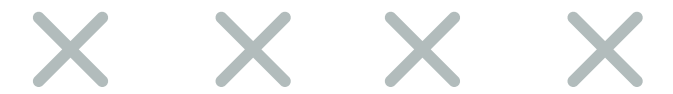


Team System322

IUTian Threads

A forum for IUTians

CSE 4408: System Analysis & Design Lab
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TEAM MEMBERS



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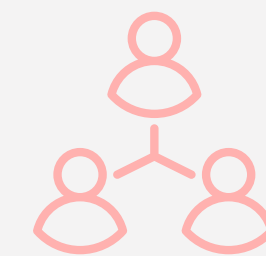
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Introduction

Why IUTian Threads?

IUTians Threads is a collective space for IUTians to share and discuss current issues with reddit like Q&A Forums and Threads.



Preliminary Organizational Assessment

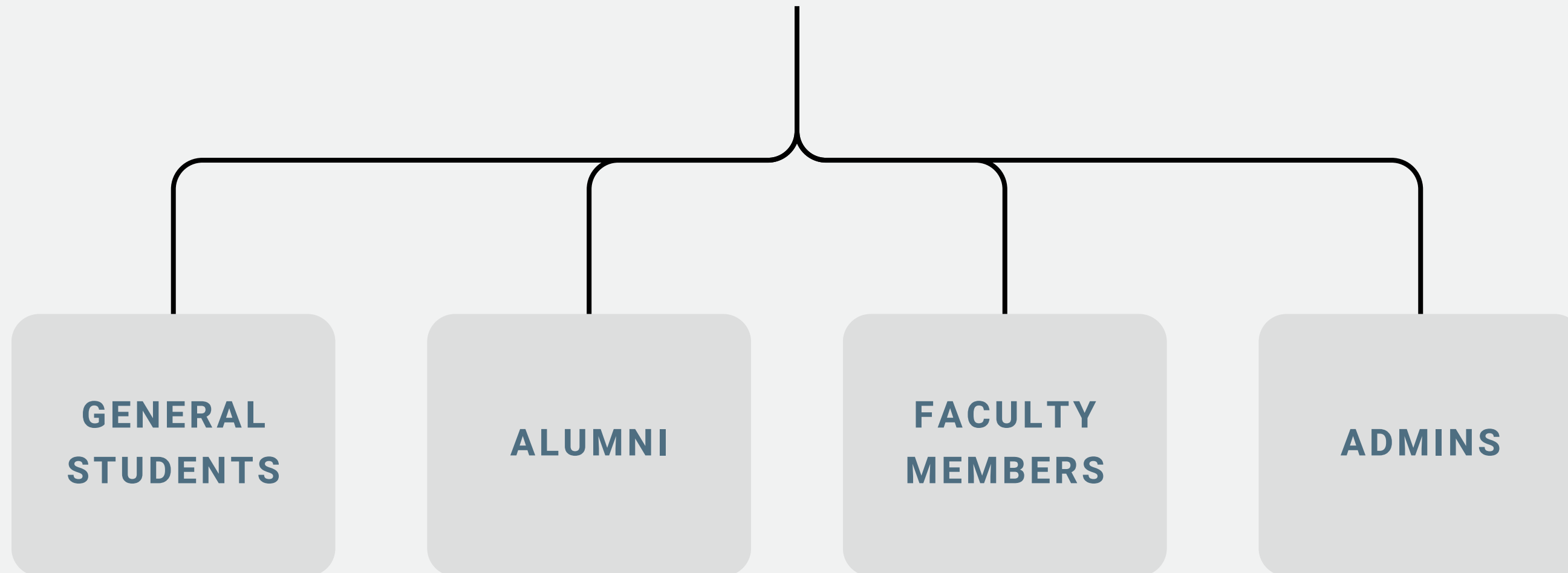
Chosen organization: IUT Organization of Student Welfare(OSW)

Core Mission & High Level Goals:

IUT-OSW aims to support and promote students' overall well-being at IUT.

- Serves as a bridge between students and the university administration
- Fosters a favorable academic environment within the university

Stakeholders



The Organization's Challenges

- Communication gap
- Communication structure frequently obstructs the direct flow of student issues to university leadership.
- Unofficial Facebook groups like PRESENT IUTians and All IUTians do not suffice the needs
- Existing website does not offer any scope for being vocal or sharing opinions from the students

Why System Analysis?

Limitations of current platforms:

- Existing website does not offer anything
- Posts often buried by Facebook's algorithm
- Lack of Categorization
- Repetition of Questions
- Limited Moderation and UI
- Comment-based discussion
- Distracts users from relevant topics

How to Improve:

Design and develop a university-specific Forum-style platform which will be tailored to IUT's academic and community needs

System Analyst's role:

No current system analyst exists. Having an analyst can:

- **Requirements & Design:** Ensures the forum meets actual needs with a well-defined technical blueprint.
- **Efficient Development:** Facilitates clear communication and manages scope for a smooth, effective build.
- **User-Focused & Sustainable:** Optimizes user experience and plans for long-term functionality.

