

TRACK MY DOLLAR

Group 99
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INTRODUCTION

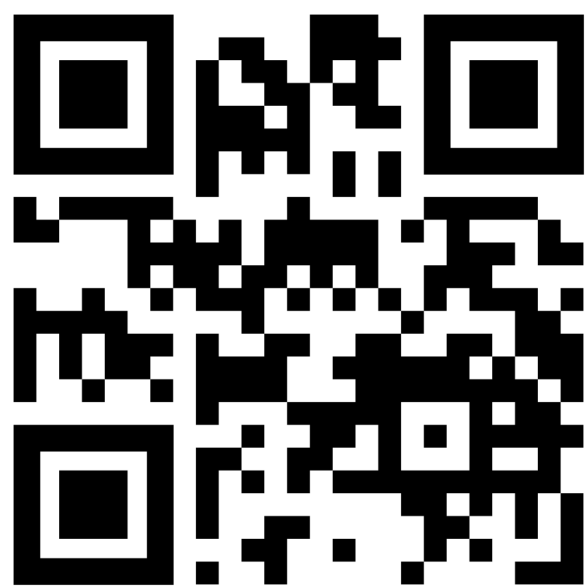
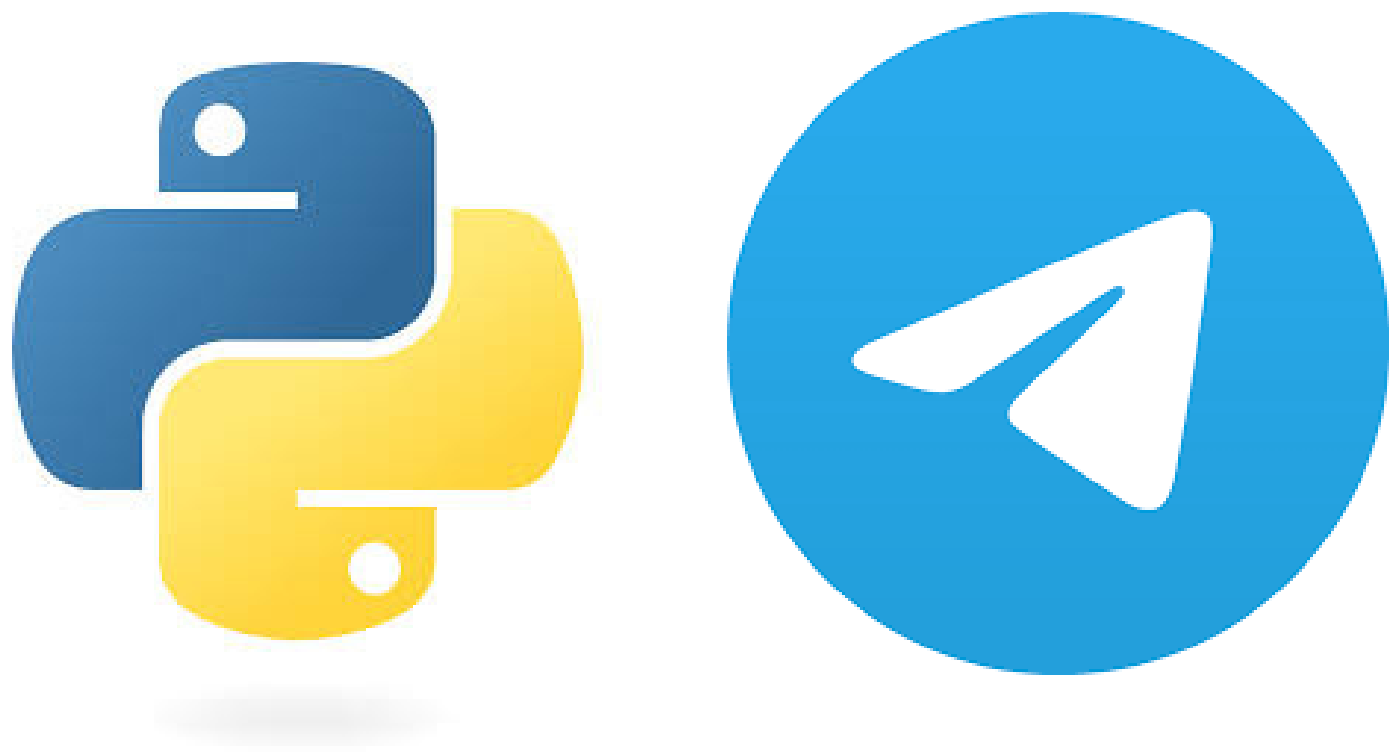
Introducing MyDollarBot, your ultimate personal finance assistant! Manage your expenses, budgets, and income effortlessly with this powerful tool.

