

REDBRICK CLASSES

By Techmaniacs

CSE 4408 - Systems Analysis and Design

Lab 4 Project Management



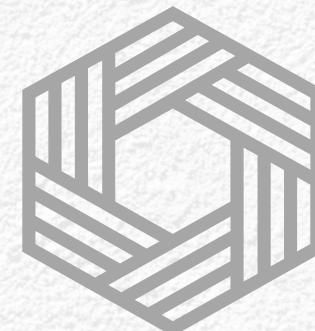
Team



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Project Overview

Redbrick Classes is an automated classroom booking system for IUT

- **Stakeholder:** Student, Faculty, Admin
- **Role of Analyst:** Agent of Change
- **Development method:** Agile

Progress:

- **Showcasing broad overview of our system architecture**
- **Defined boundaries and scope**
- **Analysis of organizational management and culture**



Lab 3 Summary – Key Takeaways

- Our system is technically feasible, using familiar, accessible tools and frameworks
- Costs are minimal, while the time savings and long-term benefits are significant
- Users are ready for adoption, especially with light training and support
- The project offers a strong return on investment (ROI)
- Clear alignment with IUT's academic and operational goals



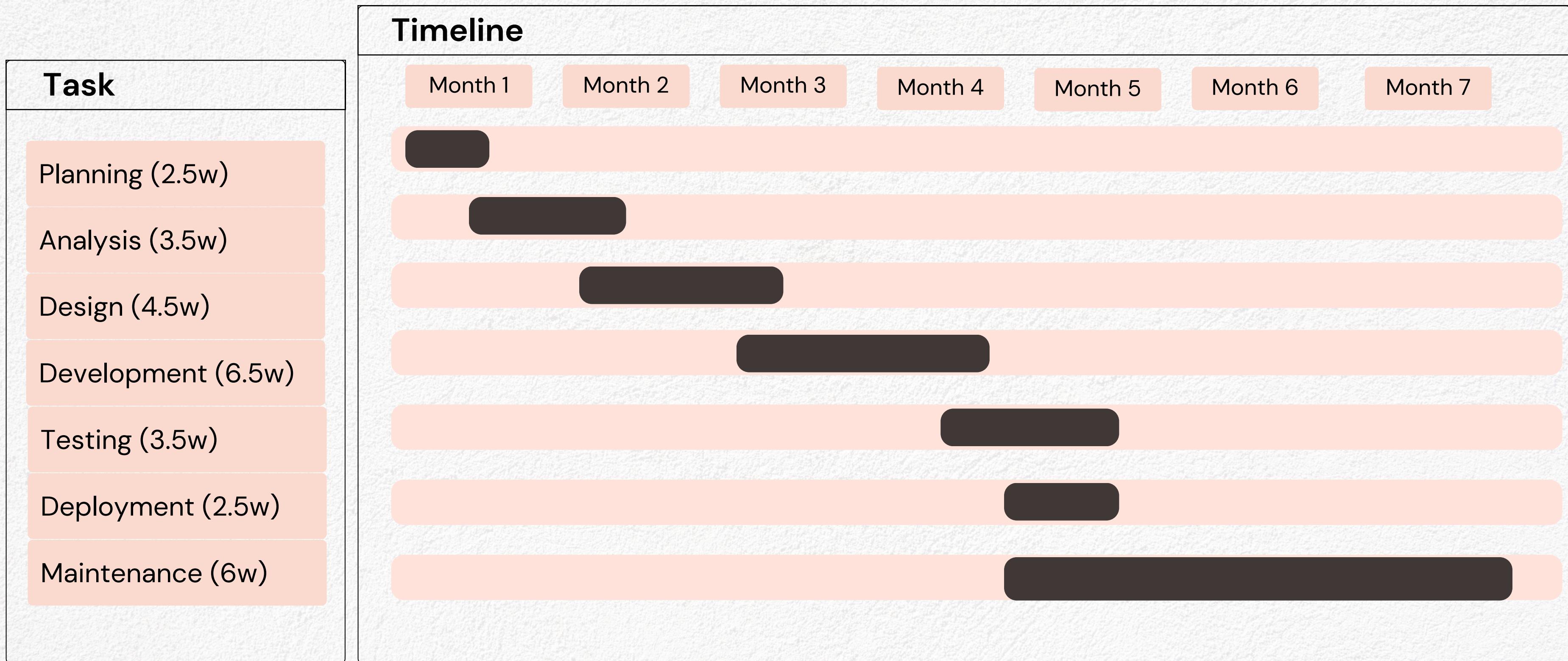
Work Breakdown Structure (WBS)

Phase (Duration)	Key Sub-Activities	Purpose
1. Planning (2.5w)	Stakeholder alignment Feasibility study	Define scope, constraints, and goals Validate technical/financial viability
2. Analysis (3.5w)	Requirements docs Process modeling	Capture user/system needs Map booking/approval workflows
3. Design (4.5w)	UI/UX mockups Database + API design	Design interfaces for all user roles Finalize data structure and endpoints
4. Development (6.5w)	Frontend Backend + APIs	Build booking portal and admin views Implement logic and integrations

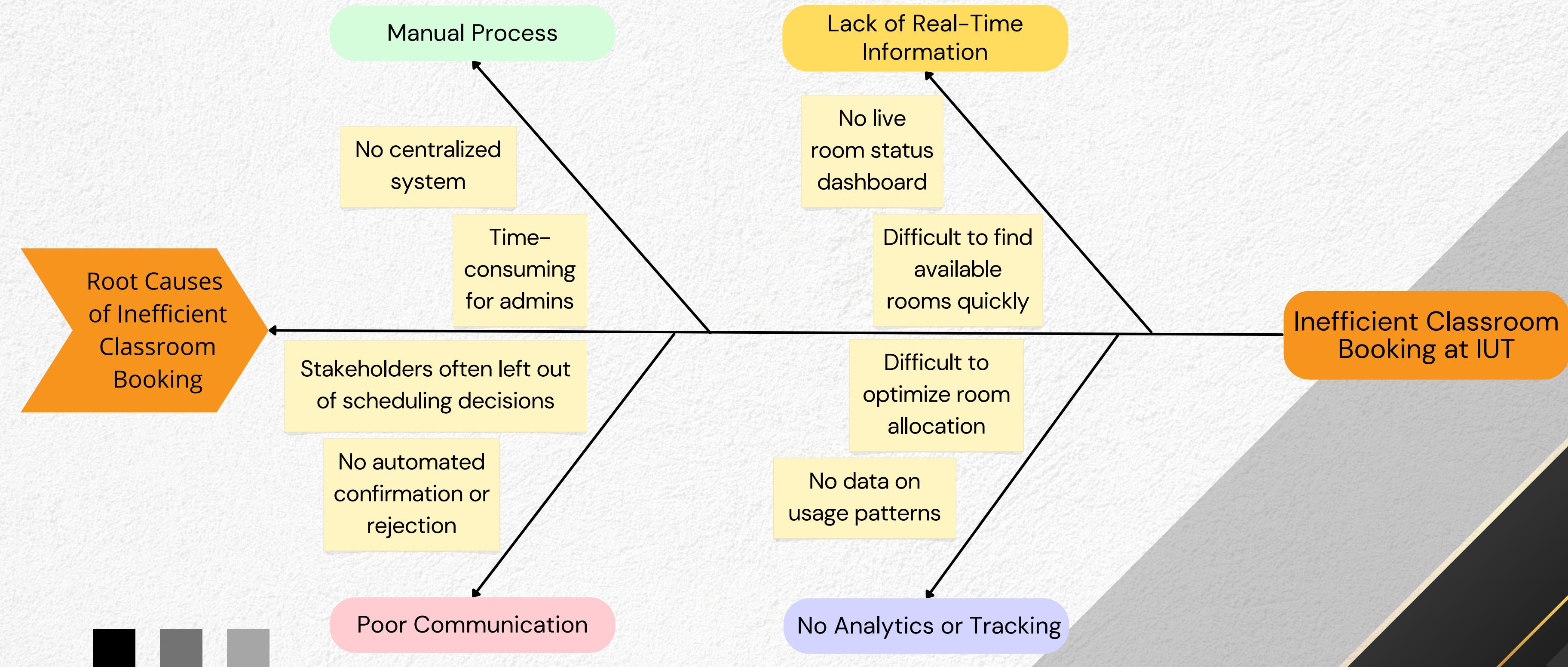
Work Breakdown Structure (WBS)

