

## **PROJECT SUBMISSION PHASE-3**

**Project Title** : Chatbot Deployment with IBM Cloud Watson Assistant

**Project Code** : 1662

**Team name** : Proj\_211252\_Team\_1

**Domain** : Cloud Application Development

**Assignment** : Development part 1

## **SUBMITTED BY**

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## **Phase 3:Development Part 1**

In IBM Watson Assistant, which is a cloud-based conversational AI platform, entities, intents, and dialogs are key components used to build and train chatbots or virtual assistants. Here's a brief explanation of each.

### **Entities:**

- In Watson Assistant, an entity represents a specific piece of information within user input. It is used to extract relevant data from user messages.
- Entities can be things like dates, numbers, product names, or any other data you want to capture. You define entities to help the assistant understand and process user queries more effectively.

### **Intents:**

- An intent is the purpose or goal expressed in a user's message. It represents what the user is trying to achieve or communicate.
- Intents are essential for routing user requests to the appropriate responses or actions.
- You define intents to help the assistant recognize and categorize user input accurately.

### **Dialogs:**

- Dialogs in Watson Assistant are used to structure the conversation flow between the user and the chatbot. You create dialog nodes to define how the assistant should respond to user input based on detected intents and entities. Dialogs help in creating dynamic and context-aware interactions.

- Within a dialog node, you can define responses, conditions, and actions to take. You can also incorporate variables to store and retrieve information throughout the conversation, enabling personalized interactions.
- The typical workflow in Watson Assistant involves defining entities and intents, building dialog nodes to handle different conversation paths, and training the assistant using historical data or sample conversations. This training helps the assistant understand user input better, recognize intents and entities accurately, and respond appropriately.
- Entities, intents, and dialogs work together to enable natural and context-aware conversations between users and your chatbot or virtual assistant built with IBM Watson Assistant. By correctly defining and configuring these components, you can create effective and intelligent conversational interfaces

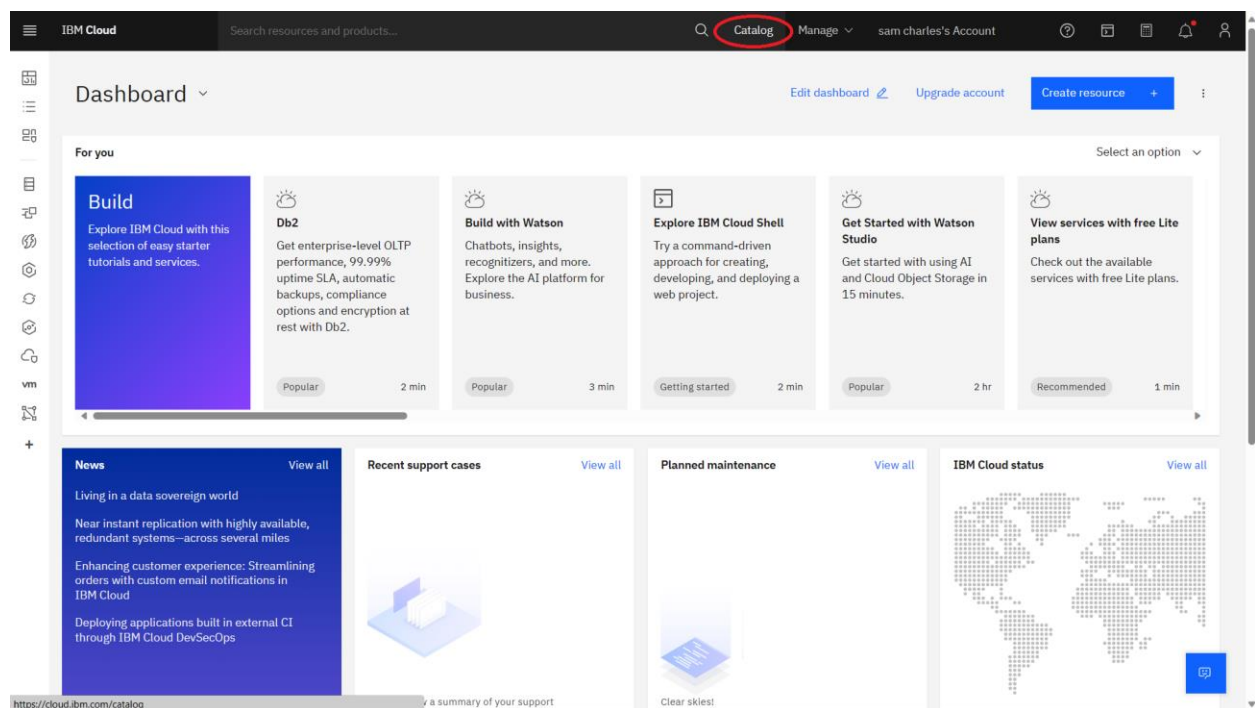
### **Start building the chatbot using IBM Cloud Watson Assistant:**

Here is a step-by-step guide on how to build a chatbot using IBM Cloud Watson Assistant.

- 1) Create an account and log in.
- 2) Click on the "Create Assistant" button.
- 3) Give your assistant a name and select a template.
- 4) Train your assistant by providing it with examples of conversations.
- 5) Deploy your assistant to a channel.

## Step1:

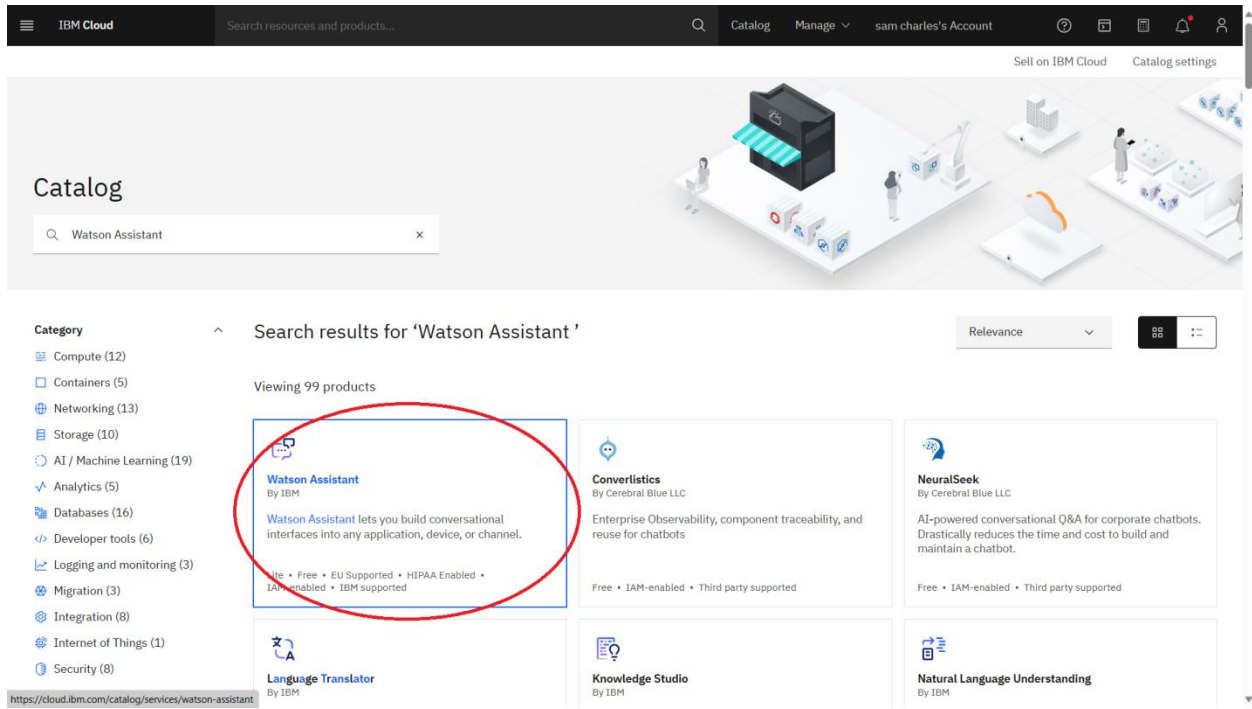
- To start building a chatbot using IBM Cloud Watson Assistant, you will need to create an account and log in. Once you successfully logged in click the “Catalog”.



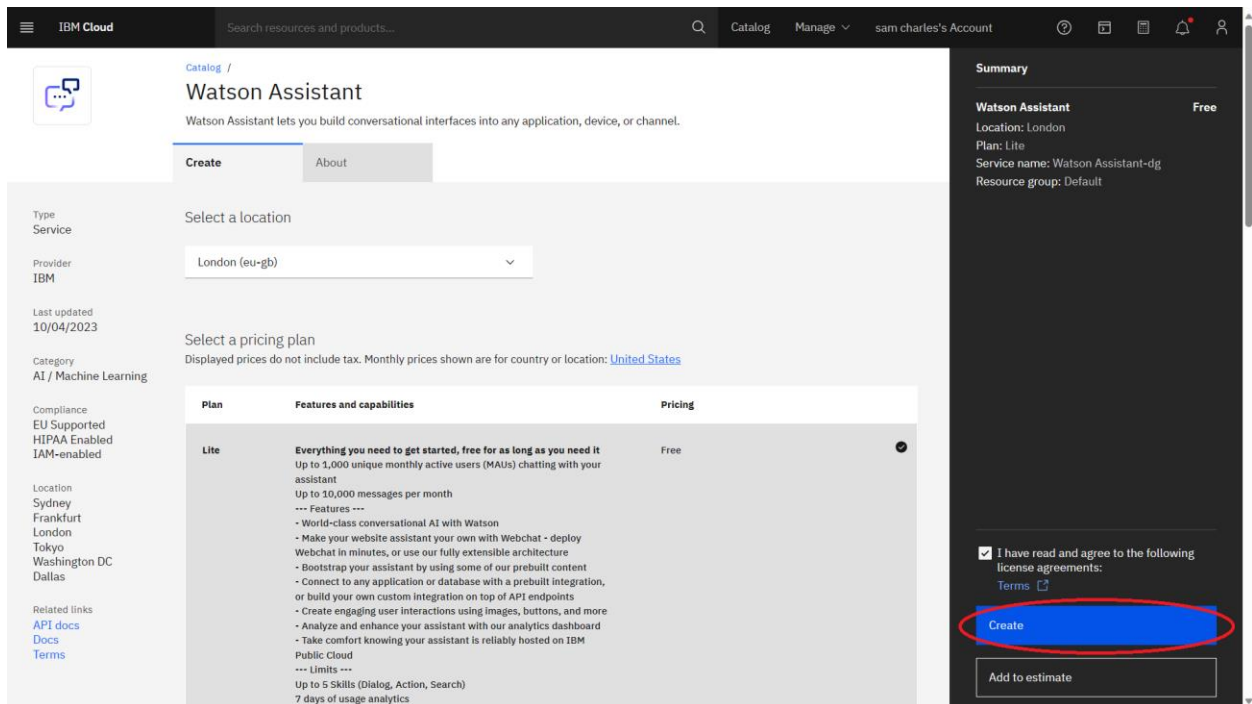
Fig(1)

## Step 2:

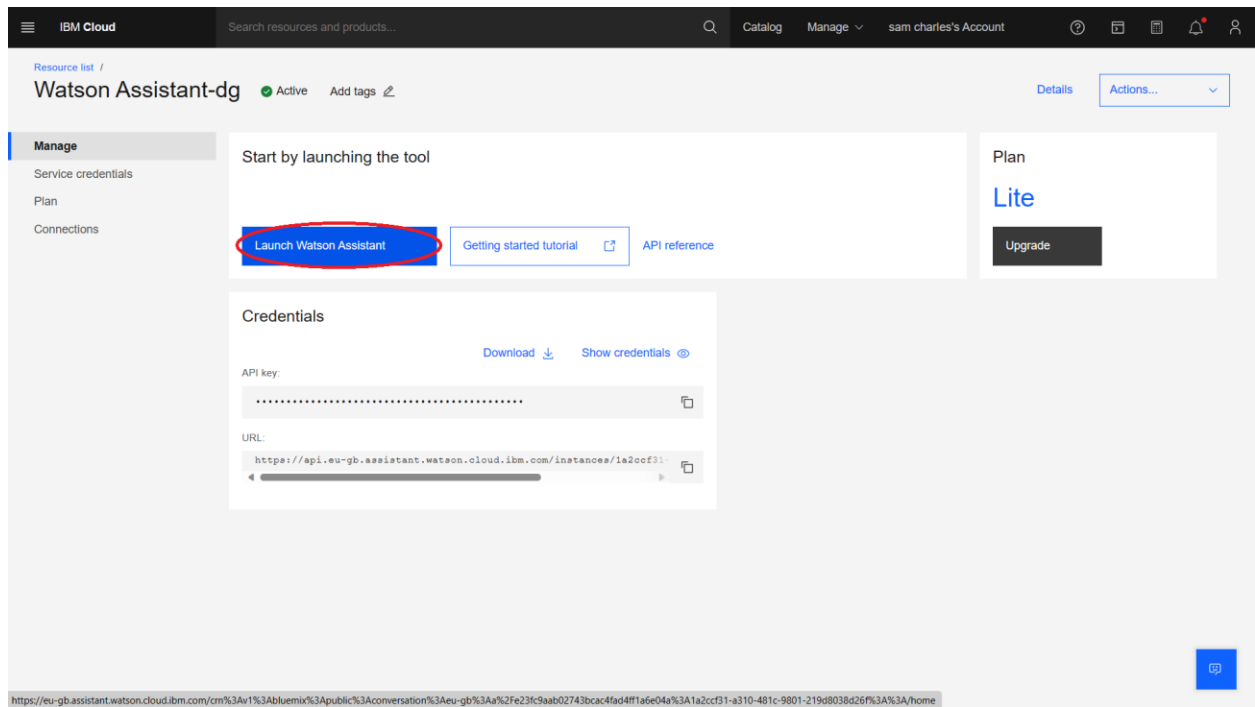
- Search for Watson Assistant in the search bar, you can create a new assistant by clicking on the "Create Assistant" button.



Fig(2.1)



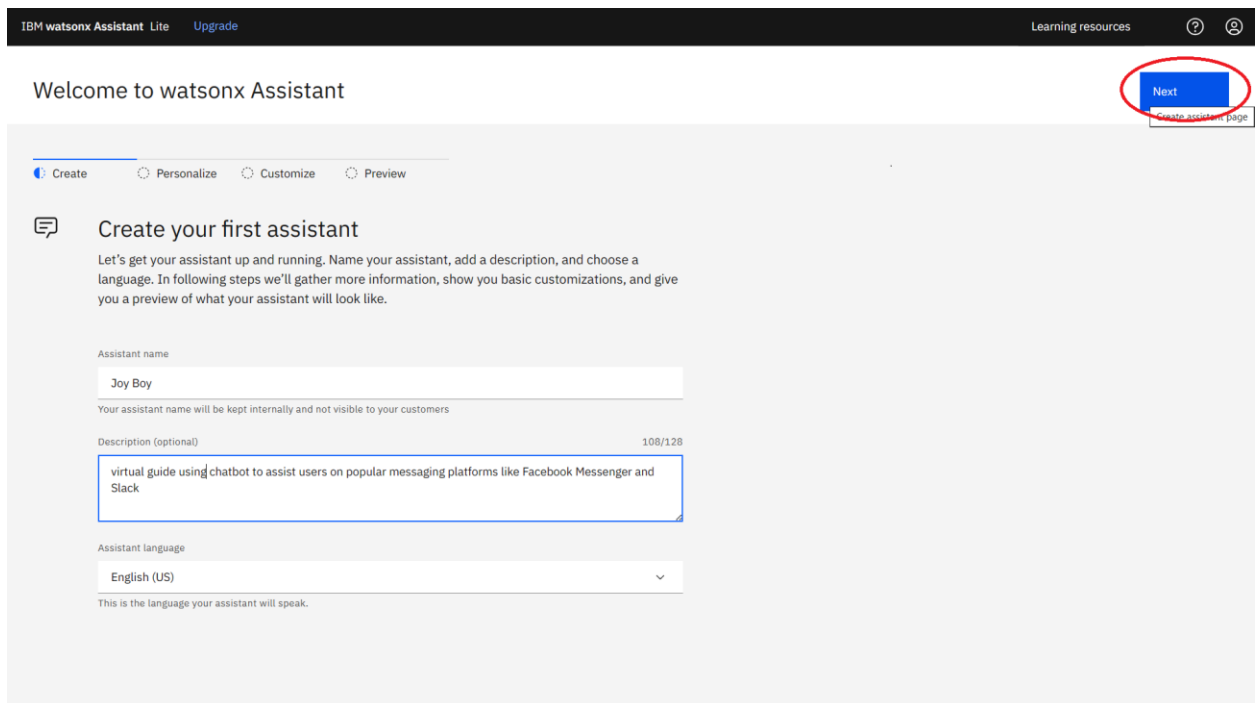
Fig(2.2)



