

# CODECEUL-CMPILIUS DE CODECEUL CMPILIUS DE CODECEUL

**Category Code: C5** 

Problem Statement Title: AI-Powered Investment & Trading

**Assistant** 

**Team Name:** T-bits

Institute Name: Vivekanand Education Society's Institute of Technology























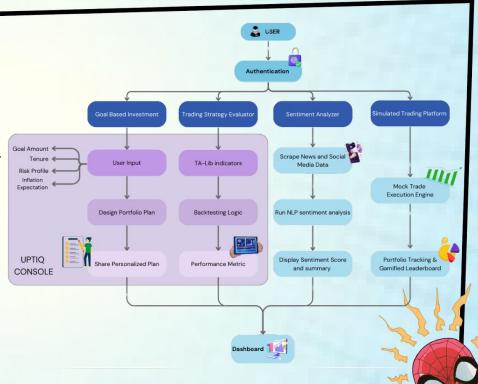
## Idea / Approach details (& implemented features)

#### **Problem Statement**

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

#### Solution

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



#### Innovation (Showstopper)/ Use Case Diagram

#### **Goal-Based Investment Planning**

- Recommends portfolios based on goals and risk.
- Uses historical data and growth models.

**Market Sentiment Analyzer** 

and social media.

decisions.

Analyzes sentiment from news

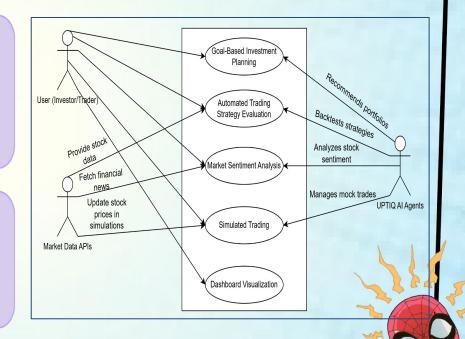
· Guides informed investment

#### **Trading Strategy Evaluator**

- Tests indicators on historical data.
- Provides key performance metrics.

#### Simulated Trading Platform

- Allows mock trades and tracks performance.
- Encourages learning through gamification.



#### **Tech Stack**

Database



supabase

Frontend

HIGHCHARTS



Backend











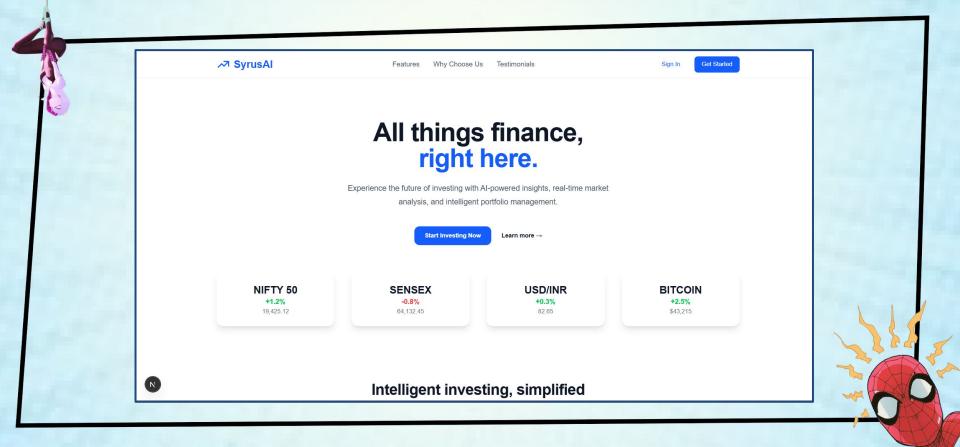
Agentic Workflow



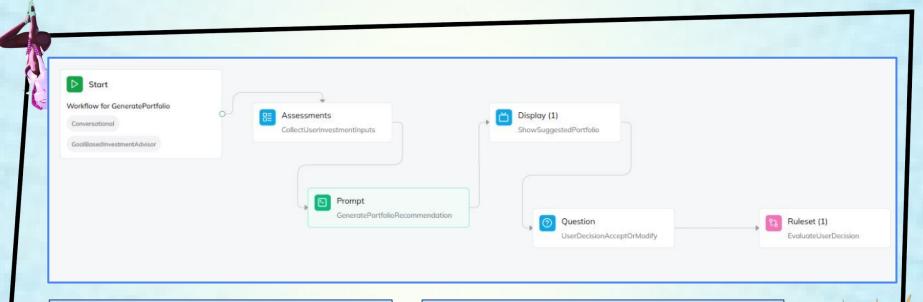
Data resources



#### Implementation/Prototype/Use Case Diagram (screenshots)



#### In case of Uptiq category - Your Uptiq Agent (explain in detail)



**User Input:** Goal, amount, duration, and risk.

Al Recommendation: Asset allocation with future

value.

User Choice: Accept or modify.

Confirmation: Confirms or stores portfolio.

Modification: Al re-evaluates custom allocation.

