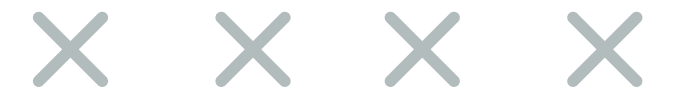


Team System322

IUTian Threads

Lab 4: Project Management

CSE 4408: System Analysis & Design Lab
June 19, 2025



THE TEAM



**Sadman Shaharier
Mahim
220041133**



**Alfi Shahrin
220041153**



**Nayeemul
Hasan Prince
220041125**



Project Overview



- IUTian Threads is a university-specific, forum-style platform designed for students to share concerns, ask questions, and engage in structured discussions.
- Addresses the current lack of a centralized and effectively moderated issue discussion system at IUT and IUT-OSW.

Lab 3 - Recap

- Outlined objectives, issues, system requirements & constraints.
- Assessed feasibility using TEO
- Justified project selection using management backing, timing, strategic alignment, practicality, and investment value.
- Prepared a cost-benefit breakdown, drafted a high-level budget: \$3,400.

Initial Project Plan & Schedule

Work Breakdown Structure

Chosen Methodology- Agile with O-O principles

Exploration

(2 weeks)

- Defining problem scope, timeline and team responsibilities
- Identifying stakeholders and goals
- Team formation
- Perform feasibility study with TEO
- Conduct Interviews with students and OSW
- Draft initial requirements

Planning

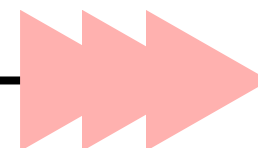
(1 weeks)

- Choosing tools, frameworks and tech stacks
- Breaking down project into sprints
- Assign team roles and responsibilities

Design

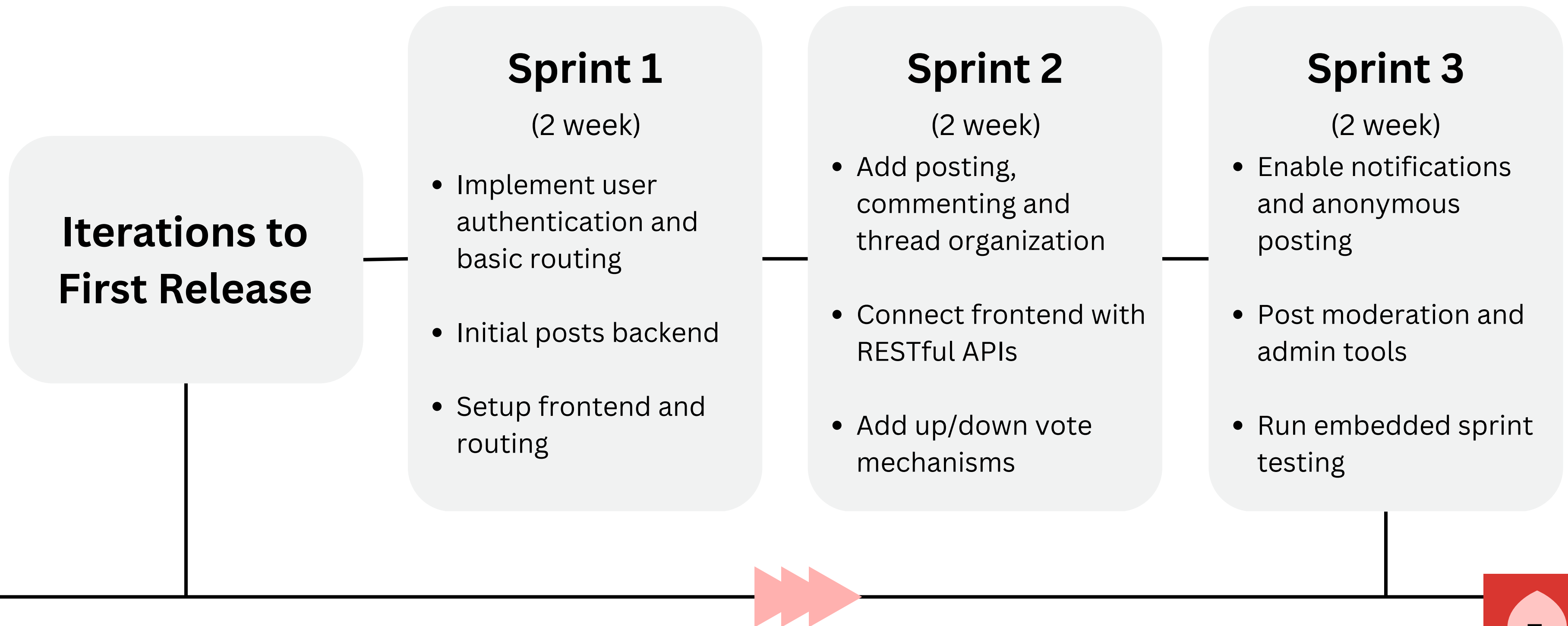
(2 weeks)