Phase (Duration)	Key Sub-Activities	Purpose
5. Testing (3.5w)	Unit/integration tests User testing	Ensure core functionality works Validate with real users
6. Deployment (2.5w)	Server setup + CI/CD Go-live monitoring	Deploy to production environment Track initial system performance
7. Maintenance (continuous)	Bug fixes Minor enhancements	Address post-launch issues Improve based on feedback

Project Timeline Gantt Chart



Fishbone Diagram



Roles & Responsibilities

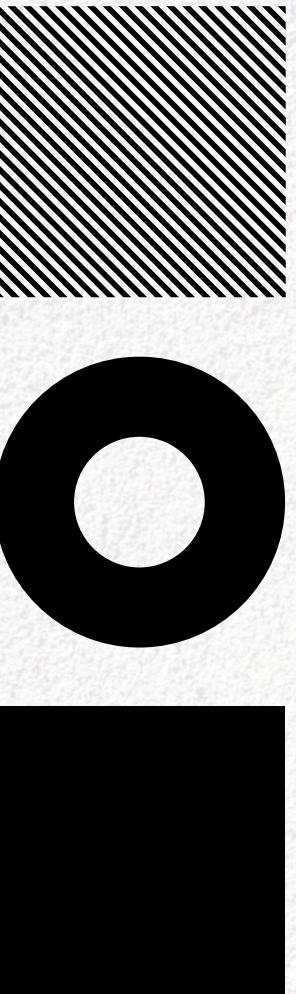
Role	Key Responsibilities
Project Lead	Coordination, timeline tracking
System Analyst	Requirement definition, stakeholder input
Backend Developer	Logic, database, server integration
UI/UX Designer	Interface layout, user experience flow
Database Admin	Schema design, data integrity
QA Tester	Testing, debugging, user feedback handling

Risk Identification & Mitigation

Classroom Booking & Scheduling System

- 01** **Low user adoption**
Cause: Insufficient training or unclear interface
- 02** **Delayed development**
Cause: Academic workload conflicts
- 03** **System misuse or data error**
Cause: Lack of admin oversight or logging

Each risk will be mitigated via user training, time buffers, and admin controls.



Project Charter Summary

- **Objectives:** Streamline classroom booking, reduce conflicts, improve efficiency
- **Scope:** Web-based internal tool, excludes mobile & hardware integration
- **Methodology:** Agile – iterative, feedback-driven
- **Participants:** Students, faculty, admin staff
- **Deliverables:** Functional booking system, usage reports
- **Evaluation:** System testing, user feedback, functionality checks
- **Training Plan:** 2 sessions (admin + faculty) with video walkthrough
- **Maintenance:** Monthly fixes, user support loop

System Proposal Structure



- **Executive Summary**
- **Background & Problem Statement**
- **Project Objectives**
- **Requirements Overview**
- **Alternatives Considered**
- **System Design (Conceptual + Technical)**
- **Implementation Plan**
- **Cost-Benefit Analysis**
- **Risk Management Strategy**
- **Conclusion & Recommendations**



Conclusion

- Initial project plan successful with a structured schedule
- WBS and Gantt Chart ensure clear task distribution and time management
- Roles and responsibilities well-defined
- Key risks identified
- Project Charter and Proposal outline demonstrate clarity of vision and execution strategy
- Redbrick Classes is now ready for the design and system development phase



THANK YOU

Q & A session

