Earl Daniel Saplot

Adeline Faye Lompon

IT64 (IT36A)

Introduction

The React and Ionic frameworks were used to create the straightforward ToDo list application that was produced. In addition to having sign-up, login, and logout functions for user authentication, it enables users to add, modify, and remove ToDo items. Data storage and user management are handled via Firebase Authentication and Firestore.

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.

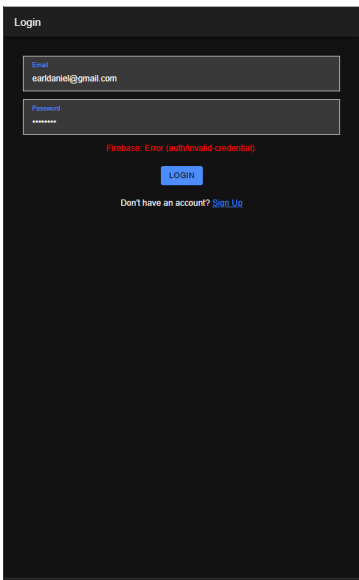### ToDo List Management System (ToDoList.tsx):

- 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.
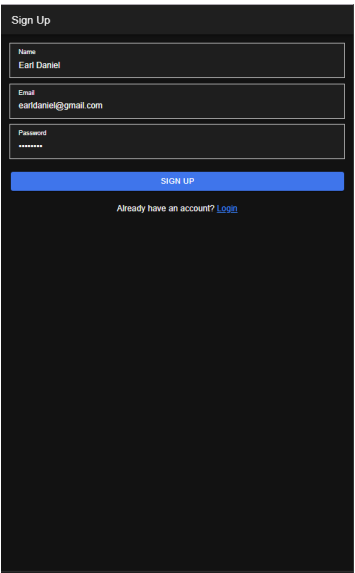
Conceptual Framework

The application employs a client-server architecture, in which Firebase services (Authentication and Firestore) manage server-side functions like authentication and data storage, and the client-side is created using the React and Ionic frameworks. In order to carry out CRUD operations on ToDo items and authentication tasks, the client and server communicate.

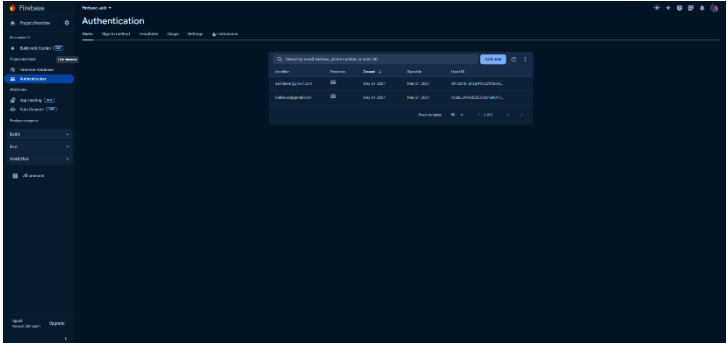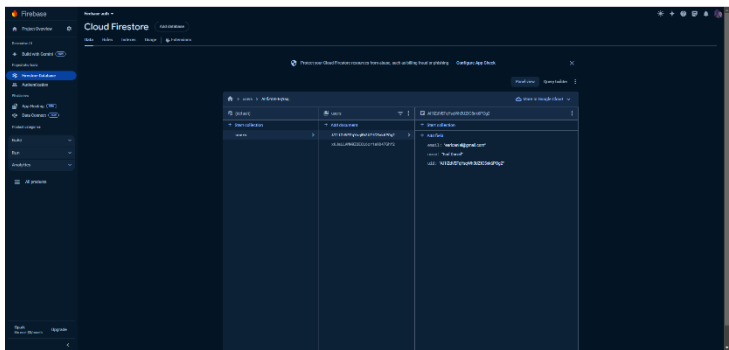# The System (Screenshot of your Output)

Login Display Screen

Sign-Up Display Screen

Firebase Display Screen

Reference:

Saplot, Earl Daniel. (2024, May). ToDo List Application. Retrieved from https://github.com/Earlsachi/SAPLOT-FINAL-PT