

Flutter App Assignment - README Template

Student Information

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Section: 1

Pages Implemented

1. Page Name: notebook_page
Description: This page allows users to view their saved notebooks, create new ones, and delete them. It is personalized for the users to have their own custom notebooks as much as they can. Also, it is easy to organize and manage their custom subjects.
2. Page Name: notes_page
Description: This page acts as a shared or community notes. Users can browse a list of subject folders (e.g., Math, Bio, Physics), search them, and save their preferable subject notebook that shared from other in the community.

Features and Widgets

- SharedPreferences: Used for saving and retrieving the list of saved notebooks.
- ListView: Used to display lists of notebooks and subjects.
- TextField: For creating custom notebook names and searching subjects.
- AlertDialog: For saving notes and creating new notebooks.
- SnackBar: To show confirmation messages after saving or deleting notes.
- FloatingActionButton: Used to add a new custom notebook.

- BottomNavigationBar: To navigate between Home, Notes, and Notebook pages.
- ElevatedButton with Icon: Button to navigate from notes_page to notebook_page.
- Card + ListTile: For a styled, interactive list of saved notebooks.

Known Issues or Limitations

1. Static Subject List: The list of subjects in notes_page is hardcoded and not dynamically loaded.
2. No Subfolder Support: Users cannot create or view subfolders under each notebook yet.
3. No Actual Notes Content: The current implementation only handles folder/subject names. This is not including the real notes from user.
4. Search Functionality Not Implemented: The search TextField is present but does not filter the subject list.

Reflection

1. What did you find most challenging about this project?

Ans: The most challenging part I encountered while working on this project was learning how to use SharedPreferences to store and update data persistently, adjusting the UI to match the project design, and implementing the functionality to add and remove notebooks based on user input. Additionally, ensuring consistency and smooth navigation between pages when users interact with buttons was also a significant challenge.

2. Which widgets or design elements are you most proud of using?

Ans:

- The use of AlertDialog for adding notebooks and saving subjects.
- UI design using Card, IconButton, and folder icons.

3. What would you add or improve with more time?

Ans:

- Add subfolder support (e.g., topics under each subject).
- Implement actual note taking functionality inside each folder.

- Improve search functionality to filter the list of folders.
- Allow renaming of notebooks, reordering folders, and syncing across devices.
- Implement dynamic subject and allow users to create their own subjects in the community notes section.