

IUTCONNECT

FOSTERING COLLABORATION
AND CONNECTIVITY

JUNE 18, 2025

PRESENTED BY The BYTERS



THE BYTERS



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PROJECT OVERVIEW

Students at the Islamic University of Technology (IUT) face difficulties in finding project partners, accessing research or job opportunities, and communicating with peers and faculty. There is no central platform to support collaboration, information sharing, or career development.

IUT-Connect aims to solve these problems by creating a web-based platform where students can form teams, share updates, apply for opportunities, and communicate easily. This will help build a stronger, more connected student community.



Lab-03 Recap

1. We clearly defined the main objectives our proposed product.
2. We conducted a feasibility analysis, assessed available tools, and platforms.
3. We also did an economic feasibility, evaluated the affordability and cost-effectiveness.
4. A cost-benefit analysis was carried out to compare the system's expected value against its development cost.
5. An initial budget estimate was proposed, outlining resource allocation and projected expenses.



Work Breakdown Structure

| Phase (Total Duration) | Sub-activities | Justification |
|------------------------------|---|--|
| Project Initiation (2 Weeks) | <ol style="list-style-type: none">1. Define objectives and scope2. Identify stakeholders (students, faculties)3. Form Team and assign roles | To clearly define the project's purpose, form the team, and ensure stakeholder alignment from the beginning. |
| Planning (2 Weeks) | <ol style="list-style-type: none">1. Develop project schedule2. Create strategy documentation3. Define platform requirements | To prepare realistic timelines, define constraints, asses risks, and create a roadmap. |
| Analysis (1 Week) | <ol style="list-style-type: none">1. Analyze feature priorities2. Define user roles and permissions3. Create use cases | To determine core functionality, get user needs, and avoid shelfware. |



Work Breakdown Structure (CONTD.)

| Phase(Total Duration) | Sub-activities(Duration) | Justification |
|----------------------------------|--|--|
| Design (2.5 Weeks) | <ol style="list-style-type: none">1. Create wireframe and UI mockups2. Design database schemas | To visually and structurally map the system before coding starts - ensuring a smooth development process. |
| Development (7 Weeks) | <ol style="list-style-type: none">1. Implement frontend (React, React Native)2. Develop backend3. Implement User Auth4. Implement proposed features | To transform the design into a functional platform, integrating frontend and backend features into a cohesive functional platform. |
| Testing and deployment (3 Weeks) | <ol style="list-style-type: none">1. Conduct extensive testing with volunteers2. Fix bugs and polish UI/UX3. Deploy final version to servers | To validate the product's correctness, usability, and readiness for launch, getting alpha tester recommendations for real world use cases. |



Work Breakdown Structure (CONTD.)

| Phase | Sub-activities | Justification |
|-------------|---|--|
| Maintenance | <ol style="list-style-type: none">1. Collect feedback and monitor usage2. Update features based on user demand3. Patch bugs and security issues | To keep the platform up-to-date, secure, and responsive to feedback; address future needs and resolve issues as users actively engage with the platform. |



