

Category Code: C2

Problem Statement Title: Tax Optimization & Harvesting Assistant

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Idea / Approach details (& implemented features)

Idea: Al-powered tax optimization assistant for real-time tax-loss harvesting & portfolio efficiency.

Problem: Investors face complex tax rules & manual portfolio adjustments

Solution: Al automates tax-saving strategies & ensures compliance.

Approach:

Real-Time Portfolio Analysis

- Continuously monitors an investor's holdings.
- Ensures timely data synchronization for accurate decision-making.

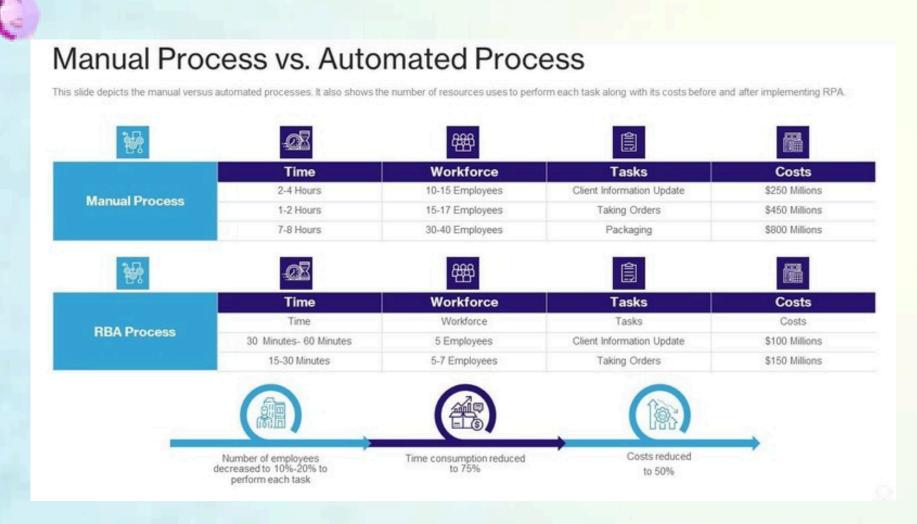
IRS Rule Compliance

- Automates Wash-Sale Rule enforcement (prevents repurchasing the same security within 30 days).
- Uses RAG Query Node to fetch IRS regulations dynamically.

AI-Powered Trade Recommendations

- Suggests alternative securities to maintain portfolio exposure while selling loss-making assets.
- Leverages historical data & AI models to improve recommendation accuracy.

Innovation (Showstopper)



Key differentiator:

- Continuous, real-time tax-loss detection (not just quarterly).
- Fully automated wash-sale rule compliance—no manual checks needed.
- Scenario simulation: Investors can preview tax impacts before trading.

Showstopper:

 "Turns complex tax rules into plainlanguage, real-time actions—saving time and money effortlessly."

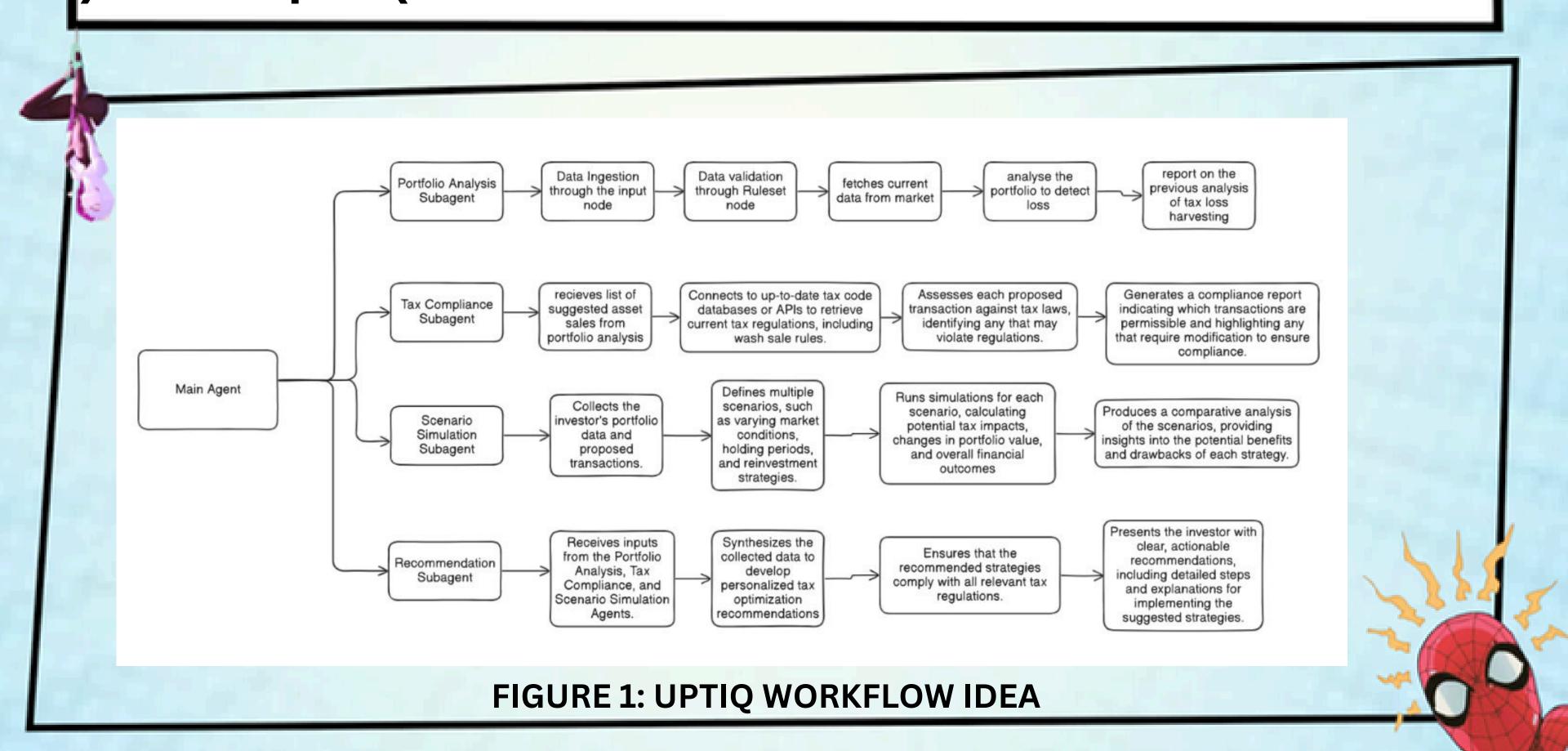
Tech Stack

Uptiq Al Workbench Architecture

- Real-Time Tax-Loss Detection
 - Financial Data GatewayLive portfolio pricing retrieval
 - Integrated brokerage account synchronization
 - JavaScript NodeCustom loss identification logic
 - Dynamic price comparison engine
- Wash-Sale Rule Compliance
 - Ruleset NodeAutomated IRS regulation enforcement
 - 30-day trade restriction mechanism
 - Table NodeTransaction history tracking

- AI-Powered Recommendations
 - RAG Query NodeExtensive tax regulation knowledge base
 - Tax-efficient security identification
 - Prompt NodeActionable investment insights generation
 - Personalized tax optimization advice
- Additional Technologies
 - Cloud-based financial data APIs
 - Secure, encrypted transaction database
- Real-time computational analysis

Implementation/Prototype/Use Case Diagram



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

Uptiq Agent: Tax Optimization Assistant

Role: Acts as an AI-powered financial co-pilot for investors and advisors.

Detailed Functionality:

- Real-Time Monitoring: Uses Financial Data Gateway to pull live prices and portfolio data.
- Loss Detection: JavaScript Node runs logic (e.g., if currentPrice < purchasePrice → flag loss).
- Compliance Enforcement: Ruleset Node checks IRS wash-sale rules; Table Node logs sale timestamps.
- Smart Recommendations: RAG Query Node fetches tax rules and alternatives; Prompt Node delivers advice like "Sell X to save \$Y, buy Z instead."

Future Objectives

- Enhanced machine learning models
- More sophisticated tax strategies
- Advanced predictive analytics
- Autonomous investment ecosystem
- Scale to financial advisors and roboadvisory platforms.