- **Track & Manage Finances** - Add, edit, and categorize expenses with ease.
- **Smart Forecasting** - Get spending estimates and predictions to stay ahead.
- **Seamless Data Export** - Extract data to CSV, get reports via email, and generate PDF summaries.
- **Visual Insights** - Analyze spending with interactive graphs and currency converters.
- **Customizable & Secure** - Tailor categories and budgets, all while keeping your data safe.

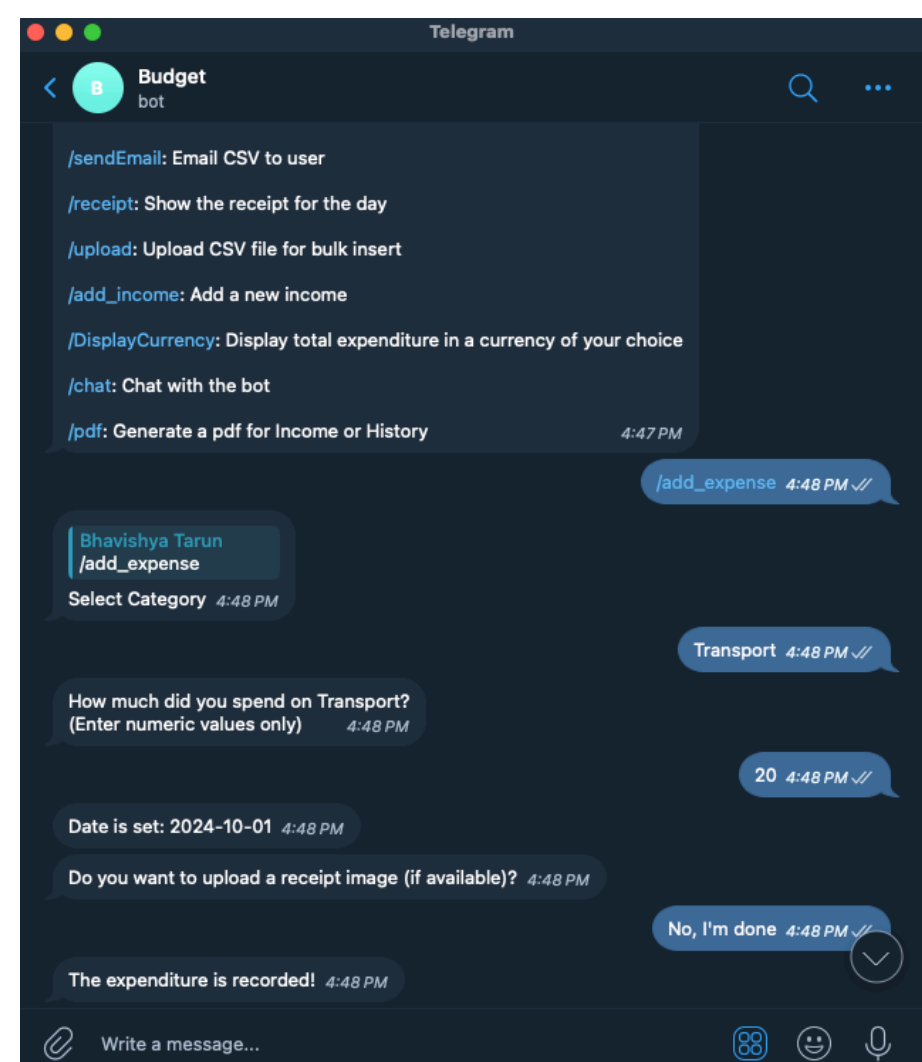
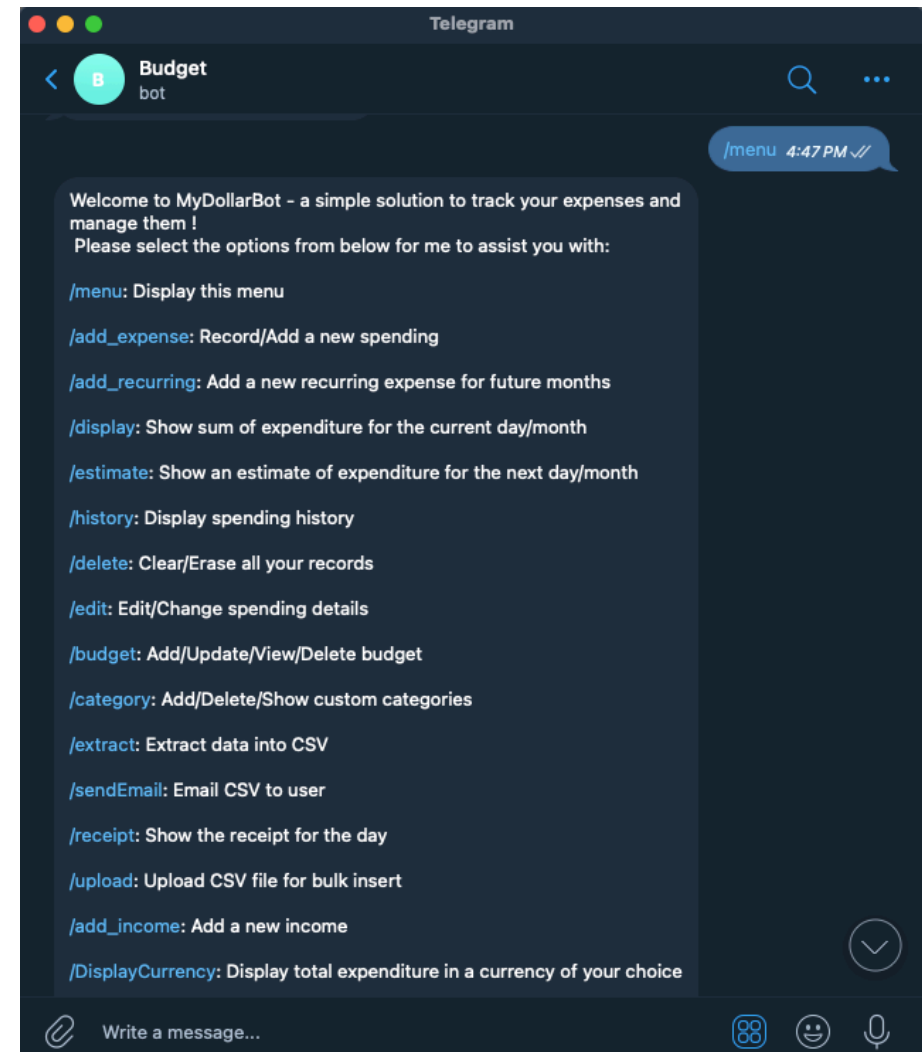
Say goodbye to financial stress—MyDollarBot has you covered!

ARCHITECTURE AND MODULE WORKFLOW

- **User Interface Layer** -
 - Telegram's chat window is used for accessing financial data, allowing users to select options from the main menu.
- **Core Finance Modules** -
 - Budget Management: Users can create and manage budgets, with real-time updates when adding expenses. All written in Python.
 - Expense Tracking: Enables accurate recording of transactions in a JSON
 - Recurring Expenses: Automates the management of regular payments with the scheduler
- **Data Management** -
 - Transaction History: Users can access and review their spending patterns and easily request transaction history or export data in CSV and PDF formats.
- **Analytics and Reporting** -
 - Provides visual reports and future expense estimates, allowing users to generate summaries of their spending using Python libraries
- **Chat with AI** -
 - Using Chat-GPT, we power the chatbot by providing a Finance Advisor!



Github Repository



ENHANCEMENTS

Database Integration - Transition from JSON to a database system for improved data management and scalability.

Implementation - Utilize a lightweight database like SQLite or PostgreSQL to handle user and transaction data efficiently.

Multi-Currency Support - Introduce functionality that allows users to manage expenses in different currencies, catering to international users.

Implementation - Integrate a currency conversion API to handle real-time exchange rates.

Receipt Scanning - Enable users to upload receipts which the bot can scan and automatically categorize, streamlining expense tracking.

Implementation - Utilize OCR (Optical Character Recognition) technology to extract data from images.

Email Summaries - Provide users with the option to receive weekly or monthly summaries of their spending and budgeting via email.

Implementation - Set up a background job that compiles user data and sends email reports automatically.

Transaction Limit Alerts - Enable users to set transaction limits and receive alerts when they approach these limits, helping them stay within budget.

Implementation: Implement a notification system that checks transactions against user-defined limits.