



CODECELL-CMPN,VESIT

SYRUS HACKATHON 2025

Category Code: C5

Problem Statement Title: AI-Powered Investment & Trading Assistant

Team Name: T-bits

Institute Name: Vivekanand Education Society's Institute of Technology



Idea / Approach details (& implemented features)

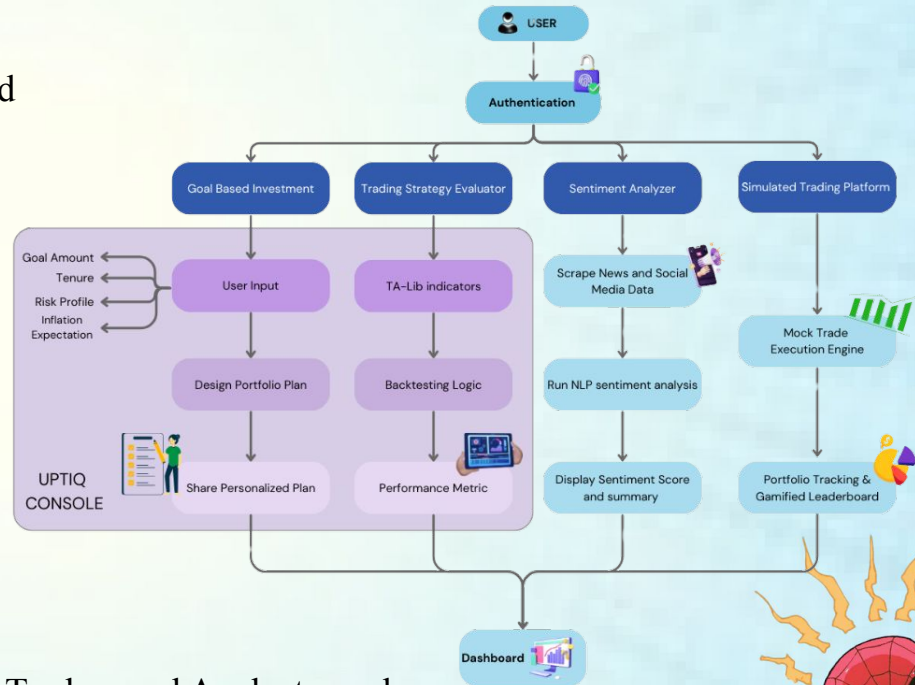
Problem Statement

- Retail investors lack personalized guidance and real-time insights.
- Evaluating strategies and analyzing sentiment requires expertise, leading to poor decisions.

Solution

- AI-powered assistant integrates goal-based planning, strategy evaluation, sentiment analysis, and simulated trading.
- Uses UPTIQ Console to automate financial decisions and provide personalized recommendations.

Target audience : Retail Investors, Beginner investors, Traders and Analysts, and Consultants



Implemented Features

Financial Sentiment Analysis :

- Analyzes market sentiment by processing financial news, social media trends, and expert opinions.
- Provides insights into market mood and potential shifts.

Investment Strategy Evaluator :

- Evaluates and backtests trading strategies using historical data.
- Analyzes performance metrics to help users refine and optimize their strategies.

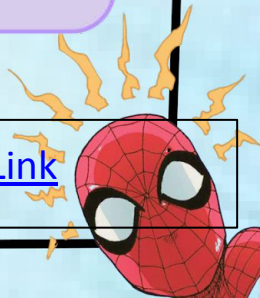
Investment Recommendations Agent :

- Provides personalized investment insights and market analysis.
- Utilizes multiple specialized sub-agents, each linked to a specific intent and workflow.

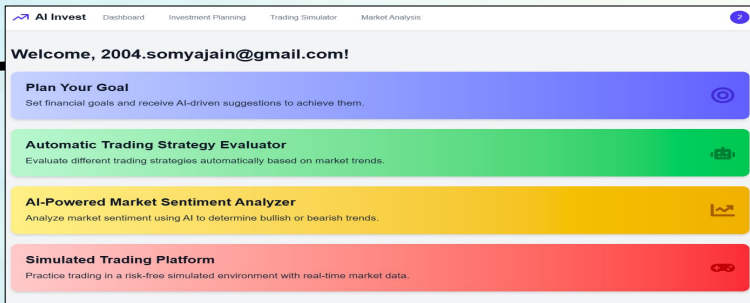
Implementation Video : [Link](#)

Feature Documentation and output : [Link](#)

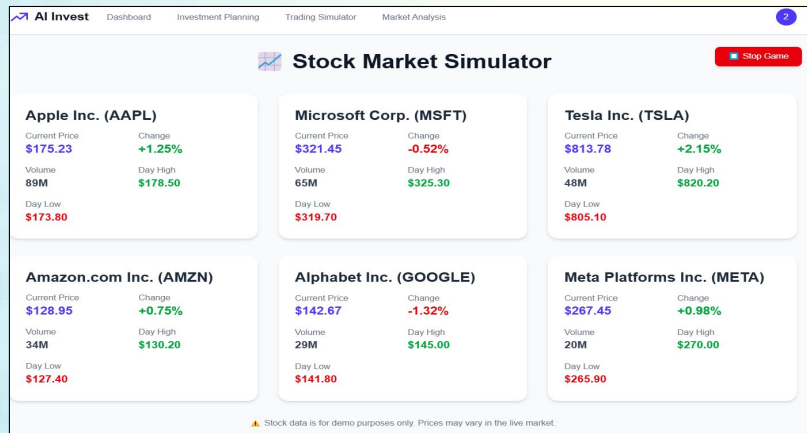
Uptiq issues : [Link](#)



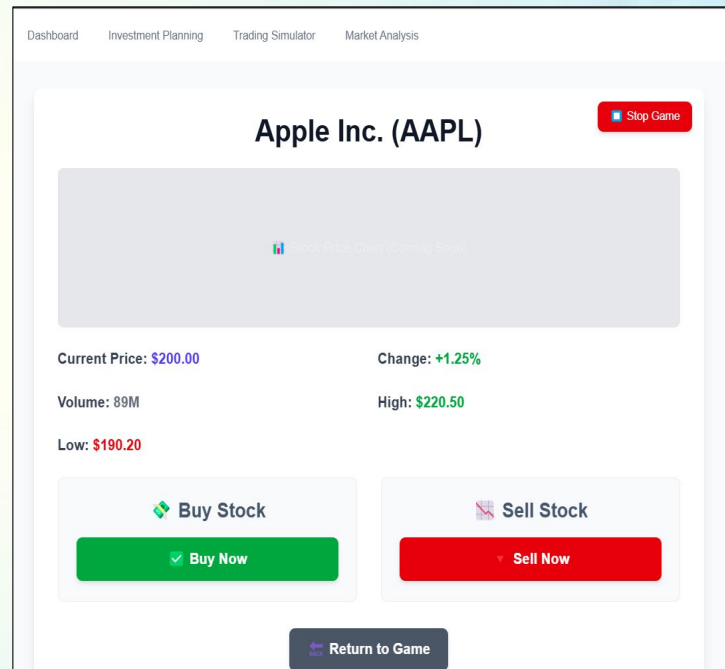
UI Design



Dashboard



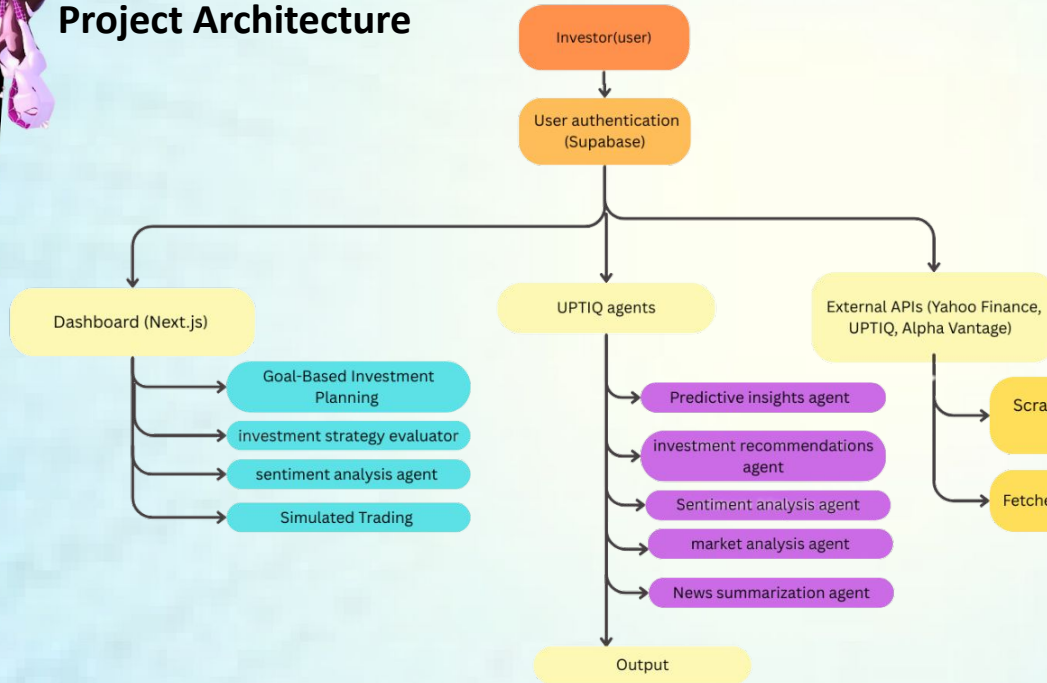
Simulated Market



Buy/Sell of a stock

Architecture and Tech Stack

Project Architecture



Tech Stack

Frontend



Next.js

Agentic Workflow



Uptiq

Database



Supabase

Backend



Python



Future Objectives

- **Improve AI Accuracy** – Integrate deep learning to detect patterns, e.g., **Tesla stock surging after earnings reports**, for better predictions.
- **Multi-Asset Support** – Expand analysis to **crypto (Bitcoin trends)**, **ETFs (S&P 500)**, and **commodities (Gold price shifts)** for diversified insights.
- **Real-Time Risk Alerts** – AI detects sudden **Nvidia stock drops (e.g., 5% in pre-market)** and alerts users instantly.
- **Personalized Strategies** – AI adapts; e.g., if a user prefers **low-risk dividend stocks**, it suggests **Coca-Cola over Tesla**.

