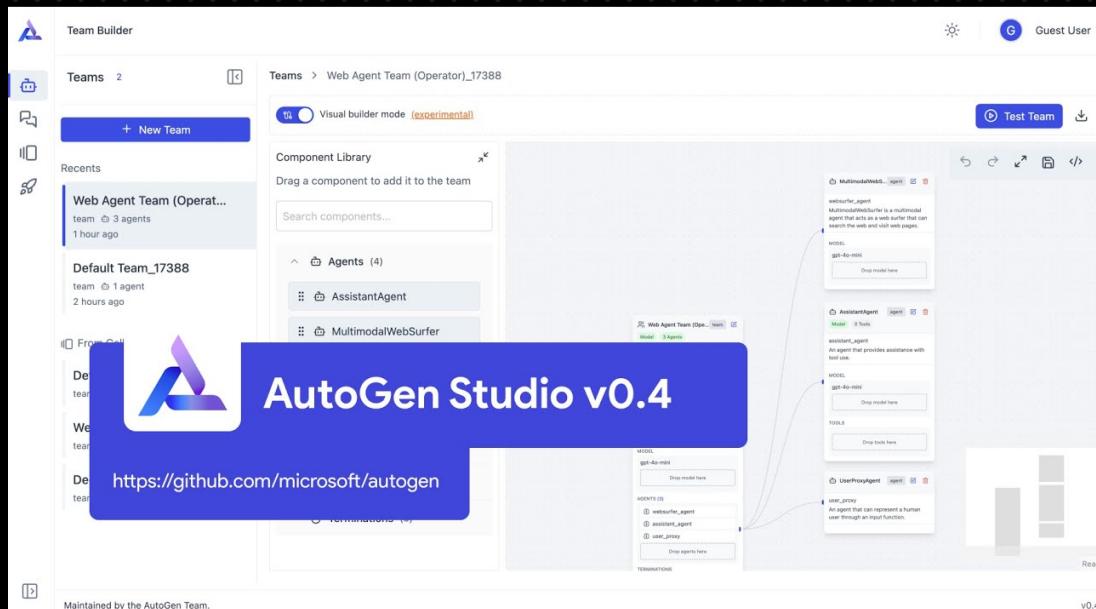


# Autogen Studio

Autogen Studio is a graphical interface for the autogen framework, an open source tool by microsoft for creating AI-agents that can collaborate and solve tasks.



- Build agents in minutes
- Test them on the spot
- Perfect for prototyping and quick testing

# Installation

1. Make sure that we have created a virtual env.

We can use pip, conda or uv.

```
python3 -m venv .venv  
source .venv/bin/activate
```

2. Install the autogen studio from PyPi

```
pip install -U autogenstudio
```

Python 3.8

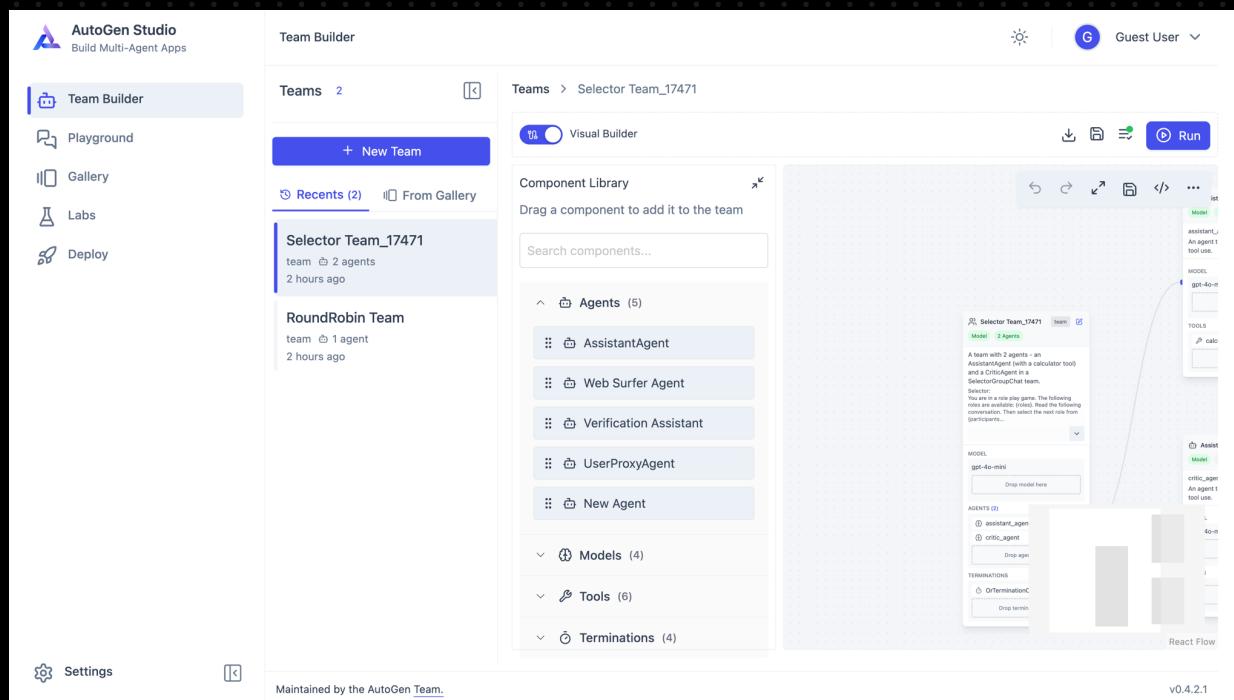
Pip

Browser

3. export your OPENAI\_API\_KEY as it is suggested.

4. Run the application

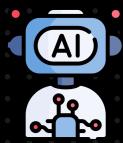
# Understanding the Studio



| Interface    | Description   | Key Features   |
|--------------|---|--|
| Team Builder | Visual interface for creating agent teams                   | <ul style="list-style-type: none"> <li>- Declarative specification via JSON or drag-and-drop</li> <li>- Configure teams, agents, tools, models, termination conditions</li> <li>- Compatible with AgentChat's component definitions</li> </ul>     |
| Playground   | Interactive environment for testing and running agent teams | <ul style="list-style-type: none"> <li>- Live message streaming between agents</li> <li>- Visual message flow via control transition graph</li> <li>- Interactive sessions with UserProxyAgent</li> <li>- Pause/stop execution controls</li> </ul> |
| Gallery      | Central hub for community-created components                | <ul style="list-style-type: none"> <li>- Discover and import third-party components</li> <li>- Easy integration into projects</li> </ul>   |
| Deployment   | Tools for running teams in production                       | <ul style="list-style-type: none"> <li>- Export teams to Python code</li> <li>- Setup and test endpoints from configuration</li> <li>- Run teams in Docker containers</li> </ul>   |

# Autogen Components

Agents



agents are at core of autogen or autogen studies.

name      description  
model

System message : you are a researcher



Tool



Model

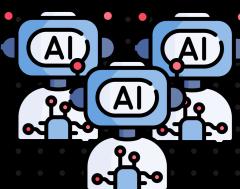
Web Search agent

Bing Search  
tool

gpt 4-o

Model is mandatory whereas tool is like an add on

Team



group of agents working together for a bigger task

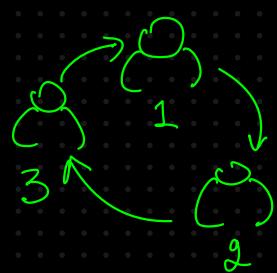
Researcher

Writer

Editor

Workflow

rules on how to interact

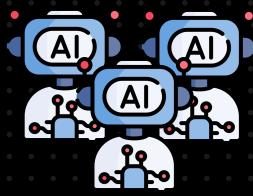


1. Round robin group chat

1 - 2 - 3 - 1 - 2 - 3

2. Selector Group Chat

# Termination Condition



These are the rules which tell our agents or team when to stop

1. Max message : 10 max exchanges

2. Text mention condition