Gantt Chart

Project Phases

Maintenance

Testing & Deployment

Development

Design

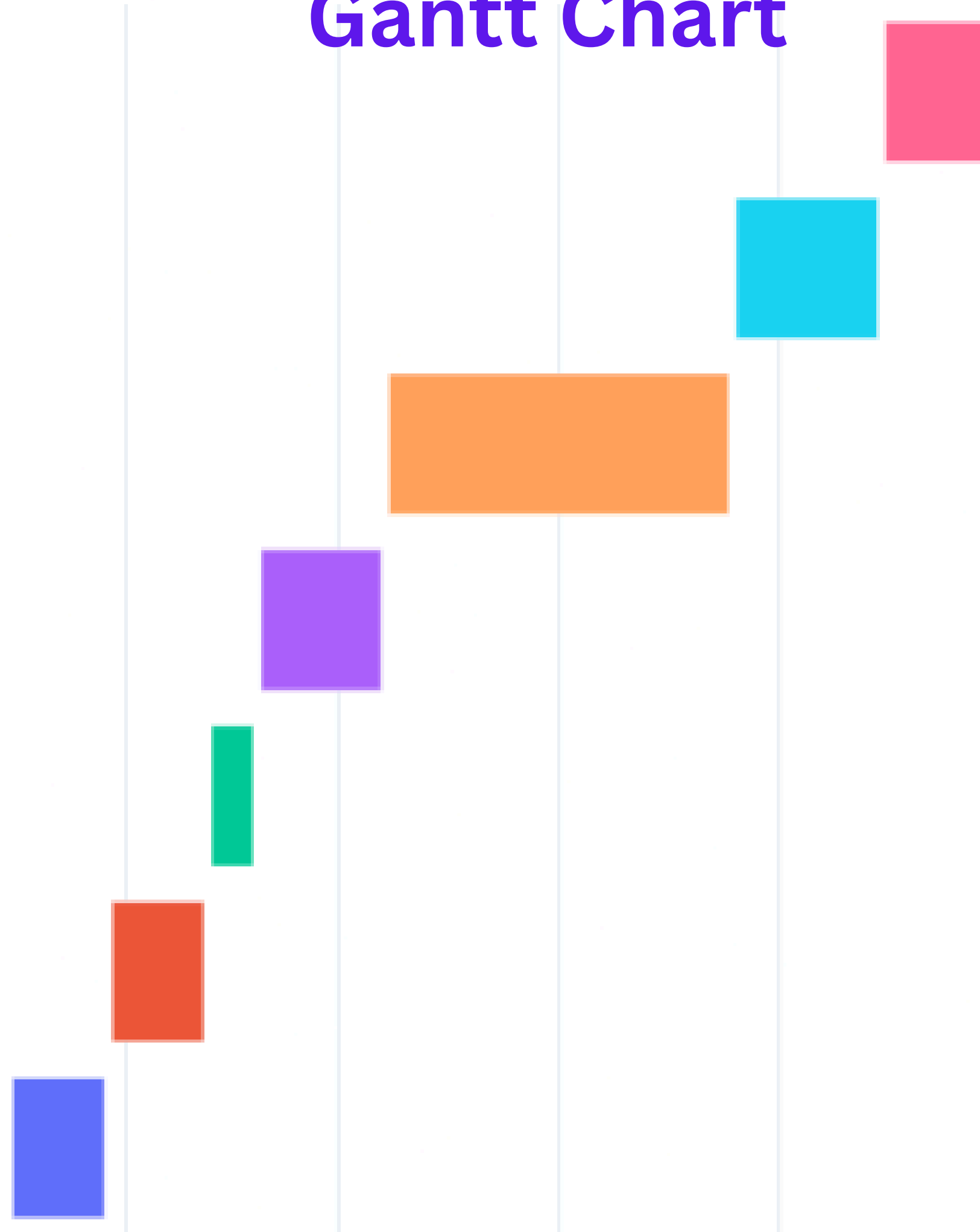
Analysis

Planning

Project Initiation

Task

- Project Initiation
- Planning
- Analysis
- Design
- Development
- Testing & Deployment
- Maintenance





Key Skills And Roles

- **Programmer** Builds frontend (HTML, CSS, JS, REACT) and backend (Node js, Express). Implements tracking, booking, and login features.
- **Database Designer** Designs SQL Databases for users, posts, comments, etc. Ensures fast queries, security of private data and integration with backend.
- **UI/UX Designer** Creates mobile-friendly, intuitive UI and UX for the platform. Ensures key features are visible and highlighted.
- **Tester** Tests all the features extensively. Does multiple testing to ensure that no feature contains any bugs, checks for edge cases and real life workflows.
- **Deployment & Maintenance Engineer** Sets up hosting platform, handles system updates, ensures long-term stability.



Project Charter

Project Name: IUT-Connect

Date: June 18, 2025

Project manager: Byters

Project sponsor: Islamic University of Technology

Purpose: To bridge the communication gap between members of IUT.

Description: IUT-Connect is an all-in-one platform for the members of IUT.

Objective: To make it easier for students to know important announcements, connect with peers and professors, get real world opportunities easily

Project specification:

Budget: 100,000 Tk.

Deliverables: IUT-Connect platform and source code

In scope:

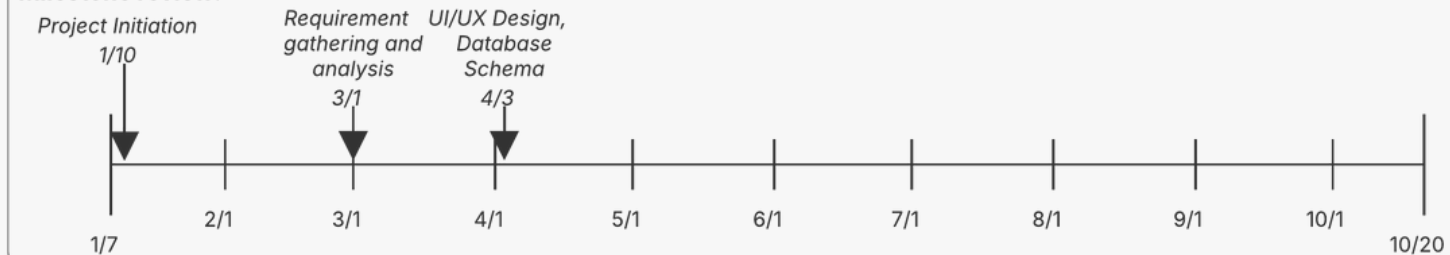
1. User registration and profile systems
2. Functional modules: forums, marketplaces, etc.
3. Hosting and deployment.

