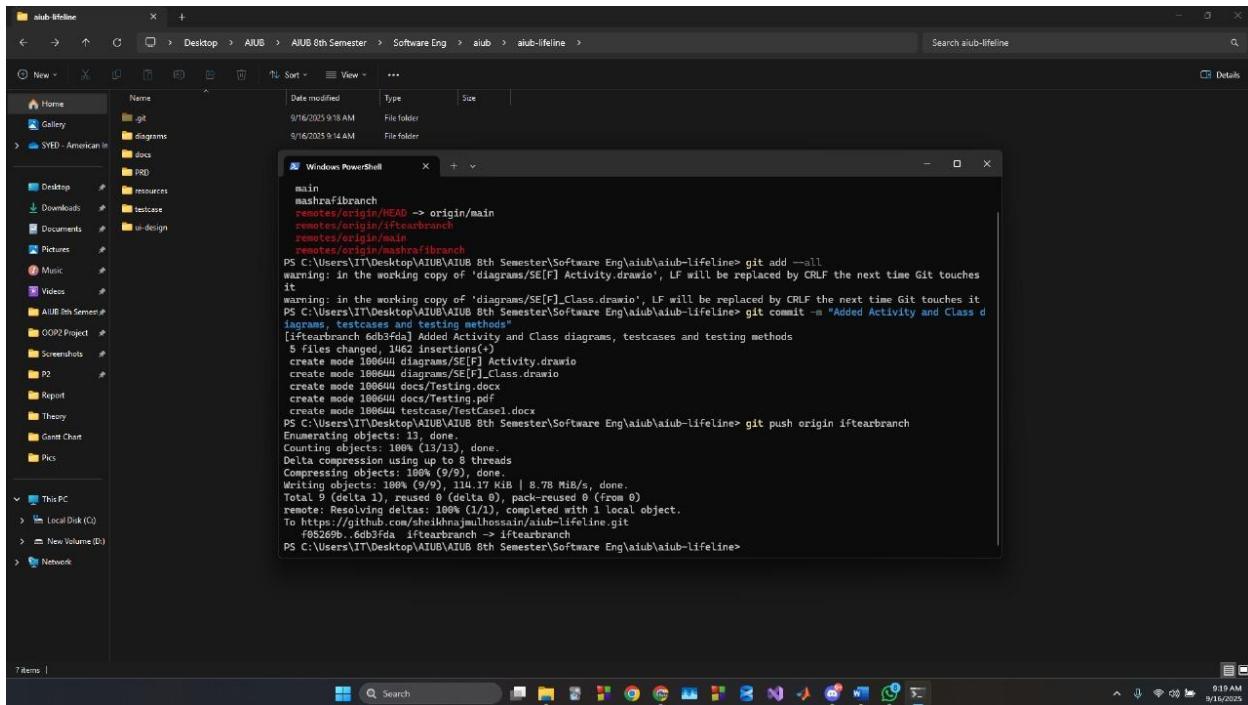
```

```

Switched to branch 'iftearbranch'
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git branch -a
* iftearbranch
  main
  mashrafbranch
    remotes/origin/HEAD -> origin/main
    remotes/origin/main
    remotes/origin/mashrafbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git add --all
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git commit -m "Added PRD and UI design for User Dashboards"
[iftearbranch f05269b] Added PRD and UI design for User Dashboards
  2 files changed, 9 insertions(+), 0 deletions(-)
   create mode 100644 PRD/PRD-AIUBLine-p1.xlsx
   create mode 100644 ui-design\aiub-lifeline-ui-design-p1.pdf
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git push origin iftearbranch
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 427 bytes | 213.00 KiB/s, done.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'iftearbranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/iftearbranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      iftearbranch -> iftearbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> |

```

d. Second commit and push



