Finance Tracker

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CSCI 490- Capstone

Project Description

What are you going to build?

A personal finance application built in Flutter with a cloud based storage in PostgreSQL. The app will allow users to track their income and expenses, categorize your transactions, and visualize their financial activity.

Why is this something you want to build?

Money management is a problem that many people face especially college students and many of the existing apps are based off subscriptions and can compromise user privacy. It ties my own personal experiences with my programming experience. This application provides a free and secure platform for students who struggle with budgeting.

Project Implementation Details

Which technologies are you going to use? Why?

- **Frontend:** Flutter
- **Database:** PostgreSQL
- **Visualization:** fl_chart package → for pie charts, bar graphs, and trend lines.

User Interface

Planned Screens

1. **Login / Sign-Up** - authentication

2. **Dashboard** - overview of income and expenses

3. **Transaction Entry** - add and change your transactions and expenses
4. **Charts View** - charts describing your transactions and progress
5. **Settings** - account management and budget alerts

Project Deliverables and Timeline

Expected Contributions

Core Functionality (MVP):

- Secure login/logout (Supabase Auth)
- Add/edit/delete transactions
- Categorization of expenses
- Cloud storage in PostgreSQL
- Basic charts (income vs. expenses, pie by category)

Stretch Goals:

- Budget limits and overspending alerts
- Savings goal tracking

General Timeline

- **Week 1–2:** Finalize proposal, figure out structure of the program.
- **Week 3:** Build entry section for transactions and find a way to edit

transactions.

- **Week 4:** Implement transaction list + filters (by category/month).
- **Week 5:** Add charts(pie and line) .
- **Week 6:** Fix the UI and test charting.
- **Week 7:** Set up cloud DB.
- **Week 8:** Add authentication and tie data to user accounts.
- **Week 9:** Test security and authentication for each account.
- **Week 10-11:** Work on finishing main features. Potentially work on extra features (saving goals and alerts).
- **Week 12:** Bug fixes and prep poster.