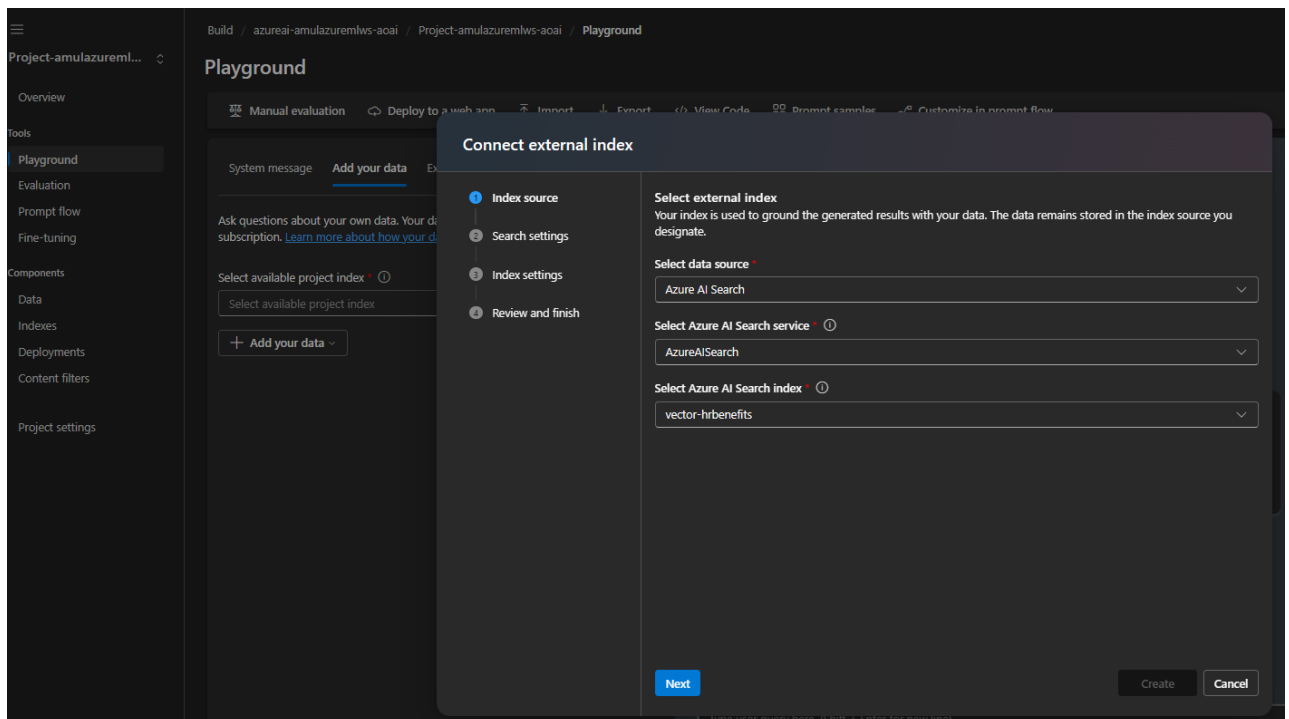# Create RAG application using Prompt Flow

Prerequisites:

1. Completed Azure AI Search lab
2. Access to AI Hub resource in Azure AI Studio. You can [create an AI Hub resource](#) in Azure AI Studio if you don't have one.
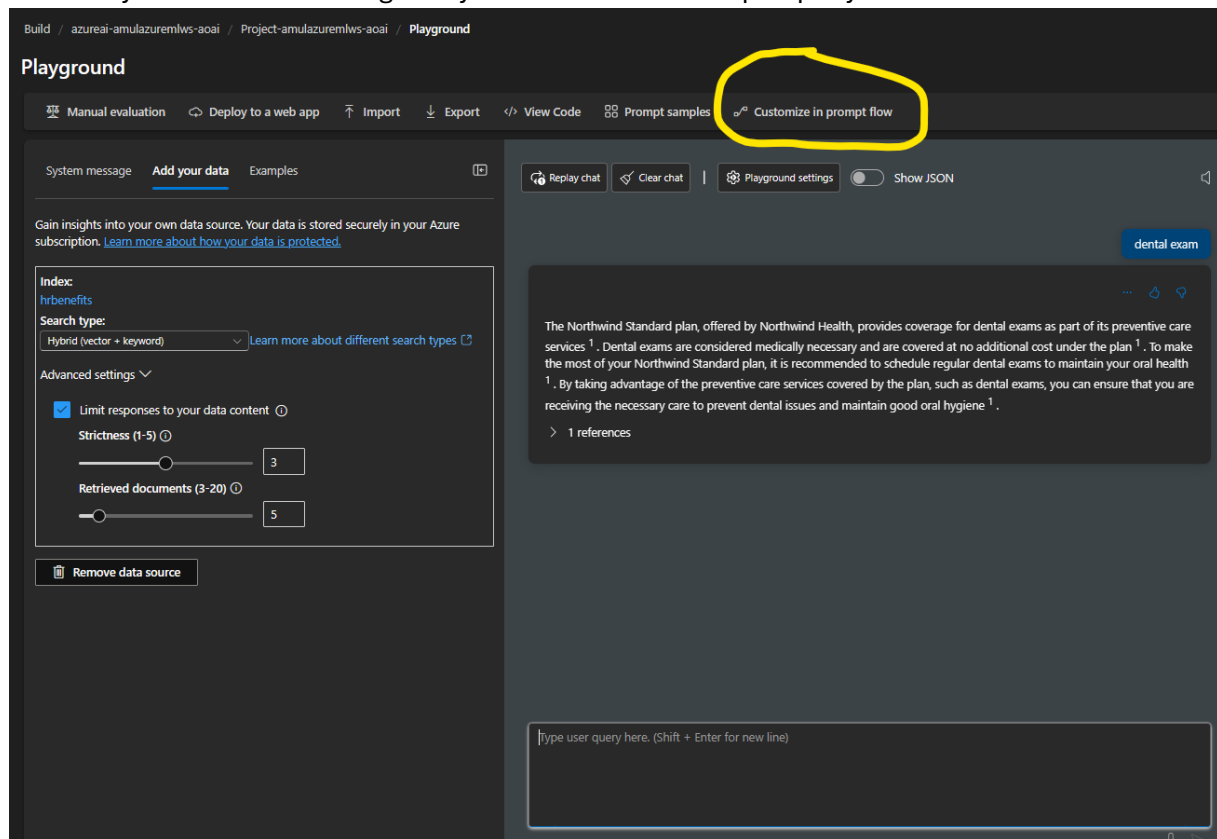3. Access to AI Projects in Azure AI Studio. You can [create AI Project](#) if you don't have one.

You can either create a new RAG application OR import the provided application. Follow section 1 to create new RAG application OR section 2 to import a sample RAG application.

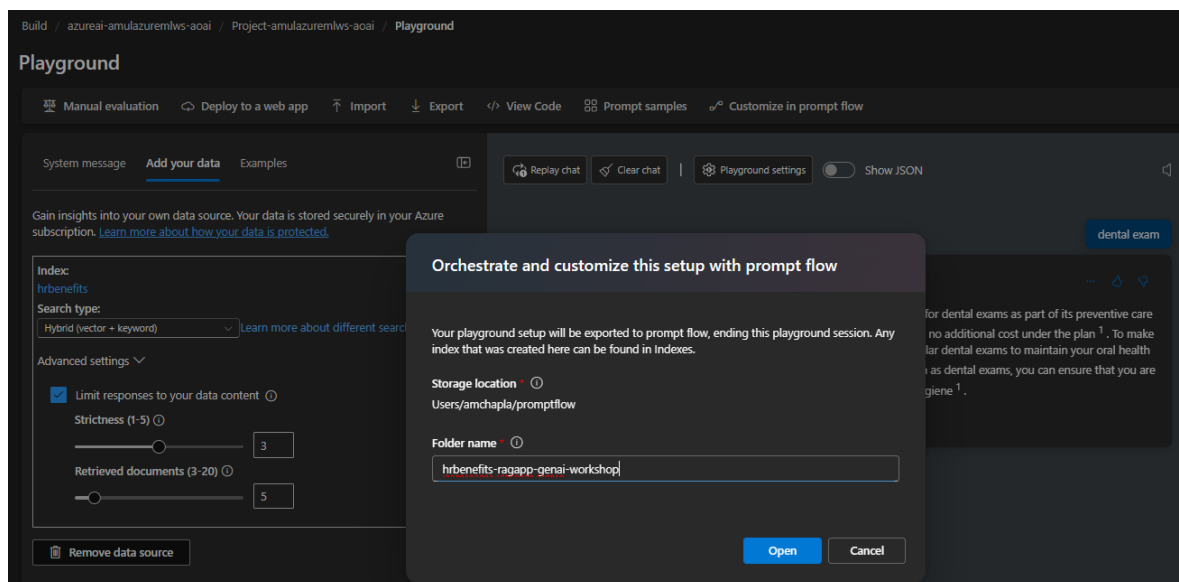## 1. Create RAG application using Prompt flow in Azure AI Studio Playground

a. Go to your Azure AI Studio project
b. Click on Playground (left side)
c. Click Add your data
d. Click connect external index. This is where you would connect to Azure AI Search index you create in the previous lab.
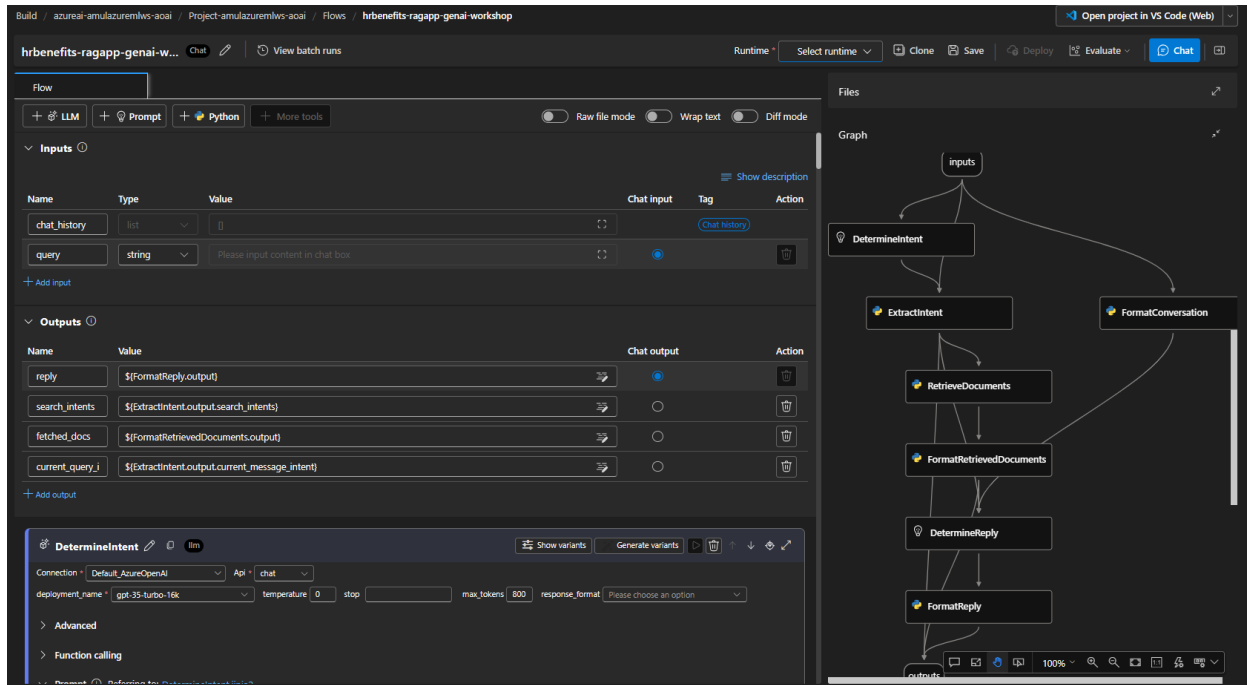
e. Now you can start chatting with your data. Enter a sample query as shown below.

