# SMART INDIA HACKATHON 2022



### AICTE

## ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

PS Code – DR703

Problem Statement Title - Bulk email & SMS service

Theme Name – Smart Education

TEAM NAME – DAZZLING DEVELOPERS

DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY

AND MANAGEMENT, DELHI

INSTITUTE CODE(AISHE) – [C-32842]

### TEAM INTRODUCTION – DAZZLING DEVELOPERS

•	Team	Lead	er –	Praty	/ush	Bl	hatnag	ar
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Team Member 1 – Rishabh Kumar

Team Member 2 – Hemant Singh

Team Member 3 – Akshat Aggarwal

Team Member 4 – Anshul Vats

Team Member 5 – Babita

Branch – CSE Year – III

Branch – IT Year – III

Branch – IT Year – III

Branch – IT Year - III

Branch – IT Year - III

Branch – CSE Year – III

### PROBLEM STATEMENT

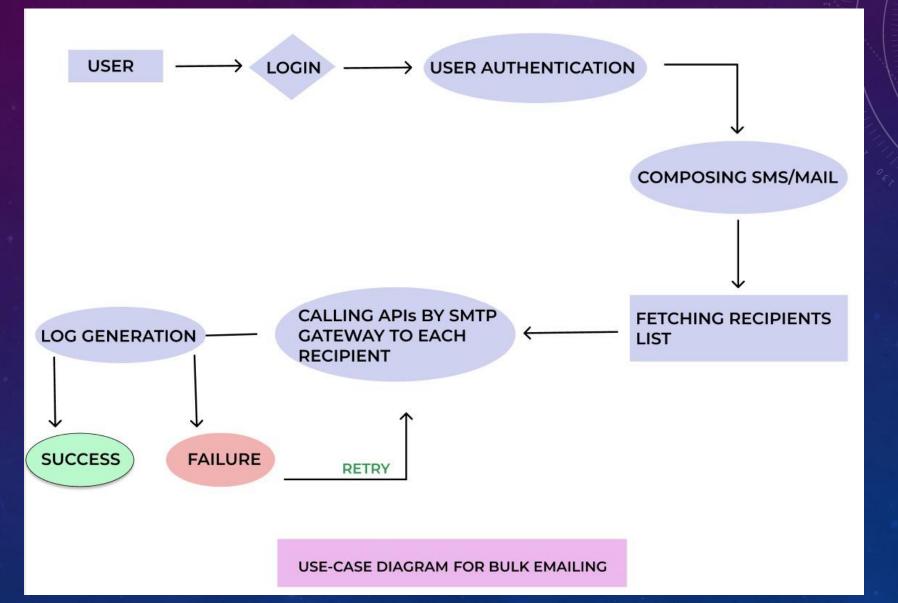
- Background: Information sharing is a major factor for development in the country. It is a time taking process to share information to all the citizens of the country through media and newspaper.
- A bulk SMS or email service which can convey information to larger audience in short interval of time is a requirement.
- Objective: We need a mobile/web app that will allow sending Bulk email & SMS (around 1 crore) user in one go through SMTP or other technology and it will be compatible for that.

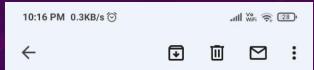
### OUR APPROACH & TECH STACK USED

- Since the Problem statement emphasizes on creating a solution for communicating and sharing Information to vast audience at a minimal duration of time via SMS/email, our software fulfills the requirements of communication alongside with the additional features as well.
- The Recipients list can be selected manually or can be automatically imported through .doc files
  or. xls sheets. The Website will be using SMTP (Simple Mail Transfer Protocol) API for sending
  information over email/SMS. It will show status of success or failure with time.

- Server Backend: Node.js, Express.js
- Database: my-SQL
- Information Sharing: Email sending APIs (SMTP Technology)
- Website Frontend: HTML, CSS, JavaScript

### FLOWCHART TO DEPICT BULK SMS/EMAILING







rom dazzlingdevelopers2022@gmail.com

To singhhemant1852@gmail.com

Date 25 Mar 2022, 10:11 pm

Standard encryption (TLS).

See security details

Dear Madam/Sir, Greetings from AICTE New Delhi!

The AICTE-Distinguished Chair Professor fellowship intends to utilize the expertise of highly qualified and experienced superannuated Professionals. In this regard, AICTE in collaboration with KCG College of Technology, Tamil Nadu is organizing an expert talk by Dr. M.L. Munjal.

Topic: "Towards Creative Thinking"
Day and date: Monday, the 26th March 2022
Duration of Session - 90 minutes (11.00 - 12.30 PM)
Kindly join and view the lecture on
www.youtube.com/MediaAICTE as per the schedule
mentioned above.

PFA: https://drive.google.com/file/d/18sj4BzOj8pMpfsd9106LAbij3HYhQRRd/view?usp=sharing

### BRIEF WORKFLOW DISPLAY

First user authentication is done by getting a valid email id and password.



The server sends a request to SMTP with given credentials to initiate the server and generate a transporter between our server and Webmail (i.e Gmail, Yahoo, etc.)



On Each Call(), the SMTP server reverts back the response each time the mail gets delivered to the recipient with the status code and accordingly log gets generated.

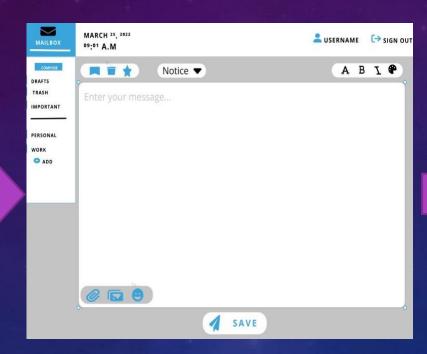
#### Generated Log-

accepted: ['receivermail@gmail.com'],
rejected: [],
response: '250 2.0.0 OK 1648218439 z1620020aa7889000000b004fad8469f88sm6986887pfe.38 - gsmtp',
messageld: '<2e1b0574-082f-83bf-d028- cb786726fac5@gmail.com>'

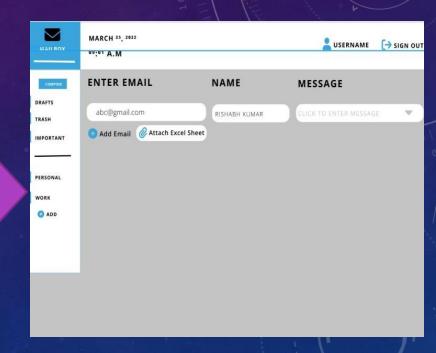
### USER INTERFACE OF THE PROTOTYPE



Login & user authentication page



Compose SMS/Email



Retrieving and fetching receiver's email address

### FEATURES INVOLVED

- Reduced processing time with efficient working (cost efficient)
- Allows Customization of SMS/emails according to receiver's details
- Categorizes SMS/mail based on their category (such as warning, alert, information)
- Importing contact details from excel worksheets
- Log generation (success or failure)
- Sharing information with a large community
- Allows well formatted message sharing
- User Authentication
- Mail Scheduling

### MARKET SCOPE

01

SMS based Pandemic alarming system for the Primary Health centers to manage public health information.

02

Banking and Finance alerting system for server as well as user bank details 03

Subscription reminders to organization's Newsletters, new products and upcoming release notes 04

Beneficial for the marketing companies/agencies who wants their services to be advertised

05

Travel & Tourism,
Restaurants, ECommerce,
recommendations
based on preferences on
public utilities, Real
Estate, Media,
Education etc.