

# The FreeMealApp



## Final Project Report Client-side Front-End Web Development

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## **I. Executive Summary**

This final report is made for the submission of the final exam for the Client-side Front-End Development. The web is made with Firebase for us to login through the page, and themealdb API for searching through the cuisines available along with the ingredients and how to make it. Then the localStorage is implemented inside the code to save the search history of the meal that was clicked by the user.

## **II. Project Roles**

1. Aldi Putra
  - FreeMeal API Connect (Search Bar)
  - Showing Ingredients and Descriptions upon clicking a certain meal
  - Localstorage
2. Hansel Zorya Ashero
  - UI Web Design
  - Login through Firebase with Google Account
3. Winston Narada Kusumahadi
  - Login through Firebase with Google Account
  - Localstorage
  - FreeMeal API Connect (Sort by Letters)

### III. Project Implementation

To create the website, we:

- Create the react app
- Install Firebase
- Install the react router dom to enable router for the separated app files
- Create the file firebaseconfig.js as part of the firebase setup from the console to be implemented on the Meal App
- Create folder Components inside src to store all the js files used in the project
- Implement the code of the component files into the App.js, as well as implementing the login function with google authentication (we use a popup page for signing in using our Google Account)
- We create the RecentRecipes.jsx to store the history and also implement the LocalStorage inside to save the history locally.

The video of implementation is attached below:

<https://drive.google.com/file/d/1j7ITHL1m3HZFOF8gfNSGprcMsfT4eLrl/view?usp=sharing>

### IV. Challenges and Solutions

#### #1 The Initial codes didn't work

In the process of making, we first tried on separate devices and tried making our own meal App. On one device the localstorage succeeds, but not the firebase. On another device of ours, it works the opposite. Therefore we merged 2 codes into one, putting the failed codes into a folder named “trashed components”. After merging both codes and deleting one of the firebase configuration files, the Meal App works.

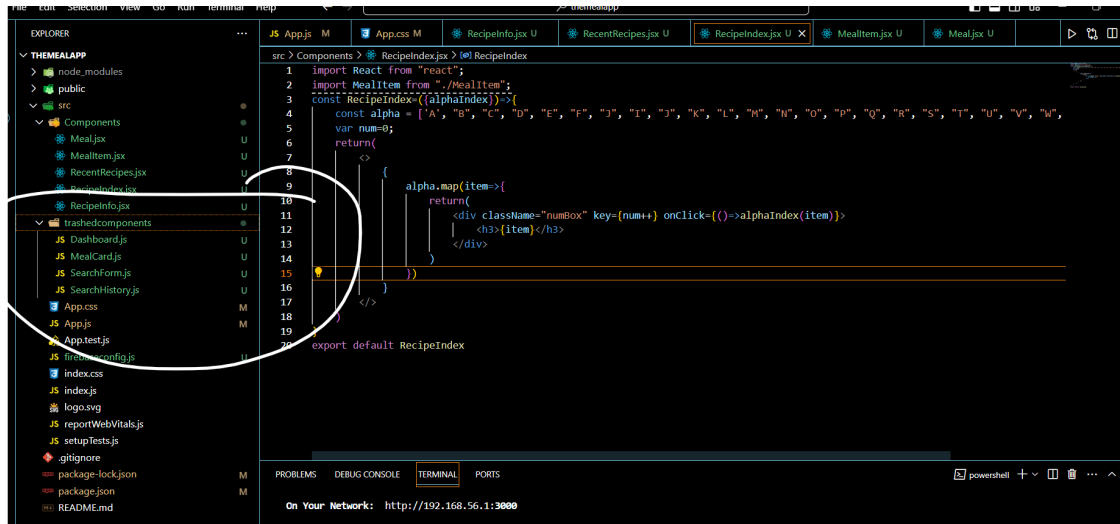


Figure 1: Trashed Components

## #2 React Router DOM Properties Unreadable

When one of us is testing the app itself, the react-router-dom cannot read the properties of the map variable as we want to immediately call all values from the API at once. As this cannot be done, we instead call the elements inside the API one by one to ensure that the values of the ingredients, instructions, and also the Youtube Video can be called to the screen, allowing the app to function properly again.

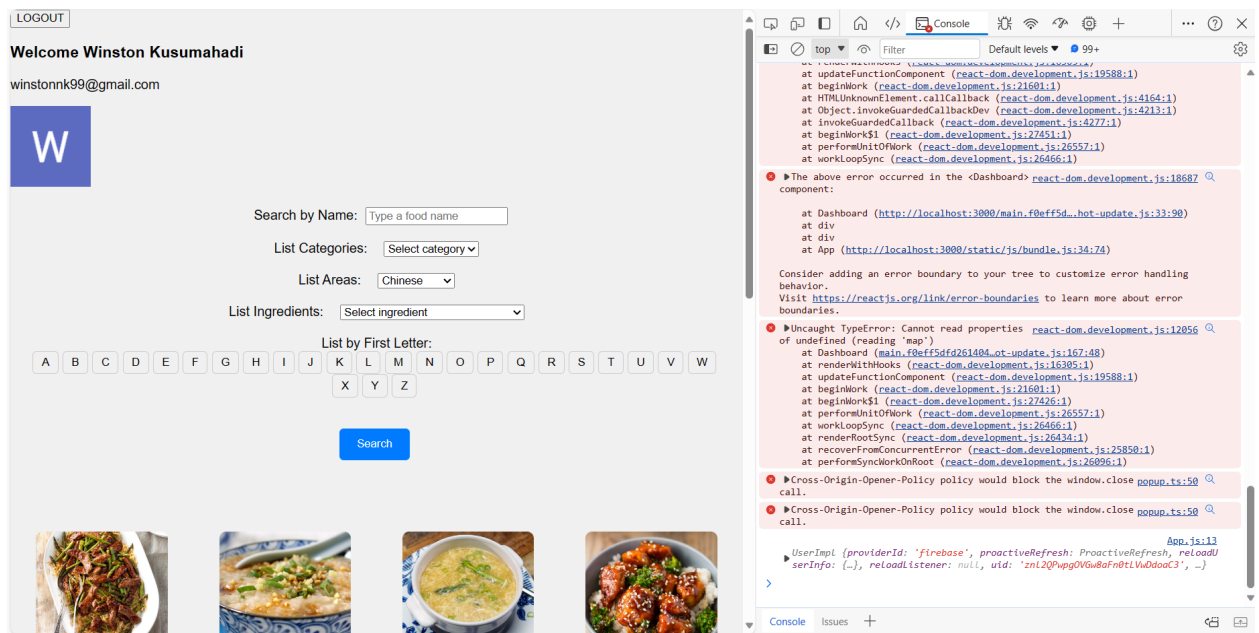
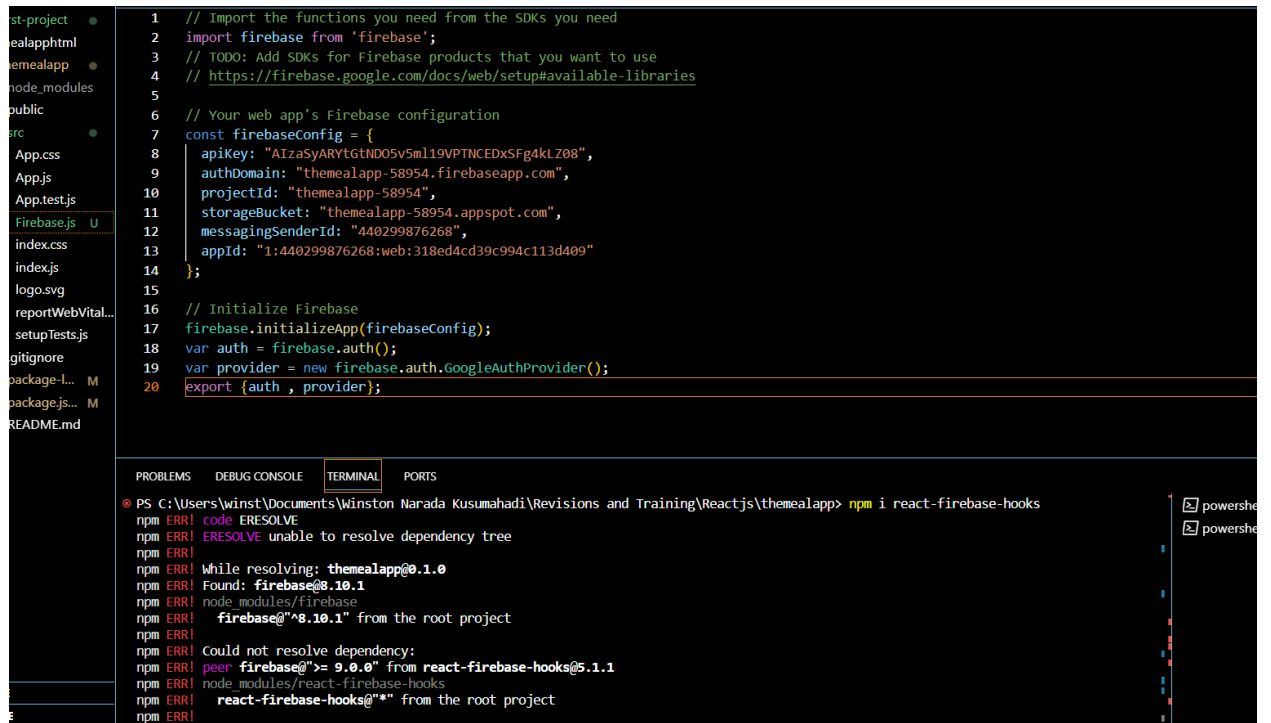


Figure 2: React-router DOM Properties

## #3 Outdated Firebase

As we tried to install react-router-dom, it returned an error. We tried to search for the root of the problem, but we only see the word firebase missing dependencies. Therefore we

uninstalled the Firebase, reinstalled it, and then updated it to the newest version. There we can finally install the react-router-dom itself.



The image shows a code editor with a file explorer on the left and a terminal at the bottom. The file explorer lists files like `st-project`, `eampphtml`, `temealapp`, `node_modules`, `public`, `src`, `App.css`, `App.js`, `App.test.js`, `Firebase.js` (highlighted), `index.css`, `index.js`, `logo.svg`, `reportWebVital...`, `setupTests.js`, `gitignore`, `package-L...`, `package.js...`, and `README.md`. The main editor area displays the content of `Firebase.js`, which includes imports for Firebase, a configuration object with API key, domain, project ID, storage bucket, messaging sender ID, and app ID, and initialization code for Firebase and authentication. The terminal at the bottom shows the command `npm i react-firebase-hooks` and an error message: `npm ERR! code ERESOLVE unable to resolve dependency tree`. The error details include: `npm ERR! While resolving: themealapp@0.1.0`, `npm ERR! Found: firebase@8.10.1`, `npm ERR! node_modules/firebase`, `npm ERR! firebase@"^8.10.1" from the root project`, `npm ERR! Could not resolve dependency:`, `npm ERR! peer firebase@">= 9.0.0" from react-firebase-hooks@5.1.1`, `npm ERR! node_modules/react-firebase-hooks`, and `npm ERR! react-firebase-hooks@"*" from the root project`.

```
1 // Import the functions you need from the SDKs you need
2 import firebase from 'firebase';
3 // TODO: Add SDKs for Firebase products that you want to use
4 // https://firebase.google.com/docs/web/setup#available-libraries
5
6 // Your web app's Firebase configuration
7 const firebaseConfig = {
8   apiKey: "AIzaSyARYtGtND05v5ml19VPTNCEDxSfg4kLZ08",
9   authDomain: "themealapp-58954.firebaseio.com",
10  projectId: "themealapp-58954",
11  storageBucket: "themealapp-58954.appspot.com",
12  messagingSenderId: "440299876268",
13  appId: "1:440299876268:web:318ed4cd39c994c113d409"
14 };
15
16 // Initialize Firebase
17 firebase.initializeApp(firebaseConfig);
18 var auth = firebase.auth();
19 var provider = new firebase.auth.GoogleAuthProvider();
20 export { auth , provider};
```

PROBLEMS DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\winst\Documents\Winston Narada Kusumahadi\Revisions and Training\Reactjs\themealapp> npm i react-firebase-hooks
npm ERR! code ERESOLVE
npm ERR! ERESOLVE unable to resolve dependency tree
npm ERR!
npm ERR! While resolving: themealapp@0.1.0
npm ERR! Found: firebase@8.10.1
npm ERR! node_modules/firebase
npm ERR!   firebase@"^8.10.1" from the root project
npm ERR!
npm ERR! Could not resolve dependency:
npm ERR! peer firebase@">= 9.0.0" from react-firebase-hooks@5.1.1
npm ERR! node_modules/react-firebase-hooks
npm ERR!   react-firebase-hooks@"*" from the root project
npm ERR!
```

Figure 3: Outdated Firebase