

Introduction

The ToDo list application is a straightforward yet efficient tool crafted using React and Ionic frameworks. Its core functionality empowers users to seamlessly create, modify, and remove ToDo items while incorporating robust authentication features for user sign-up, login, and logout. Firebase Authentication and Firestore serve as the backbone for managing user accounts securely and storing task-related data persistently. This application aims to streamline task management for users while ensuring their data remains protected and accessible across various devices.

User Authentication:

Registration: Users can create an account by entering their name, email, and password.

Login: Users can access their accounts by providing their email and password.

Logout: Users can sign out of their accounts.

ToDo List Management:

Adding ToDo Items: Users can append new ToDo items to their list.

Editing ToDo Items: Users have the ability to modify existing ToDo entries.

Deleting ToDo Items: Users can remove ToDo items from their list.

Your Contribution (Systems Developed)

Login System (Login.tsx):

Offers a login interface where users input their email and password.

Validates user credentials using Firebase Authentication.

Verifies user existence in Firestore and redirects to the home page upon successful login.

Sign-Up System (SignUp.tsx):

Provides a registration interface where users register by inputting their name, email, and password.

Validates user inputs and presents relevant error messages.

Persists user data in Firestore upon successful registration.

ToDo List Management System (ToDoList.tsx):

Presents a display of ToDo items fetched from Firestore.

Allows users to append new ToDo items.

Grants users the capability to modify existing ToDo items.

Provides a means for users to delete ToDo items.

Furnishes a logout feature enabling users to sign out of their accounts.


Conceptual Framework

The application follows a client-server model, wherein the client-side is constructed using React and Ionic frameworks, and the server-side operations like authentication and data storage are managed by Firebase services (Authentication and Firestore).

Communication between the client and server facilitates 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

Already have an account? [Login](#)

ToDo List

LOGOUT


New ToDo

Enter ToDo item

ADD TODO

Desktop View

Login



Welcome Back


admin@nbsc.edu.ph

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

Firebase:
Firestore database:
users Collection:
TO DO Collection:

🏠

>

todos

>

I6JcxQkXwFnLV.

More in Google Cloud

(default)

+ Start collection

todos

users

todos

+ Add document

I6JcxQkXwFnLV1n1dpFM

I6JcxQkXwFnLV1n1dpFM

+ Start collection

+ Add field

userId: "lr3aQp32OxWEvrz8hs1tHIZngF" (string)

text: "text"

🔍 Search by email address, phone number or user UID

Add user

🔄

⋮

Identifier	Providers	Created ↓	Signed in	User UID
keneth@gmail.com	📧	24 May 2024	24 May 2024	YrOZD90ESebjC0Z5RUIEoajg...
admin@gmail.com	📧	24 May 2024	24 May 2024	vHbpn2prGaXtJyIFNIJMe4hp...
admin@nbsc.edu.pha	📧	24 May 2024	24 May 2024	VICH4l4SeqPv3lfxOw5TMOP...
admin@nbsc.edu.ph	📧	24 May 2024	24 May 2024	lr3aQp32OxWEvrz8hs1tHIZng...

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