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Project ID: 09
Project title: IQAC mailer

Technical Components

Component	Tech Stack
Backend	Node.js with Express.js
Frontend	React (JS Library for building user interfaces)
Database	MongoDB
API	OpenAPI

Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1	06/06/2024	In progress	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
Stage 6		Not started	Deployment

PROBLEM STATEMENT:

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

- **Inconsistent messaging:** Different departments and administrative units send emails independently, leading to duplication of information and inconsistent messaging.
- **Schedule conflicts:** Students and faculty receive multiple emails with overlapping schedules and events, leading to confusion and missed opportunities.
- **Fragmented communication:** Important announcements and updates get lost in the volume 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 on staff and faculty.

PROJECT-FLOW:

Purpose:

The primary objective of this portal is to streamline email communication within educational institutions using a dedicated IQAC Mailer Application. By automating the process of sending emails, the portal ensures efficient dissemination of information.

Scope:

The portal focuses on the following aspects:

1. Content Creation and Approval:

- Faculty and administrators draft email content within the portal.
- The admin reviews and approves the content.

2. Automated Email Generation:

- Once approved, the system automatically generates email messages.
- These emails can be sent to students, faculty, or staff members.

3. Efficient Communication:

- The portal ensures consistent messaging and timely delivery of critical information.

Business Context:

In educational institutions, this portal addresses several challenges related to email communication:

Consistent Messaging: By centralizing email creation, it reduces duplication and ensures uniform messaging.

Schedule Optimization: The system avoids overlapping schedules and events in email communications.

Enhanced Engagement: Important announcements are delivered effectively, keeping recipients informed.

Consideration:

- Admins have full access to approval management functionalities.
- Faculties can upload request to send mail.
- Students can view inbox mails.

Dependencies:

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

User personas:

- Admin: Manages mail request, accept or reject, and feedback.
- Faculty: compose and request form.
- Student: Views inbox and other mail functionalities.

User Stories:

- Admin: Efficient way to manage email content.
- Faculty: straightforward method to create and submit email and request.
- Student: Wants a user - friendly interface to access mails.

Functional Requirements:

The portal should support user authentication via Google OAuth.

- It must provide clear interfaces for email content creation, approval, and automated generation.
- Efficient email management functionalities should be available to administrators.

FLOW CHART:

