

# Flipr Hackathon 9.0

Full Stack Web Development Task

Theme: Corporate Mailing

## Group Profile



### **Webdevelopers**

**Team name:**

Webdevelopers

**Team Members:**

- 1)Ganji Pradeepthi(19wh5a0503).
- 2)Eunice Kuraganti(19wh5a0402).
- 3)Panja Nikitha(19wh5a0404).

## **FULL STACK WEB DEVELOPMENT**

**Full stack development:** It refers to the development of both **front end**(client side) and **back end**(server side) portions of web application.

**Full stack web Developers:** Full stack web developers have the ability to design complete web application and websites. They work on the frontend, backend, database and debugging of web application or websites.

### **Technology related to full stack development:**

**Front end:**It is the visible part of website or web application which is responsible for user experience. The user directly interacts with the front end portion of the web application or website.

**Front end Languages:**The front end portion is built by using some languages which are discussed below:

- **HTML:** HTML stands for Hyper Text Markup Language. It is used to design the front end portion of web pages using markup language. HTML is the combination of Hypertext and Markup language. Hypertext defines the link between the web pages. The markup language is used to define the text documentation within tag which defines the structure of web pages.
- **CSS:** Cascading Style Sheets, fondly referred to as CSS, is a simply designed language intended to simplify the process of making web pages presentable. CSS allows you to apply styles to web pages. More importantly, CSS enables you to do this independent of the HTML that makes up each web page.
- **JavaScript:** JavaScript is a famous scripting language used to create the magic on the sites to make the site interactive for the user. It is used to enhancing the functionality of a website to running cool games and web-based software.

- **Back end:** It refers to the server-side development of web application or website with a primary focus on how the website works. It is responsible for managing the database through queries and APIs by client-side commands. This type of website mainly consists of three parts front end, back end, and database.

The back end portion is built by using some libraries, frameworks, and languages which are discussed below:**PHP:** PHP is a server-side scripting language designed specifically for web development. Since, PHP code executed on server side so it is called server side scripting language.

- **C++** It is a general purpose programming language and widely used now a days for competitive programming. It is also used as backend language.
- **Java:** Java is one of the most popular and widely used programming language and platform. It is highly scalable. Java components are easily available.
- **Python:** Python is a programming language that lets you work quickly and integrate systems more efficiently.
- **JavaScript:** Javascript can be used as both (front end and back end) programming languages.
- **Node.js:** Node.js is an open source and cross-platform runtime environment for executing JavaScript code outside of a browser. You need to remember that NodeJS is not a framework and it's not a programming language. Most of the people are confused and understand it's a framework or a programming language. We often use Node.js for building back-end services like APIs like Web App or Mobile

App. It's used in production by large companies such as Paypal, Uber, Netflix, Walmart and so on.

- **Back End Frameworks:** The list of back end frameworks are: Express, Django, Rails, Laravel, Spring etc.
- The other back end program/scripting languages are: C#, Ruby, REST, GO etc.

# Problem Statement

## Intent:

You are expected to build a full stack web application where users can login and send recurring mails to the recipients.

Your application is expected to have certain features which are listed down below:

- **Login and signup via**

- Username - password
- Gmail Sync (Login with Gmail option)
- **Create/Edit the mail features.** (further explained below)
- **Home page** ( has the list of all the mails scheduled for future)
- **History Page** ( has the list of mails sent till now )

## Features of corporate mail:

### 1. The general mail features should be included like

- To
- CC
- Subject
- Schedule Selector (further explained below)
- Mail Body
- Send Mail Button

### 2. You can include text editing features as well which will attract extra points. This may include:

- Making the text bold or italic
- Changing the colour of the text
- Changing the font type of the text

### 3. You are expected to develop an application specifically using MERN stack.

## Deployment :

- 1) Upload the code on any version control like github, gitlab, bitbucket
- 2) Deploy the frontend and backend code on any cloud platform like AWS, Microsoft Azure, Google Cloud, Heroku or any other platform.
- 3) For databases, kindly use a **free tier sandbox on MongoDB**

## Corporate Mailing

Email communication is important type of written communication. Today, communications are conducted among business firms, organizations and companies mostly via emails. This is not only the cheapest but also the most reliable means of communications. The companies and organizations communicate with other companies and organizations for business purposes through emails. The orders are placed through emails; the enquiries are placed through emails; the picture samples of being imported/exported things are sent via emails as attachments. Moreover email provides most authentic and secure means of communication. The records of past emails can be retrieved very easily in moments.

