Take Home Exercise

Take-Home Task: Personal Expense Tracker App

Project Overview 🔗

Your task is to build a **Personal Expense Tracker App** that enables users to track their expenses effectively. The app should implement the following core features:

1. **Add Expense Entries**: Users can create new expense entries by providing details such as:
   - Amount
   - Category (e.g., Food, Travel, Shopping)
   - Date
   - Description
2. **View Expenses**: Display a list of expenses grouped by day for better organization.
3. **Data Persistence**: Ensure that expenses are stored locally, so they remain visible even after restarting the app.

Optional Features (Pursue only if time permits) 🔗

- **User Interface**: Create an intuitive and visually appealing interface to showcase your UI/UX design skills.
- **Expense Summary**: Provide a summary view, such as:
   - Total expenses for the week or month.
   - Highlight the category with the highest spending.
- **Category Filtering**: Allow users to filter expenses by category (e.g., Food, Travel, Shopping).

What We're Looking For 🔗

To evaluate your technical and architectural skills, we will focus on the following:

- **State Management**: Use of the **BloC** (Business Logic Component) pattern for managing app state.
- **Streams**: Utilize Streams for transforming and filtering expense data.
- **Architecture**: Apply appropriate architectural patterns to ensure scalability and maintainability.
- **Testing**: Demonstrate testing proficiency through:
   - Unit tests
   - Widget tests
   - Integration tests

Deliverables 🔗

Please share your work as a **Flutter project** hosted on a **public GitHub repository**. Ensure the repository includes:

1. A clear and comprehensive **README.md** file that covers:
   - Instructions on how to run the app.
   - Explanation of the app's architecture and any libraries used.
2. A **test suite** demonstrating:
   - Unit tests for core logic.
   - Widget tests for UI components.
   - Integration tests for end-to-end functionality.

Submission Guidelines 🔗

- Ensure your code is well-organized, readable, and follows best practices.

- Focus on delivering quality over quantity—optional features are not mandatory but will be appreciated if implemented well.

- Share the GitHub repository link with us once completed.

Good luck, and we look forward to reviewing your submission!