Project risk:

Out of scope:

1. Integration of IUT Database.
2. AI features

Milestone review:

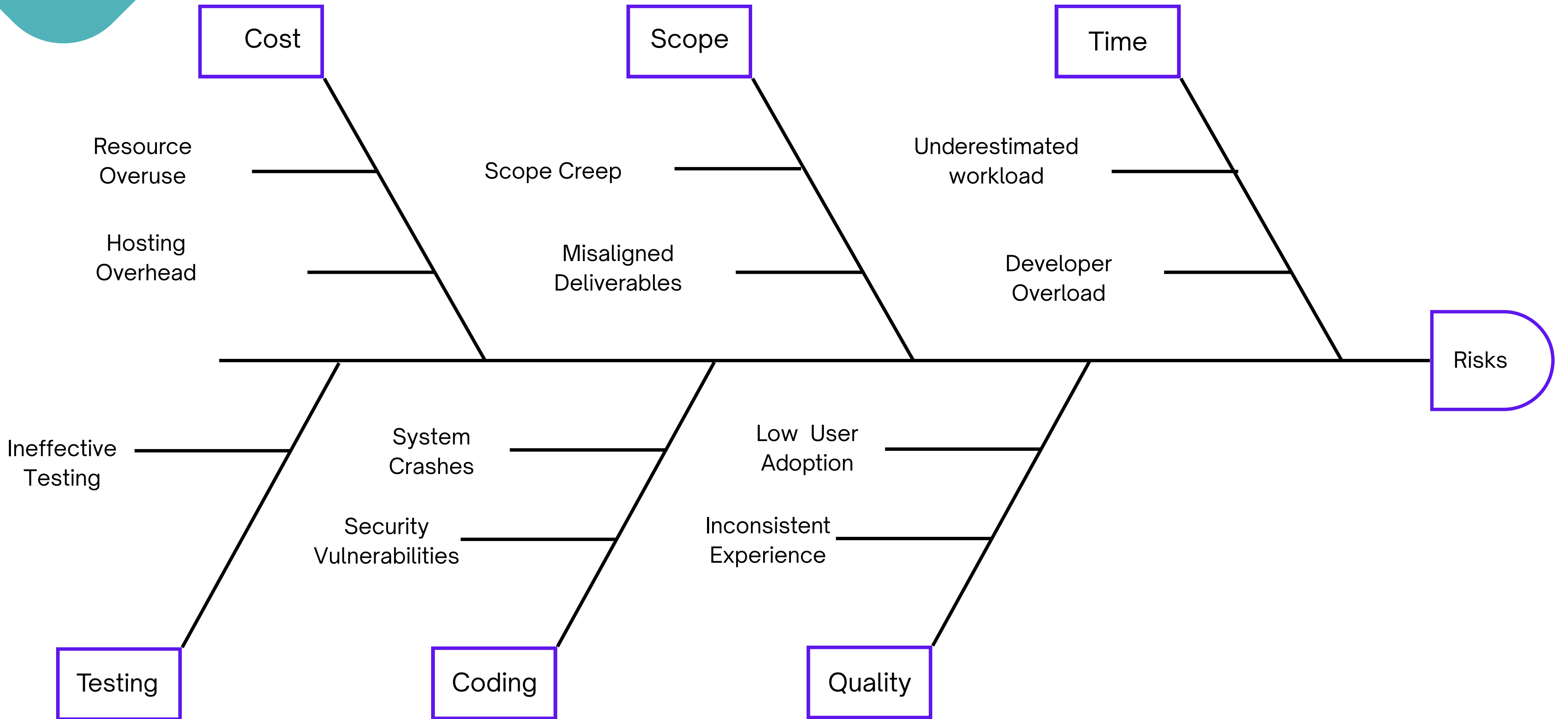


Key stakeholders

IUT Students, Faculty members.

Roles and Responsibilities

1. Frontend Engineer.
2. Backend Engineer.
3. Database Developer
4. UI/UX Designer
5. Tester





THANK YOU

ANY QUESTIONS