Nowadays, email communications has extended to more than business among employees, which opens doors to many ethical and technological complications. In some cases employees tend to spread rumors about other staff or organizations, disclose information or data to unwanted parties, use offensive language in their communication which conflict the ethical practices of an individual in organizations.

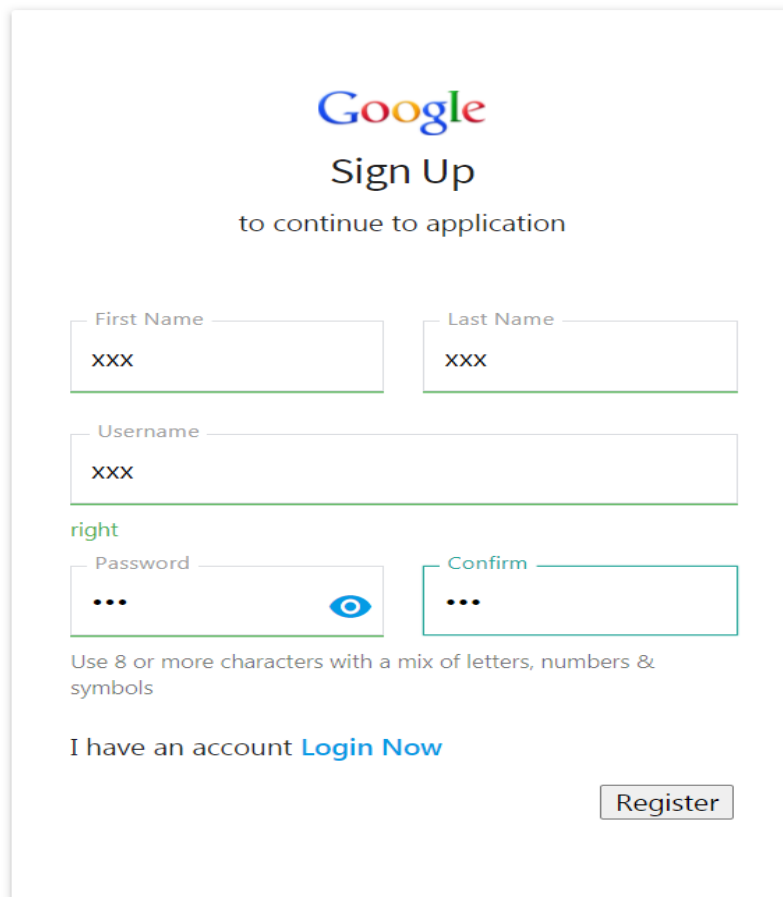


## Task outputs

- **Login and signup via**

- Username - password

Gmail Sync (Login with Gmail option)



The image shows a Google Sign Up form. At the top is the Google logo, followed by the text "Sign Up" and "to continue to application". Below this are four input fields: "First Name" and "Last Name" (both containing "xxx"), "Username" (containing "xxx"), and "Password" and "Confirm" (both containing "..."). The "Password" field has a toggle icon (an eye) to its right. Below the password fields is a note: "Use 8 or more characters with a mix of letters, numbers & symbols". At the bottom left, it says "I have an account" followed by a blue link "Login Now". At the bottom right is a "Register" button.

Google

Sign Up


to continue to application

First Name

Last Name

Username

right

Password  

Confirm

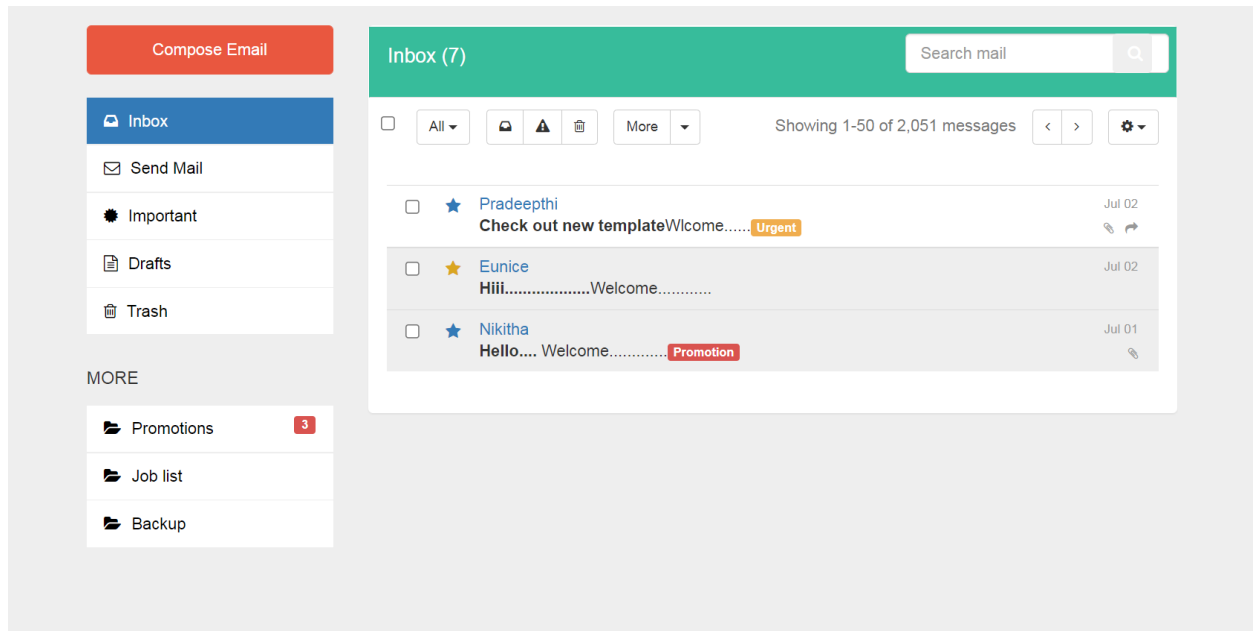
Use 8 or more characters with a mix of letters, numbers & symbols

I have an account [Login Now](#)

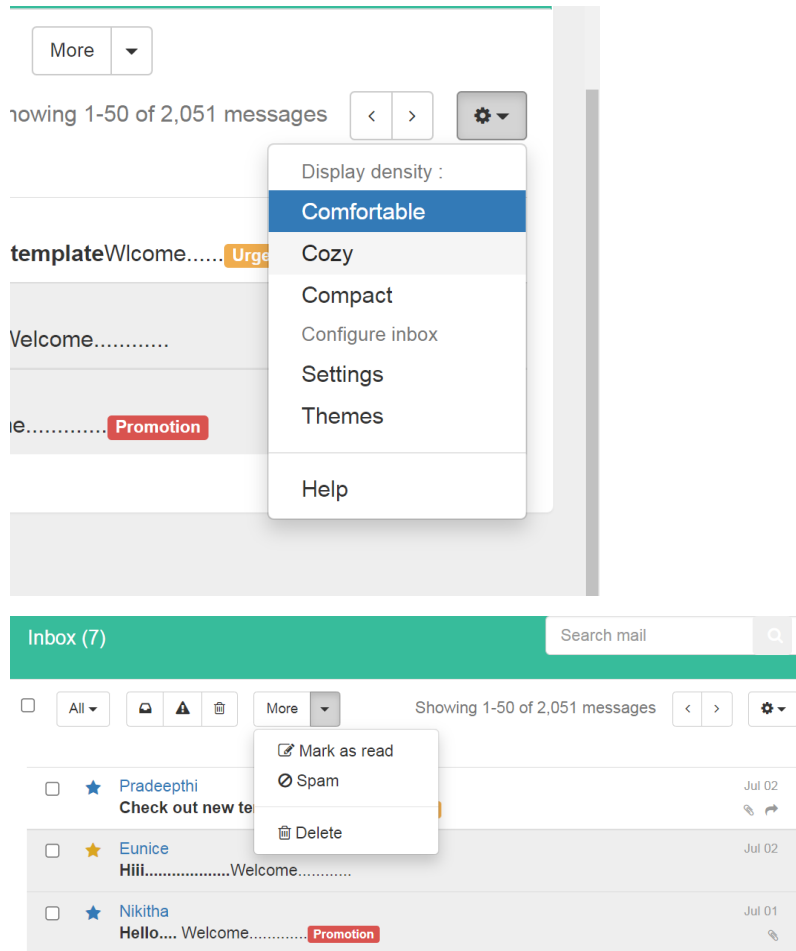
Register



- **Home page** ( has the list of all the mails scheduled for future)

