

# **MealApp**



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## I. Executive Summary

This report encapsulates the development journey of MealApp, a client-side front-end web project focused on creating an intuitive meal and recipe search platform. The purpose of this report is to document the challenges faced, solutions implemented, and the collaborative efforts of the team.

MealApp aims to simplify culinary exploration, drawing inspiration from user-friendly weather apps. We employed Firebase Auth for secure user signup/login, ensuring a personalized experience. Integration with [themealdb.com](https://www.themealdb.com/) API adds a vast database of recipes, enhancing the platform's functionality.

A distinctive feature is the use of local storage for storing user search history, prioritizing scalability and user convenience. This report serves as a concise record of our journey, highlighting key decisions and contributions from each team member. It aims to provide stakeholders with insights into the project's development process and the creation of MealApp as a user-centric culinary platform.

## II. Project Roles

In the collaborative development of MealApp, various roles were undertaken to ensure the project's success. The distribution of responsibilities among these roles played a pivotal role in the creation of this project. While the roles may vary, the roles can be categorized as follows:

1. Joseph Imanuel
  - UI Web Design
  - CSS
  - Login and Register Pages
  
2. Matthew Gareth
  - Connect Login and Register to the Firebase
  - Connecting the MealDB API
  
3. Rakha Ramiro
  - Creating the Search History
  - UI Web Design

### III. Project Implementation

To create this Meal App Website, the things we need to do is:

- Create the React App
- Installing the Firebase
- Installing the react router dom in order to have the router enabled for the app files that are separated
- Create folders to store all the JavaScript files
- Implement the code of the files into the App JavaScript also making the register function and login function
- Then we create the history function to store the history everytime the user search.

## IV. Challenges and Solutions

Throughout the creation of MealApp, we faced various challenges that pushed us to find smart solutions. This section dives into the hurdles we encountered and how we tackled them. From making sure user logins were secure to smoothly connecting with an external recipe database and efficiently storing search history, each challenge spurred our team to think creatively and come up with effective solutions. This part of the report highlights our problem-solving journey, showcasing the adaptability and innovation that contributed to the success of MealApp.

### 1) **LocalStorage Implementation for Search History:**

- a) *Challenge:* The efficient storage and retrieval of user search history presented a challenge during the development of MealApp.
- b) *Solution:* Our team opted for a pragmatic approach by utilizing local storage. This solution met our search history storage needs effectively, maintaining efficiency without compromising scalability.

### 2) **User Interface Design:**

- a) *Challenge:* Striking the right balance between aesthetics and functionality for an intuitive user interface was crucial.
- b) *Solution:* The collaborative efforts of our front-end developers became the key solution. Through their teamwork, a visually appealing and user-friendly design emerged, ensuring an optimal user experience and seamless interaction with MealApp.

### 3) **User Login and Registration:**

- a) *Challenge:* Ensuring a seamless integration of user login and registration processes with Firebase presented a significant challenge.
- b) *Solution:* Leveraging Firebase Auth for user authentication not only guaranteed the security of user credentials but also streamlined the registration and login processes. This solution played a pivotal role in enhancing both security and the overall user experience, contributing significantly to the success of MealApp.

