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#### Introduction

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.

#### **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**

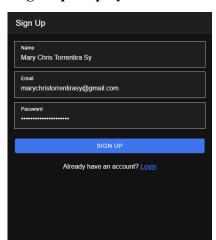
The application is designed with a client-server architecture. React and Ionic are used to build the client-side, and Firebase services (Authentication and Firestore) handle server-side functions like data storage and authentication. To complete CRUD operations on ToDo items and authentication tasks, the client and server communicate.

# The System (Screenshot of your Output)

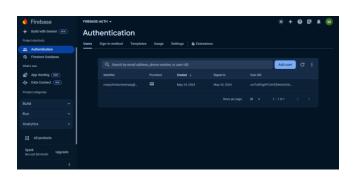
# **Login Display Screen**

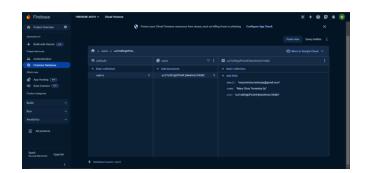


Sign-Up Display Screen



# Firebase Display Screen





# Reference:

Sy, M. C. (2024, May). ToDo List Application. Retrieved from

https://github.com/marychristorrentirasy/SY-FINALPT