

**Student Name:** Harini M

**Seat No:** 51

**Project ID:** 11

**Project title:** Bulk Mail Blocking/Unblocking

### Technical Components

Component	Tech Stack
Frontend	ReactJS
Backend	NodeJS,ExpressJS
DataBase	MongoDB
API	RESTful services

### Implementation Timeline

Phase	Deadline	Status	Notes
Stage 1		Not started ▾	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:**

When considering the struggles associated with using a single block and unblock approach for students' email addresses, several challenges may arise:

- **Accuracy of Selection:** Ensuring that the correct student email is targeted for blocking or unblocking can be challenging, especially if there are similar or duplicate email addresses.
- **Administrative Burden:** Managing block and unblock requests for individual student emails can be time-consuming and labor-intensive for administrators, particularly if there are a large number of requests.
- **Risk of Human Error:** Manual intervention increases the risk of human error, such as selecting the wrong email address for blocking or unblocking, which can lead to unintended consequences and frustration for students.
- **Lack of Scalability:** Handling block and unblock requests on an individual basis may not be scalable, especially as the student population grows or if there is a sudden surge in requests.

## **PROJECT-FLOW:**

### **Purpose:**

To centralize email management for students, improving administrative efficiency, ensuring fair enforcement of email policies, enhancing scalability, and fostering transparent communication about email-related issues.

### **Scope:**

It involves creating a web portal for authorized administrators to manage student email IDs in bulk. It includes user authentication, an intuitive interface, integration with email system, data security measures, action logging and administrative tools for efficient request handling.

### **Business Context:**

This project addresses operational challenges by centralizing student email management through a dedicated portal. It streamlines administrative processes, enhances efficiency, and ensures compliance with email policies, aligning with commitment to leveraging technology for optimization.

### **Consideration:**

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

## Dependencies:

- Integration with Google OAuth for user authentication.
- Integration with Email Infrastructure.

## User personas:

- **System Administrator:** Oversees email management system, manages student email accounts.

## User Stories:

- Secure login, bulk email blocking/unblocking, and detailed email action logs.

## Functional Requirements:

- **User Authentication:** Secure login for administrators.
- **Email Account Management:** View, search, and manage student email accounts.
- **Logging:** Record email management actions for auditing purposes.
- **Access Control:** Role-based permissions to control user action.

## FLOW CHART:





