Food Recipe React App

Final Project Report
Client Side Web Programming

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I. Executive Summary

In this Client Web Programming Final Project, we are developing a Food Recipe App that utilizes TheMealDB API for viewing full dish recipes and sorting categories. Additionally, we have integrated Firebase for email-based authentication and Google sign-up and sign-in functionality. The application is constructed using React.js, with the goal of providing users with a streamlined platform for exploring recipes.

II. Project Roles

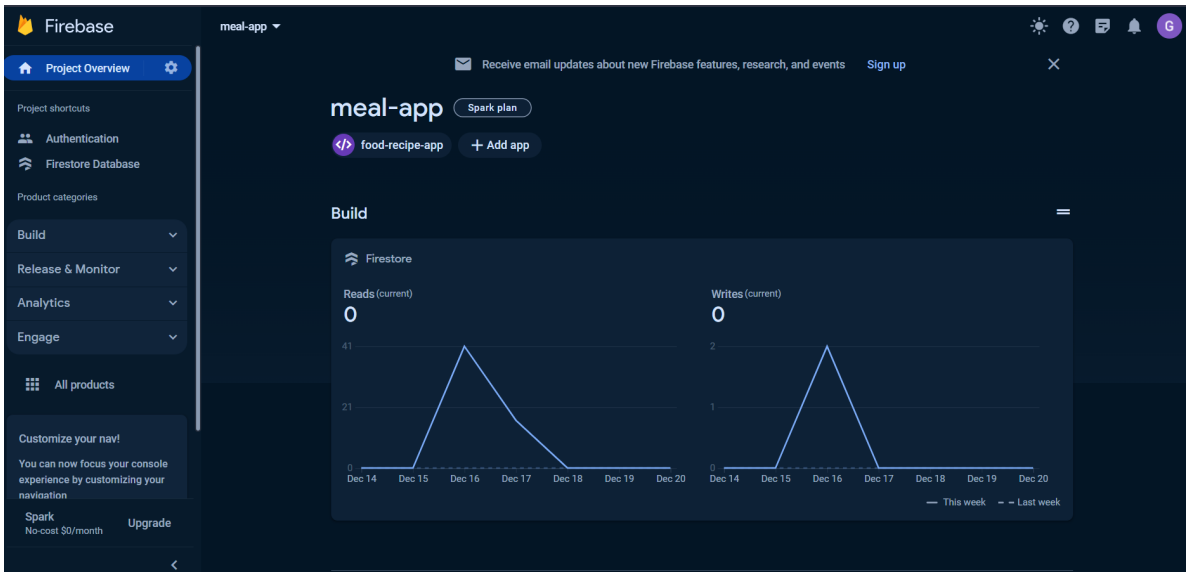
- **Matthews Wong**: Matthews Wong specializes in the backend aspects of the project. His primary responsibilities include integrating Firebase for sign-in and sign-up functionality, as well as configuring the API integration with TheMealDB.com to enable recipe searches and category views.

- Bryant Aryadi: Bryant Aryadi is primarily focused on the frontend of the project. His role centers on designing the CSS to create an appealing and user-friendly interface. Additionally, Bryant is responsible for identifying and resolving bugs, particularly those related to the correct fetching of search history data, to ensure a seamless user experience.

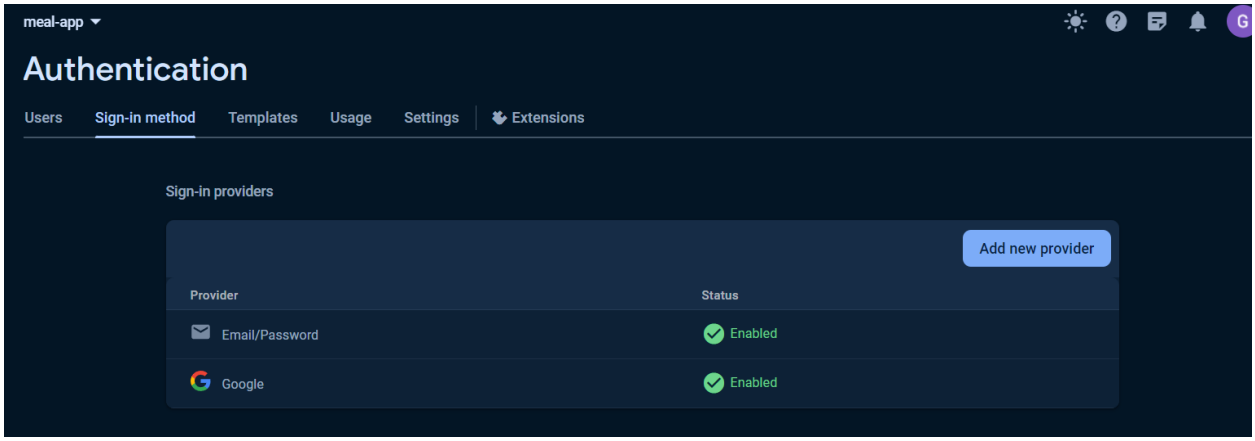
- Nabhan Anuz: Nabhan was primarily in charge of connecting the user search history to the firebase allowing for storage of each user's history to be held in the firebase. This was, however, unsuccessful as it was deemed a more challenging task than it first seemed due to the lack of understanding of firebase functionality and error handling. Another contribution; although minor, was on handling the spacing and positioning of elements on the main page in the recipe search and category view, as well as trying to allow the food listed on the categories page to be searchable via click.

III. Project Implementation

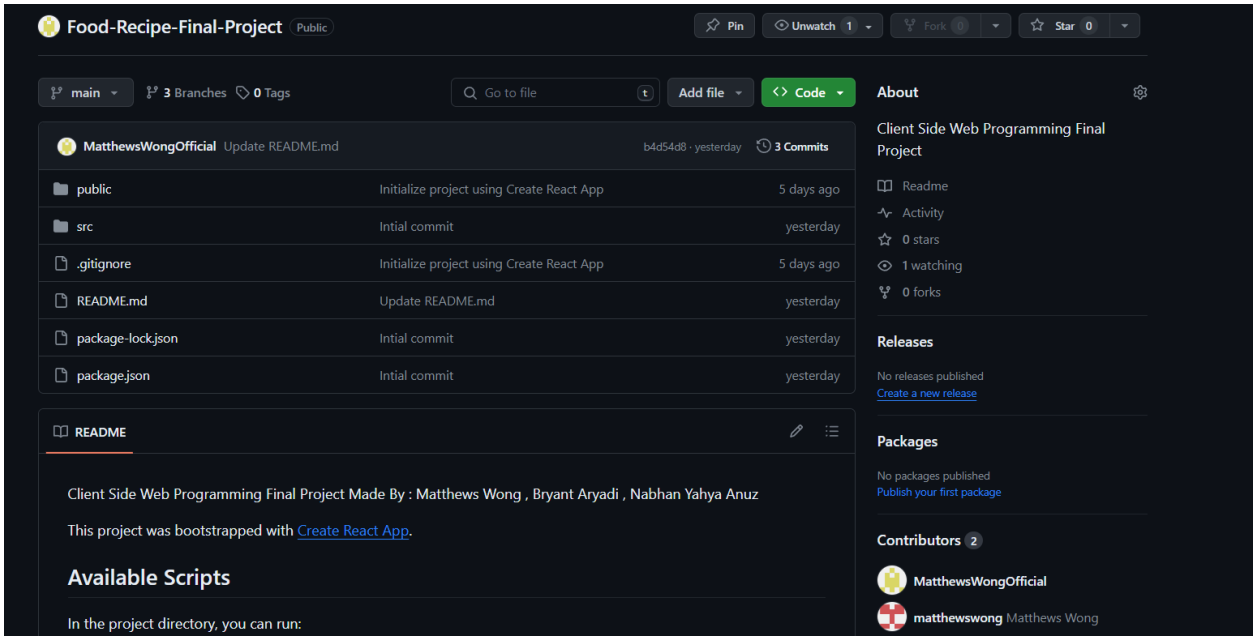
Initializing the firebase for authentication



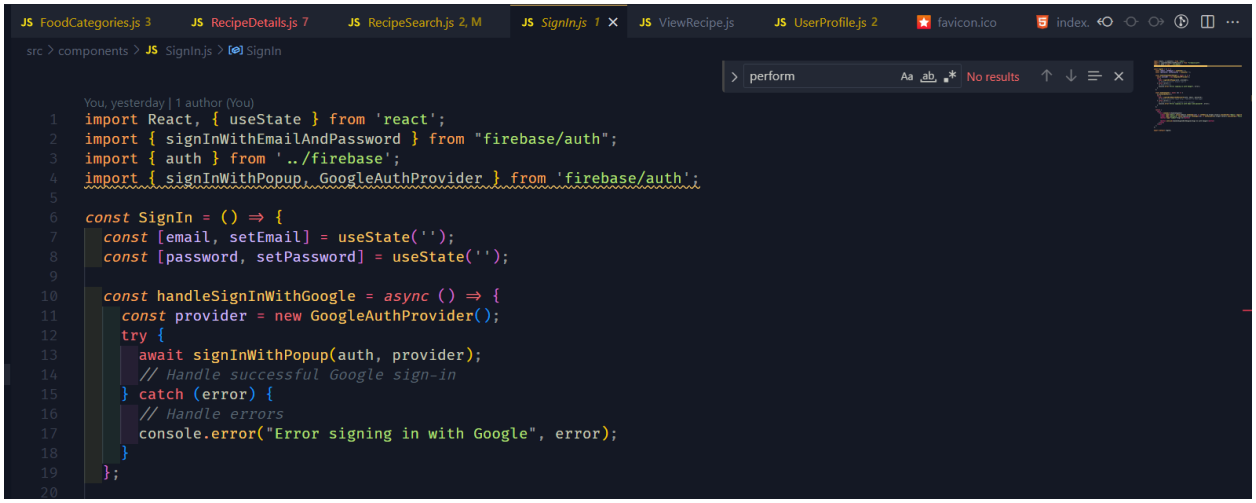
Enabling email and google for the authentication services . This integration is used for sign in and sign up features .



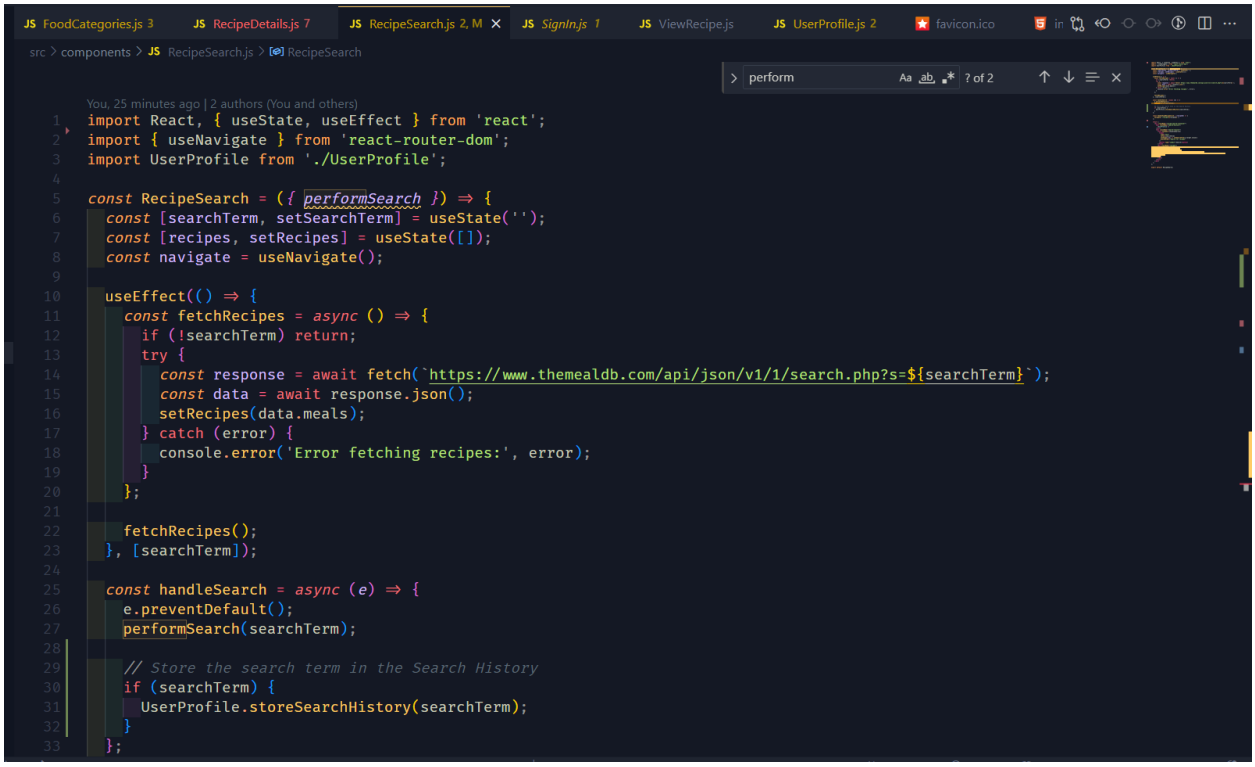
Creating the github repository for a better collaboration



This code is utilized for implementing sign-in and sign-up functionalities.

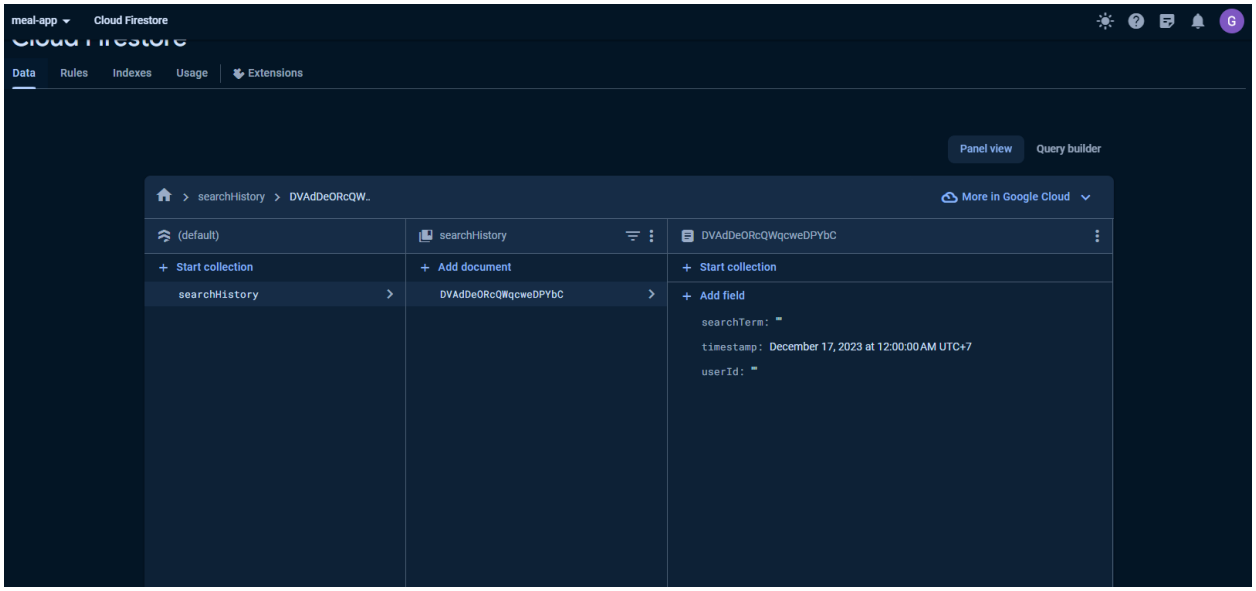


Using themealdb.com for the recipes information

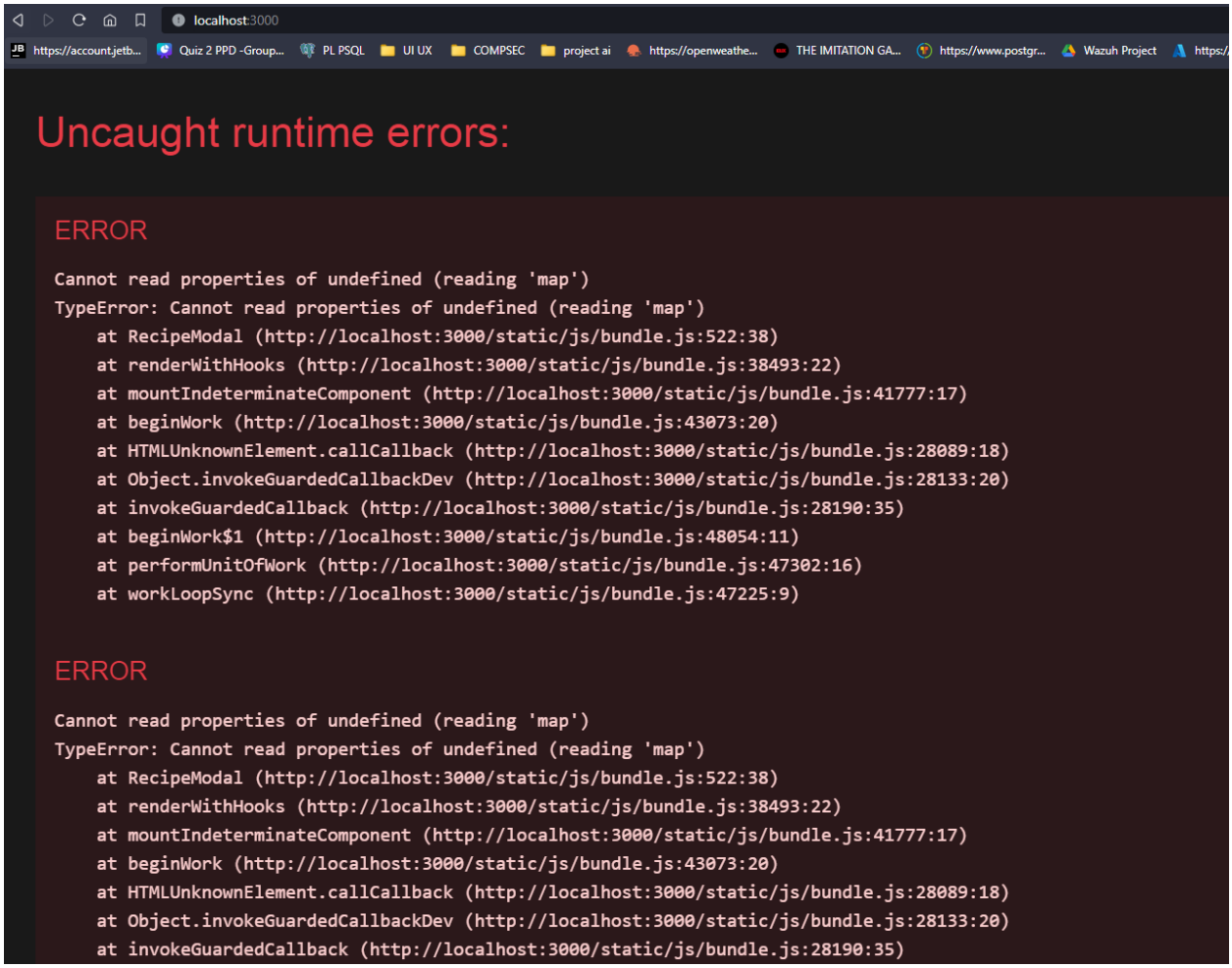


IV. Challenges and Problem Solving

We tried using Firestore to store user search history, but we had trouble integrating it successfully. So, we decided to switch to using local storage for each logged-in user to store their search history.



There is a problem to get the data of the ingredients from the API



Then we solve the problem by making a new function

```
const handleViewRecipeClick = async (recipeId) => {
  try {
    const response = await fetch(`https://www.themealdb.com/api/json/v1/1/lookup.php?i=${recipeId}`);
    const data = await response.json();
    if (data.meals && data.meals.length > 0) {
      setSelectedRecipe(data.meals[0]);
    }
  } catch (error) {
    console.error('Error fetching recipe details:', error);
  }
};
```