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

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- Team Member 1 Hemant Singh
- Team Member 2 Rishabh Kumar
- Team Member 3 Akshat Aggarwal
- Team Member 4 Babita
- Team Member 5 Anshul Vats

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: Third-Party Email sending APIs as SMTP Technology.
- Website Frontend: HTML, CSS, JavaScript





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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/18sj4Bz0j8pMpfsd9106LAbij3HYhQRRd/view? usp=sharing

BRIEF WORKFLOW DISPLAY

First, we have to authenticate the user (sender identity) by providing email and password.



Server calls the SMTP API with (receiver mail id, message).

On Each Call(), APIs revert back the response with the status code(either failure or success), and accordingly log gets generated.



Generated Log-

rejected: [],

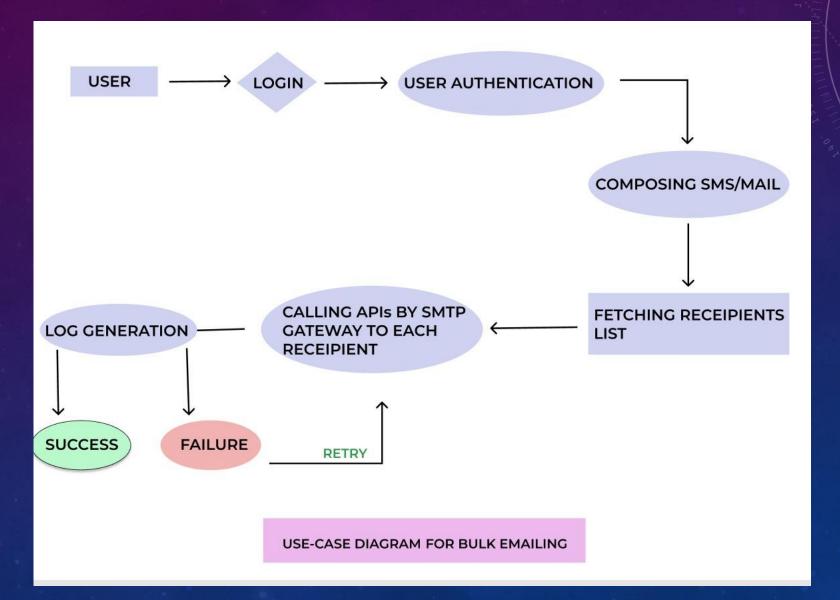
response: '250 2.0.0 OK 1648218439 z16-

accepted: ['receivermail@gmail.com'],

messageId: '<2e1b0574-082f-83bf-d028cb786726fac5@gmail.com>'

20020aa7889000000b004fad8469f88sm6986887pfe.38 - gsmtp',

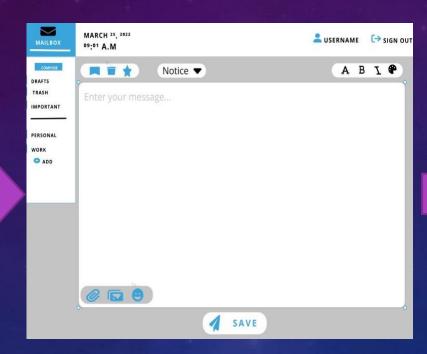
FLOWCHART TO DEPICT BULK SMS/EMAILING



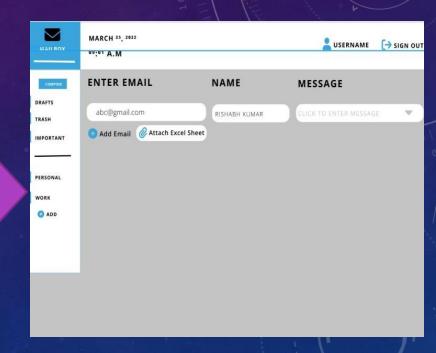
USER INTERFACE OF THE PROTOTYPE



Login & user authentication page



Compose SMS/Email



Retrieving and fetching receiver's email address

FEATURES INVOLVED

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

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

Educational purposes (SMS based attendance records, student's evaluation report) 05

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