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Project ID: 10

Project title: Faculty Logger

Technical Components

Component	Tech Stack
Backend	Node JS,Express JS
Frontend	React
Database	MongoDB
API	OpenAPI

Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1		Under Review	Planning and Requirement gathering
Stage 2		Not Started	Design and Prototyping
Stage 3		Not Started	DB Designing
Stage 4		Not Started	Backend Implementation
Stage 5		Not started	Testing & Implementation

PROBLEM STATEMENT:

The decentralized nature of email communication within educational institutions leads to severalchallenges, including:

- **Inconsistent messaging:** Different departments and administrative units send emails independently, leading to duplication of information and inconsistent messaging.
- **Schedule conflicts:** Faculty receive multiple emails with overlapping schedules and events,leading to confusion and missed opportunities.
- **Fragmented communication:** Important announcements and updates get lost in thevolume of emails, making it difficult for recipients to stay informed and engaged.
- **Administrative burden:** Managing email distribution lists, resolving conflicts, and ensuring timely delivery of critical information impose a significant administrative burden onstaff and faculty.

PROJECT-FLOW:

Purpose:

To develop a centralized mailing system that efficiently manages communication regarding facultyschedules and activities, resolving existing issues of schedule conflicts and communication inconsistencies.

Scope:

This system includes user authentication, a mailer request form, conflict checks, and a real-time dashboard for viewing and managing schedules. It integrates with existing email systems to ensurescheduled and conflict-free messaging.

Consideration:

- All users possess active Google accounts with college mail id for authentication.
- Users have regular access to internet-enabled devices.

Dependencies:

- Integration with Google OAuth for user authentication.
- Consistent performance and availability of the existing email server.

User personas:

- **Faculty:** Requires the ability to get schedule updates and notices efficiently.
- **Admin Staff:** Manages system operations, resolves conflicts, and approves mail requests.
- **COE,Placement team**: Send emails to faculty

User Stories:

- As a faculty member, they need to ensure proper communications to reach others without conflicting with their other scheduled activities.

Functional Requirements:

- **User Authentication:** Secure login using Google OAuth.
- **Mailer Request Form:** Users input mail content, scheduling time, category, and recipients.
- **Dynamic Dashboard:** Real-time schedule viewing and interaction.
- **Priority Algorithm:** Automated prioritization of communications based on rules.

FLOW CHART: