

## Introduction

React and Ionic are used in the development of the application's client-side components, and Firebase services (Authentication and Firestore) handle server-side functions like data storage and authentication. When it comes to CRUD operations on ToDo items and authentication tasks, the client and server communicate.

## 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 has a client-server architecture in its design. While Firebase services (Authentication and Firestore) are utilized for server-side tasks like data storage and authentication, client-side development uses React and Ionic. The client and server interact to carry out CRUD operations on ToDo items and authentication tasks.

The System (Screenshot of your Output)

Login Display Screen

Login

Email

fritz@gmail.com

Password

\*\*\*\*\*

LOGIN

Don't have an account?

Sign Up

Sign-Up Display Screen

Sign Up

Name

Fritz Ian

Email

fritz@gmail.com

Password

\*\*\*\*\*

SIGN UP

Already have an account?

Login

Firebase Display Screen

Firebase

firebase auth

Authentication

Users | Sign-in method | Templates | Usage | Settings | Extensions

Search by email address, phone number, or user ID

Add user

Identifier	Providers	Created	Signed in	User ID
fritz@gmail.com		May 15, 2024	May 15, 2024	GB3X25w498oc7w7H1W9SU1L6G2

Items per page

10

1 - 1 of 1

Firebase

firebase auth

Cloud Firestore

Add database

Protect your Cloud Firestore resources from abuse, such as billing fraud or phishing

Configure App Check

Panel view

Query builder

More in Google Cloud

(default)	users	GB3X25w498oc7w7H1W9SU1L6G2
<div>+ Start collection</div>	<div>+ Add document</div>	<div>+ Start collection</div>
<div>+ Add field</div>		<div>+ Add field</div>
		<div>email: "fritz@gmail.com"</div>
		<div>name: "Fritz Ian"</div>
		<div>uid: "GB3X25w498oc7w7H1W9SU1L6G2"</div>

Reference:

balendez, F. I. (2024, May). ToDo List Application. Retrieved from <https://github.com/FritzIan02/BALENDEZ-FINALPT>