Final Confirmation: Displays and confirms updated

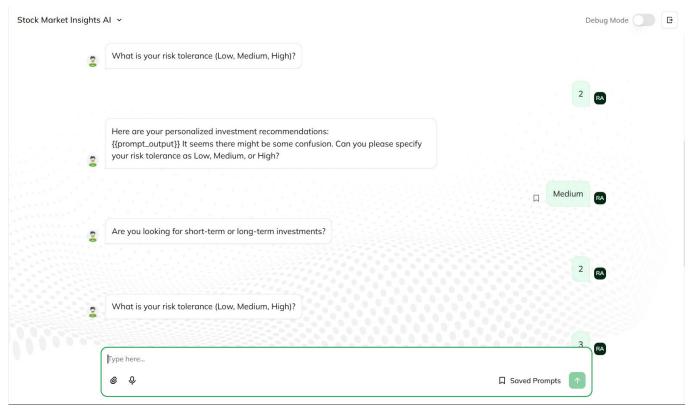
portfolio.



## **Future Objectives**

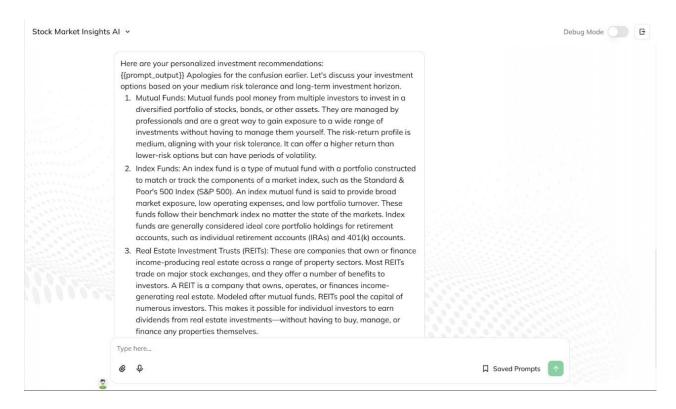
- Improve Al Accuracy Integrate deep learning to detect patterns, e.g., Tesla stock surging after earnings reports, for better predictions.
- Multi-Asset Support Expand analysis to crypto (Bitcoin trends), ETFs (S&P 500),
  and commodities (Gold price shifts) for diversified insights.
- Real-Time Risk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

## **Outputs (Uptiq workflow)**



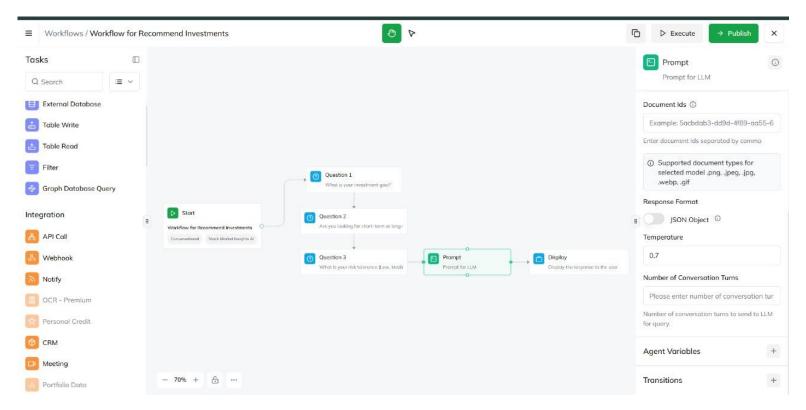
Goal based investment plan

### **Outputs (Uptiq workflow)**



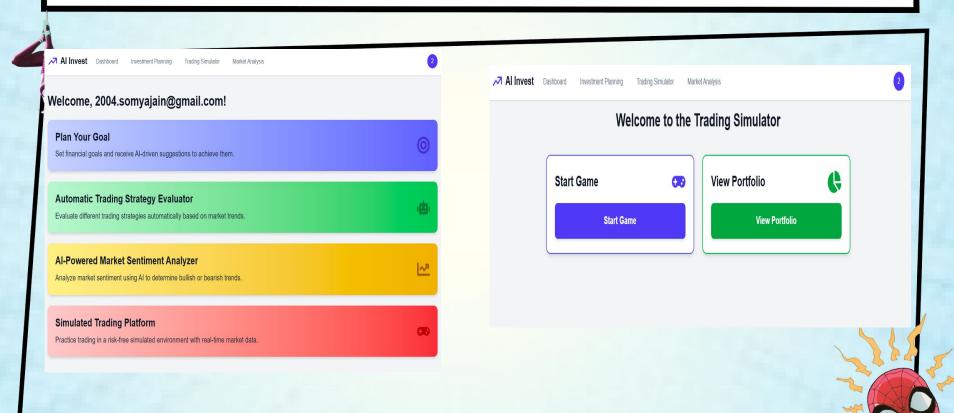
**Agent Overview** 

## **Outputs (Uptiq workflow)**



WorkFlow

## **Outputs (Frontend)**



## **Outputs (Frontend)**