```

main
mashrafibran...
remotes/origin/HEAD -> origin/main
remotes/origin/iftearbranch
remotes/origin/main
remotes/origin/mashrafibran...
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git add --all
warning: in the working copy of 'diagrams/SE[F] Activity.drawio', LF will be replaced by CRLF the next time Git touches it
warning: in the working copy of 'diagrams/SE[F] Class.drawio', LF will be replaced by CRLF the next time Git touches it
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git commit -m "Added Activity and Class d...
ograms, testcases and testing methods"
[iftearbranch 6db3fda] Added Activity and Class diagrams, testcases and testing methods
 5 files changed, 1462 insertions(+)
create mode 100644 diagrams/SE[F] Activity.drawio
create mode 100644 diagrams/SE[F] Class.drawio
create mode 100644 docs/Testing.docx
create mode 100644 docs/Testing.pdf
create mode 100644 testcase/TestCase1.docx
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline> git push origin iftearbranch
Enumerating objects: 13, done.
Counting objects: 100% (13/13), done.
Delta compression using up to 8 threads
Compressing objects: 100% (9/9), done.
Writing objects: 100% (9/9), 114.17 KiB | 8.78 MiB/s, done.
Total 9 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 f05269b..6db3fda iftearbranch -> iftearbranch
PS C:\Users\IT\Desktop\AIUB\AIUB 8th Semester\Software Eng\aiub\aiub-lifeline>

```

Group Member: Sheikh Najmul Hossain

a. Cloning repo and pulling the code

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS F:\AIUB\2025\Summer25\software\github> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 93, done.
remote: Counting objects: 100% (93/93), done.
remote: Compressing objects: 100% (75/75), done.
remote: Total 93 (delta 15), reused 89 (delta 11), pack-reused 0 (from 0)
Receiving objects: 100% (93/93), 20.03 MiB | 6.98 MiB/s, done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/lftearbranch
  remotes/origin/main
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout lftearbranch
branch 'lftearbranch' set up to track 'origin/lftearbranch'.
Switched to a new branch 'lftearbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline>
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS F:\AIUB\2025\Summer25\software\github> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 93, done.
remote: Counting objects: 100% (93/93), done.
remote: Compressing objects: 100% (75/75), done.
remote: Total 93 (delta 15), reused 89 (delta 11), pack-reused 0 (from 0)
Receiving objects: 100% (93/93), 20.03 MiB | 6.98 MiB/s, done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/lftearbranch
  remotes/origin/main
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout lftearbranch
branch 'lftearbranch' set up to track 'origin/lftearbranch'.
Switched to a new branch 'lftearbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git fetch origin lftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch      lftearbranch  -> FETCH_HEAD
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git pull origin lftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch      lftearbranch  -> FETCH_HEAD
Already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline>
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS F:\AIUB\2025\Summer25\software\github> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 93, done.
remote: Counting objects: 100% (93/93), done.
remote: Compressing objects: 100% (75/75), done.
remote: Total 93 (delta 15), reused 89 (delta 11), pack-reused 0 (from 0)
Receiving objects: 100% (93/93), 20.03 MiB | 6.98 MiB/s, done.
Resolving deltas: 100% (15/15), done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibran
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout iftearbranch
branch 'iftearbranch' set up to track 'origin/iftearbranch'.
Switched to a new branch 'iftearbranch'
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS F:\AIUB\2025\Summer25\software\github> git clone https://github.com/sheikhnajmulhossain/aiub-lifeline.git
Cloning into 'aiub-lifeline'...
remote: Enumerating objects: 93, done.
remote: Counting objects: 100% (93/93), done.
remote: Compressing objects: 100% (75/75), done.
remote: Total 93 (delta 15), reused 89 (delta 11), pack-reused 0 (from 0)
Receiving objects: 100% (93/93), 20.03 MiB | 6.98 MiB/s, done.
Resolving deltas: 100% (15/15), done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibran
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout iftearbranch
branch 'iftearbranch' set up to track 'origin/iftearbranch'.
Switched to a new branch 'iftearbranch'
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git fetch origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch           iftearbranch -> FETCH_HEAD
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git pull origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch           iftearbranch -> FETCH_HEAD
Already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |
```

b. Creating new branch named “najmulbranch”

The screenshot shows a Windows desktop environment. In the center, there is a Windows PowerShell window titled "Windows PowerShell". The command history in the window is as follows:

```
Resolving deltas: 100% (15/15), done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout iftearbranch
branch 'iftearbranch' set up to track 'origin/iftearbranch'.
Switched to a new branch 'iftearbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git fetch origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch            iftearbranch       -> FETCH_HEAD
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git pull origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch            iftearbranch       -> FETCH_HEAD
Already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* iftearbranch
  main
  najmulbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout najmulbranch
Switched to branch 'najmulbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |
```

