



**BANNARI AMMAN INSTITUTE OF TECHNOLOGY**  
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade  
**Sathyamangalam - 638401 Erode District, Tamil Nadu, India**

**STUDENT NAME : RIYONA GK**

**SEAT NO. : 342**

**PROJECT ID : 9**

**PROJECT TITLE : BIT MAILER(Student log)**

## **TECHNICAL COMPONENTS**

Component	Tech Stack
<b>Backend</b>	Python
<b>Frontend</b>	HTML, CSS, JS
<b>Database</b>	MySQL
<b>API</b>	Open API

## **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 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 students.

## **PROJECT-FLOW:**

**Purpose:** To develop a centralized mailing system that efficiently manages communication regarding student schedules 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 ensure scheduled and conflict-free messaging.

**Business Setting:** The concentrated mailing framework is pointed toward improving correspondence clearness and practicality across Touch, in this manner supporting hierarchical effectiveness by limiting booking clashes.

**Consideration:**

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

**User personas:**

- Student: Needs an up-to-date schedule to effectively plan activities.
- Faculty: Requires the ability to efficiently send schedule updates and notices.
- Admin Staff: Manages system operations, resolves conflicts, and approves mail requests.

**User Stories:**

- As a student, I want a clear scheduled mail of my classes and events to organize my day effectively.
- As a faculty member, I need to ensure my communications reach students without conflicting with their other scheduled activities.

**Functional Requirements:**

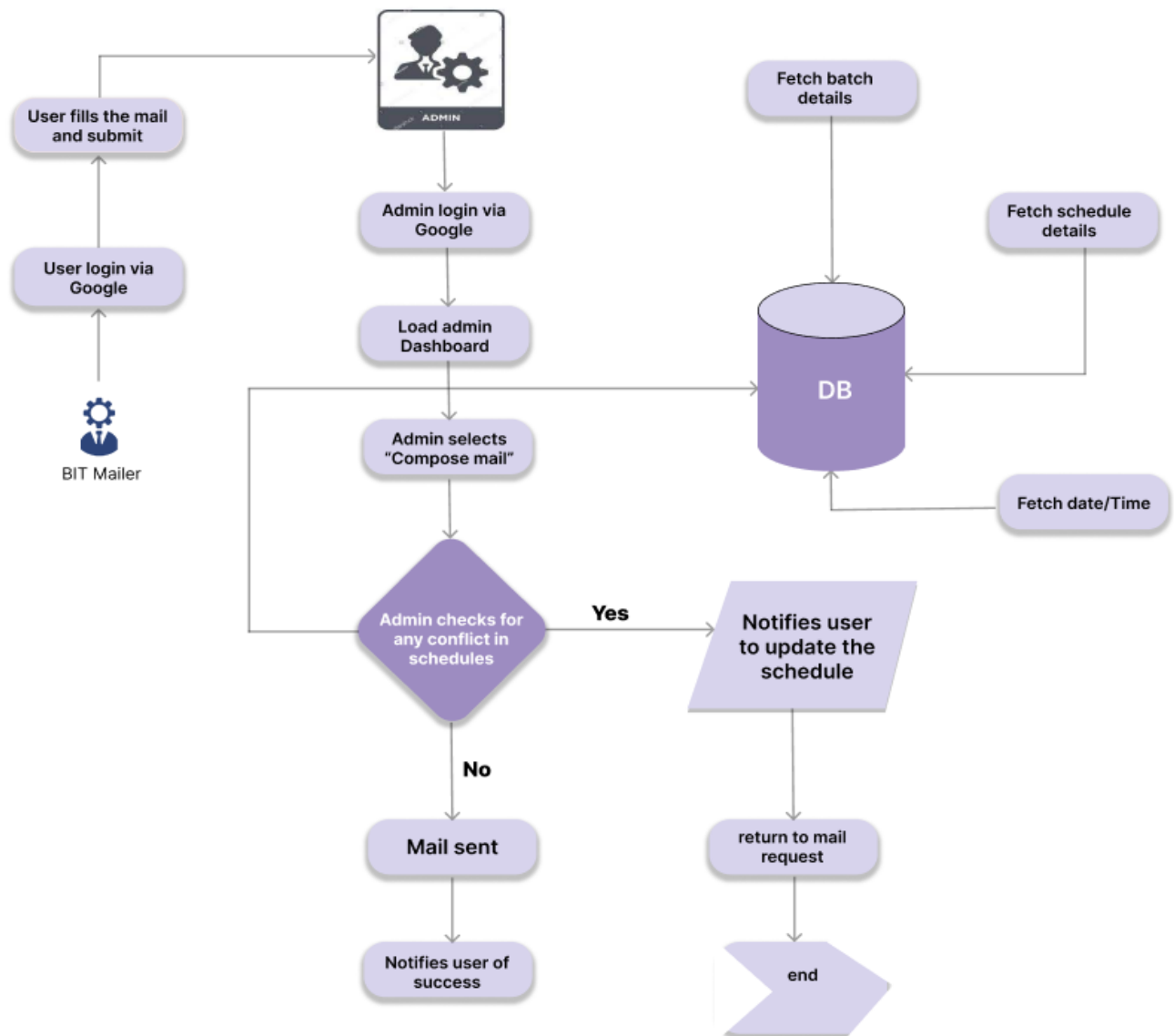
**User Authentication:** Secure login using Google OAuth.

**Mailer Request Form:** Users input mail content, scheduling time, category, and recipients.

**Conflict Resolution with admin Dashboard:** Detection of scheduling conflicts with options for adjustment in Real-time schedule viewing and interaction.

**Priority Algorithm:** Prioritization of communications based on rules.

## FLOW CHART:



## ER-DIAGRAM:

