

EMAILER APPLICATION

A Major Project Report

Submitted in partial fulfillment of requirement of the

Degree of

**BACHELOR OF TECHNOLOGY in COMPUTER
SCIENCE & ENGINEERING**

BY

Name: **Somya Salgia**

University Roll No: **EN16CS301265**

Under the Guidance of
Prof. (Dr.) Ruchi Patel
Mr. Neelesh Jain



Department of Computer Science and Engineering

Faculty of Engineering

MEDI-CAPS UNIVERSITY, INDORE- 453331

May, 2020

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Report Approval

The project work “**Emailer Application**” is hereby approved as a creditable study of an engineering/computer application subject carried out and presented in a manner satisfactory to warrant its acceptance as prerequisite for the Degree for which it has been submitted.

It is to be understood that by this approval the undersigned do not endorse or approved any statement made, opinion expressed, or conclusion drawn there in; but approve the “Project Report” only for the purpose for which it has been submitted.

Internal Examiner:

Name :

Designation :

Affiliation :

External Examiner:

Name :

Designation :

Affiliation :

Declaration

I hereby declare that the project entitled “**Emailer Application**” submitted in partial fulfillment for the award of the degree of Bachelor of Technology in ‘Department of Computer Science and Engineering’ completed under the supervision of **Prof. (Dr.) Ruchi Patel, Assistant Professor, Department of Computer Science & Engineering** and **Mr. Neelesh Jain Co. Founder of Hvantage Tech. Inc, Faculty of Engineering, Medi-Caps University, Indore** is an authentic work.

Further, I declare that the content of this Project work, in full or in parts, have neither been taken from any other source nor have been submitted to any other Institute or University for the award of any degree or diploma.

Somya Salgia

(EN16CS301265)

Date:

Certificate

I, **Prof. (Dr.). Ruchi Patel and Mr. Neelesh Jain** certify that the project entitled **“Emailer Application”** submitted in partial fulfillment for the award of the degree of Bachelor of Technology by **Somya Salgia** is the record carried out by him under my guidance and that the work has not formed the basis of award of any other degree elsewhere.

Prof. (Dr.) Ruchi Patel

Department of Computer Science

Medi-Caps University, Indore

Mr. Neelesh Jain

Co. Founder

Hvantage Technologies Inc.

Dr. Suresh Jain

Head of Department

Computer Science and Engineering

Medi-Caps University, Indore

Acknowledgement

I would like to express my deepest gratitude to Honorable Chancellor, **Shri R C Mittal**, who has provided me with every facility to successfully carry out this project, and my profound indebtedness to **Prof. (Dr.) Sunil K Somani**, Vice Chancellor, Medi-Caps University, whose unfailing support and enthusiasm has always boosted up my morale. I also thank **Prof. (Dr.) D K Panda**, Dean, Faculty of Engineering, Medi-Caps University, for giving me a chance to work on this project. I would also like to thank my Head of the Department **Dr. Suresh Jain** for his continuous encouragement for betterment of the project.

I express my heartfelt gratitude to my **External Guide, Mr. Neelesh Jain, Co-Founder of Hvantage Technologies Inc.** as well as to my **Internal Guide, Prof. (Dr.) Ruchi Patel, Professor, Department of Computer Science & Technology**, without whose continuous help and support, this project would ever have reached to the completion.

I would also like to thank to my team at Hvantage Technologies Inc., who extended their kind support and help towards designing the design and technical report.

It is their help and support, due to which I became able to complete the design and technical report.

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Somya Salgia (EN16CS301265)

B.Tech. IV Year

Department of Computer Science and Engineering,

Faculty of Engineering

Medi-Caps University, Indore

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Chapter 1

Introduction About Company

1.1. Introduction

With domain expertise on Banking, Consumer Products, Entertainment, High tech, Insurance, Financial Services and Retail, Hvantage Technologies Inc brings in world class software solutions and support services tailored to the unique requirements for clients across the world. Our IT services & products suit the viability to serve the global IT domain requirements.

Hvantage was established in 2011 to provide technology and operations services. Hvantage has more than 200 passionate technologist, operations associates, and leaders providing web, mobile, enterprise, data solutions, and operations support to our customers.

Hvantage currently operates from Los Angeles, USA with offshore development center at Indore, India. We are a part of the reputed DCNPL Group that has business interests in the high technology industry.

Hvantage Technologies Inc. delivers exceptional software solutions and support services to its clients using its proven onsite & offshore engagement model. We have decades of cumulative experience (within the resources) in the outsourcing and offshoring space.

Hvantage culture is designed to provide quality, customer focus, and teamwork to our customers. Our culture promotes opportunity to all employees by embracing value creation.

Various services offered here are-

- IT Support
- Managed services
- On-site & remote support

- Project management
- Mobile Device Management
- Network Assessment and much more.

Whether you are a small business startup looking for technical direction or a medium enterprise seeking additional service and support resources, rely on Hvantage Technologies for quality service to meet your needs.

Website: <https://www.hvantagetechnologies.com/>



Fig. 1.1.1: Company Logo



Fig. 1.1.2: Company Premises

Chapter 2

Projects Handled

2.1. Projects Handled

The projects handled by me were, “Emailer Application”, “B4E Apps Script Automation”, “Maalgaadi App Alpha Testing”. Basically, Maalgaadi Mobile App and Bike4Everything are their live projects on which we have done Unit Testing and Apps Script Automation respectively. Emailer Application is still under development phase.

Apps Script Automation is the automation of Google Applications such as Google Sheets, Forms, Contacts, and Drive etc. for which we use Google Apps Script Programming language. Apps Script language allows the Google Services mentioned above to automatically perform operations when certain conditions are met which are specified in the code written in Apps Script Editor.

2.1.1. Emailer Application:

2.1.1.1. Problem Domain:

- Previously when different companies have to Email marketing or digital marketing it's a very tedious process because one has to select the list of customer and then design the content of email manually.
- Also, he or she has to attach the template which is to be sent by first designing or downloading it from other sources and then send it by attaching it one by one manually to all the other user or customer which is a very tedious process.

2.1.1.2. Solution Domain:

- Emailer is a tool where the user can design his or her template on the same platform and can send it to the attached customer list simultaneously.

- User can not only send his or template but also store it in our database for further uses. Also he/she can also edit these templates according to him.
- User can manage Google Spreadsheet by importing it can export the template present in our system or application to the spreadsheet.
- User can design Google forms for Surveying and can also export any customer list in CSV format.
- User can also send SMS using SMS API to various customer present in customer list.
- User can also import Google contacts present in his or her Google Gmail id and can prepare customer list.

2.1.1.3. Description

Emailer Application is a Project under Hvantage Technologies Inc. which allows users to have their own Email Marketing Campaign along with various Google integrated services such as Google Spreadsheets, Forms and Contacts to provide better user experience. This project has only Google Login system for secured connection. For which we have used OAuth 2.0. This project is still under development.

● Super Admin Panel

The Super Admin Panel, as the name suggests, can only be accessed by Super Admin and has access to all functionalities in our application which are Manage Templates, Customer List, Spreadsheet, Forms, SMS, Business Accounts and Registered Users.

Major functionalities with Super Admin access includes-

- Access to every template, customer lists, connected sheets and users linked with this application.
- Every user wanting to register for our application requires access from Super Admin who will assign the user an account.
- Super Admin can create accounts as well as another Super Admins if he/she wants to make one.

- **Business Admin Panel**

The Business Admin Panel can be accessed by the Admins of specific Business Accounts. Business Admins can handle the users linked with their respective Business accounts.

Major functionalities with Super Admin access includes-

- Access to every template, customer lists, connected sheets and users linked with their respective business accounts.
- Every user wanting to assign a role for our application requires access from Business Admin who will assign the role of users.

- **User Panel**

User Panel can be either Template Creator or Template Sender depending on the role assigned to them.

User Panel has functionalities creating and uploading templates, creating and uploading customer lists depending upon their role.

They are registered by Super Admin and assigned their roles by Business Admins.

Highlights of Emailer Application-

- **Manage Templates-**

Here, there are facilities to create templates using our Text Editor with various add ons to enhance the created templates. Also, we can upload templates if any prepared template is available and view it in 'View Template List' section. Templates can be mailed by selecting a particular customer list containing email ID of people to whom the mail is to be sent though SMTP mailing or SendGrid mailing.

- **Manage Customer List-**

Here, there are facilities to create customer list manually. Also, we can upload customer lists if any prepared list is available and view it in 'View Customer List' section.

Customer Lists can be mailed by selecting a particular templates containing content to be mailed though SMTP mailing or SendGrid mailing.

- **Manage Spreadsheet-**

Here, there are facilities to create customer list using Sheets API created using Google Services. Also, we can view connected sheets in another section. Connected sheets can be used to import email ID from them and make a customer list from it. We can export templates from this application to the sheets and mail from sheets through sheet automation. Sheet status gets dynamically updated in this application.

- **Manage Accounts-**

Here, there are facilities to create business accounts by giving detailed information required there. Accounts can be managed under ‘View Registered Account’ section. Here, only Super Admin has the access to this section. There is a functionality to create Super Admins if needed.

- **Manage SMS-**

Here, there are facilities to create contact lists through three options which are firstly, through uploading CSV files containing contact numbers with their names. Secondly, through importing contact numbers from connected sheets and thirdly, through importing contacts from Google Contacts by creating Google API using Contacts Services provided.

- **Manage Forms-**

Here, we have created an environment where we can access Google Forms from this application and create forms and view them in this application. The primary need to access forms here is to allow a chrome extension called ‘iFrame Allow’.

- **Manage Users-**

Here, there are facilities to create users by assigning them account from all of the registered accounts. Also, the Super Admin can assign users their respective accounts

from here and Business Admins can assign roles to the registered users. 'View Registered User' section gives details about all registered users to Super Admin and particular users linked to an account to Business Admins.

- This application has Google Login System for which we have used OAuth 2.0 authorization system.
- We have given a 40 minute Login window to users and created a session for every user which gets destroyed after this window closes and user gets logged out.

2.1.1.4. Tools and Technology Used:

Front-End technologies – HTML, CSS, Bootstrap, jQuery, JavaScript.

Back-End technologies – Java, JSP

Database – MySQL

Framework – Maven

Server – Apache Tomcat 9.0

Tools – NetBeans IDE 8.2, MySQL Workbench 8.0, Google Console

- **HTML:** HTML (HyperText Markup Language) is the most basic building block of the Web. It defines the meaning and structure of web content. Other technologies besides HTML are generally used to describe a web page's appearance/presentation (CSS) or functionality/behavior (JavaScript). "Hypertext" refers to links that connect web pages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

- **CSS:** Cascading Style Sheets (CSS) is a stylesheet language used to describe the presentation of a document written in HTML or XML (including XML dialects such as SVG, MathML or XHTML). CSS describes how elements should be rendered on screen, on paper, in speech, or on other media. CSS is one of the core languages of

the open Web and is standardized across Web browsers according to the W3C specification. Developed in levels, CSS1 is now obsolete, CSS2.1 is a recommendation, and CSS3, now split into smaller modules, is progressing on the standardization track.

- **Bootstrap:** Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for buttons, forms, navigation and other elements. Bootstrap is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites. Bootstrap is completely free to download and use!

- **jQuery:** jQuery is a JavaScript library designed to simplify HTML DOM tree traversal and manipulation, as well as event handling, CSS animation, and Ajax.^[2] It is free, open-source software using the permissive MIT License. As of May 2019, jQuery is used by 73% of the 10 million most popular websites. Web Analysis indicates that it is the most widely deployed JavaScript library by a large margin, having 3 to 4 times more usage than any other JavaScript library. jQuery's syntax is designed to make it easier to navigate a document, select DOM elements, create animations, handle events, and develop Ajax applications. jQuery also provides capabilities for developers to create plug-ins on top of the JavaScript library.

- **Apache Tomcat:** The Apache Tomcat® software is an open source implementation of the Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket technologies. The Java Servlet, JavaServer Pages, Java Expression Language and Java WebSocket specifications are developed under the Java Community Process. The Apache Tomcat software is developed in an open and participatory environment and released under the Apache License version 2. The Apache Tomcat project is intended to be a collaboration of the best-of-breed developers from around the world. We invite you to participate in this open development project. To learn more about getting

involved, click here. Apache Tomcat software powers numerous large-scale, mission-critical web applications across a diverse range of industries and organizations.

- **Google Console:** Google Search Console is a web service by Google which allows webmasters to check indexing status and optimize visibility of their websites.

Until May 20, 2015 the service was called Google Webmaster Tools. In January 2018, Google introduced a new version of the search console, with changes to the user interface. In September of 2019, old Search Console reports, including the home and dashboard pages, were removed.

- **MySQL:** MySQL is the world's most popular open-source database. The data relating to each other by nature, e.g., a product belonged to a product category and associated with multiple tags. Therefore, we use the term relational database. In the relational database, we model data like products, categories, tags, etc., using tables. A table contains columns and rows. It is like a spreadsheet. A table may relate to another table using a relationship, e.g., one-to-one and one-to-many relationships.

- **MySQL Work bench:** MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modeling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more. MySQL It enables data architects to visualize requirements, communicate with stakeholders, and resolve design issues before a major investment of time and resources is made. It enables model-driven database design, which is the most efficient methodology for creating valid and well-performing databases, while providing the flexibility to respond to evolving business requirements.

- **NetBeans IDE 8.2:** NetBeans IDE is a free and open source integrated development environment for application development on Windows, Mac, Linux, and Solaris operating systems. The IDE simplifies the development of web, enterprise, desktop, and mobile applications that use the Java and HTML5 platforms. The IDE also offers support for the development of PHP and C/C++ applications. NetBeans IDE offers

first-class tools for Java web, enterprise, desktop, and mobile application development. It is consistently the first IDE to support the latest versions of the JDK, Java EE, and JavaFX. It provides smart overviews to help you understand and manage your applications, including out-of-the-box support for popular technologies such as Maven.

- **Maven Framework:** Maven is a build automation tool used primarily for Java projects. Maven can also be used to build and manage projects written in C#, Ruby, Scala, and other languages. The Maven project is hosted by the Apache Software Foundation, where it was formerly part of the Jakarta Project. Maven is built using a plugin-based architecture that allows it to make use of any application controllable through standard input. A plugin for the .NET framework exists and is maintained and a C/C++ native plugin is maintained for Maven 2.

2.1.2. Bike 4 Everything - Apps Script Automation:

2.1.2.1. Problem Domain:

- Previously when different companies have to do Email marketing or Digital marketing, it was a very tedious process because one has to prepare and create the list of customers using Google spreadsheet and then design the content of email manually.
- Also, he or she has to attach the template which is to be send by first designing or downloading it from other sources and then send it by attaching it one by one manually to all the other user or customer which is a very tedious process.

2.1.2.2. Solution Domain:

- Using Google Apps Script Automation user can code the functionality which he or she wants to import in the Google spreadsheet depend on the spreadsheet
- Also, we can use this automation to perform the task or operation which he or she wants.
- Using Google Apps Script Automation user can design the template in the code editor and can send it to the customer simultaneously without any external efforts.
- Using Google Apps Script user can import databases API and can store the data of user in their database for further use.

2.1.2.3. Description:

- In Bike 4 Everything Google Spreadsheet it contains the list of Customer which takes the vehicle on rent from the company.
- Bike 4 Everything Google Spreadsheet not only contains the list contains the list of customer but also contains the list of vehicles that is CT-100, etc.
- Using Bike 4 Everything Google Spreadsheet Automation it sends the confirmation email to the customer when they take bike or any other vehicle and sends the thank you email on returning.
- Using Bike 4 Everything Automation it keeps tracks of every vehicle customer entries i.e. their booking time, drop time, booking dates, drop dates etc.
- Google Apps Script is a rapid application development platform that makes it fast and easy to create business applications that integrate with G Suite. You write code in modern JavaScript and have access to built-in libraries for favorite G Suite applications like Gmail, Calendar, Drive, and more. There's nothing to install—they give you a code editor right in your browser, and your scripts run on Google's servers.

2.1.2.4. Tools and Technology Used:

- **Google Apps Script:**

Apps Script is a scripting platform developed by Google for light-weight application development in the G Suite platform. Google Apps Script was initially developed by Mike Harm as a side project whilst working as a developer on Google Sheets. Google Apps Script was first publicly announced in May 2009 when a beta testing program was announced by Jonathan Rochelle, then Product Manager, Google Docs. In August 2009 Google Apps Script was subsequently made available to all Google Apps Premier and Education Edition customers. It is based on JavaScript 1.6, but also includes some portions of 1.7 and 1.8 and a subset of the ECMAScript 5 API. Apps Script projects run server-side on Google's infrastructure. According to Google, Apps Script "provides easy ways to automate tasks across Google products and third party

services." Apps Script is also the tool that powers the add-ons for Google Docs, Sheets and Slides.

Your first script:

The steps below show how to build and run a simple standalone script that creates a Google Doc and emails you a link.

Set it up

- Visit script.google.com to open the script editor. (You'll need to be signed in to your Google account.) If this is the first time you've been to script.google.com, you'll be redirected to a page that introduces Apps Script. Click Start Scripting to proceed to the script editor.
- A welcome screen will ask what kind of script you want to create. Click Blank Project or Close.
- Delete any code in the script editor and paste in the code.

Benefits:

- Based on JavaScript 1.6 and a selection of JavaScript 1.7 and 1.8 [\[8\]](#)
- Cloud based debugger for debugging App Scripts in the web browser.
- It can be used to create simple tools for an organization's internal consumption.
- It can be used to perform simple system administration tasks.
- Community-based support model.

2.1.3. Maalgaadi Mobile App Testing:

2.1.3.3. Description:

Maalgaadi is a mobile app to get the most economical loading vehicles in minutes. Say good bye to bargaining with drivers now, With press of a button on your mobile phone

your desired loading vehicle will be at your door step and you can enjoy hassle free transportation today.

How does MaalGaadi work? Here:

- Open your app, choose your vehicle, add pickup and drop points, book your trip. It won't get simpler than this
- Worried about where your driver might be? – With MaalGaadi now track your driver's location in real time
- Invoices – Keep a track of all your invoices online. Access them from anywhere, anytime!
- Proof Delivery – Get a digital copy of your PODs as soon as your trips end, get the physical copy at your doorstep within two days of the trip!
- Payments – Pay cash to the driver or pay in advance and get a credit limit from MaalGaadi.

We did the alpha testing of the Mobile application for finding out bugs out of them on a whole platform where these issues can be solved for better and enhanced user experience.

2.2. Training Schedule

The training at Hvantage Technologies Inc. started from January 1, 2020 till present. During the training task performed each are enlisted in the following table:

MONTH	TASK
MONTH 1	1. Overview of Google Apps Script.

	<ul style="list-style-type: none"> 2. Explore technologies such as Apps Script, Node JS, Angular JS, MySQL 3. B4E Spreadsheet Automation. 4. Testing Maalgaadi Mobile App.
MONTH 2	<ul style="list-style-type: none"> 1. Starting from scratch for Emailer Application. 2. Manage Template, Manage Customer List and Emailing functionalities developed. 3. Manage Spreadsheet functionalities. 4. Design of all JSP pages. 5. Apps Script Automation of Parking details Spreadsheet.
MONTH 3	<ul style="list-style-type: none"> 1. Exporting templates to Google Spreadsheet. 2. Spreadsheet Data validation API. 3. Session applied in Application. 4. Apps Script automation of B4E.
MONTH 4	<ul style="list-style-type: none"> 1. Trigger responses on connected sheets. 2. Email sending on new user registration. 3. Refresh export template functioning. 4. Deploying on Server and revamping Login page.

MONTH 5	1. Google Forms integrated. 2. Google Contacts integrated. 3. Manage SMS section completed. 4. Send mail by SendGrid completed.
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Table 2.2.1: Monthly Task

2.3. Work Done

I was a part of team working over their live projects – Maalgaadi Mobile App, Bike4Everything and Emailer Application which I have developed from scratch and is still under development.

- In this project, I had to automate the B4E records spreadsheet by writing Apps Script code in Apps Script editor of Google Spreadsheet and make it more automated and react to certain decisions like changing values, sending emails, saving files to drive, making PDF's of spreadsheet, etc. I have used Apps Script programming language for this.
- For MaalGaadi Mobile App, I had to test their mobile app regarding bugs related to functioning and proper design of the app and whether further improvements were needed. I did Alpha testing on the mobile app.
- For Emailer Application, I was part from the initial steps to develop this application. I had worked on this project from scratch and have been working on this in all phases of the development of this application. Right from planning, developing the designs, API, and backend of this application to deploying it on the company's server, I have been a part of development of this application.

In this project my role was to develop the application from every aspect, may it be of designing the web pages or developing API, integrating them, developing logics ,handling database and deployment on server, I have been a part of this project. I have used Java and JSP as the backend programming languages in this project and

have used NetBeans IDE as the codebase platform. Also, I have used MySQL Workbench to handle the database.

Number of hours per day	:	9 hrs. / day
Number of days per week	:	6 days / week
Projects developed	:	Emailer Application (from scratch). B4E Apps Script Automation. Automation on various spreadsheets. Maalgaadi Mobile App Unit Testing

Table 2.3.1: Schedule during Industrial Training

2.3.1. Screenshots of Work Done

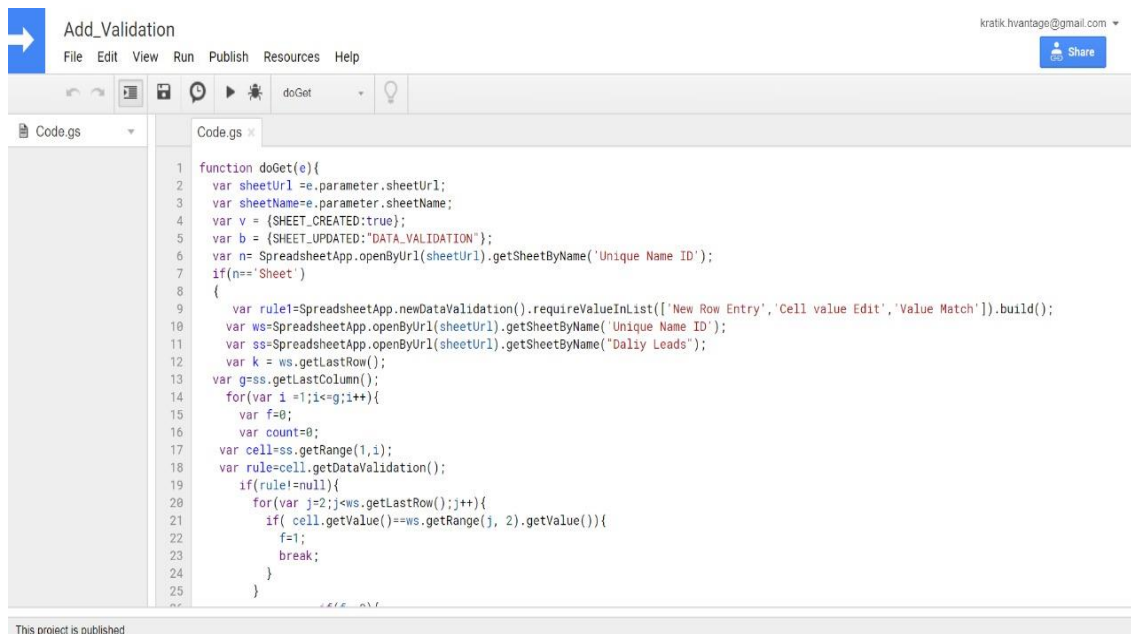


Fig. 2.3.1.1: Apps Script Editor

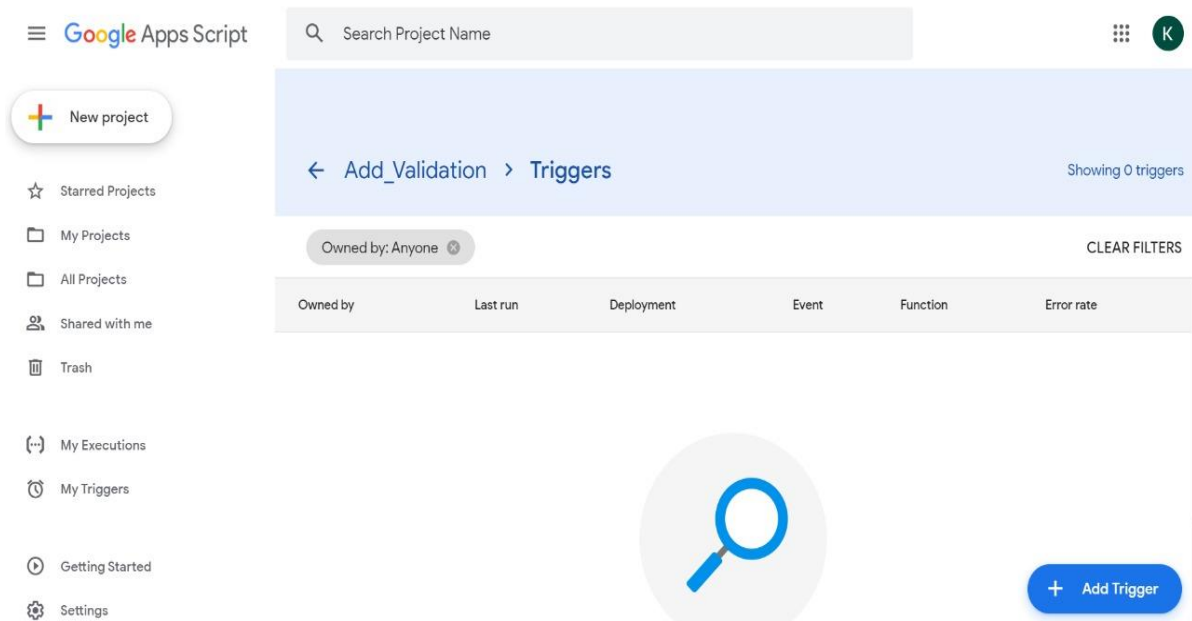


Fig. 2.3.1.2: Apps Script Trigger List

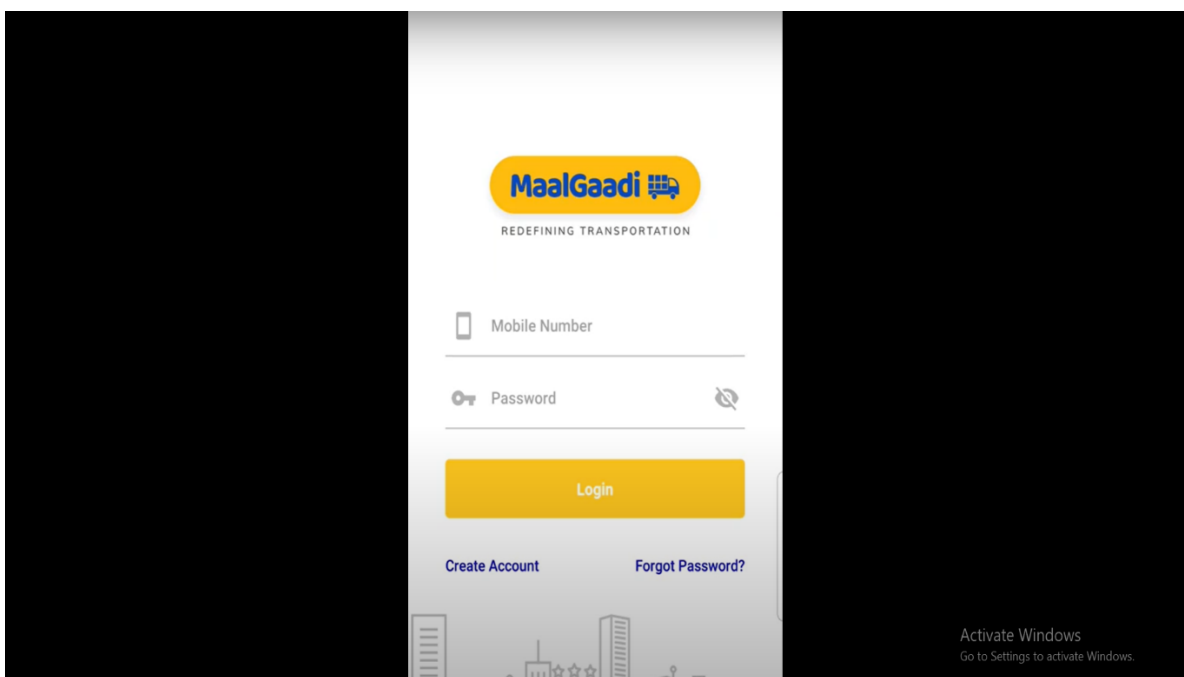


Fig. 2.3.1.3: MaalGaadi Mobile App Login Page

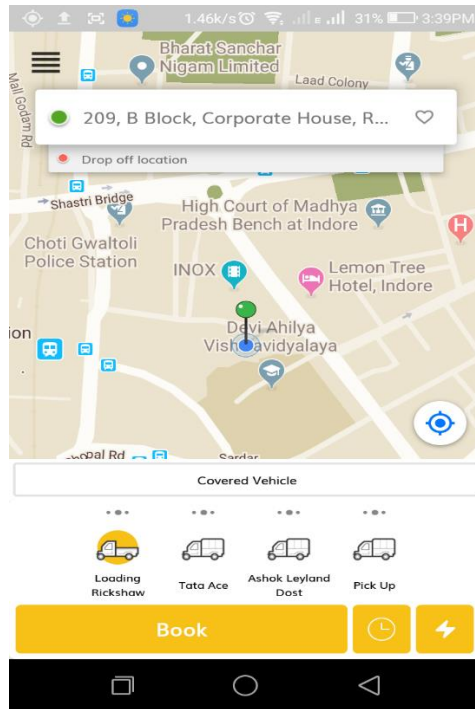


Fig. 2.3.1.4: MaalGaadi Mobile App Home Page

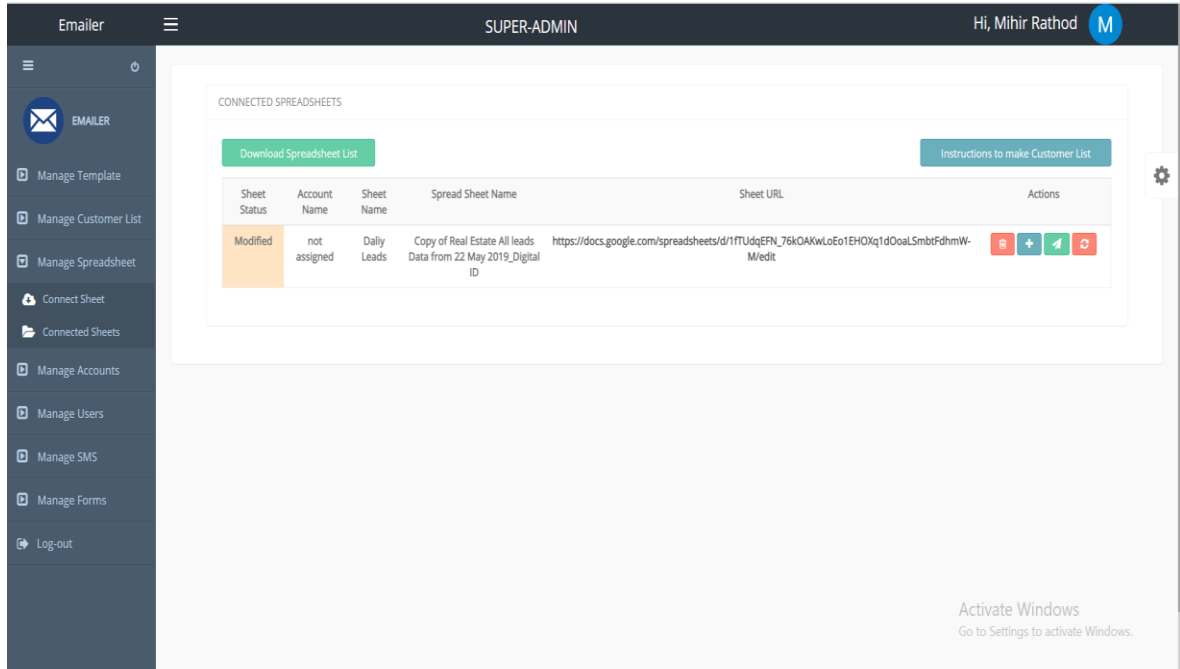


Fig. 2.3.1.5: EMailer Connected Sheets Page

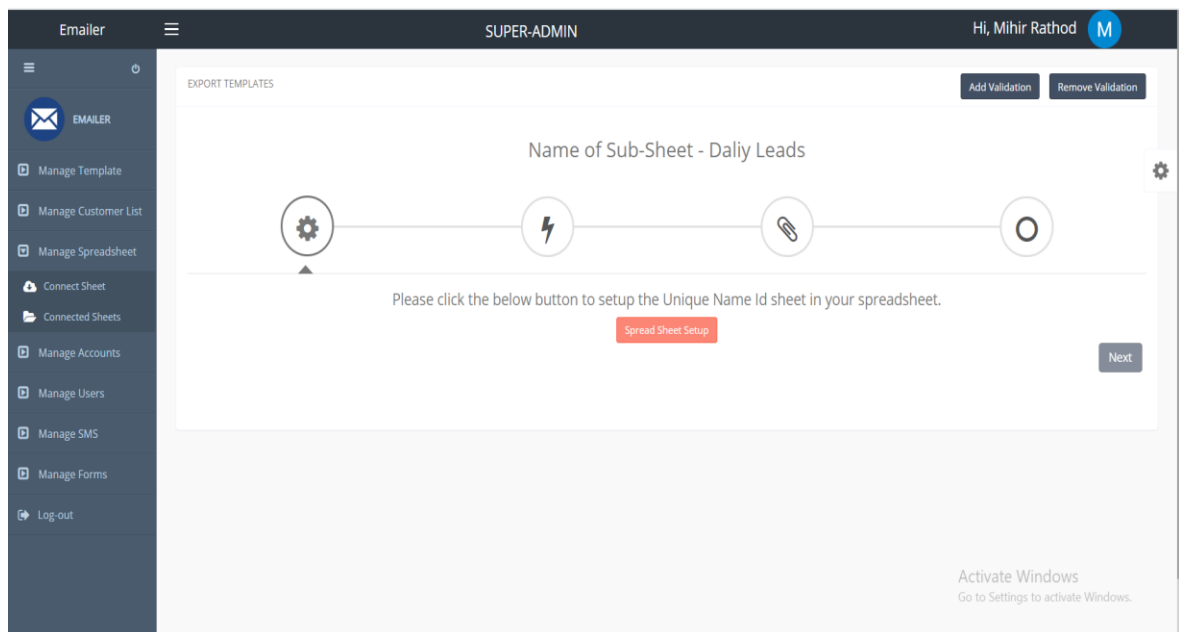


Fig. 2.3.1.6: Emailer Export Templates Page

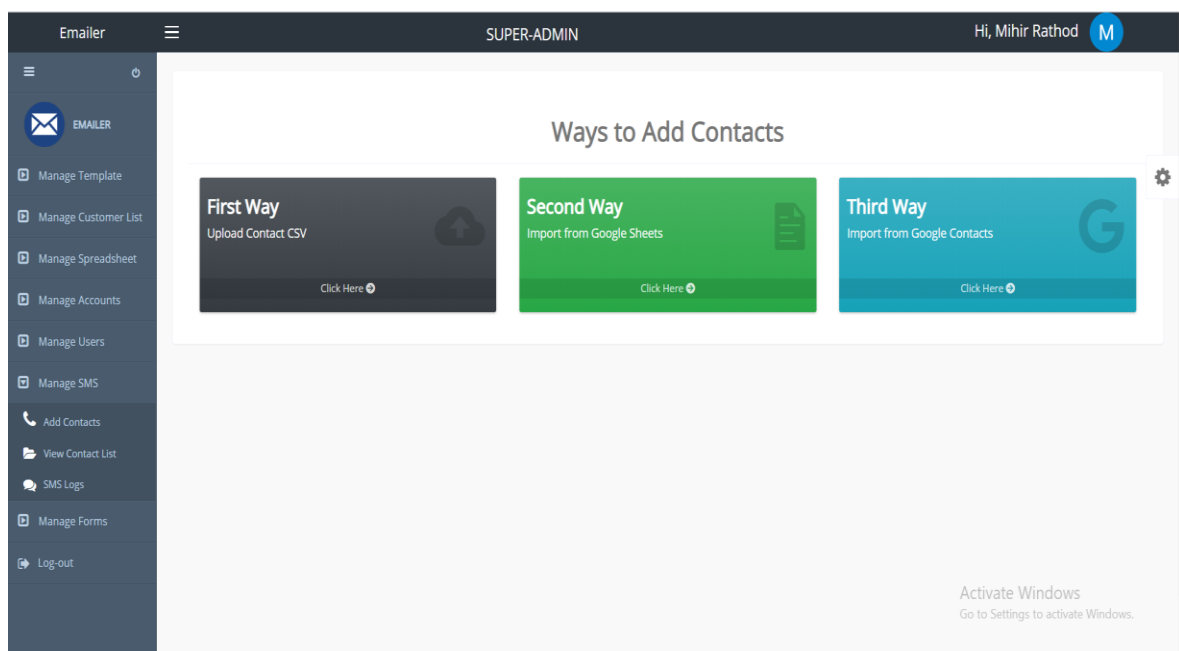


Fig. 2.3.1.7: Emailer Add Contacts Page

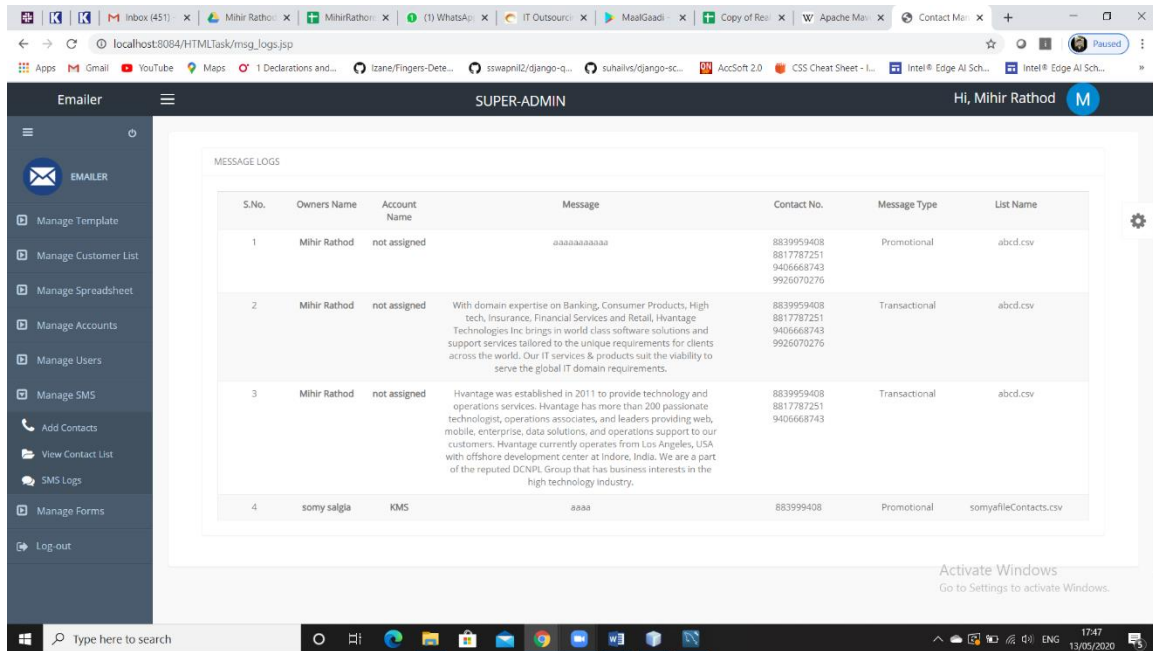


Fig. 2.3.1.8: Emailer Message Logs Page

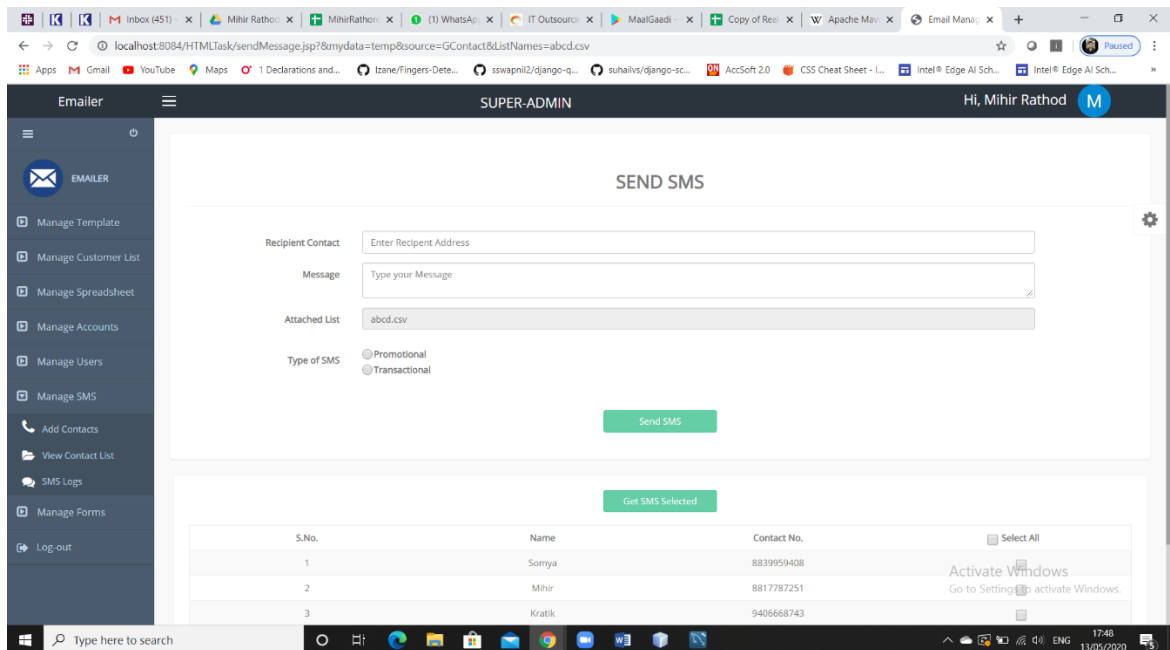


Fig. 2.3.1.9: Emailer Send SMS Page

Chapter 3

Project Work

3.1. Problem Domain:

- Previously when different companies have to Email marketing or digital marketing it's a very tedious process because one has to select the list of customer and then design the content of email manually.
- Also, he or she has to attach the template which is to be sent by first designing or downloading it from other sources and then send it by attaching it one by one manually to all the other user or customer which is a very tedious process.

3.2. Solution Domain:

- Emailer is tool where the user can design his or her template on the same platform and can send it to the attached customer list simultaneously.
- User can not only send his or template but also store it in our database for further uses. Also he/she can also edit these templates according to him.
- User can design Google forms for Surveying and can also export any customer list in CSV format.

3.3. Description

Emailer Application is the project I have made in Project Work which is a small module of our vast project developed during our internship. This application allows users to have their own Email Marketing Campaign along with capability to create and upload templates, create and upload Customer Lists, create Accounts, Super Admin, assign accounts and roles to users and give them a user friendly experience. This project has only Google Login system for secured connection. For which we have used OAuth 2.0.

- Super Admin Panel

The Super Admin Panel, as the name suggests, can only be accessed by Super Admin and has access to all functionalities in our application which are Manage Templates, Customer List, Spreadsheet, Forms, SMS, Business Accounts and Registered Users.

Major functionalities with Super Admin access includes-

- Access to every template, customer lists, connected sheets and users linked with this application.
 - Every user wanting to register for our application requires access from Super Admin who will assign the user an account.
 - Super Admin can create accounts as well as another Super Admins if he/she wants to make one.
- Business Admin Panel

The Business Admin Panel can be accessed by the Admins of specific Business Accounts. Business Admins can handle the users linked with their respective Business accounts.

Major functionalities with Super Admin access includes-

- Access to every template, customer lists, connected sheets and users linked with their respective business accounts.
 - Every user wanting to assign a role for our application requires access from Business Admin who will assign the role of users.
- User Panel

User Panel can be either Template Creator or Template Sender depending on the role assigned to them.

User Panel has functionalities creating and uploading templates, creating and uploading customer lists depending upon their role.

They are registered by Super Admin and assigned their roles by Business Admins.

Highlights of Emailer Application-

- **Manage Templates-**

Here, there are facilities to create templates using our Text Editor with various add ons to enhance the created templates. Also, we can upload templates if any prepared template is available and view it in 'View Template List' section. Templates can be mailed by selecting a particular customer list containing email ID of people to whom the mail is to be sent though SMTP mailing or SendGrid mailing.

- **Manage Customer List-**

Here, there are facilities to create customer list manually. Also, we can upload customer lists if any prepared list is available and view it in 'View Customer List' section. Customer Lists can be mailed by selecting a particular templates containing content to be mailed though SMTP mailing or SendGrid mailing.

- **Manage Accounts-**

Here, there are facilities to create business accounts by giving detailed information required there. Accounts can be managed under 'View Registered Account' section. Here, only Super Admin has the access to this section. There is a functionality to create Super Admins if needed.

- **Manage Forms-**

Here, we have created an environment where we can access Google Forms from this application and create forms and view them in this application. The primary need to access forms here is to allow a chrome extension called 'iFrame Allow'.

- **Manage Users-**

Here, there are facilities to create users by assigning them account from all of the registered accounts. Also, the Super Admin can assign users their respective accounts from here and Business Admins can assign roles to the registered users.

3.4. Screenshots of Emailer Application



Fig. 3.4.1. Emailer Login Page

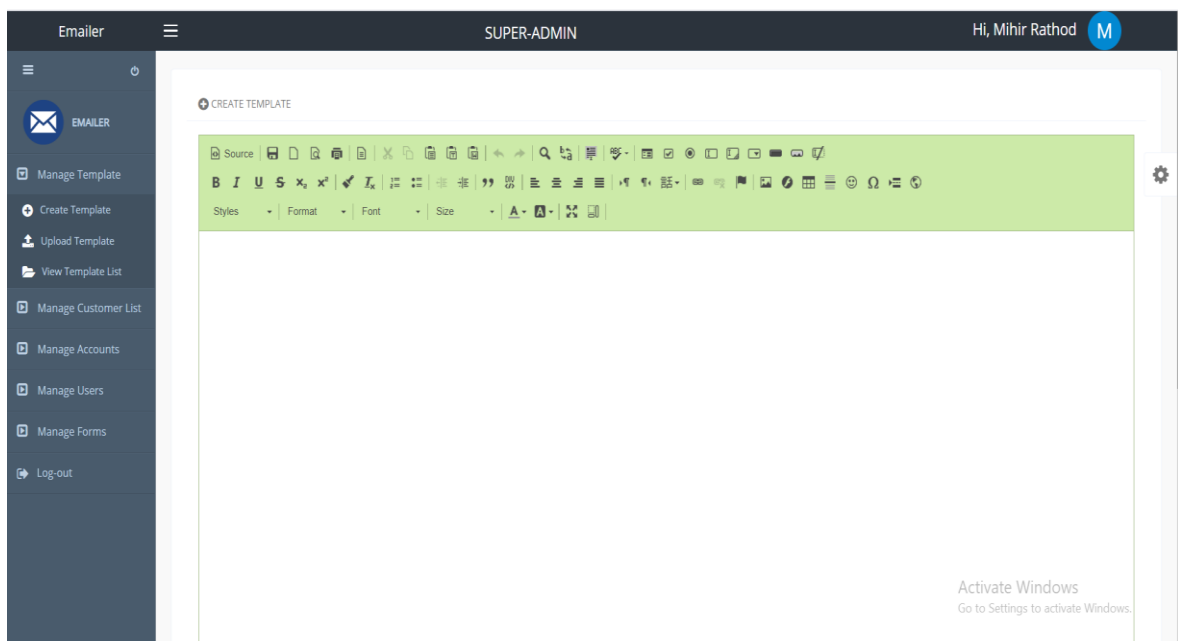


Fig. 3.4.2. Emailer Create Template Page

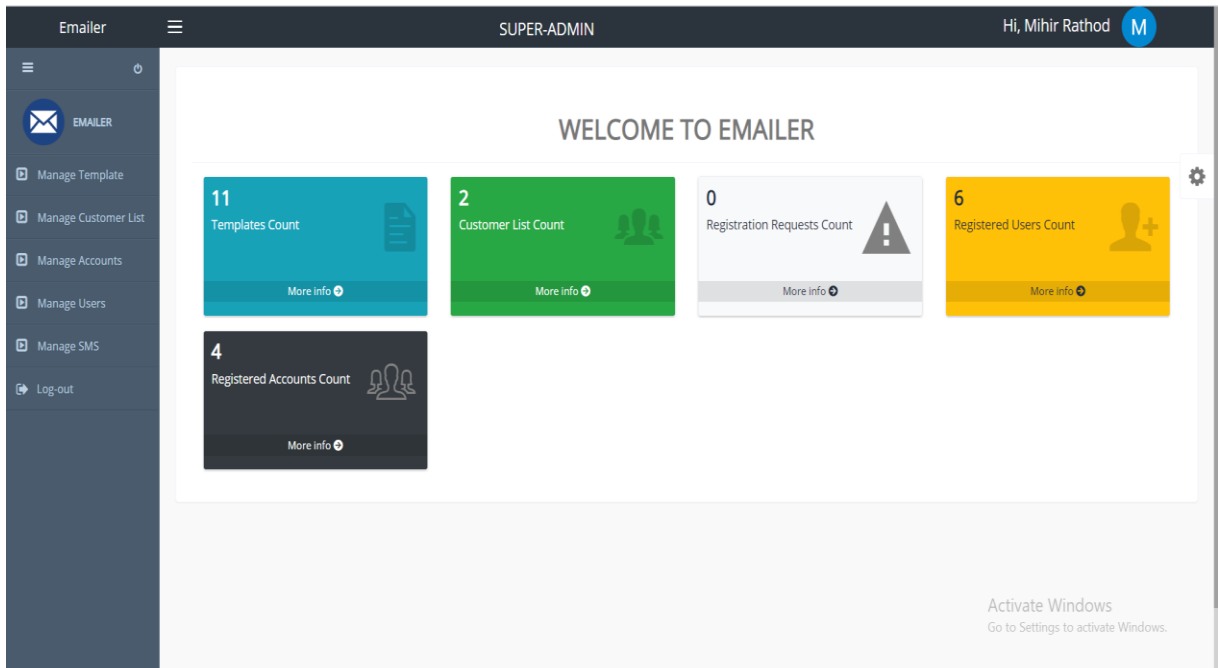


Fig. 3.4.3. EMailer Home Page

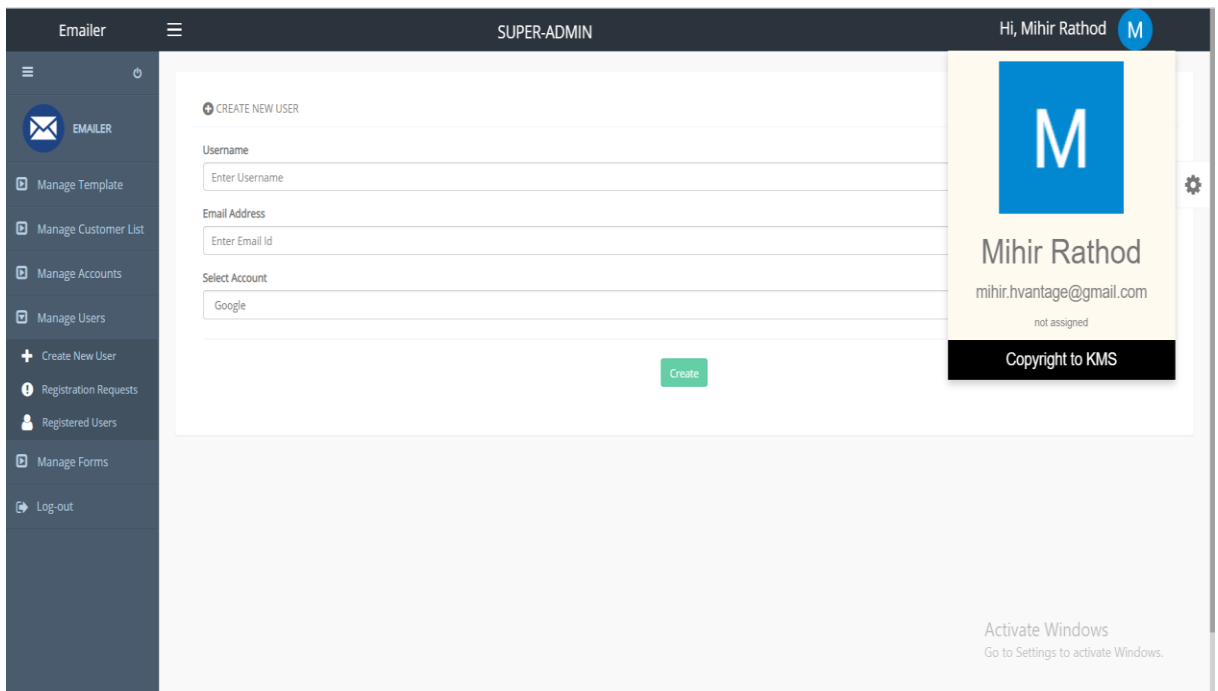


Fig. 3.4.4. EMailer Create New User Page

SEND MAIL

Recipient Address:

Subject:

Attached File:

Attached List:

S.No.	Name	Email
1	Mihir	mihir.hvantage@gmail.com
2	Kratik	kratik.hvantage@gmail.com

Fig. 3.4.5. EMailer Send Email Page

Create and Manage Forms

Start a new form

Template gallery

Blank Contact Information RSVP Party Invite T-Shirt Sign Up

Recent forms

Owned by anyone

Fig. 3.4.6. EMailer Manage Forms Page

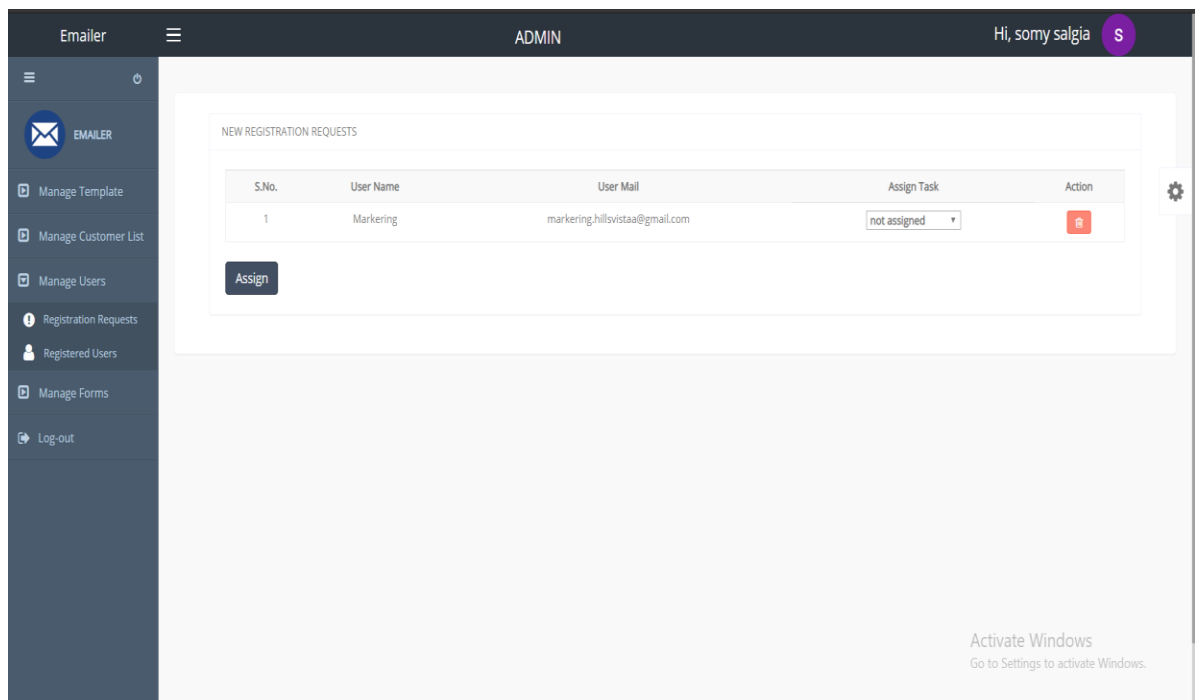


Fig. 3.4.7. EMailer Assign Role Page

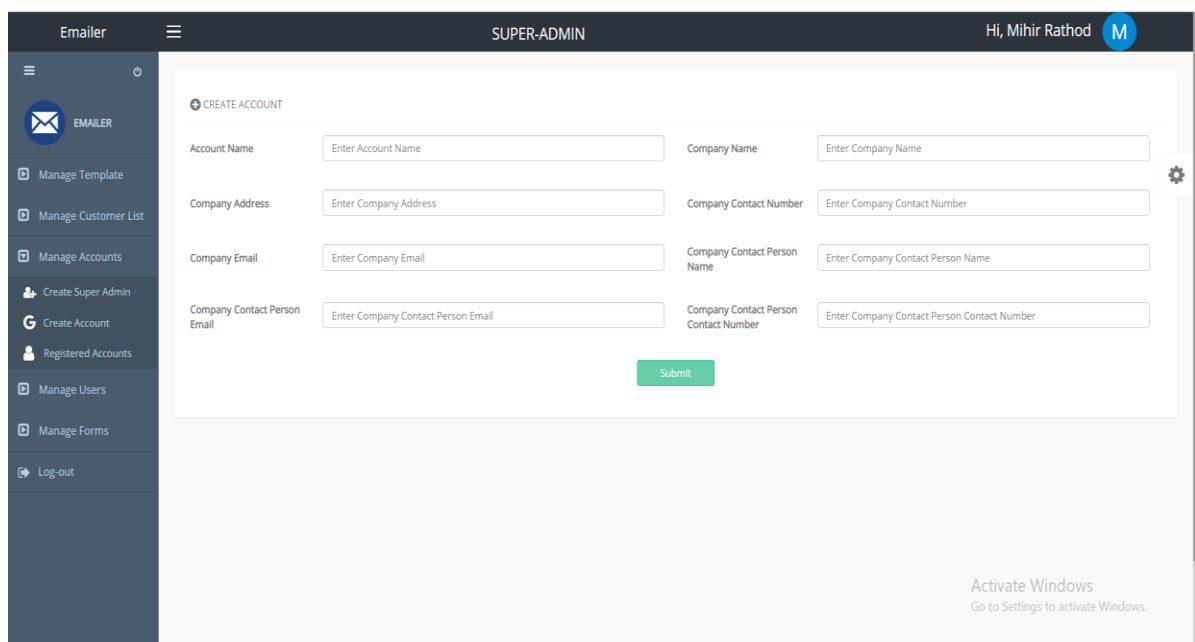


Fig. 3.4.8. EMailer Create Account Page

Chapter 4

Learning After Training

3.1. Learning after Training

This Internship was a full package of lots of learnings. It was executed such that it covers most of the topics which we were familiar only in the books. With the help of this internship we had an opportunity to apply what we have learnt in our course curriculum. Also, I learnt how to manage a company or an industrial environment and work accordingly. This internship made me learn practicality about a lot of things in technical domain. I improved my soft skills as well as I was exposed to the office culture which made me learn about the corporate culture. Some of the key learnings of this internship are:

- Improvement in communication skills.
- Time Management.
- Learnt about new functionalities in python technology.
- Learnt about deployment of website application.
- Network with professionals in the field.
- Learnt how to cooperate with the team.
- Develop and refine skills.

Chapter 5

Conclusion

4.1. Conclusion

During this internship, I gained a lot of experience, knowledge & exposure in the computing world. It helped me boost my self confidence in technology domain. During my industrial training, there were many changes from the point of learning environment & discussion among colleagues. Therefore, I conclude that industrial training program has provided many benefits to students in gaining exposure to the technological field. I was totally satisfied with my training as I could implement my theoretical knowledge in practical aspect from an organization. It also allowed me to explore within a different domain & gain knowledge of it through self-learning.

The daily 9 hours working in an organization has added a certain amount of patience, continuity, and responsibility of completing the tasks given which will give me a head start to my upcoming career in this field.

Chapter 6

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