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Software Engineer | Project Assignment

The Personal Finance Assistant is a full-stack application designed to help users track, manage, and understand their financial activities. Users can log income and expenses, categorize transactions, and view summaries of their spending habits.

Requirements

- Ability to create a income / expenses entry through the web app.
- List all income / expenses in a time range through web app app.
- Ability to show some graphs like (expenses by category, expense by data etc.,)
- Ability to extract expenses from a uploaded receipt (Images, pdf). These are pos receipts.

Data Model & Programming choices

- Use the data model that best suits the above requirements.
- APIs must be separate from frontend code. Frontend web app will talk to backend through APIs
- Persist the income expenses in a database



Bonus features (Will get extra credit for implementing below features)

- Support upload of transaction history from pdf. The PDF represents a tabular format.
- Support for pagination of the list api
- Supporting multiple users who can use the web app

Code Quality Guidelines

The quality of the code you submit will play a significant role in our evaluation process. Here are some specific code quality guidelines we will be looking for:

1. **Clean Code:** Write clear and concise code that is easy to read and understand. Use meaningful variable and function names. Avoid overly complex or convoluted code structures.
2. **Modularity:** Break your code into logical modules or functions, promoting reusability and maintainability. Avoid monolithic code.
3. **Documentation:** Provide a README file with instructions on how to run your code and any additional information.
4. **Error Handling:** Implement error handling and validation where necessary to ensure robustness.
5. **Comments (Optional):** Include appropriate comments in your code to explain complex logic or important decisions.

Please keep in mind that the quality of your code will be a crucial factor in our decision to move forward with your application. We encourage you to allocate sufficient time and effort to ensure your assignment reflects your coding skills and understanding.