This screenshot shows another instance of a Windows PowerShell window with the same command history as the previous one, indicating the steps were repeated.

```
Resolving deltas: 100% (15/15), done.
PS F:\AIUB\2025\Summer25\software\github> cd aiub-lifeline
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout iftearbranch
branch 'iftearbranch' set up to track 'origin/iftearbranch'.
Switched to a new branch 'iftearbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git fetch origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch            iftearbranch       -> FETCH_HEAD
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git pull origin iftearbranch
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch            iftearbranch       -> FETCH_HEAD
Already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* iftearbranch
  main
  najmulbranch
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout najmulbranch
Switched to branch 'najmulbranch'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |
```

c. First commit and push

```

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout najmulbranch
Switched to branch 'najmulbranch'
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git add --all
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git commit -m "added PRD and UI design files"
[najmulbranch 8d99b38] added PRD and UI design files
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 PRD/PRD-AIUBLine-p3.xlsx
 create mode 100644 ui-design/aiub-lifeline-ui-design-p3.pdf
 create mode 100644 ui-design/aiub-lifeline-ui-design.docx
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git push origin najmulbranch
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 16 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 5.44 MiB | 3.19 MiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'najmulbranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/najmulbranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      najmulbranch -> najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |

```

```

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout najmulbranch
Switched to branch 'najmulbranch'
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git add --all
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git commit -m "added PRD and UI design files"
[najmulbranch 8d99b38] added PRD and UI design files
 3 files changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 PRD/PRD-AIUBLine-p3.xlsx
 create mode 100644 ui-design/aiub-lifeline-ui-design-p3.pdf
 create mode 100644 ui-design/aiub-lifeline-ui-design.docx
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git push origin najmulbranch
Enumerating objects: 8, done.
Counting objects: 100% (8/8), done.
Delta compression using up to 16 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (5/5), 5.44 MiB | 3.19 MiB/s, done.
Total 5 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
remote:
remote: Create a pull request for 'najmulbranch' on GitHub by visiting:
remote:   https://github.com/sheikhnajmulhossain/aiub-lifeline/pull/new/najmulbranch
remote:
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 * [new branch]      najmulbranch -> najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |

```

d. Second commit and push

```

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* najmulbranch
  iftearbranch
  main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
  remotes/origin/najmulbranch

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git add --all
warning: in the working copy of 'diagrams/SE[F] UseCase.drawio', LF will be replaced by CRLF the next time Git touches it
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git commit -m "Added Final Project Report, Use Case Diagram & Test Case"
[najmulbranch a0a4502] Added Final Project Report, Use Case Diagram & Test Case
  4 files changed, 463 insertions(+)
   create mode 100644 Final Project Report/SE - Final Project Report [OBE].docx
   create mode 100644 Final Project Report/SE - Final Project Report [OBE].pdf
   create mode 100644 diagrams/SE[F] UseCase.drawio
   create mode 100644 testcase/TestCase3.docx
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git push origin najmulbranch
Counting objects: 1000 (11/11), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 541.91 KiB | 38.71 MiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
  8d99b38..a0a4502  najmulbranch -> najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |

```



```

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git branch -a
* najmulbranch
  iftearbranch
  main
  remotes/origin/HEAD -> origin/main
  remotes/origin/iftearbranch
  remotes/origin/main
  remotes/origin/mashrafibranch
  remotes/origin/najmulbranch

PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git add --all
warning: in the working copy of 'diagrams/SE[F] UseCase.drawio', LF will be replaced by CRLF the next time Git touches it
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git commit -m "Added Final Project Report, Use Case Diagram & Test Case"
[najmulbranch a0a4502] Added Final Project Report, Use Case Diagram & Test Case
  4 files changed, 463 insertions(+)
   create mode 100644 Final Project Report/SE - Final Project Report [OBE].docx
   create mode 100644 Final Project Report/SE - Final Project Report [OBE].pdf
   create mode 100644 diagrams/SE[F] UseCase.drawio
   create mode 100644 testcase/TestCase3.docx
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git push origin najmulbranch
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 16 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (8/8), 541.91 KiB | 38.71 MiB/s, done.
Total 8 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
  8d99b38..a0a4502  najmulbranch -> najmulbranch
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |

```

e. Merging all the branches

The screenshot displays a Windows desktop environment with two separate windows side-by-side.

Top Window:

- File Explorer:** Shows the directory structure `F:\AIUB\2025\Summer25\software\github\aiub-lifeline`. Inside, there are folders for `diagrams`, `docs`, `Final Project Report`, and `PRD`, which further contain `resources`, `testcase`, and `ui-design`.
- Windows PowerShell:** Running the command `git checkout main`. The output shows the branch is up-to-date with 'origin/main'. Then it runs `git fetch origin` and `git pull origin main`. Finally, it runs `git merge --no-ff origin/iftearbranch -m "Merge branch 'iftearbranch' into main"`. The output indicates 15 files changed and 1817 insertions.

Bottom Window:

- File Explorer:** Shows the same directory structure as the top window.
- Windows PowerShell:** Running the command `git merge --no-ff origin/najmulbranch -m "Merge branch 'najmulbranch' into main"`. The output shows the branch is already up-to-date. It then runs `git push origin main`. The output indicates 7 files changed and 463 insertions.

```
Windows PowerShell
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git fetch origin
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git pull origin main
From https://github.com/sheikhnajmulhossain/aiub-lifeline
 * branch            main      -> FETCH_HEAD
Already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git merge --no-ff origin/iftearbranch -m "Merge branch 'iftearbranch' into main"
Merge made by the 'ort' strategy.
 PRD/PRD-AIUBLLine-p1.xlsx | Bin 0 -> 4319959 bytes
 PRD/PRD-AIUBLLine-p2.xlsx | Bin 0 -> 4319959 bytes
 diagrams/SE[F] Activity.drawio | 1104 ++++++-----+
 diagrams/SE[F] Class.drawio | 358 ++++++++
 diagrams/SE[F] DataFlow.drawio | 355 ++++++++
 docs/COCOMO_Model_Application.docx | Bin 0 -> 27924 bytes
 docs/Conclusion and future work.docx | Bin 0 -> 16088 bytes
 docs/Conclusion and future work.pdf | Bin 0 -> 79255 bytes
 docs/LOC_Estimation_Guide.docx | Bin 0 -> 27872 bytes
 docs/Testing.docx | Bin 0 -> 16816 bytes
 docs/Testing.pdf | Bin 0 -> 99214 bytes
 testcase/TestCase1.docx | Bin 0 -> 49109 bytes
 testcase/TestCase2.docx | Bin 0 -> 49109 bytes
 ui-design/aiub-lifeline-ui-design-p1.pdf | Bin 0 -> 2728141 bytes
 ui-design/aiub-lifeline-ui-design-p2.pdf | Bin 0 -> 2728141 bytes
15 files changed, 1817 insertions(+)
create mode 100644 PRD/PRD-AIUBLLine-p1.xlsx
create mode 100644 PRD/PRD-AIUBLLine-p2.xlsx
create mode 100644 diagrams/SE[F] Activity.drawio
```

```
Windows PowerShell
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git merge --no-ff origin/najmulbranch -m "Merge branch 'najmulbranch' into main"
already up to date.
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git merge --no-ff origin/najmulbranch -m "Merge branch 'najmulbranch' into main"
Merge made by the 'ort' strategy.
 .../SE - Final Project Report [OBE].docx | Bin 0 -> 243661 bytes
 .../SE - Final Project Report [OBE].pdf | Bin 0 -> 331555 bytes
 PRD/PRD-AIUBLLine-p3.xlsx | Bin 0 -> 4319959 bytes
 diagrams/SE[F] UseCase.drawio | 463 ++++++-----+
 testcase/TestCase3.docx | Bin 0 -> 49109 bytes
 ui-design/aiub-lifeline-ui-design-p3.pdf | Bin 0 -> 2728141 bytes
 ui-design/aiub-lifeline-ui-design.docx | Bin 0 -> 5955580 bytes
7 files changed, 463 insertions(+)
create mode 100644 Final Project Report/SE - Final Project Report [OBE].docx
create mode 100644 Final Project Report/SE - Final Project Report [OBE].pdf
create mode 100644 PRD/PRD-AIUBLLine-p3.xlsx
create mode 100644 diagrams/SE[F] UseCase.drawio
create mode 100644 testcase/TestCase3.docx
create mode 100644 ui-design/aiub-lifeline-ui-design-p3.pdf
create mode 100644 ui-design/aiub-lifeline-ui-design.docx
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> git push origin main
Enumerating objects: 2, done.
Counting objects: 100% (2/2), done.
Delta compression using up to 16 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (2/2), 456 bytes | 450.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/sheikhnajmulhossain/aiub-lifeline.git
 d1973ab..d2f4a38 main -> main
PS F:\AIUB\2025\Summer25\software\github\aiub-lifeline> |
```

