



BANNARI AMMAN
INSTITUTE OF TECHNOLOGY
An Autonomous Institution, Affiliated to Anna University,
Approved by AICTE, Accredited by NAAC with 'A+' Grade

STUDENT NAME: B.SANJEEVIKUMAR

ROLL NO: 7376222AL192

PROJECT ID: 9

SEAT NO: 40

PROJECT TITLE: BIT MAILER

TECH STACK:

COMPONENTS	TECH STACK
Frontend	HTML CSS Java Script
Backend	Python
Database	MySQL
API	RESTFul API

PROBLEM STATEMENT:

The current approach to email communication in educational institutions leads to issues like inconsistent messaging, schedule conflicts, fragmented communication, and administrative burden. To address these challenges, institutions can:

- **Centralize Communication:** Use a unified messaging system managed by a designated team for consistent content.
- **Streamline Scheduling:** Implement integrated calendars and event coordination protocols to prevent overlaps.
- **Enhance Protocols:** Use priority filtering and segmented distribution lists to ensure important information is highlighted and relevant.
- **Support and Training:** Employ automated tools for email management and provide training for staff on effective communication practices.

WORKFLOW:

Vision:

Develop a cutting-edge centralized mailing system to revolutionize communication regarding student schedules and activities, eliminating the current problems of schedule conflicts and inconsistent messaging.

Initiative Scope:

This innovative system will feature robust user authentication, an intuitive mailer request interface, advanced conflict detection, and an interactive real-time dashboard. Seamlessly integrating with existing email systems, it ensures efficient, conflict-free communication.

Strategic Context:

The new mailing system is designed to enhance communication precision and timeliness at BIT, significantly improving organizational efficiency by reducing scheduling conflicts. Stakeholders include students, faculty, administrative staff, and the IT department.

Key Assumptions:

- All users have active Google accounts for secure authentication.
- Users have regular access to internet-enabled devices.

Critical Dependencies:

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

Personas and Needs:

- Student Persona: Needs an all-in-one schedule view to effectively plan and balance academic and extracurricular activities.
- Faculty Persona: Requires a streamlined process to disseminate schedule updates and important notices without causing scheduling conflicts.
- Administrative Persona: Manages the system operations, resolves scheduling conflicts, and approves mailing requests to ensure smooth communication flow.

User Narratives:

- Student: "As a student, I want a consolidated view of my classes and events so I can plan my day efficiently."
- Faculty: "As a faculty member, I need to communicate with students without interfering with their other scheduled activities."

Feature Set:

- Secure Authentication: Implement Google OAuth for secure and reliable user login.
- Mailer Request Interface: Provide a user-friendly form for submitting mail content, scheduling times, categories, and recipient lists.
- Advanced Conflict Detection: Automatically detect scheduling conflicts and offer options for resolution.
- Interactive Real-Time Dashboard: Allow users to view and manage schedules dynamically.
- Automated Priority Management: Use a sophisticated algorithm to prioritize communications based on predefined criteria, ensuring critical messages receive the attention they need.

FLOW CHART:

