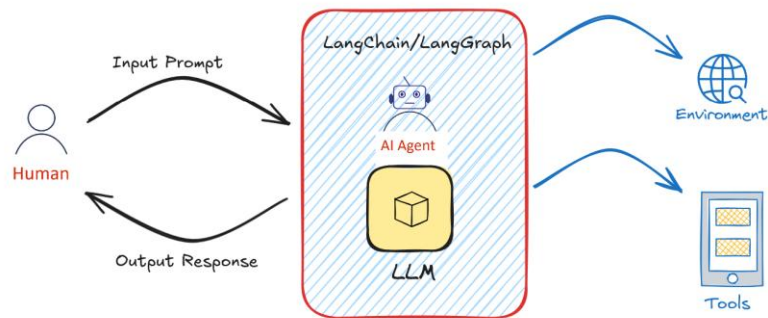


# Lab 2

## LangChain/LangGraph Coding Workbench

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### Instructions:

1. Complete the tasks and steps listed under the Requirements section below.
2. Participate in the Lab Discussions on Canvas/Lab 2

## Requirements:

1. Activate your python 3.10 virtual environment that you created in Lab\_1 by executing the following commands from the terminal/window:
  - `venv\Scripts\activate`
2. Set up your environment variables for OpenAI Key and Rasa-Pro License
  - `set OPENAI_API_KEY=ADD_YOUR_OPENAI_API_KEY_HERE`
  - `set LANGCHAIN_API_KEY=ADD_YOUR_LANGCHAIN_API_KEY_HERE`
  - `set LANGCHAIN_TRACING_V2=true`
  - `set TAVILY_API_KEY= ADD_YOUR_TAVILY_API_KEY_HERE`
3. Download and run the provided IPYNB scripts: Lab\_2.1 and Lab\_2.2
4. Modify the provided IPYNB script, Lab\_2.1, to add your name and your favorite 2<sup>nd</sup> language in the script:
  - `query = "Hi! I'm Bob."`
  - `language = "Spanish"`
5. Modify the provided IPYNB script, Lab\_2.2, to add one your name and your city in the script:
  - `{"messages": [HumanMessage(content="hi im bob! and i live in sf")]}`