f. Click Customize in prompt flow. This will open this RAG application's actual code base in prompt flow UI as shown below. You should rename the folder as shown below (may be include your name to easily find it)
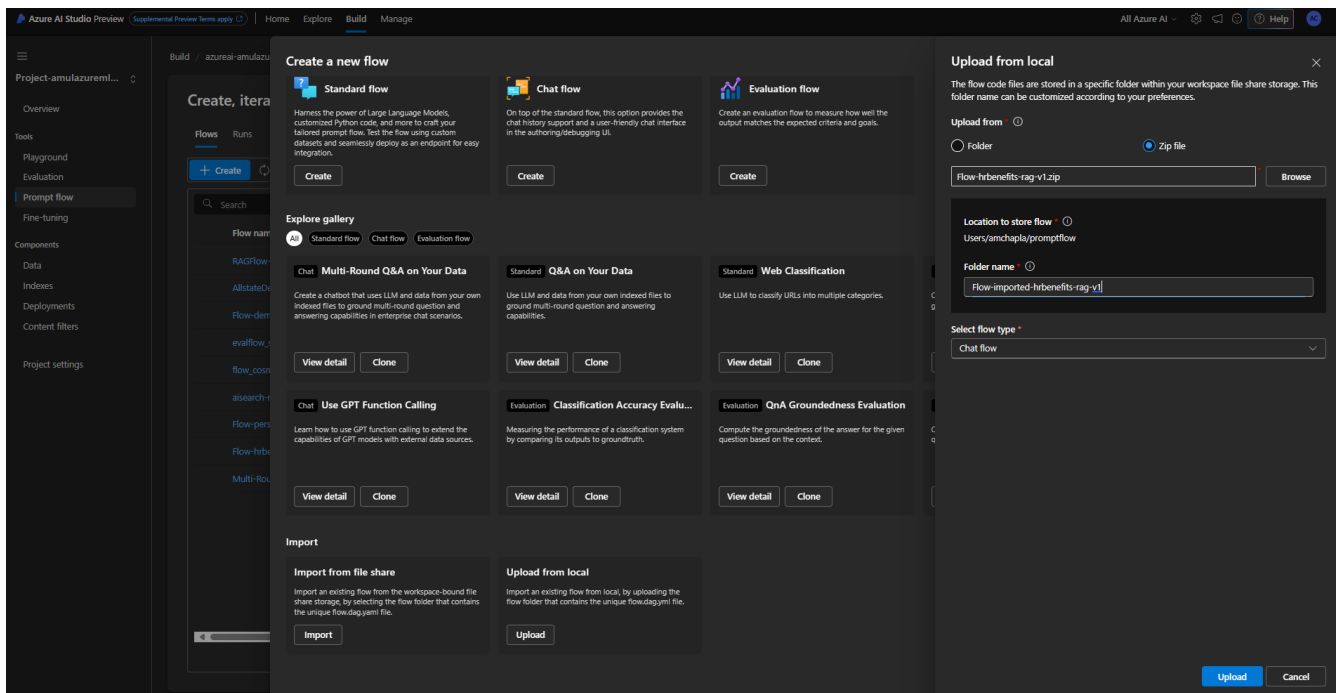
g. You should see a prompt flow similar to one shown below. You have successfully created a RAG application using prompt flow.
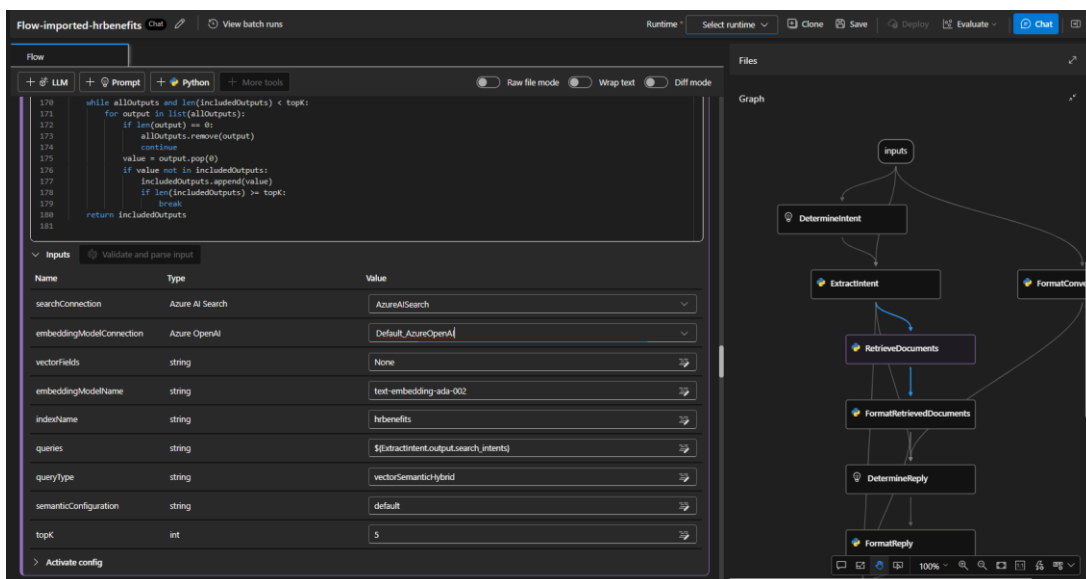
2. Import RAG application in Azure AI Studio (Prompt flow)

