

Introduction

The client-side components of the application are developed using React and Ionic, while server-side tasks like authentication and data storage are managed by Firebase services (Authentication and Firestore). The client and server interact regarding CRUD operations on ToDo items and authentication tasks.

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

- 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

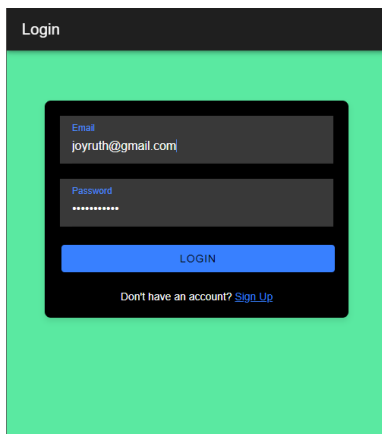
- Provides a sign-up interface where users can register by providing their name, email, and password.
- Validates user inputs and displays appropriate error messages.
- Stores user data in Firestore upon successful sign-up.

Conceptual Framework

The program is designed using a client-server architecture. Although Firebase's services (including authentication and React and Ionic are used in client-side development, while Firestore is used for server-side operations like data storage and authentication. To perform CRUD operations on ToDo items and authentication tasks, the client and server communicate.

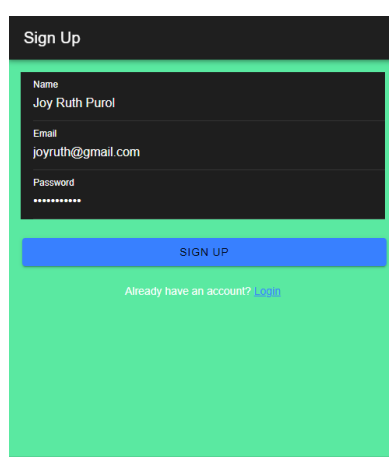
The System (Screenshot of your Output)

Login Display Screen



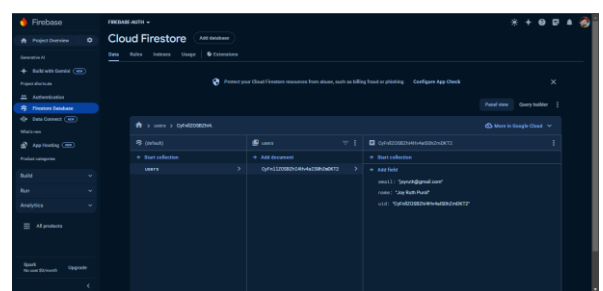
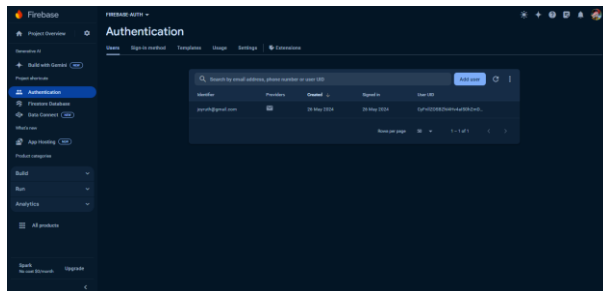
A screenshot of a mobile application's login screen. The screen has a black header with the word "Login" in white. Below the header is a large green rectangular area. In the center of the green area is a white rounded rectangle containing two input fields: "Email" with the text "joyruth@gmail.com" and "Password" with masked characters "*****". Below these fields is a blue button with the text "LOGIN". At the bottom of the white rectangle, there is a link that says "Don't have an account? [Sign Up](#)".

Sign-Up Display Screen



A screenshot of a mobile application's sign-up screen. The screen has a black header with the words "Sign Up" in white. Below the header is a large green rectangular area. In the center of the green area is a white rounded rectangle containing three input fields: "Name" with the text "Joy Ruth Purol", "Email" with the text "joyruth@gmail.com", and "Password" with masked characters "*****". Below these fields is a blue button with the text "SIGN UP". At the bottom of the white rectangle, there is a link that says "Already have an account? [Login](#)".

Firebase Display Screen



Reference:

Purol, J. R. (2024, May). ToDo List Application. Retrieved from <https://github.com/JOYPURZ/PUROL-FINALPT>