- Create UI wireframes for web and mobile views
- Design the database schema
- Define navigation flow and forum structure
- Design API endpoints



Work Breakdown Structure

continued



Work Breakdown Structure

continued

Productionizing

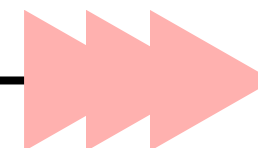
(1 weeks)

- Frontend and backend integration testing
- Subdomain creation under IUT official domain
- Live Hosting on IUT servers using VPS Infrastructure
- Integration testing between frontend and backend
- UAT with a small group of beta-testers
- Bug fix upon feedback
- Prepare documentation

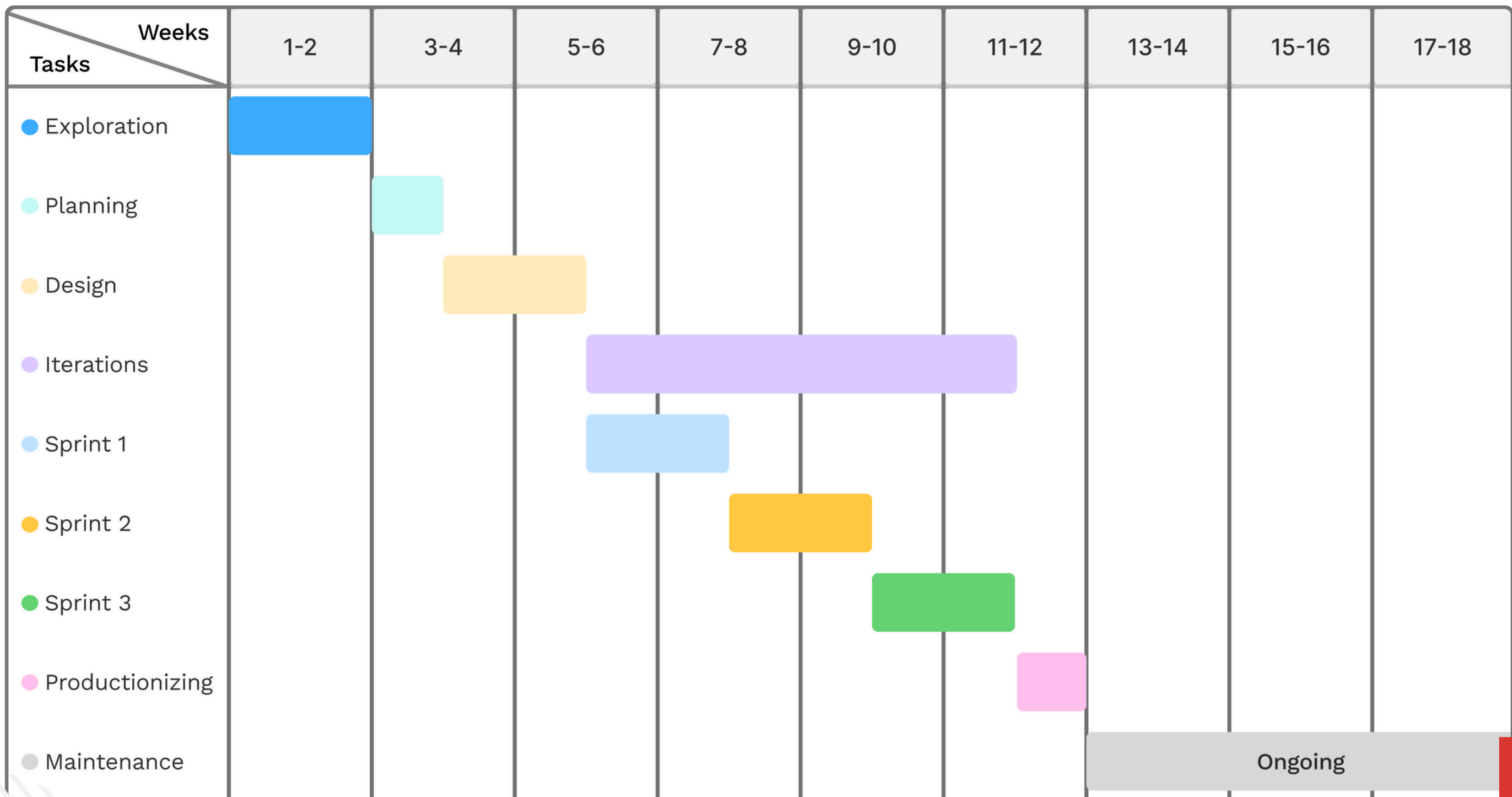
Maintenance

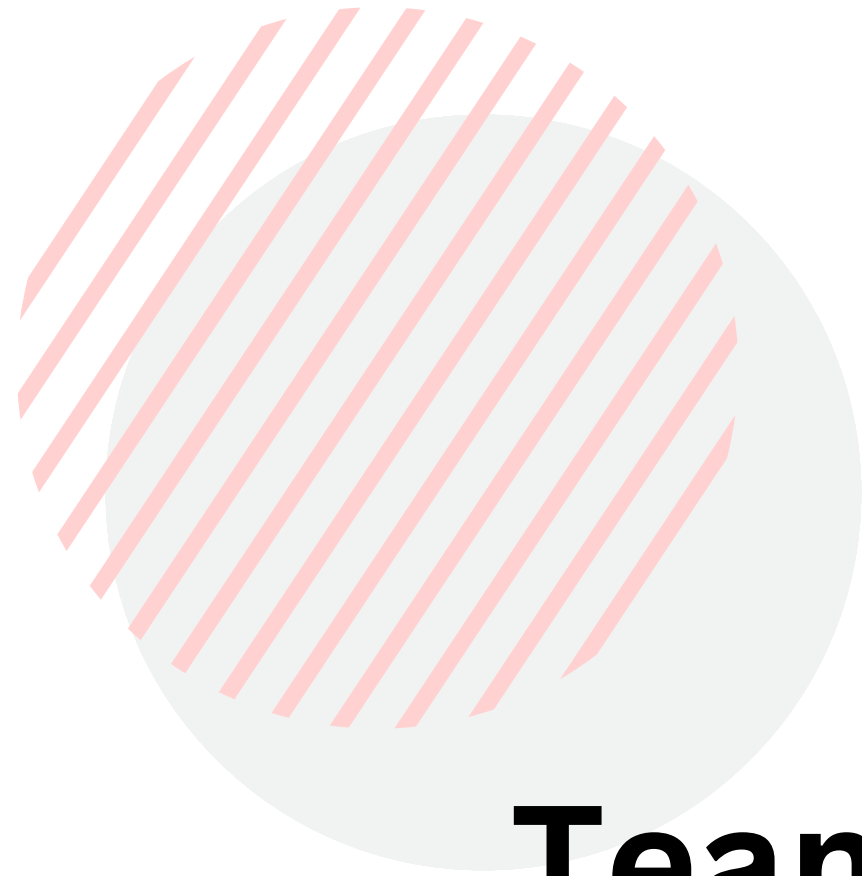
(ongoing)

