

Meal Search Platform with Firebase Authentication



By:

Antoinetta Kayla Ajani - 12202005

Lidya Aurelcia - 12202034

Samuel Kevin Laluyan - 12202009

Client Side Final Project

**Bachelor of Information Technology Faculty of Engineering & Information
Technology**

I. Introduction

1. Background

The development of this meal recipe search platform aims to provide an easier and user-friendly platform for food enthusiasts to explore a wide range of meal ideas. By using a Firebase Authentication, it enhances user experience by enabling the signup and log in process easier. In this project we also use TheMealDB's API to ensure a rich selection of recipes. In addition, the use of Firestore Database also helps us store search history by each user, making a personalization to our user experience.

2. Objectives

- Develop an easy-to-navigate interface for searching recipes
- Use Firebase Authentication for secure use sign up and log in processes
- Provide a wide range of meal recipes by integrating API from TheMealDB
- Utilize Firestore Database for storing user search history

3. Roles

- **Kayla:** Integrating the API from TheMealDB with the code for displaying the menus and recipes.
- **Samuel:** Set up user signup/login with firebase authentication for email and password.
- **Lidya:** Inserting the search history into firestore database and retrieving it, styling with bootstrap, setup react server, and pushing the code to github
- **Team:** Worked together in real-time using Live Share.

II. Problems Encountered

Our main problem is being unfamiliar with github, so we did a LOT of mistakes:

1. In the middle when we push into the master branch half of my files disappeared and worst of all, the previous .gitignore did not contain the .env file which means:

The screenshot shows a GitHub commit interface. At the top, it says "Showing 9 changed files with 263 additions and 4 deletions." Below is a list of files with their status:

- .env: Deleted
- .gitignore: Modified
- src/DisplayHistory.js: Modified
- src/SignIn.js: Modified
- src/SignUp.js: Modified
- config/: Modified

The .gitignore file has the following content:

```
11 11 @@ -11,6 +11,8 @@
12 12 # production
13 13 # build
```

our api key is exposed, so we deleted it:

After which we closed our project on firebase to make sure nobody can abuse the compromised api key, and created a new one.

2. Working with branches:

```
(base) Meowchi:finals lidyaaurclcia$ git push -u origin master
To https://github.com/lilicatzo/client-side-finals.git
! [rejected]          master -> master (non-fast-forward)
error: failed to push some refs to 'https://github.com/lilicatzo/client-side-finals.git'
hint: Updates were rejected because the tip of your current branch is behind
hint: its remote counterpart. If you want to integrate the remote changes,
hint: use 'git pull' before pushing again.
hint: See the 'Note about fast-forwards' in 'git push --help' for details.
```

Our local branch is behind the remote branch, meaning the local branch does not have some commits that are in the remote branch..

We did not know initially that git pull before starting is a practice.

So we created a backup branch just in case to contain my most recently updated code:

```
(base) Meowchi:finals lidyaaurclcia$ git checkout -b my-backup-branch
Switched to a new branch 'my-backup-branch'
(base) Meowchi:finals lidyaaurclcia$ git init
Reinitialized existing Git repository in /Users/lidyaaurclcia/finals/.git/
(base) Meowchi:finals lidyaaurclcia$ git add .
(base) Meowchi:finals lidyaaurclcia$ git commit -m "updated proper syntax for 9. and meal display"
On branch my-backup-branch
nothing to commit, working tree clean
(base) Meowchi:finals lidyaaurclcia$ git push -u origin my-backup-branch

Enumerating objects: 35, done.
Counting objects: 100% (35/35), done.
Delta compression using up to 8 threads
Compressing objects: 100% (26/26), done.
Writing objects: 100% (29/29), 6.57 KiB | 2.19 MiB/s, done.
Total 29 (delta 12), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (12/12), completed with 3 local objects.
remote:
remote: Create a pull request for 'my-backup-branch' on GitHub by visiting:
remote:     https://github.com/lilicatzo/client-side-finals/pull/new/my-backup-branch
remote:
To https://github.com/lilicatzo/client-side-finals.git
 * [new branch]      my-backup-branch -> my-backup-branch
branch 'my-backup-branch' set up to track 'origin/my-backup-branch'.
```

Since we are the owner of the repository and we have the combined code combined in our local, we had to reset the master branch:

```
(base) Meowchi:finals lidyaurelia$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
(base) Meowchi:finals lidyaurelia$ git reset --hard origin/my-backup-branch
HEAD is now at e8ad48a updated proper syntax for 9. and meal display
```

3. Due to the different versions of Firebase, we found the difficulty.

We were looking up for tutorials and they have a different syntax for the old version

This is the new version:

```
import { initializeApp } from 'firebase/app';
import { getFirestore } from 'firebase/firestore';
import { getAuth } from 'firebase/auth';

const firebaseConfig = {
  apiKey: process.env.REACT_APP_API_KEY,
  authDomain: process.env.REACT_APP_AUTH_DOMAIN,
  projectId: process.env.REACT_APP_PROJECT_ID,
};

const app = initializeApp(firebaseConfig);
const firestore = getFirestore(app);
const auth = getAuth(app);

export { firestore, auth };
```

This is the older version:

```

import firebase from 'firebase/app';
import 'firebase/firestore';
import 'firebase/auth';

const firebaseConfig = {
  apiKey: process.env.REACT_APP_API_KEY,
  authDomain: process.env.REACT_APP_AUTH_DOMAIN,
  projectId: process.env.REACT_APP_PROJECT_ID,
};

const app = firebase.initializeApp(firebaseConfig);
const firestore = firebase.firestore();
const auth = firebase.auth();

export { firestore, auth };

```

4. Struggling to work on the Firebase to store the search History. We fix it through trial and error

The screenshot shows the Firebase Firestore interface. On the left, there's a navigation bar with a home icon, followed by 'SearchHistory' and a document ID 'VYGxkjjvXfUQlAeFXQ67X26A1ah1'. To the right is a 'More in Google Cloud' dropdown. The main area displays a hierarchical document structure:

- (default) (document icon) SearchHistory (document icon) VYGxkjjvXfUQlAeFXQ67X26A1ah1 (three-dot menu icon)
- + Start collection (button)
- + Add document (button)
- + Start collection (button)
- + Add field (button)
- history (collapsible section)
 - 0 "Chicken Handi"
 - 1 "Chicken Marengo"
- userId: "VYGxkjjvXfUQlAeFXQ67X26A1ah1"

III. Screenshots

1. Sign in page

**POKÉ
BAR**

About Menu Contact

Sign In

Email:

Password:

Sign In

Don't have an account? [Create Account](#)



2. Sign Up

**POKÉ
BAR**

Logout

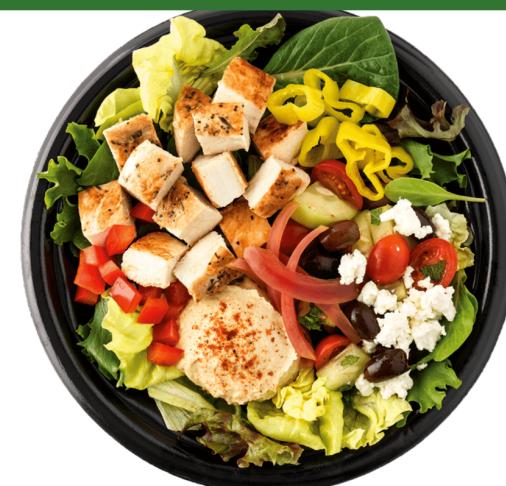
Sign Up

Email:

Password:

Confirm Password:

Sign Up



3. Search Meal

**POKÉ
BAR**

aaa@gmail.com Logout

Search History

- Chicken Handi
- Chicken Marengo
- Kung Pao Chicken
- Chicken Karage
- Sushi
- Chocolate Gateau
- Jerk chicken with rice & peas
- Chicken Congee
- Corned Beef and Cabbage
- Chicken Enchilada Casserole

Search A Meal

Enter meal name...

Search

No meals found. Try searching for something else.

4. Search for chicken

POKE BAR

aaa@gmail.com Logout

Search History

- Chicken Handi
- Chicken Marengo
- Kung Pao Chicken
- Chicken Karaage
- Sushi
- Chocolate Gateau
- Jerk chicken with rice & peas
- Chicken Congee
- Corned Beef and Cabbage
- Chicken Enchilada Casserole

Search A Meal

Search



Chicken Handi



Chicken Congee



Chicken Karaage



Chicken Marengo



5. Click on chicken katsu curry

POKE BAR

aaa@gmail.com Logout

Search History

- Chicken Handi
- Chicken Marengo
- Kung Pao Chicken
- Chicken Karaage
- Sushi
- Chocolate Gateau
- Jerk chicken with rice & peas
- Chicken Congee
- Corned Beef and Cabbage
- Chicken Enchilada Casserole



Katsu Chicken curry

Ingredients:

- 4 pounded to 1cm thickness chicken breast
- 2 tablespoons plain flour
- 1 beaten egg
- 100g fine breadcrumbs
- 230ml frying vegetable oil
- 2 tablespoons sunflower oil
- 2 sliced onions
- 5 chopped cloves garlic
- 2 sliced carrot
- 2 tablespoons plain flour
- 4 teaspoons curry powder
- 600ml chicken stock
- 2 teaspoons honey
- 4 teaspoons soy sauce
- 1 bay leaf
- 1 teaspoon garam masala

Back to Search

Instructions:

Prep:15min > Cook:30min > Ready in:45min For the curry sauce: Heat oil in medium non-stick saucepan, add onion and garlic and cook until softened. Stir in carrots and cook over low heat for 10 to 12 minutes. Add flour and curry powder; cook for 1 minute. Gradually stir in stock until combined; add honey, soy sauce and bay leaf. Slowly bring to the boil. Turn down heat and simmer for 20 minutes or until sauce thickens but is still of pouring consistency. Stir in garam masala. Pour the curry sauce

6. Refresh to get the most recent search history

The screenshot shows the Poke Bar application interface. At the top, there is a green header bar with the "POKE BAR" logo on the left and user information "aaa@gmail.com Logout" on the right. Below the header, the main content area has two sections: "Search History" on the left and "Search A Meal" on the right. The "Search History" section contains a list of meal names. The "Search A Meal" section includes a search input field with placeholder text "Enter meal name...", a blue "Search" button, and a message "No meals found. Try searching for something else."

- Chicken Handi
- Chicken Marengo
- Kung Pao Chicken
- Chicken Karaage
- Sushi
- Chocolate Gateau
- Jerk chicken with rice & peas
- Chicken Congee
- Corned Beef and Cabbage
- Chicken Enchilada Casserole
- Katsu Chicken curry

7. Click on chicken congee in search history to view recipe again

The screenshot shows the Poke Bar application interface after selecting "Chicken Congee" from the search history. The top navigation bar remains the same. The main content area now displays the selected recipe. It features the title "Chicken Congee" in bold, followed by a large image of the dish in a blue and white patterned bowl. Below the image, the word "Ingredients:" is followed by a list of items.

- Corned Beef and Cabbage
- Chicken Enchilada Casserole
- Katsu Chicken curry

Chicken Congee

Ingredients:

- 8 oz Chicken
- pinch Salt
- pinch Pepper