

# Notelt

*A note taking app using Firebase and Flutter*

## Features

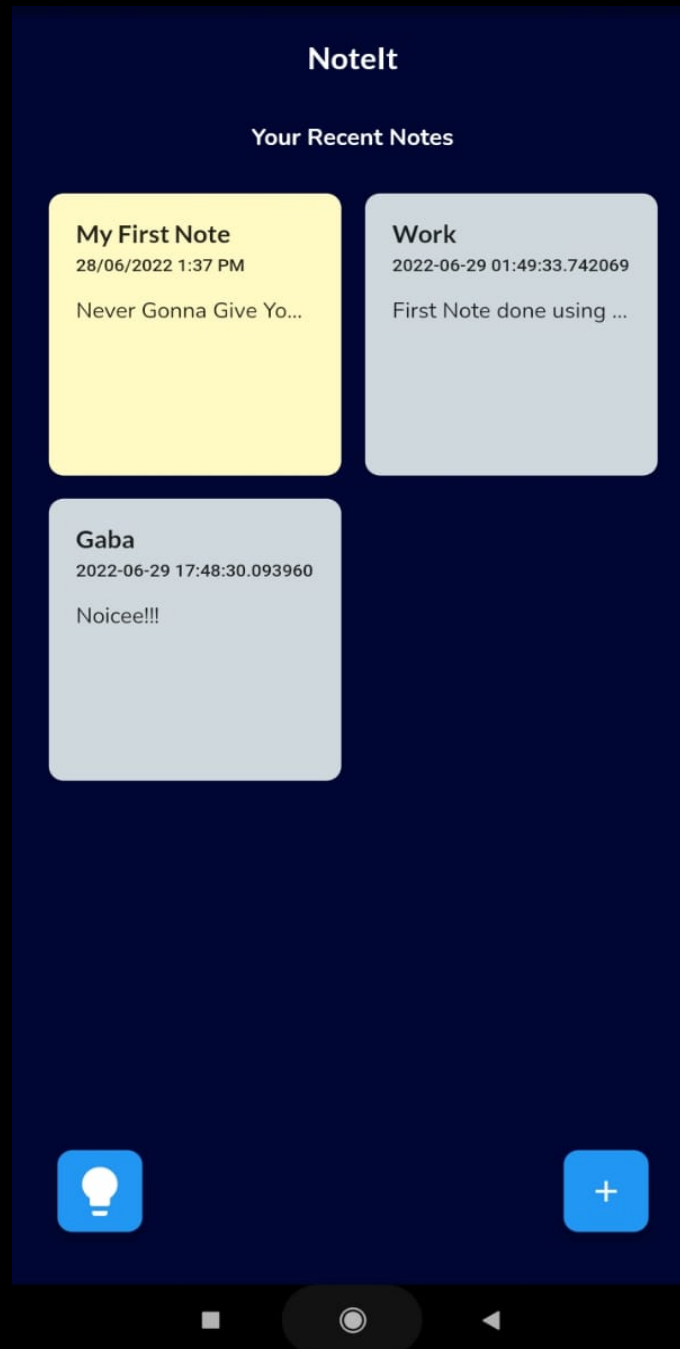
1. Custom Splash Screen which depicts the main feature of the app, ie, a note-taking application.

(Package used: `flutter_native_splash: ^2.2.3+1`)

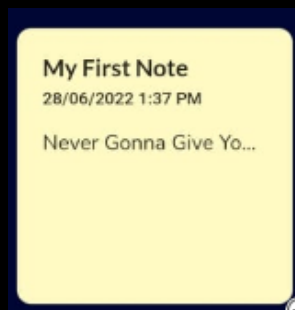


## 2. Stateful Homescreen Widget with Firebase Integration

- a. Uses Material Design, as specified by Android Developers.
- b. Font library used: `google_fonts: ^3.0.1`

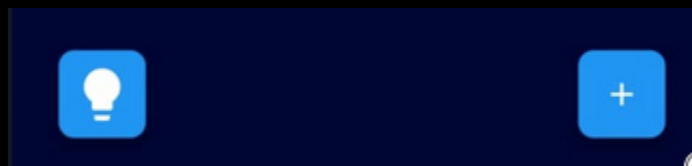


3. Firebase Integration done with `firebase_core: ^1.18.0,`  
`cloud_firestore: ^3.1.18`
- a. Uses the `StreamBuilder<QuerySnapshot>` feature to fetch objects from Cloud Firestore in an async manner. Displays `CircularProgressIndicator()` if the connection with Firestore is not initiated. Note: Firebase should always be instantiated in an async fashion.
4. For the UI we created a two-column content widget as child to display the notes and heading
- a. Used to `SizeBox()` create distance between “Your Recent Notes” and the notes content.
  - b. For handling individual notes in the note content, `GridView(gridDelegate: SliverGridDelegateWithFixedCrossAxisCount)` parameter was used to display each note in a grid-like fashion in the notes content area.
  - c. Using the Navigator widget, we use the `MaterialPageRoute()` to redirect to note-reader screen when a single note (or note-card) is clicked.



