Proposal
OOPS-2 Project

Forex Trading Bot with GUI

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Problem Statement:
Forex trading is fast-moving and prone to human error, making manual strategies inefficient and risky. An automated trading system can help by applying strategies consistently and removing emotional bias, leading to more disciplined and efficient trading.

Description:
This project focuses on developing a Forex trading bot using Python with real-world broker API integration, such as OANDA. The system will fetch live market data, process it in real time, and allow automated trade execution directly through the broker's API.

The bot will also maintain detailed records of all trades, including open positions, closed positions, and order history. It will calculate both realized and unrealized profit and loss, updating the results dynamically as market prices move. A graphical interface will provide interactive visualizations, current position summaries, and running P&L.

Risk management features, such as stop-loss and take-profit levels, will be incorporated to prevent excessive losses. The system's modular design will ensure strategies, data sources, and risk modules can be easily extended or replaced.