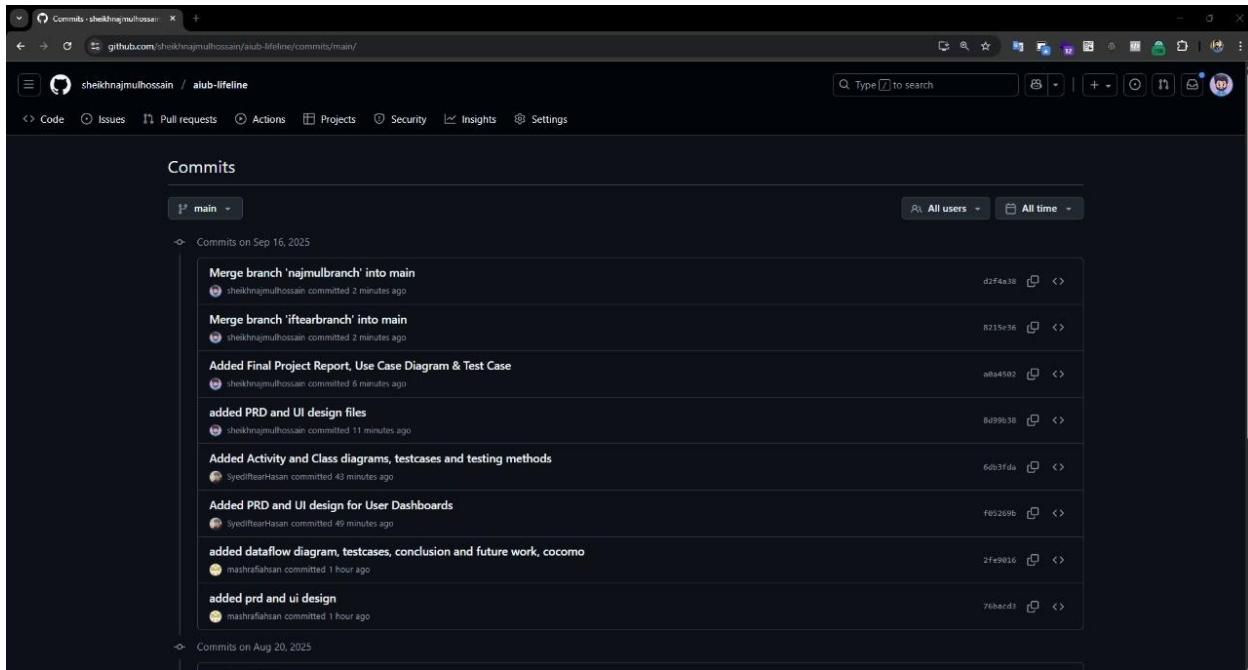
3. GitHub repo page and commit history

The screenshot shows the GitHub repository page for 'aiub-lifeline'. At the top, there's a navigation bar with links for Code, Issues, Pull requests, Actions, Projects, Security, Insights, and Settings. Below the navigation is a search bar and a 'Code' dropdown menu. The main content area displays a list of commits from the 'main' branch. Each commit includes the author, message, date, and time. On the right side, there are sections for About (with a note: 'No description, website, or topics provided.'), Activity (0 stars, 0 watching, 0 forks), Releases (No releases published), Packages (No packages published), and Contributors (sheikhnajmulhossain, SyedItearHasan, mashrafahsan). A 'README' section is also present.

The screenshot shows the commit history for the 'main' branch of the 'aiub-lifeline' repository. The commits are listed in chronological order, starting from the most recent at the top. The commits include:

- Added Activity and Class diagrams, testcases and testing methods (commit 6db3fde)
- Added PRD and UI design for User Dashboards (commit f8f226b)
- added dataflow diagram, testcases, conclusion and future work, cocomo (commit 2fe9016)
- added prd and ui design (commit 76bacc3)
- Commits on Aug 20, 2025:
 - prd modified (commit d1873ab)
 - prd and few UI images updated (commit 6480e8f)
 - logos and images updates (commit f36bbd7)
- Commits on Aug 19, 2025:
 - main logo uploaded (commit dff4fb4)
 - first commit (commit d3reaz09)

At the bottom of the page, there's a footer with links to GitHub's terms, privacy, security, status, community, docs, contact, and cookie policies, along with a 'Do not share my personal information' checkbox.



6. TESTING

A) How testing ensures quality and requirement conformance

Testing is done to make sure the system works as planned and meets all the requirements. Each feature we write down in the requirements is linked with one or more test cases, so if the tests pass, we know the feature is working properly. If they fail, it shows there is a gap or a mistake.

By doing unit tests and integration tests early, problems are caught close to their source, which saves time and avoids rework later. Regression testing helps us check that new updates do not break features that were already working fine. Having clear acceptance tests and criteria also makes it easy to know when a feature is really “done” and ready, so there is no confusion.

On top of that, testing is not just about functionality. We also test non-functional areas like performance, security, usability, and compatibility. These ensure the system is fast, safe, easy to use, and works properly across different devices and browsers.

