Software Requirement Specification for Bulk Mail Blocking/Unblocking Portal

Project ID	Module Name	Module Description	Domain
11	Bulk Mail Blocking/Unblocking	Build a portal system to block/unblock bulk bitsathy email ID of the students	Students Affairs

Name	Prithiviraj S C
Roll no	7376222AD176
Seat no	131
Project ID	11
Problem Statement	Bulk Mail Block/Unblock

STACK : Python(AI)

Front End	HTML,CSS,Javascript
Backend	Django
Data Base	MYSQL

1. Purpose:

To provide administrators with a tool to manage the blocking and unblocking of email addresses in bulk.

2.Scope:

- The system will allow administrators to upload a CSV file containing email addresses to be blocked or unblocked.
- The system will process the CSV file and update the status of the email addresses accordingly.
- The system will provide feedback on the success or failure of each operation.

3.User Authentication:

Secure login using Google OAuth for administrators.

4.CSV File Upload:

Administrators can upload a CSV file containing a list of email addresses to be blocked or unblocked.

5. Processing CSV File:

- The system will parse the CSV file and validate the format.
- For each email address in the CSV file, the system will perform the requested action (block/unblock).

6.Feedback Mechanism:

- After processing the CSV file, the system will provide feedback on the success or failure of each operation.
- The feedback will include details such as the email address, action (block/unblock), and status (success/failure).

7.Error Handling:

The system will handle errors gracefully and provide meaningful error messages to the administrators.

8.Logging:

The system will log all actions taken, including successful and failed operations, for audit purposes.

9.Security:

- The system will ensure that only authorized administrators can access the bulk email blocking/unblocking functionality.
- The system will encrypt sensitive data such as email addresses and authentication tokens.

10.Integration:

The system will integrate with the existing email server to apply the blocking/unblocking actions.

11.User Interface:

The system will provide a user-friendly interface for administrators to upload CSV files and view the status of bulk operations.

12.Permissions:

The system will enforce appropriate permissions to ensure that only authorized administrators can perform bulk email blocking/unblocking operations.

FLOW CHART:

Start → Authenticate Admin → (Success) → Select Option: Block or Unblock Email ID

Authenticate Admin → Admin Database

Authenticate Admin → (Failure) → End - Authentication Failed

Select Option → (Block) → Begin Block Process → Python Script: Block Email ID → Student Database

Python Script: Block Email ID → (Success) → End - Email ID Blocked → Exit Portal

Python Script: Block Email ID → (Failure) → End - Fail to Block → Exit Portal

Select Option → (Unblock) → Begin Unblock Process → Python Script: Unblock Email ID → Student Database

Python Script: Unblock Email ID → (Success) → End - Email ID Unblocked → Exit Portal

Python Script: Unblock Email ID → (Failure) → End - Fail to Unblock → Exit Portal