- Regular feature updates based on feedback
- Monitor server uptime and performance
- Maintain support page (FAQ)
- Handle content reporting
- Periodic usability reviews and system check-ins

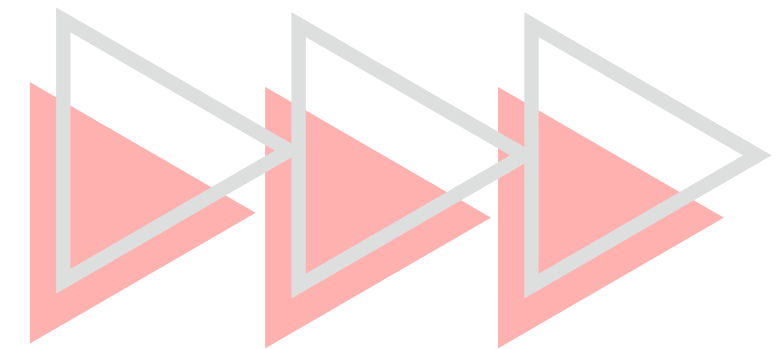


Gantt Chart





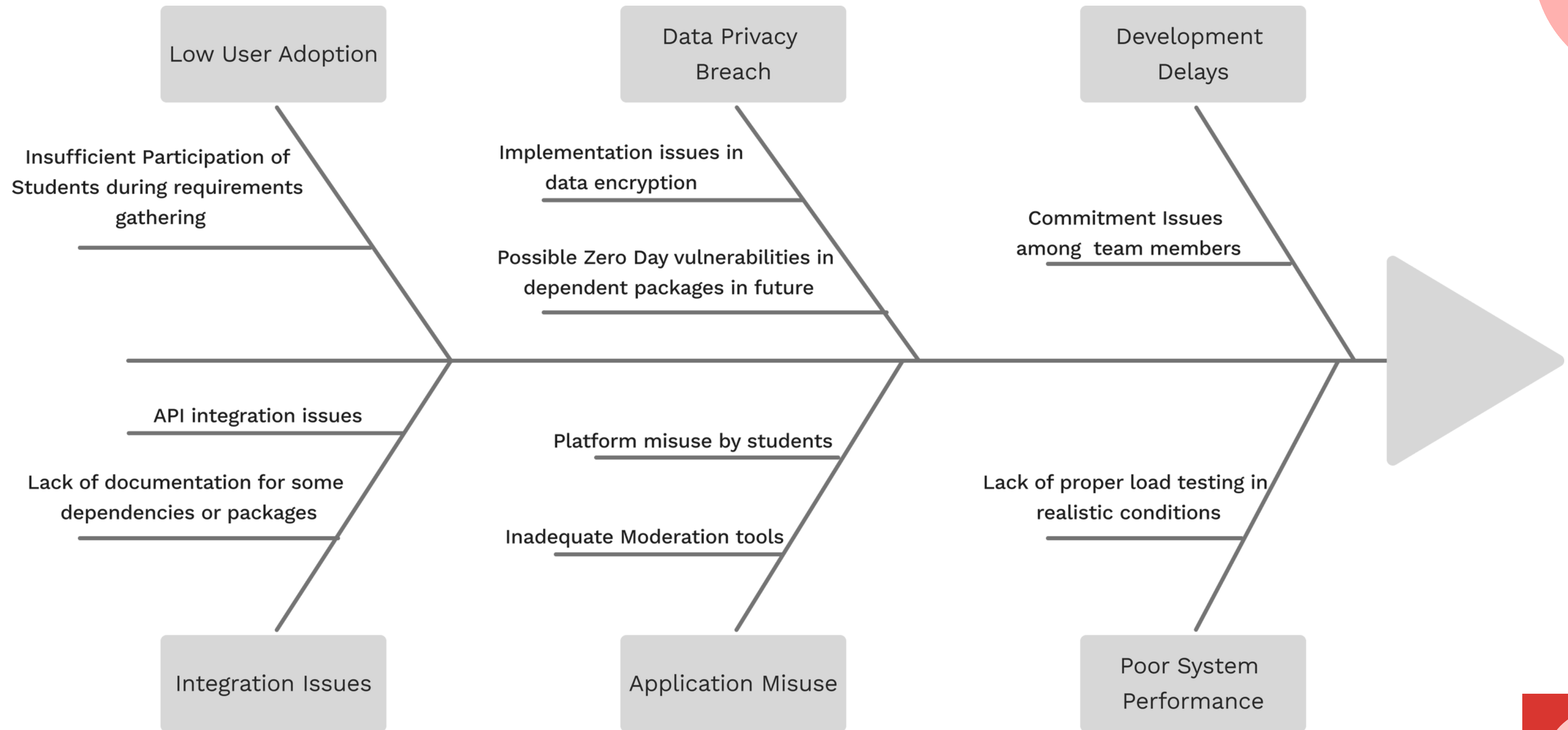
Team Composition and Risks

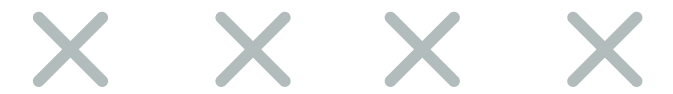


Key Skills and Responsibilities

Role	Skills	Focused areas
Project Lead	Requirement gathering from stakeholders, user needs analysis and workflow visualization	Planning, Analysis
Programmer	MERN Stack (React, Express, Node js) , Git, REST and OAuth API etc	Development, Testing
Database Specialist	MongoDB, schema design, ER modeling	Development, DB Design
UI/UX Designer	Figma, HTML/CSS/JS, usability testing	Design
Domain Expert	Familiarity with university structure, OSW protocols.	Testing, Analysis

Risks through Fishbone Diagram





Project Charter & Proposal Outline



Project Charter

Objective

- Establish a centralized, university-specific forum to enhance student-administration communication



In-scope:

- User Authentication
- Forum based issue reporting
- Thread Management
- Post and comment system
- Voting mechanism
- Notifications
- Moderation tools



Out-of-scope:

- Private Messaging (DMs)
- No Monetization/Ads
- Free from unvetted AI-generated content

Project Charter

Methods

- Development Methodology: Agile with Object-Oriented principles
- Technology: Use of MERN stack and Flutter

Participants

Project Team assembled
for the analysis, design
and development

Stakeholders:

- General Students
- University Faculty
- Alumni
- University Admins

Project Charter

Deliverables

- Full stack web platform called IUTian Threads
- User guide, deployment manual
- System documentation including APIs
- Testing Reports

Evaluation Criteria

- System functionality & completeness
- Usability and user feedback
- Alignment with project goals

Timeline



4~5 months, 1-2 Buffer weeks

Project Charter

Training Plan

- User guides for students and moderators
- Live demonstration sessions
- Support page in FAQ format
- Admin/moderator onboarding session

Maintenance

- Will remain continuous after deployment, following Agile approach
- Designated moderators to handle content issues
- Server performance monitoring and periodic system checks