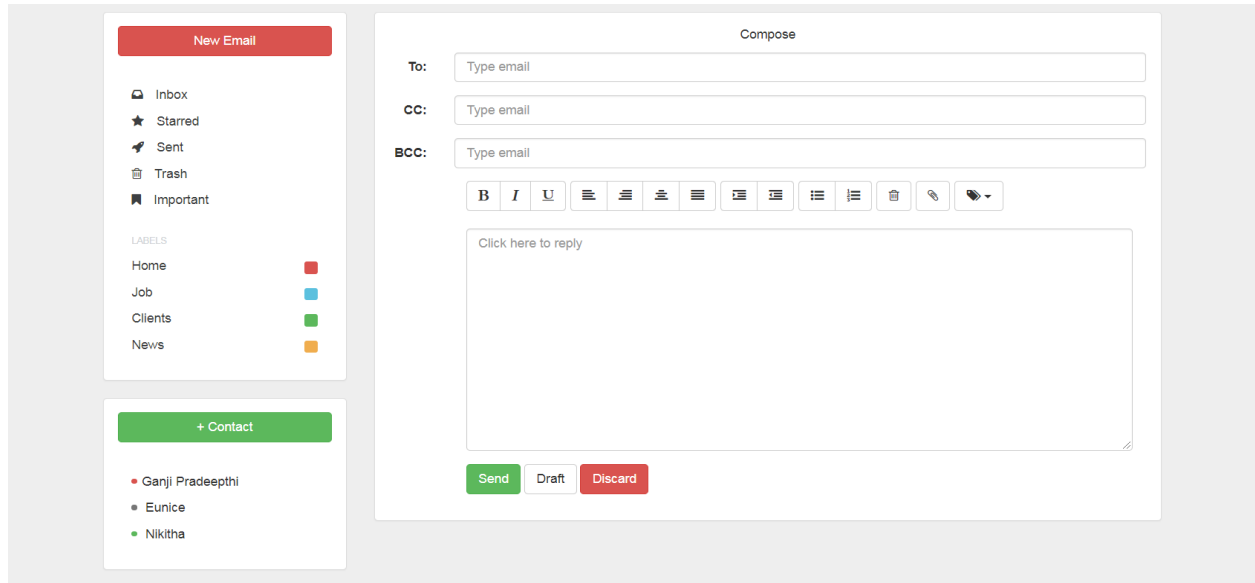


## Flipr hackathon 9.0



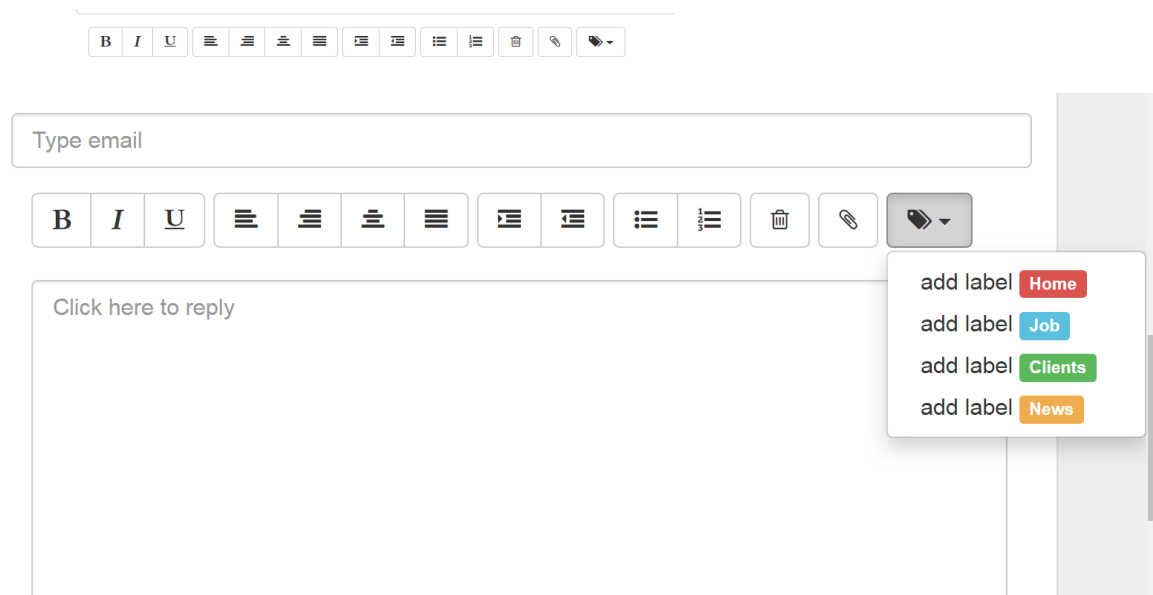
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**Project links:**

<https://github.com/eunicek-333/gmailapplication>

**Collaborators:**

<https://github.com/pradeepthi503>

<https://github.com/PanjaNikitha>

<https://github.com/eunicek-333>