B) Testing methods to be used later in the project

Functional testing

- Unit Testing: Checking small parts of the code like methods and functions to make sure they behave correctly.
- Integration Testing: Making sure different modules (like login, profile, posting features) work well together.

- System/End-to-End Testing: Running through real scenarios a student or teacher would follow to confirm the whole system works smoothly.
- Regression Testing: Re-running older test cases to be sure that new updates didn't break anything.
- User Acceptance Testing (UAT): Final checks by actual users to confirm the system meets their needs.

Non-functional testing

- Performance Testing: Checking how fast pages load and how the system handles multiple users.
- Security Testing: Making sure login, data handling, and file uploads are secure.
- Usability Testing: Seeing if users can easily finish tasks without confusion.
- Compatibility Testing: Ensuring the system works well across major browsers and devices.
- Accessibility Testing: Making sure the system is usable by everyone, including those with disabilities (e.g., keyboard navigation, proper contrast, alt text).

C) Test Cases

Project Name: AIUB Lifeline	Test Designed by: Sheikh Najmul Hossain
Test Case ID: TC_I	Test Designed date: 26/8/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Sheikh Najmul Hossain
Module Name: Login Session	Test Execution date: 30/08/2025
Test Title: Verify login with valid username and password	
Description: Test the website login page	
Precondition: The user has a valid username and password	
Dependencies:	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> 1. Go to the site 2. Enter username 3. Enter password 4. Click on Sign In button 	Email: admin@gmail.com Password: lopke_12#	The user should log in to the application	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Sheikh Najmul Hossain
Test Case ID: TC_2	Test Designed date: 27/8/2025
Test Priority (Low, Medium, High): High	Test Executed by: Sheikh Najmul Hossain
Module Name: Signup Session	Test Execution date: 31/08/2025
Test Title: Check if users can signup successfully	
Description: Test the website signup page	
Precondition: The user needs to have a valid email and password needs to meet criteria	

Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> 1. Go to the site 2. Enter First Name 3. Enter Last Name 4. Enter Account Type 5. Enter Email Address 6. Enter Password 7. Agree to Terms & Conditions 8. Click on Sign Up button 	First Name: Sheikh Last Name: Hossain Account Type: Student Email: najmul@gmail.com Password: Keqwp_3#	The user should signup successfully	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Mashrafi Ahsan
Test Case ID:TC_3	Test Designed date: 28/8/2025
Test Priority (Low, Medium, High): Low	Test Executed by: Mashrafi Ahsan

Module Name: Subscribe to Newsletter Session		Test Execution date: 01/09/2025		
Test Title: Check if user can subscribe to newsletter				
Description: Test the website signup page				
Precondition: The user needs to have a valid email				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Enter Email Address 3. Click on Subscribe Button	Email: najmul@gmail.com	The user should successfully be subscribed to the newsletter	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Mashrafi Ahsan
Test Case ID: TC_4	Test Designed date: 29/8/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Mashrafi Ahsan

Module Name: Password Reset Session		Test Execution date: 02/09/2025		
Test Title: Check if users can reset their password successfully				
Description: Test the Password Reset page				
Precondition: The email has to be already registered				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Enter Email 3. Click Submit	Email: najmul@gmail.com	The user should receive a password reset email	Resetting the password was unsuccessful, SMTP error.	Fail

Project Name: AIUB Lifeline	Test Designed by: Mashrafi Ahsan
Test Case ID: TC_5	Test Designed date: 30/8/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Mashrafi Ahsan

Module Name: Edit Profile Session		Test Execution date: 03/09/2025		
Test Title: Check if user can edit their profile				
Description: Test the website edit profile page				
Precondition: The user needs to have an active account logged in				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> 1. Go to the site 2. Login 3. Click on edit profile 4. Make the change, change phone number 5. Click on save 	Email: najmul@gmail.com Password: Keqwp_3# New Phone Number: 01879746427	Profile information changed successfully	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Syed Iftear Hasan
Test Case ID: TC_6	Test Designed date: 31/8/2025