Flow-hrbenefits-rag-v1.zip file contains a prompt flow application that you could import in Azure AI Studio. Follow steps below:

i.   Go to your AI hub resource project ➜ Prompt flow.

ii.   Click Create ➜ Upload from local

iii.   Select the Zip file option and select Flow-hrbenefits-rag-v1.zip

iv.   Select Chat flow as flow type

v.   Rename folder name to import

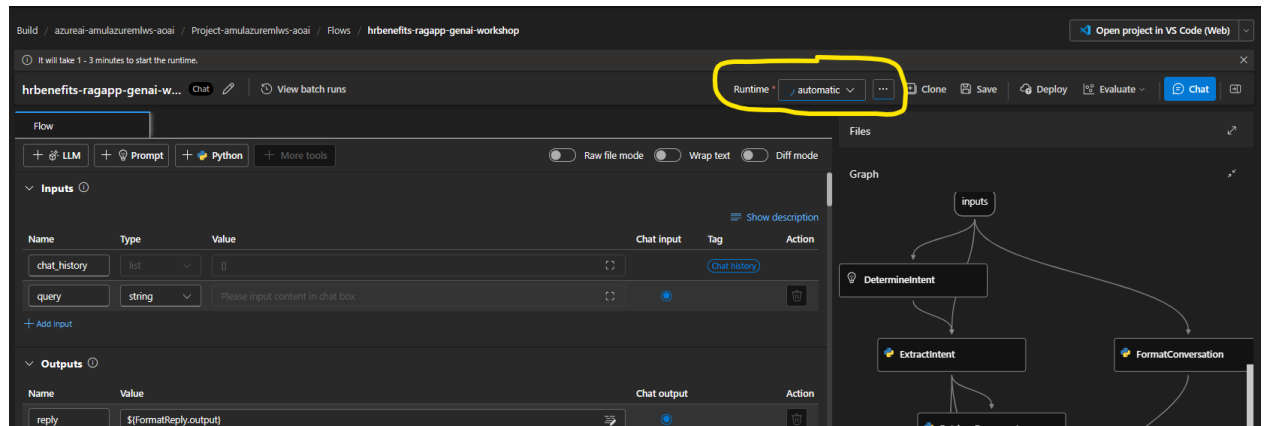vi.   Click Upload. This will upload the provided prompt flow application,

vii.   Configure required connections to Azure AI Search and Azure OpenAI service in the prompt flow you just imported.
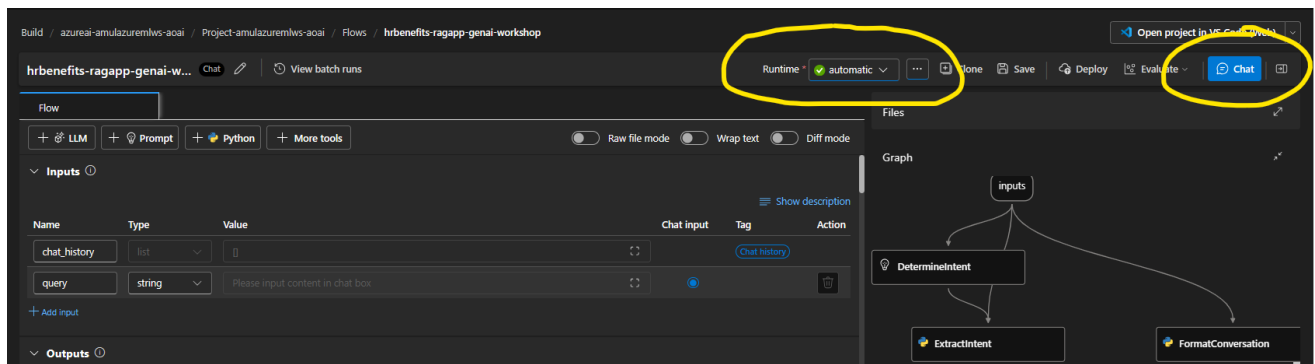
3. Test Prompt flow for RAG application

Now that you have either created a new prompt flow or imported it, you can test it right from the Azure AI Studio. To test this application, it needs a compute runtime (development runtime environment).

a. With your RAG prompt flow option, go to Runtime drop down and click Start. You can select an automatic runtime as shown below.

b. Once the compute runtime is up, the status should change to green as shown below. You can now test your prompt flow-based RAG application.

c. Click on Chat button at top right and you can start testing your prompt flow application.