

ClubHub

Integrated Collaboration and Club Management Platform

Epoch Innovators

Team Members: Aarush and Tanay

Indian Institute of Information Technology

November 19, 2025

Outline

- 1 Problem Statement
- 2 Motivation
- 3 Proposed Solution
- 4 Value Proposition
- 5 Feasibility
- 6 Scope & Impact
- 7 Differentiation
- 8 Risk Assessment
- 9 Timeline
- 10 Conclusion

Problem Statement

Current Challenges

Clubs within the institute face significant operational inefficiencies:

- **Fragmented Communication:** Announcements scattered across multiple platforms
- **Manual Processes:** Attendance tracking lacks automation
- **Unstructured Coordination:** No unified system for task management
- **Documentation Gaps:** Project records dispersed and difficult to access

Impact

Communication gaps, inconsistent records, and reduced operational efficiency

Our Experience

- Active club participants
- Witnessed operational friction firsthand
- Identified critical pain points

Our Vision

- Unified digital environment
- Enhanced transparency
- Sustainable solution
- Scalable framework

*"Build a cohesive platform
that reflects actual club needs"*

Proposed Solution: ClubHub

Five Integrated Modules

Communication & Updates

- **Announcements Module**
- **Group-Based Chat**

Documentation

- **Project Archive**
- **Results & History**

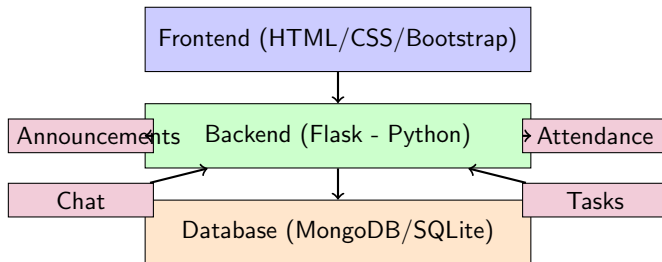
Operational Tools

- **Attendance Management**
- **Task Assignment & Tracking**

Technology Stack

- Backend: **Flask (Python)**
- Database: **MongoDB/SQLite**
- Frontend:
HTML/CSS/Bootstrap

System Architecture



Return on Investment (ROI)

Direct Benefits

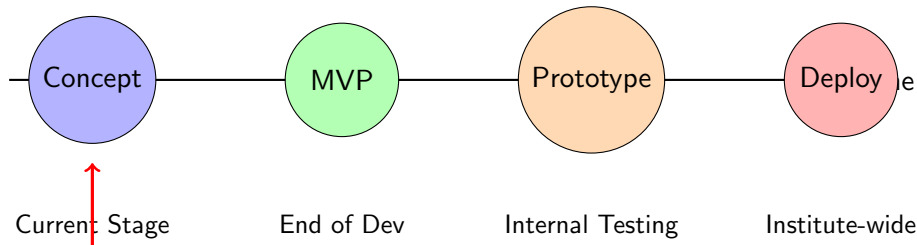
- Centralized system for all club operations
- Eliminates dependency on fragmented tools (WhatsApp, Google Sheets, Drive)
- Enhanced accountability and productivity

Long-Term Value

- Reusable framework across academic cohorts
- Scalable to multiple clubs and organizations
- Continuous value generation over multiple years

Time invested today = Value for years ahead

Market Readiness



Feasibility Analysis

Technical Capabilities

- Python & Flask proficiency
- Database design experience
- UI/UX fundamentals
- Version control (Git)

✓ **Well within team capability**

Development Strategy

- Modular architecture
- Incremental development
- Core features prioritized
- Agile methodology

✓ **Manageable timeline**

Development Approach

Focus on essential modules first, then iterate and expand based on feedback

Scope and Impact

Primary Beneficiaries

- Club coordinators and leadership
- Project leaders and team members
- All active club participants

Key Impacts

- Efficiency** Streamlined communication and coordination
- Structure** Organized project execution and documentation
- Scalability** Easily extends to multiple clubs
- Culture** Promotes professionalism and accountability

Potential: Institute-wide student organization management system

What Makes Us Unique?

1 Purpose-Built Design

- Tailored specifically for technical and academic clubs
- Not a generic project management tool

2 Integrated Functionality

- Combines communication, attendance, and task management
- Single cohesive platform

3 Learning-Oriented

- Demonstrates core Python development skills
- Educational value for team members

4 Highly Customizable

- Modular architecture enables easy expansion
- No major redesign needed for new features

Risk Factors and Mitigation

Risk	Mitigation Strategy
Time constraints	Prioritize core features for MVP
Real-time chat scalability	Optimize later; use polling initially
User adoption	Focus on intuitive UI/UX design
Multi-club expansion	Design modular database schema

Risk Management Approach

Identify early, plan proactively, iterate based on feedback

Implementation Timeline

Phase	Duration	Deliverables
Planning & Design	1 week	Architecture, UI mockups
Core Development	3 weeks	Announcements, Chat, Attendance
Task Management	1 week	Task assignment & tracking
Integration & Testing	1 week	Bug fixes, optimization
Documentation	0.5 weeks	User guide, technical docs
Deployment	0.5 weeks	MVP launch

Total Timeline: 7 weeks (Target: Early January 2026)

Conclusion

Project Summary

ClubHub aims to transform club management through:

- Unified digital platform
- Integrated communication and coordination tools
- Sustainable, scalable architecture

Expected Outcomes

- Improved operational efficiency
- Enhanced member engagement
- Long-term institutional value
- Demonstration of technical competence

Building Today for Tomorrow's Clubs

Thank You

Team: Epoch Innovators

Contact:

Aarush Pathak - aarushpathak.a25@iiits.in

Tanay Ranjan - tanay.r25@iiits.in