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Section: IT64 (IT36A)

Introduction

The developed app is a simple ToDo list application built using the React and Ionic frameworks. It allows users to create, edit, and delete ToDo items, and includes user authentication functionalities for sign-up, login, and logout. Firebase Authentication and Firestore are used for user management and data storage.

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.

ToDo List Management:

- Add ToDo Items: Users can add new ToDo items to their list.
- Edit ToDo Items: Users can edit existing ToDo items.
- Delete ToDo Items: Users can delete ToDo items from their list.

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 app utilizes a client-server architecture where the client-side is implemented using the React and Ionic frameworks, and the server-side functionalities such as authentication and data storage are handled by Firebase services (Authentication and Firestore). The client communicates with the server to perform authentication tasks and CRUD operations on ToDo items.

The System (Screenshot of your Output)

Mobile View

Login



Welcome Back


Email

Password

LOGIN

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

Sign Up



Create Account

Name


Email

Password

SIGN UP

Desktop View

Login



Welcome Back


Email

Password

LOGIN

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

Sign Up



Create Account

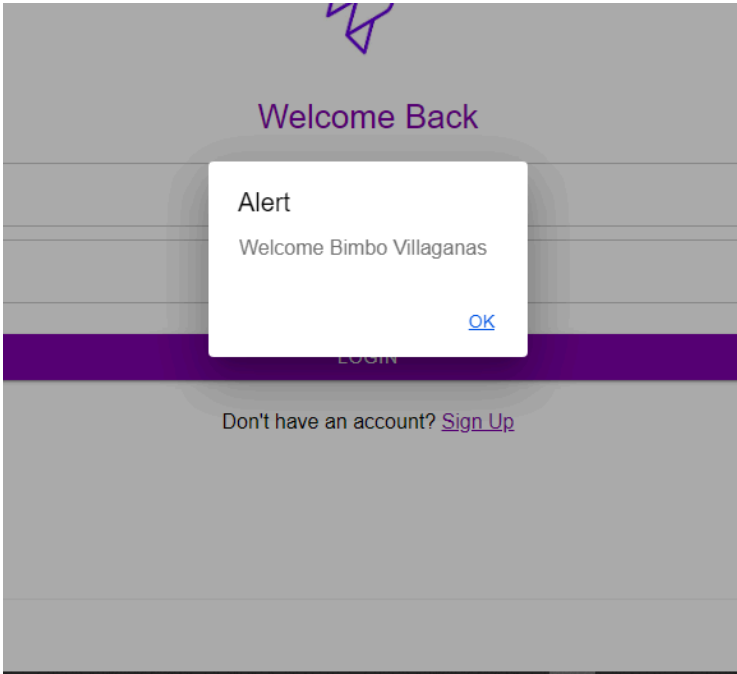
Name

Email

Password

SIGN UP

Already have an account? [Login](#)



ToDo List



LOGOUT

New ToDo



Enter ToDo item

ADD TODO

samample1



sample



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Firestore:
Firestore database:
users Collection:

final-PT Cloud Firestore

Panel view Query builder

home > users > DJIQcuPQOTVC...

More in Google Cloud

(default)	users	DJIQcuPQOTVCYffQsKLoZRJDkRx1
+ Start collection	+ Add document	+ Start collection
todos	DJIQcuPQOTVCYffQsKLoZRJD...	+ Add field
users >	ZPCkw8Xsav0Q1vLnzZ6eCvV5...	email: "bimbo1@gmail.com"
		name: "Bimbo Villaganas"
		uid: "DJIQcuPQOTVCYffQsKLoZRJDkRx1"

TO DO Collection:

final-PT Cloud Firestore

Panel view Query builder

home > todos > pevbz7WRdEjT...

More in Google Cloud

(default)	todos	pevbz7WRdEjTWhfzzPnj
+ Start collection	+ Add document	+ Start collection
todos >	gkK1yLou7Nw1tRdeCpPQ	+ Add field
users	m1xZZbxYDU3AM5uhQw4M	text: "sample"
	pevbz7WRdEjTWhfzzPnj >	userId: "DJIQcuPQOTVCYffQsKLoZRJDkRx1"

final-PT

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
samp@gmail.com		May 20, 2024	May 20, 2024	1FYfzPt5WpdEjCC3H2kXbGM...
sa@gmail.com		May 20, 2024	May 20, 2024	LPNhrLhLQEXKk55DwZXVgEG...
sample@gmail.com		May 20, 2024	May 20, 2024	Nu4Q1RK6affYTobZ9cD739P...
bimbo1@gmail.com		May 20, 2024	May 22, 2024	DJIQcuPQOTVCYffQsKLoZRJ...
bimbo@gmail.com		May 20, 2024	May 20, 2024	PzTJ8nKaaXPqLRGVAFYfnQe5...

Rows per page:

50

1 – 5 of 5

Villaganas, B. E. (2024, May). ToDo List Application. Retrieved from <https://github.com/Villaganas/final-it36A>.