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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

Login

Email

marychristorrentirasy@gmail.com

Password

\*\*\*\*\*

LOGIN

Don't have an account? [Sign Up](#)

Sign-Up Display Screen

Sign Up

Name

Mary Chris Torrentira Sy

Email

marychristorrentirasy@gmail.com

Password

\*\*\*\*\*

SIGN UP

Already have an account? [Login](#)

Firebase Display Screen

Authentication

Users

Sign-in method

Templates

Usage

Settings

Extensions

Search by email address, phone number, or user UID

Add user

Identifier	Providers	Created	Signed in	User UID
marychristorrentirasy@...		May 24, 2024	May 24, 2024	u0Ttdt8gPCkafJhucKdc12...

Rows per page: 50 | 1 - 1 of 1

Cloud Firestore

users

u0Ttdt8gPCkafJhucKdc12...

Start collection

Add document

Start collection

users

u0Ttdt8gPCkafJhucKdc12...

u0Ttdt8gPCkafJhucKdc12...

users

u0Ttdt8gPCkafJhucKdc12...

u0Ttdt8gPCkafJhucKdc12...

Reference:

Sy, M. C. (2024, May). ToDo List Application. Retrieved from <https://github.com/marychristorrentirasy/SY-FINALPT>