

Assignment Documentation

On

**Personal Expense Tracker App**

Submitted to

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**PUNJAB**

**Session 2023-2025**

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**1. Overview**

This Flutter application is a Personal Expense Tracker App that helps users track their income and expenses with a clean and intuitive UI. It includes Google Authentication and uses Firebase for cloud data storage and local databases for offline access.

**2. Features**

1. Add Income and Expense entries
2. Categorization: Food, Travel, Shopping, Subscriptions
3. Visual display of total income vs expenses
4. Google Sign-In authentication
5. Firestore integration for storing user data
6. Customize Profile

**3. Technologies Used**

|  |  |
| --- | --- |
| Tech | Purpose |
| Flutter | Cross-platform UI framework |
| Firebase Auth | Google Sign-In Authentication |
| Firestore | Cloud database for user info |
| Provider | State Management |
| Shared Preferences | Persistent login/session storage |
| Material Design | UI Components |

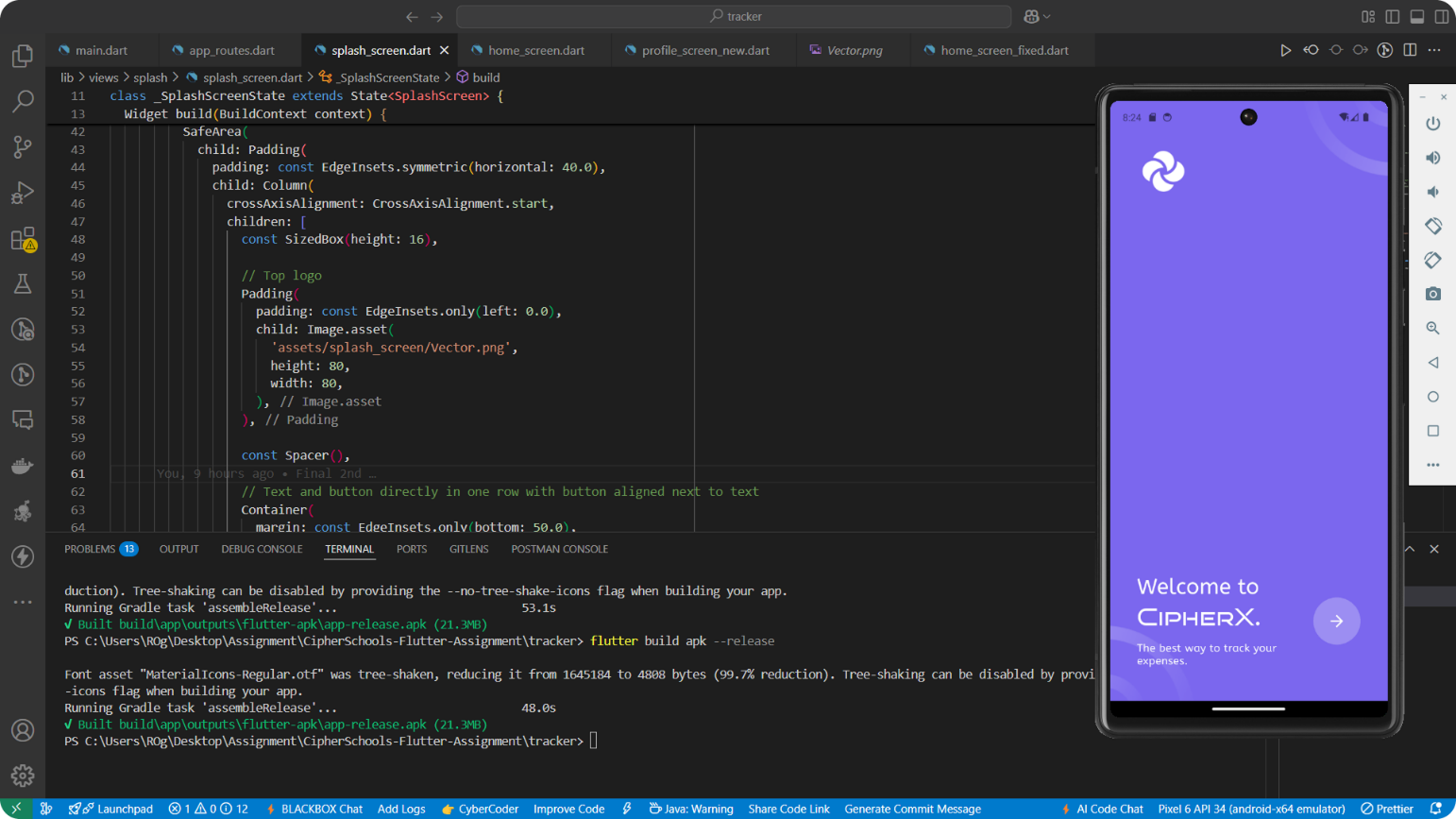
**4. UI Screens**

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| --- | --- |
| Screen Name | Description |
| Initial Screen | Purple background with CipherX logo |
| Splash Screen | Welcome screen with navigation button |
| Login/Signup | User Authentication |
| Home | Main application interface |
| Profile Screen | User Settings |

**5. Project Structure**

|  |  |
| --- | --- |
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**13. Installation and Setup**

1. \*\*Clone the repository\*\*

git clone https://github.com/Sumitkr777/CipherSchools-Flutter-Assignment.git

cd CipherSchools-Flutter-Assignment/tracker

2. \*\*Install dependencies\*\*

flutter pub get

3. \*\*Run the app\*\*

flutter run

**13. Conclusions**

Overall, making this UI was a good experience. I worked on building a clean and easy-to-use design. The app runs fast and works well with Firebase and local databases. I used a simple and organized way to write the code, which made everything easier to handle. This project helped me build a smooth and useful app that is easy to use and ready to grow in the future.

**14. May be if I could Future Improvements**

* Cloud sync of transaction data
* Graph-based monthly analytics
* Budget planning and alerts
* Export data as PDF or CSV