Test Priority (Low, Medium, High): High		Test Executed by: Syed Iftear Hasan		
Module Name: Lost & Found Item Post Session		Test Execution date: 04/09/2025		
Test Title: Check if users can post lost & found items				
Description: Test the website lost & found page				
Precondition: The user needs to have an active account logged in & image needs to be png or jpg under 1MB				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Login 3. Go to Lost & Found area 4. Click on Post an item 5. Enter location 6. Enter item name 7. Enter description 8. Add image 9. Click on Publish button	Email: najmul@gmail.com Password: Keqwp_3# Location: DS0802 Item Name: Airpod Pro 2 Description: Found Airpod Pro 2 Image of the item	The user should be able to post lost items successfully.	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Sheikh Najmul Hossain			
Test Case ID: TC_7	Test Designed date: 01/9/2025			
Test Priority (Low, Medium, High): Medium	Test Executed by: Sheikh Najmul Hossain			
Module Name: Notes Post Session	Test Execution date: 05/09/2025			
Test Title: Check if users can post Notes items				
Description: Test the website Notes page				
Precondition: The user needs to have an active account logged in & image needs to be png or jpg under 1MB				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Login 3. Go to Notes Area 4. Click on Post Notes 5. Enter Course Name 6. Enter title 7. Enter description 8. Add image	Email: najmul@gmail.com Password: Keqwp_3# Course Name: Math6 Title: Math 6 Mid Notes Fall 24-25 Description: Here are math 6 notes Note pictures.	The user should be able to post notes successfully.	As expected	Pass

9. Click on Publish button				
----------------------------	--	--	--	--

Project Name: AIUB Lifeline	Test Designed by: Syed Iftear Hasan			
Test Case ID: TC_8	Test Designed date: 03/9/2025			
Test Priority (Low, Medium, High): Medium	Test Executed by: Syed Iftear Hasan			
Module Name: Q&A Session	Test Execution date: 06/09/2025			
Test Title: Check if users can post questions successfully				
Description: Test the website Q&A page				
Precondition: The user needs to have an active account logged in				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Log in 3. Go to Q&A area 4. Click on Ask a question	Email: najmul@gmail.com Password: Keqwp_3# Tags: ide Question title: IDE for Python. Question: What is	The user should successfully post questions.	As expected	Pass

5. Enter tags 6. Enter question title 7. Enter the question 8. Add image 9. Click on publish button	the best IDE for Python			
-----------------------------------------------------------------------------------------------------------------	-------------------------	--	--	--

Project Name: AIUB Lifeline	Test Designed by: Mashrafi Ahsan			
Test Case ID: TC_9	Test Designed date: 3/9/2025			
Test Priority (Low, Medium, High): Medium	Test Executed by: Mashrafi Ahsan			
Module Name: Blog comment Session	Test Execution date: 7/09/2025			
Test Title: Check if users can comment on blogs successfully				
Description: Test the website blog page				
Precondition: Must have a valid email				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)

<ol style="list-style-type: none"> 1. Go to the site 2. Go to a blog post 3. Enter Name 4. Enter Email Address 5. Type the comment 6. Click on post comment button 	<p>Name: Najmul Email: hossain@gmail.com</p> <p>Comment: Nice blog</p>	<p>The viewer should be able to post a comment</p>	404 error	Fail
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------	----------------------------------------------------	-----------	------

Project Name: AIUB Lifeline	Test Designed by: Sheikh Najmul Hossain
Test Case ID: TC_10	Test Designed date: 04/9/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Sheikh Najmul Hossain
Module Name: Profile Picture Upload Session	Test Execution date: 9/09/2025
Test Title: Check if users can upload and change profile pictures	
Description: Test if users can upload and change their profile pictures	
Precondition: The user needs to have an active account logged in & profile picture needs to meet criteria	

Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> 1. Go to the site 2. Login 3. Click on edit profile 4. Click on the profile picture icon 5. Choose a profile picture Click on save 	Email: najmul@gmail.com Password: Keqwp_3# Profile Picture	The user should be able to change their profile picture successfully	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Syed Iftear Hasan
Test Case ID:TC_11	Test Designed date: 8/9/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Syed Iftear Hasan
Module Name:TSF Upload Session	Test Execution date: 11/09/2025
Test Title: Check if faculty can upload TSF successfully	

Description: Test if faculty can upload TSF successfully				
Precondition: The faculty needs to have a valid email and password				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
<ol style="list-style-type: none"> 1. Go to the site 2. Log in as faculty 3. Go to edit profile 4. Upload TSF File 5. Click on the save button 	Email: faculty@gmail.com Password: Feaswp_2# Faculty TSF File	The faculty should be able to upload TSF successfully.	As expected	Pass

Project Name: AIUB Lifeline	Test Designed by: Syed Iftear Hasan
Test Case ID: TC_I2	Test Designed date: 9/9/2025
Test Priority (Low, Medium, High): Medium	Test Executed by: Syed Iftear Hasan

