

Team Name : Workplete

**Problem Statement : AI-Powered Web Browsing
Agent for Objective Achievement**

Brief about the Idea:

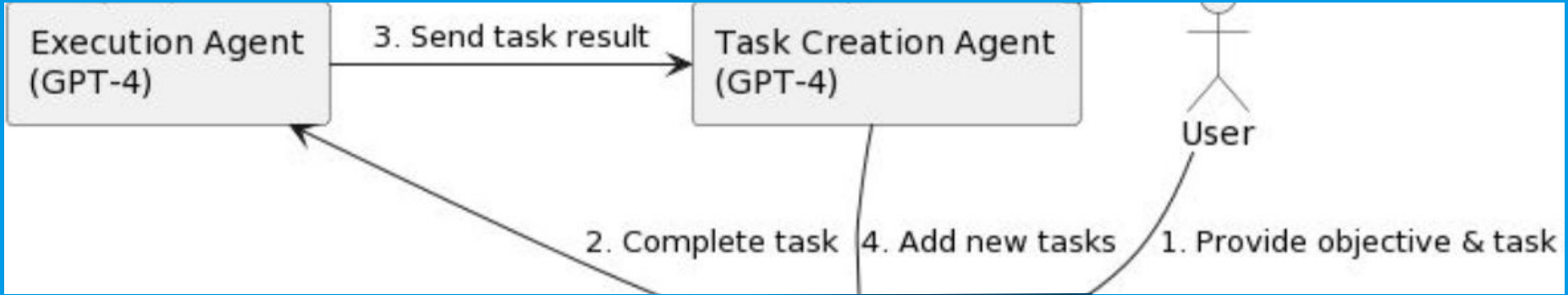
- Autoplete as the word suggest "Auto-Complete" your day to day web browser tasks for you. Be it ordering something from Amazon, booking an Uber, ordering something from Zomato, make a tweet, it automatically completes the tasks with one single line prompt eg. "Open amazon and add 3 notebooks to cart". It goes from "write an article on X topic" to "write the article, and publish it at Y". Autoplete uses the brain of GPT and gives hands to it to control and automate the web browser tasks.
- It uses the langchain framework, OpenAI's api's (GPT-4) brain. It iteratively takes action, decides the future steps, does one at a time, after completing one subtask, moves to the next one. It ends its execution as soon as it thinks the objective has been achieved.

Opportunity :

The growth of the internet and the ever-expanding volume of information have made web browsing an essential part of daily life. However, accomplishing specific objectives during browsing can be time-consuming and challenging, especially when faced with complex tasks that require multiple steps. To address this issue, we propose a novel AI-driven approach that optimizes web browsing for objective achievement.

The proposed idea aims to develop an AI-powered browser agent capable of efficiently accomplishing complex objectives by leveraging the capabilities of two GPT agents in conjunction with advanced technologies such as OpenAI, H2O.ai, LangChain, LlamaIndex, and Google Voice Recognition

Process Flow Diagram/ Usecase Diagram:



Business Logic of the solution :

The business logic of a "Browser automation" solution involves using software or scripts to automate web browser tasks, streamlining and optimizing various processes. This technology can have a wide range of applications, and its business logic can be tailored to suit specific use cases. Here's a general outline of the business logic:

- Identifying Automation goals.
- User authentication and Security.
- Scalability and Performance
- Monitoring and Reporting
- User Interface
- Publicity

Technology used :

- **OpenAI** for generating the responses.
- **Google-speech api** voice to text recognition.
- **Langchain/Llama index** agents for smooth workflows.
- **Playwright** for the navigation of browser.