PROJECT PLAN DOCUMENT

Project number	61
Project Title	Exam Time Table Generator
Document	Project Plan
Creation date	27 January 2025
Created By	Korlapati Keerthana
Client	Lalitha/Sriranjani , IT Office, IIIT Hyderabad

Brief problem statement

The task is to automate the process of generating optimized examination timetables for Mid-Semester and End-Semester exams for the Examination Cell of IIITH. The solution must involve designing an algorithm that extracts data such as course codes, student enrollments, faculty and examination rooms along with seating arrangements from a database to create a timetable that minimizes the number of students with consecutive exam slots, evenly distributes exams across specified slots, invigilation duties for each room, seating plan for students and provides statistical insights. The generated timetable should be available as both Excel and PDF documents.

Team Members

- **Ananya Kasavajhala**: Create a user-friendly interface for Examination Cell staff to input data, generate timetables, and display relevant statistics.
- Himani Das: Design and manage the database for storing exam data such as course codes, student enrollments, and schedules. Also conduct regular testing.
- **Raghav Grover:** Develop an algorithm to optimize the timetable by minimizing student conflicts and balancing exam distribution.
- Korlapati Keerthana: Build the backend to process the algorithm's output, integrate with the database, and serve the frontend.
- Ahana Talukdar: Ensure seamless integration of all modules (algorithm, backend, database, and frontend) into a cohesive system

Team Communication

Meetings

1. Pre-client Team Meeting:

- o When: Every Friday at 7:00 PM.
- How: A In-person team meeting to prepare for the client meeting. During this session, the team will finalize deliverables, discuss progress, and strategize how to present updates effectively to the client.

2. Client Meeting:

- When: Every Saturday at 2:30 PM.
- How: An in-person meeting at the IT Office to directly communicate with the client. The team will present their work, address any concerns, and gather feedback to align with the client's expectations.

3. Post-client Team Meeting:

- When: Every Saturday at 7:00 PM.
- How: A follow-up meeting after the client session to analyze feedback, plan next steps, and delegate tasks for the following week.

Communication

 Outside of the scheduled meetings, the team and client will use WhatsApp and Outlook Mail as the primary communication channel.

Development Environment

The project will primarily use **React and JS** as the programming language for development and **MySQL** for managing the database. This tech stack is not only efficient for handling application logic and data storage.

Milestone Schedule

Milestone	Due Date	Release	Deliverable?
Create draft requirements	25/01/25	R1	Yes
Canva Design	25/01/25	R1	Yes
Project Concept	25/01/25	R1	Yes
Finalize requirements	31/01/25	R1	Yes

Project Plan	31/01/25	R1	Yes
Design Algorithm	04/02/25	R1	Yes
Finalize Algorithm	07/02/25	R1	Yes
BackEnd and Algorithm for timetable	10/02/25	R1	Yes
Testing for TimeTable	15/02/25	R1	Yes
FrontEnd UI	15/02/25	R1	Yes
DataBase	17/02/25	R1	Yes
Integration for Exam timetable part	20/02/25	R1	Yes
Algorithm Design for Seating arrangement	05/03/25	R1	Yes
Backend and Algorithm for Seating arrangement	08/03/25	R2	No
Testing for Seating Arrangement	25/03/25	R2	No
Integration for Seating Arrangement	26/03/25	R2	No
Design Invigilation Duty	28/03/25	R2	No
Backend and Algorithm for Invigilation Duty	30/03/25	R2	No
Testing for Invigilation Duty	30/03/25	R2	No
Integration for Invigilation Duty	2/03/25	R2	No
Sending automated reminder mails	5/03/25	R2	No
Deployment	10/03/25	R2	No