

FINAL YEAR PROJECT PROPOSAL

Group Members

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Project Title:

Smart FYP Desk = a smart workspace for managing final year project ideas

Overview

SmartFYP is a centralized web application designed for institutes to manage final year projects of 7th and 8th semester students in a structured and transparent way. It allows students to propose their FYP ideas online, prevents repeated or previously done topics through a built-in repository, and enables HOD or Admin to approve, reject or suggest topics digitally. The system also provides a controlled list of suggested topics to guide students and ensures that once a project is selected, no other group from the same batch can choose it again. SmartFYP eliminates manual paper work, and informal decision making by shifting the entire process into one organized platform.

Core Features

- Admin can create and manage batches and sections such as BS-IT Morning, BS-CS Evening and so on
- Repository of old projects to avoid repetition and to help students see what has been done before
- Online topic proposal by students with approval or rejection from HOD or Admin
- Topic uniqueness checks to prevent duplicate selection within the same batch or across past batches
- AI or rule-based suggestion of project ideas for students who do not have a topic
- HOD can upload recommended project ideas for students to pick from
- Topic locking system so once approved for a group it becomes unavailable for others in the same batch
- Clean panel for Admin to monitor proposals, decisions and section wise flow in real time

Technologies Used

- **Frontend:** React JS with Tailwind CSS for modern responsive UI
- **Backend:** Node JS with Express or alternatively Firebase for faster development
- **Database:** MongoDB or Firebase Firestore to store users, proposals and project records
- **Authentication:** JWT or Firebase Auth for secure login
- **AI Assistance:** Simple rule-based matching or integration with an AI suggestion API in later phase