

Personal Finance Tracker and budgeting tool

This project will involve working with JSON files to store financial data and transactions.

Personal Finance Tracker with Python and JSON:

Project Overview:

Build a command-line personal finance tracker that allows users to input income, expenses, and track their budget. The application will store financial data in JSON files.

Features:

1. *Income and Expense Tracking*: Users can input their income and expenses, categorize transactions, and assign dates.
2. *Budgeting*: Set budget limits for different expense categories and track how well the user is sticking to their budget.
3. *Summary Report*: Display a summary report with total income, total expenses, and the remaining budget for the month.
4. *Data Persistence*: Store financial transactions and budget information in JSON files. Load the data when the application starts and save it when new transactions are added.

Guidelines:

- Use separate JSON files for storing income, expenses, and budget data.
- Implement error handling for invalid inputs or file access issues.
- Consider using a library like `click` for command-line parsing to enhance the user experience.

Optional Enhancements:

- Implement graphical visualization of spending patterns or budget distribution using a library like Matplotlib or Plotly.
- Add functionality to set financial goals and track progress over time.
- Allow users to export financial data to other formats, such as CSV or Excel.
- Include a feature to categorize and tag transactions for more detailed analysis.

This project will not only showcase your Python skills but also demonstrate your ability to handle financial data and create practical tools for personal use. It can be a great addition to your resume, especially if you're interested in finance or data analysis. Customize the features based on your preferences and the level of complexity you want to achieve. Good luck!

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