Vital Qualities in Analyst:

- Strong communication and stakeholder empathy
- Solid grasps of user experience (UX) design
- Problem Solving and Critical thinking
- Adaptability to student culture and workflow

System Analyst Role Mapping

- **Consultant:** Focuses on strategic recommendations and high-level digitization insights.
- **Supporting Expert:** Concentrates on technical guidance and handling documentation.
- **Agent of Change:** Drives system adoption, manages change, and trains users for a smooth transition.

Most Relevant Role: **Agent of Change**

- lead shift from facebook to forum
- ensures smooth user adoption of the new system

However, **Supporting Expert** will provide technical guidance and maintenance in the long term



Evaluation and Selection of Development Methodology




Methodology	Strengths	Weakness
SDLC	<ul style="list-style-type: none">• Well-defined structure and precise planning• Strong quality assurance and risk mitigation	<ul style="list-style-type: none">• Slower initial deployment• Inflexible when responding to sudden changes
Agile	<ul style="list-style-type: none">• Quickly adapts to evolving requirements• Fast development iterations• Ongoing feedback ensures user satisfaction	<ul style="list-style-type: none">• Documentation may be incomplete or inconsistent• Integrating multiple subsystems can be challenging
O-O	<ul style="list-style-type: none">• Promotes reusable and modular code design• Simplifies future scaling and enhancements	<ul style="list-style-type: none">• Requires significant time investment at the start• Less effective for rapid iterative development



Ideal Methodology with Justification

Chosen Method: Agile Approach with Object Oriented principles

- **Flexibility and Adaptability**
 - **Faster Delivery and Early Adoption**
 - **Better Risk Management through Iterations**
 - **Collaboration and Communication**
 - **Feedback driven development**
- 

Why not SDLC ?

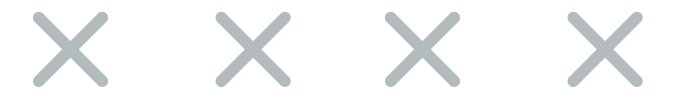
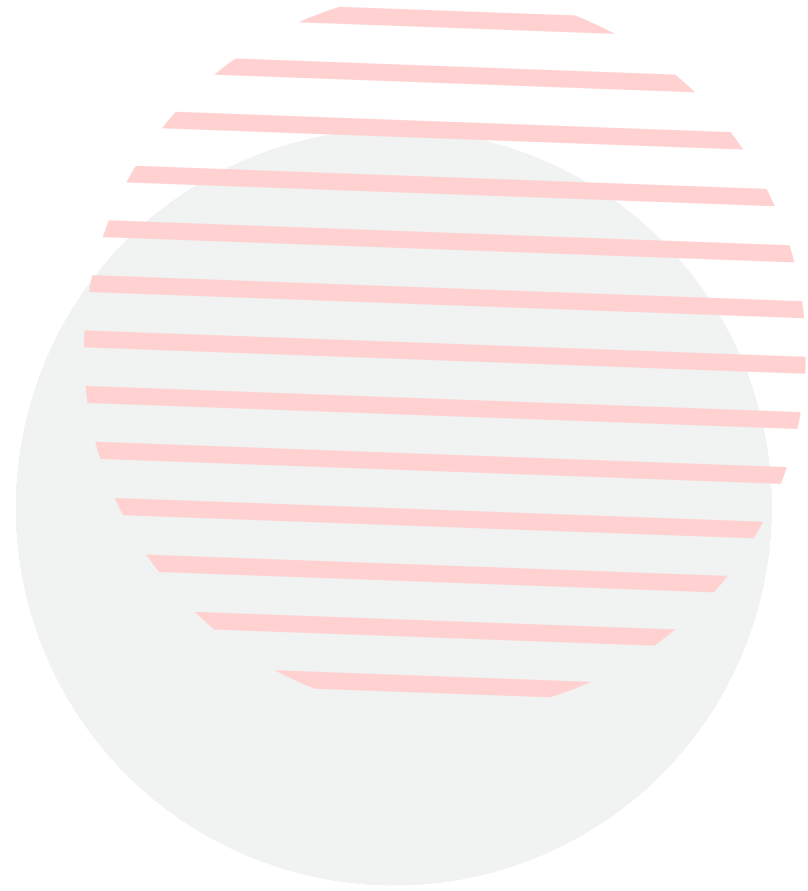
- *Too rigid, not ideal for evolving requirements of a dynamic platform*

Why not standalone O-O ?

- *Good for design, not a full methodology - Supportive only*
- *Lacks own workflow and management*

Conclusions

- IUTian Threads ensures a smooth communication among all stakeholders.
- Current students are the main stakeholders.
- Communication gap is the major challenge in the existing system.
- An Agent of Change is the most crucial system analyst for leading the shift to a new platform.
- Agile stands out as the optimal choice for its flexibility and continuous engagement of users.



Thank you!

We are open for Q&A

