

# Problem Statement: Reanalyze Risk Tolerance Using AI Agentic Workflow

## Objective

The goal of this project is to reevaluate user risk tolerance based on provided JSON data, analyze relevant financial information, and generate a new JSON file containing updated risk tolerance values. The project utilizes Microsoft Autogen or a similar framework, with the flexibility to build and work within a custom framework.

## Steps

### Step 1: Read the JSON File

- Create an agent responsible for reading and extracting data from the provided JSON file (userForm.json). This file contains essential information on demographics, financials, risk tolerance, and investment preferences.

### Step 2: Create a Group of Agents for Reanalysis

- Develop a group of AI agents, where each agent will:
  - Reanalyze specific data points, including financial goals, investment strategy, and portfolio structure.
  - Use the analyzed data to reassess the user's risk tolerance based on:
    - Current income, investments, and debt levels.
    - Investment goals and preferences.
    - Existing tolerance levels and target values.

### Step 3: Write a New JSON File

- Each agent should provide an updated analysis of the factors affecting risk tolerance.
- Create a final agent that compiles the findings from the group in Step 2 and writes a new JSON file with updated risk tolerance values. Ensure that the new values reflect any changes in the user's financial situation or risk parameters based on the analysis.

## Technologies Used

- **Language Model:** Llama3.1 8b from Groq API
- **Agentic Framework:** Microsoft Autogen