Project Proposal Outline

Executive Summary

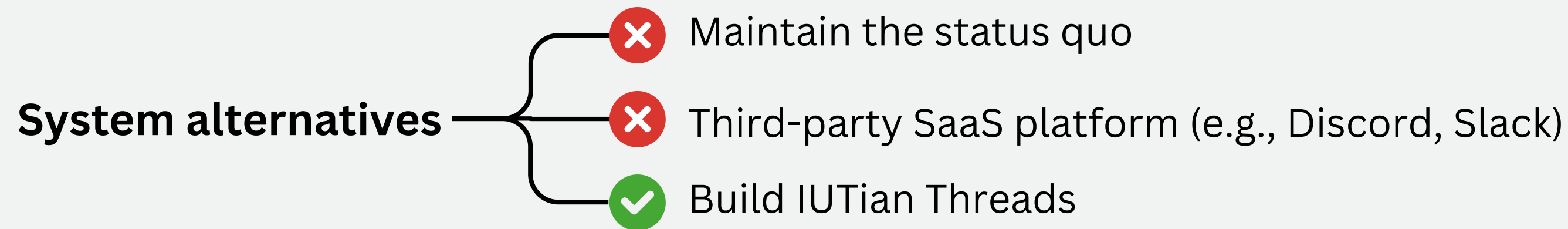
- Who: Students at (IUT) and the Office of Students' Welfare (OSW)
- What: A university-hosted forum platform (IUTian Threads) for structured student-administration communication
- Why: Current platforms are distraction-prone and ineffective for issue reporting, especially in times of crisis (e.g., recent student protests)
- How: The system will be built in-house using IUT's infrastructure

Final Recommendation: Development and pilot deployment of IUTian Threads

Project Proposal Outline

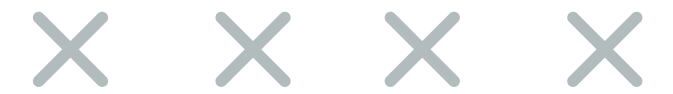
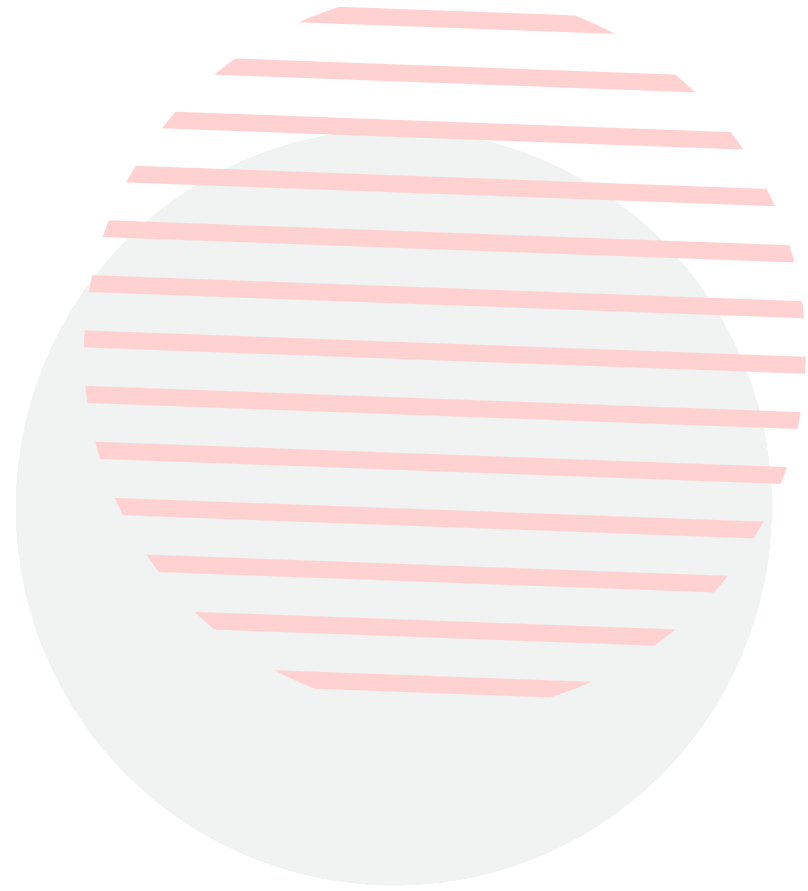
Outline of Systems Study

Used issue observation, informal student feedback, and cultural analysis from Lab 2 to identify pain points in the current communication process



Analyst Recommendation and Summary

Recommend developing IUTian Threads—a secure, IUT-hosted platform that addresses key communication gaps with structured, moderated dialogue.



Thank you!

We are open for Q&A

