

Project Workflow

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Project Title	Bit Mailer (Faculty Log)

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.

Stages:

Stage 1	Planning and Requirement Gathering
Stage 2	Design and UI/UX Prototyping
Stage 3	Database Design and Implementation
Stage 4	Backend Development
Stage 5	Integration and Testing
Stage 6	Deployment

User personas:

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

Functional Requirements:

- User Authentication: Secure login using Google OAuth.
- Mailer Request Form: Users input mail content, scheduling time, category, and recipients.
- Conflict Resolution: Automatic detection of scheduling conflicts with options for adjustment.
- Dynamic Dashboard: Real-time schedule viewing and interaction.
- Priority Algorithm: Automated prioritization of communications based on rules.

Tech Stack:

Front End	HTML CSS JS
Back End	Python Django(Python Web)
Database	PostgreSQL MySQL
API	OpenAPI SOAP APIs RESTFul API

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 Context:

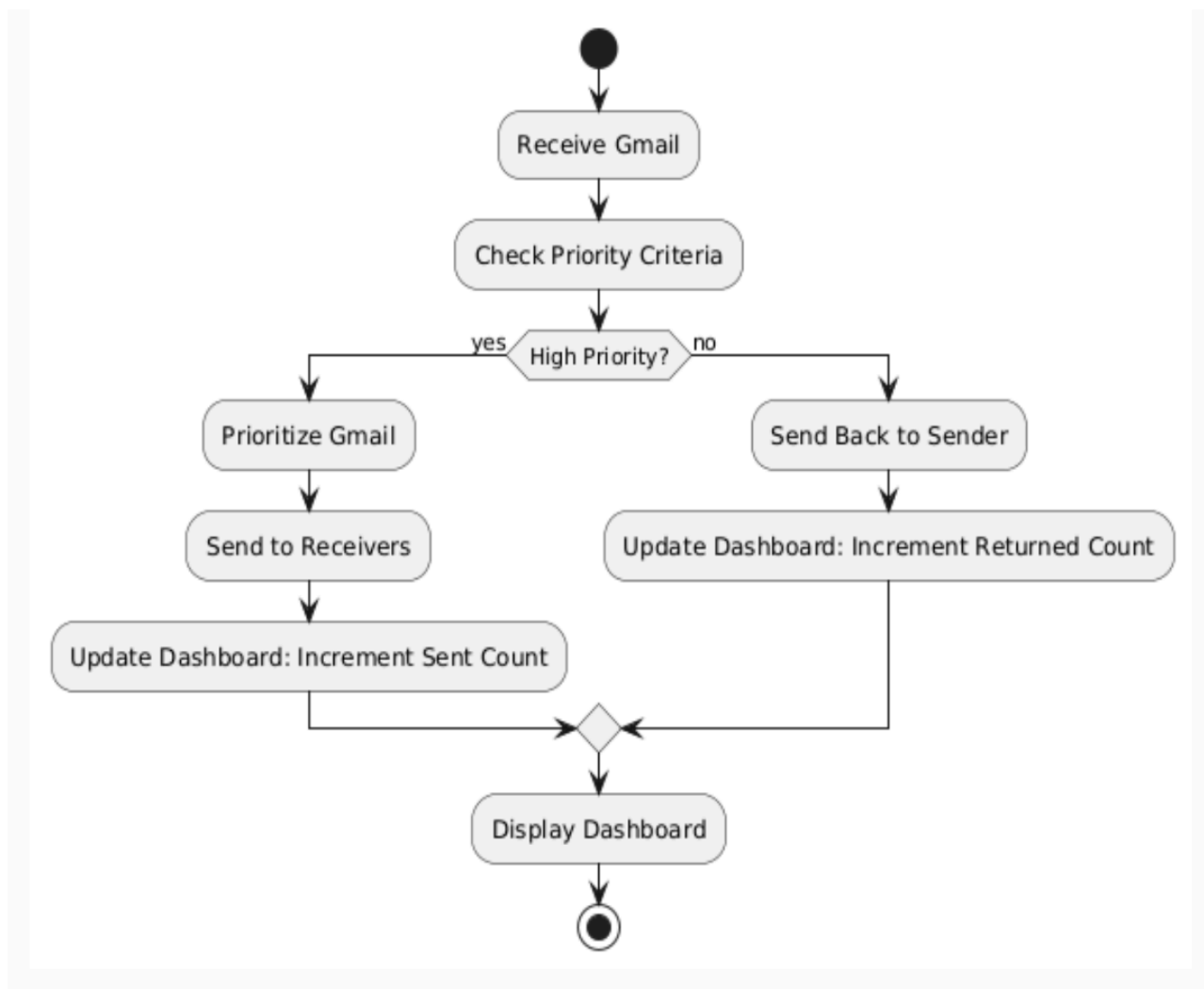
The centralized mailing system is aimed at enhancing communication clarity and timeliness across BIT, thus boosting organizational efficiency by minimizing scheduling conflicts. Primary stakeholders include students, faculty,

administrative staff, and the IT department.

Consideration:

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

Flow Chart:



ER diagram:

Email Management System