Module Name: Additional Email Adding Session	Test Execution date: 12/09/2025			
Test Title: Check if users can add additional email successfully				
Description: Test if users can add additional email successfully				
Precondition: The user needs to have an active account logged in as well as provide a valid additional email				
Dependencies:				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the site 2. Login 3. Click on edit profile 4. Click on Add Email Address 5. Click on Save	Email: najmul@gmail.com Password: Keqwp_3# Additional Email: sheikh@gmail.com	The user should be able to add additional email sucesfully	Error, user was not able to add more than one email.	Fail

7. SOFTWARE PRODUCT METRICS

Key packages / subsystems (high-level):

- **Auth** (User, Role, Session)
- **LostFound** (LostItem, FoundItem, ItemService)
- **Notes** (Note, Course, NoteService)
- **FacultyMaterials** (Material, Faculty, MaterialService)
- **TSF** (Schedule, Booking)

- **QA** (Question, Answer, Vote)
- **Common/Infrastructure** (Notification, Search, DB/Repo classes)

Roughly 42 classes in total.

Metric	Definition / Formula (short)	Example Observation & Approx. Value	Quality Interpretation
Size metrics			
Number of Classes (NC)	Total concrete + abstract classes	~42	Healthy for a mid-size web app.
Average Methods per Class (AMC)	Total methods ÷ NC	~7–8	Fine if <10.
Weighted Methods per Class (WMC)	Sum of cyclomatic complexities of methods in a class	Auth.User ≈ 18, Q&A.Question ≈ 25 (due to business rules)	>20 suggests refactor or split.
Complexity metrics			
Coupling Between Objects (CBO)	Count of other classes a class is coupled to	e.g., LostItemService ≈ 7, NoteService ≈ 6	Keep mean CBO < 10; refactor if higher.
Response For a Class (RFC)	# of methods that can be invoked in response to a message	AuthService ≈ 30	High RFC can hurt maintainability.
Cohesion metrics			
Lack of Cohesion of Methods (LCOM)	Measures disjoint method pairs; 0 = high cohesion	Most domain classes ≈ 0.2–0.3; some service classes ≈ 0.5	<0.5 is generally good.
Inheritance metrics			

Depth of Inheritance Tree (DIT)	Max ancestor levels	Usually 2 (BaseEntity → DomainClass)	<5 preferred; 2 is good.
Number of Children (NOC)	Immediate subclasses	BaseEntity ≈ 40; abstract controllers ≈ 6	Very high NOC may require stricter abstraction checks.
Coupling & Collaboration			
Coupling Between Components (CBC)	Inter-package dependency count	Example: Services ↔ Controllers ≈ 12	Lower is better for modularity.

Summary:

- **Size:** 42 classes, manageable.
- **Complexity:** Average WMC 12–15, maintainable; a few hotspots (controllers/services) need monitoring.
- **Coupling:** Mean CBO 6 , within acceptable bounds
- **Cohesion:** LCOM mostly <0.3 , good single-responsibility adherence.
- **Inheritance:** DIT ~2, shallow and healthy.

The predicted metrics indicate a well-structured, moderately complex design.

8. CONCLUSION AND FUTURE WORK

Conclusion

AIUB Lifeline attempts to solve the everyday challenges students face in managing academic and non-academic activities. The platform will play a key role in modernizing the education system for its features such as Lost & Found, Notes Sharing, Faculty TSF schedules, Authorized Academic Materials, and a versatile Q&A platform. The system aims to provide a unified and reliable digital ecosystem for AIUB students.

The chosen process model for this project is Scrum. Scrum is an agile framework that focuses on iterative development, adaptability, and continuous feedback. It is particularly well-suited for projects where some requirements are clear while others evolve over time, which matches the nature of AIUB Lifeline.

Overall, the project provides a structured, student-centric platform that can positively impact academic performance, time management, and community building within AIUB.

Future Work

While AIUB Lifeline lays a strong foundation, several opportunities exist for enhancement and expansion in future iterations:

1. Mobile Application Development

- Extend the platform to Android and iOS apps for improved accessibility and real-time notifications.

2. AI-Powered Features

- Integrate AI-driven recommendations for study materials, question-answer suggestions, and intelligent search for notes and resources.

3. Integration with University Systems

- Connect with AIUB's existing academic portals for seamless student experiences.

4. Scalability Beyond AIUB

- Adapting the system for other universities around the globe, creating a flexible, scalable solution that addresses common student support needs in higher education.

By pursuing these directions, AIUB Lifeline can evolve into a comprehensive digital companion for students, not only at AIUB but potentially across other academic institutions.