

## Introduction

The simple ToDo list app that was generated was made using the React and Ionic frameworks. Users can add, edit, and remove ToDo items in addition to having sign-up, login, and logout features for user authentication. Firebase Authentication and Firestore are used to handle user administration and data storage.

## Features

### User Authentication:

- **Sign Up:** Users can register for an account by providing their name, email, and password.
- **Login:** Users can log in to their accounts using their email and password.
- **Logout:** Users can log out of their accounts.

### Description of Your Works (Systems) Login System

#### (Login.tsx):

- Provides a login interface where users can input their email and password.
- Authenticates users using Firebase Authentication.
- Checks if the user exists in Firestore, and redirects to the home page upon successful login.

#### Sign-Up System (SignUp.tsx):

- Provides a sign-up interface where users can register by providing their name, email, and password.
- Validates user inputs and displays appropriate error messages.
- Stores user data in Firestore upon successful sign-up.

#### ToDo List Management System (ToDoList.tsx):

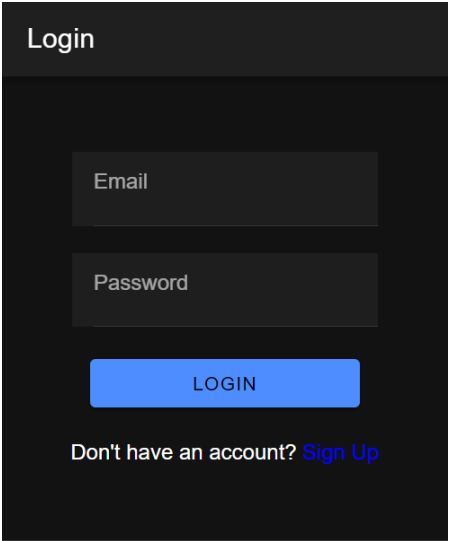
- Displays a list of ToDo items fetched from Firestore.
- Allows users to add new ToDo items.
- Allows users to edit existing ToDo items.
- Allows users to delete ToDo items.
- Provides a logout button to allow users to log out of their accounts.

## Conceptual Framework

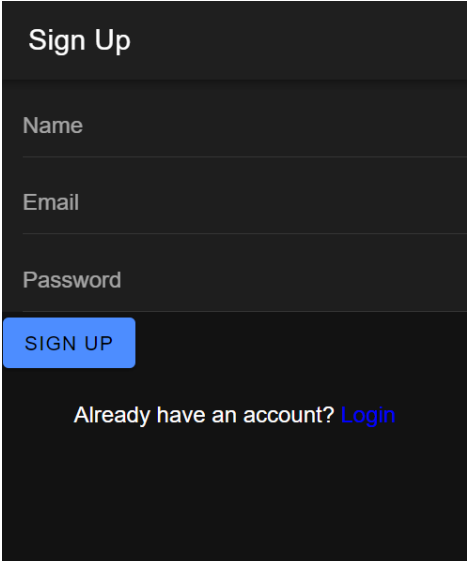
The application has a client-server architecture, where the client-side is built with the React and Ionic frameworks, and server-side tasks like authentication and data storage are handled by Firebase services (Authentication and Firestore). The client and server communicate to perform CRUD operations on ToDo items and authentication tasks.

The System (Screenshot of your Output)

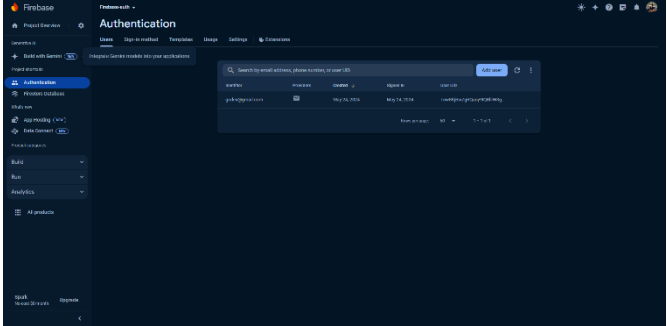
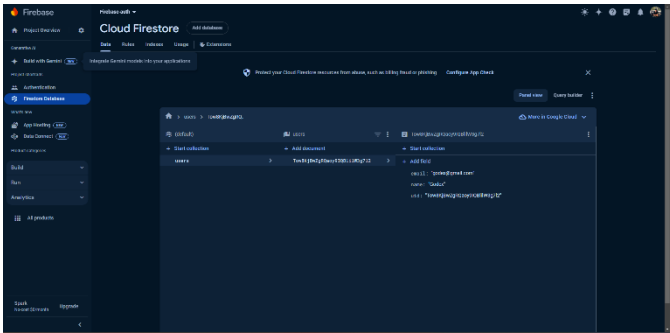
Login Display Screen



Sign-Up Display Screen



Firebase Display Screen



Reference:

GAMAYA, GODFFREY. (2024, May). ToDo List Application. Retrieved from <https://github.com/GODEX13/GAMAYA-FINAL-PT>