CODE FORGE

IDEA SUBMISSION

TEAM DETAILS

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OUR SOLUTION

Our AI Expense Tracker is an intelligent financial management tool that automates expense tracking, categorization, and analysis using AI and machine learning. It simplifies budgeting by analyzing user spending patterns and offering personalized insights.

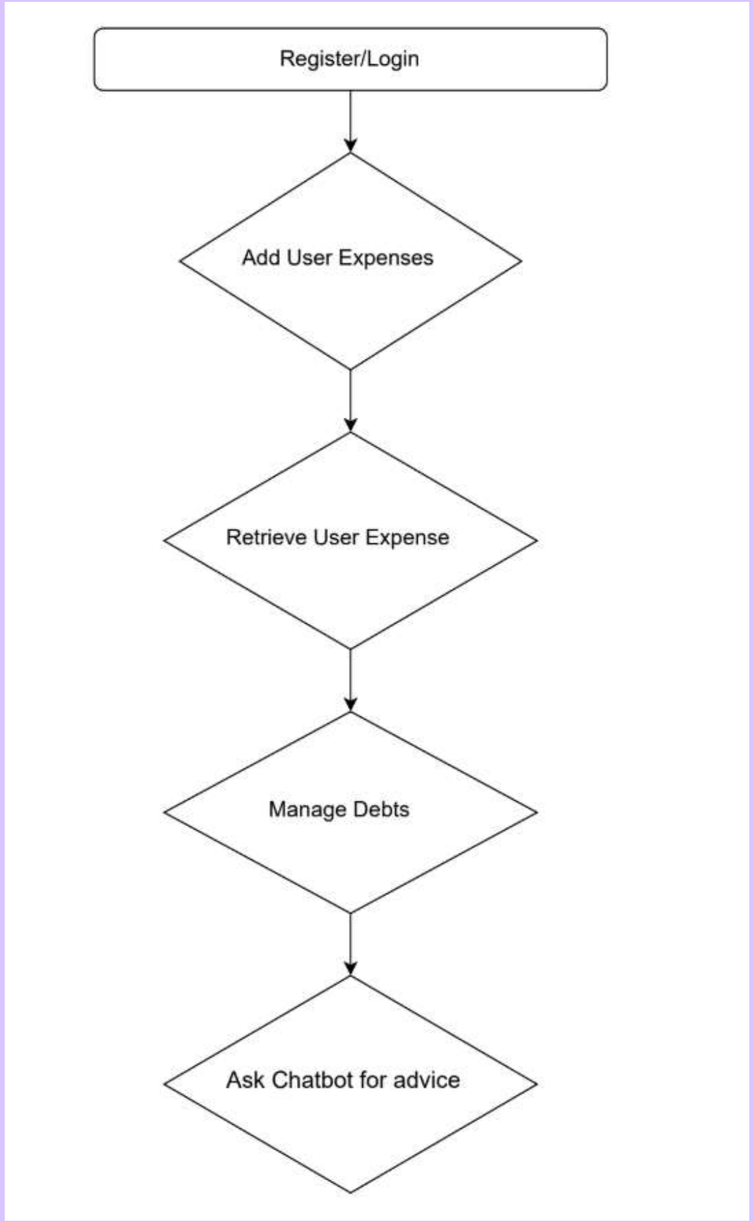
Key Features:

- Automated Expense Tracking
- AI-Powered Insights
- Debt & Loan Management
- Data Visualization
- AI Chatbot for Financial Advice
- Secure & User-Friendly Interface

TECHNICAL APPROACH

- **Database Management (SQLite)**: Stores user data, expenses, and debt records securely using a relational database.
- **Backend Development (Python&Streamlit):** Implements core functionalities such as authentication, expense tracking, debt management, and data retrieval through an interactive UI.
- **AI Integration (Google Gemini API):** Enhances user experience by providing AI-driven financial insights and chatbot assistance.
- **Data Visualization (Matplotlib & Pandas):** Generates bar charts, line graphs, and pie charts to help users analyze their spending patterns.
- **User Authentication (SQLite & Streamlit Sessions)**: Ensures secure login and registration functionalities to maintain user-specific financial data

WORKFLOW/PIPELINE



FEASIBILITY & FUTURE SCOPE

Our AI Expense Tracker is highly feasible, leveraging existing technologies like SQLite, Pandas, and Google Gemini API for seamless expense management. It is cost-effective, user-friendly, and scalable, making financial tracking effortless. The integration of AI-powered insights and automated reports ensures smooth decision-making.

In the future, the project can expand by incorporating financial forecasting, bank integration, multi-user collaboration, and mobile app development. Advanced features like blockchain-based secure transactions and AI-driven saving recommendations will further enhance its capabilities. With these improvements, the tracker can become a comprehensive personal finance assistant

THANK YOU