(a note-card)

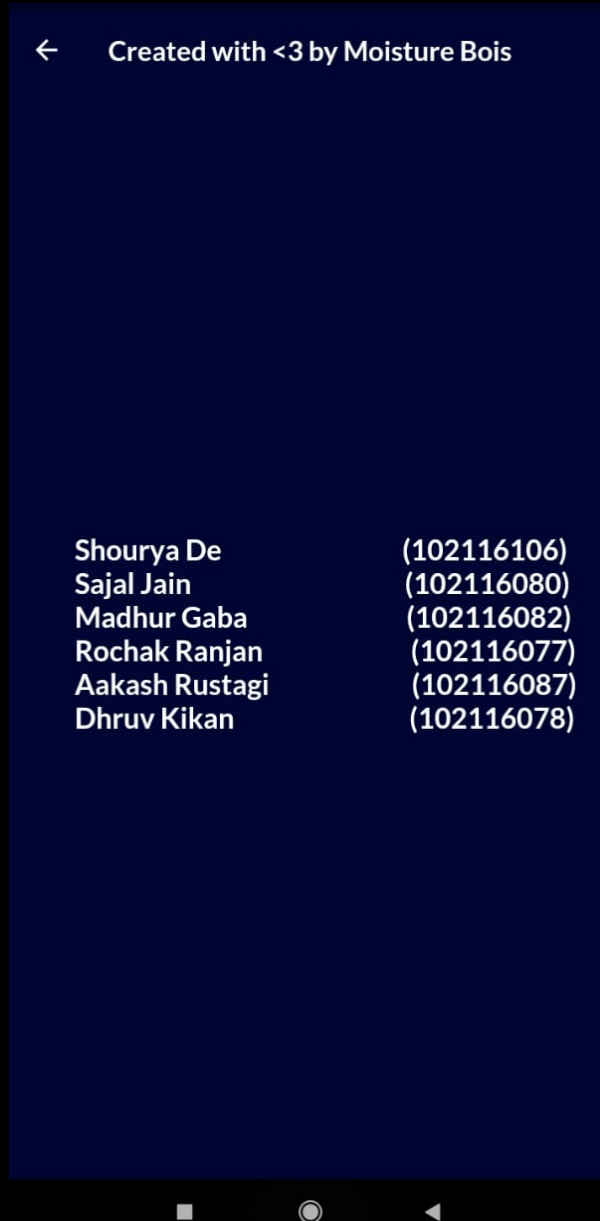
5. Floating Action Button (FAB) used to accomplish different tasks
- The Flutter documentation states that only 1 FAB can be displayed for a column widget. This can be overridden by using the option `floatingActionButton: Stack()` with specific Hero Tags so that both buttons can co-exist together without one being on top of each other (Since Material Design is all about putting each widget on top of each other).
  - The lightbulb FAB is mapped to the Contributors Screen using `MaterialPageRoute()` with the context `onPressed: () {}` so that it shows the Contributors Screen is rendered when the button is pressed, or tapped on.
  - The Add FAB is mapped to the Note Editor screen with the same constructs as the lightbulb FAB, except that it renders the Note Editor Screen when the FAB is pressed, or tapped on.
  - Icons for the specific FABs rendered using the Material Icons package.



*(the lightbulb and add icon respectively.)*

## 6. Contributors Screen

- Uses AppBar to display the title.
- Uses Container Widget with the constraint `alignment: Alignment.centerLeft` to make the UI look pleasing.



## 7. Note Editor Screen

- Uses a Column View to display various textfields in the editor screen.
- Using we create controllers for both the Title and content field so as to push the notes to Cloud Firestore
- Uses the Save FAB to map the push action in async fashion, basic error-catching functionality is implemented in case of server error.
- The function in detail :

```
onPressed: () async {  
    FirebaseFirestore.instance.collection("notes").add({  
        "note_title": _titleController.text,  
        "created_at": date,  
        "note_content": _mainController.text,  
        "color_id": color_id  
    }).then((value) {  
        print(value.id);  
        Navigator.pop(context);  
    }).catchError((error) => print("Failed to add note due to $error"));  
},
```



# Thank You

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