

**Name: Huraira**

## **Application development Internship**

### **App Report: Flutter To-Do App**

#### **Introduction**

The Flutter To-Do App is a feature-rich application designed to help users manage their tasks efficiently. Developed using the Dart programming language and the Flutter framework, the app integrates Firebase for both authentication and data storage, providing seamless syncing of notes and tasks across devices. With its modern and colorful interface, the app offers a delightful user experience, allowing users to organize, edit, and manage their to-do lists with ease.

#### **Features**

##### **User Authentication**

- **Login and Sign-Up:** Users can easily create an account or log in using Firebase Authentication, ensuring secure access to their tasks.
- **Password Reset:** The app includes a "Forgot Password" feature, allowing users to reset their passwords if needed.
- **Logout:** A logout button is provided for users to securely exit the application.

##### **Task Management**

- **Colorful Note Cards:** Notes are displayed as colorful cards, making it easy for users to identify and manage their tasks.
- **Edit and Delete Notes:** Users can edit notes to update task details or delete notes when tasks are completed or no longer needed.
- **Timestamp Sorting:** Notes can be sorted based on timestamps, allowing users to prioritize tasks effectively.

##### **Data Synchronization**

- **Firebase Firestore:** All notes and tasks are stored in Firebase Firestore, ensuring data is synchronized across devices for logged-in users.
- **Real-time Updates:** Changes to notes are reflected in real-time, providing an up-to-date view of tasks across all devices.

## Technical Implementation

### Flutter and Dart

- **Flutter Framework:** Utilized for its rapid development capabilities and beautiful UI design, enabling a smooth user experience.
- **Dart Programming Language:** Employed for writing the application logic, ensuring high performance and efficient operation.

### Firebase Integration

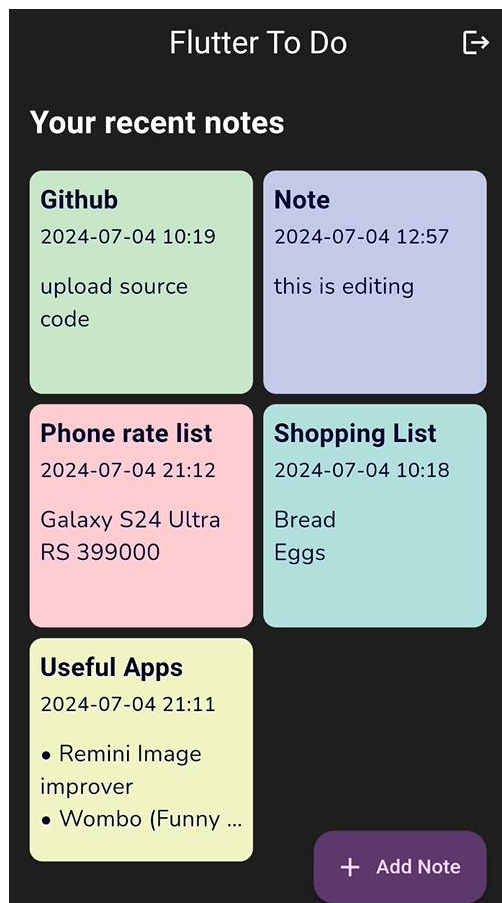
- **Firebase Authentication:** Used for handling user login, sign-up, and password reset functionalities securely.
- **Firestore Database:** Provides real-time data storage and synchronization for notes and tasks.

### UI Components

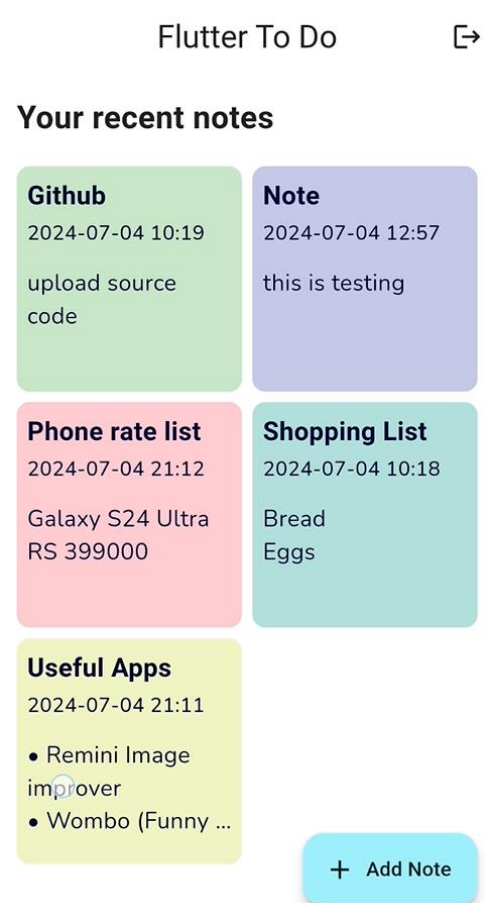
- **Custom Widgets:** The app leverages custom Flutter widgets to deliver a functional and visually appealing interface.
- **Interactive Elements:** Features interactive UI elements for easy note management and user interaction.

### In-App Screenshots

Notes Screen Dark Mode




Notes Screen Light Mode



## Login Page

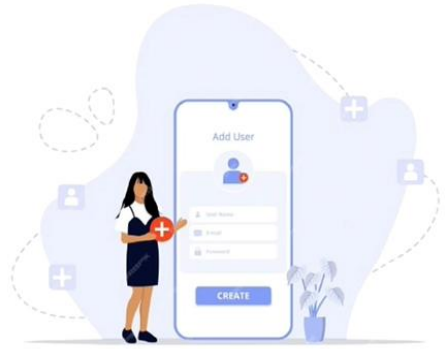
Flutter To Do  
by Huraira



[Forgot Password?](#)

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

## Sign Up page



Already have an account ? [Log in](#)

## Conclusion

The Flutter To-Do App is a comprehensive and well-crafted application designed to enhance productivity and task management. With its seamless Firebase integration for authentication and data synchronization, users can easily manage their tasks across multiple devices.

Thank You!!