

LangChain to LangFlow Conversion Code

Description

The LangChain to LangFlow Converter is a program that allows you to seamlessly convert code written in the LangChain framework into code compatible with LangFlow, which is the UI version of the LangChain framework. LangChain is a powerful framework used for developing applications powered by language models, and LangFlow provides a user-friendly interface to interact with those applications.

With this converter, you can easily transform your existing LangChain code into a LangFlow-compatible format and upload it into the LangFlow platform.

How to Use

1.Clone this repository to your local machine:

```
git clone
```

2.Install the required dependencies:

```
cd langchain_2_langflow
```

```
pip install -r requirements.txt
```

3.Define each model or attribute separately on different lines in input.py.

For example:

recommanded way to provide input

```
llm = OpenAI(temperature=0.8, openai_api_key=key)
```

```
jsonspec = JsonSpec(dict_=dict)
```

```
jsontoolkit = JsonToolkit(spec=jsonspec)
```

```
jsonagent = create_json_agent(toolkit=jsontoolkit, llm=llm)
```

avoid methods like:

```
jsonspec = JsonSpec(dict_=dict)
```

```
jsonagent = create_json_agent(toolkit=JsonToolkit(spec=jsonspec), llm=OpenAI(temperature=0.8, openai_api_key=key))
```

4.If your LangChain code requires external inputs, specify the path of those inputs relative to a 'inputs' folder

for example

if your input file require a json file(base_flow.json) as a input

```
llm = OpenAI(temperature=0.8, openai_api_key=key)

with open('./inputs/base_flow.json', 'r') as a:

    dict = json.load(a)

    jsonspec = JsonSpec(dict_=dict)

    jsontoolkit = JsonToolkit(spec=jsonspec)

    jsonagent = create_json_agent(toolkit=jsontoolkit, llm=llm)
```

5.Run the converter script:

```
streamlit run app.py
```

The converter will process input.py and generate a JSON file, converted.json, which will contain the LangFlow-compatible code

Now, you can upload converted.json into the LangFlow platform to leverage the UI version of your LangChain application.