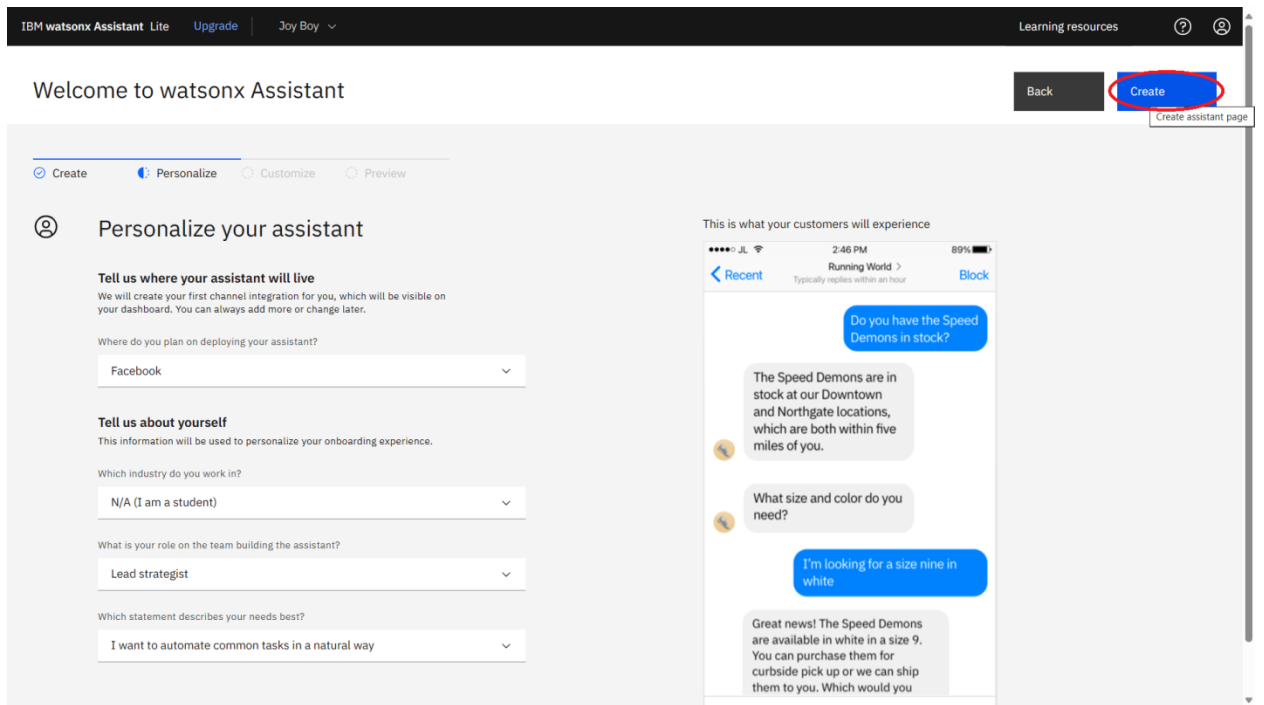
Fig(2.3)

### Step 3:

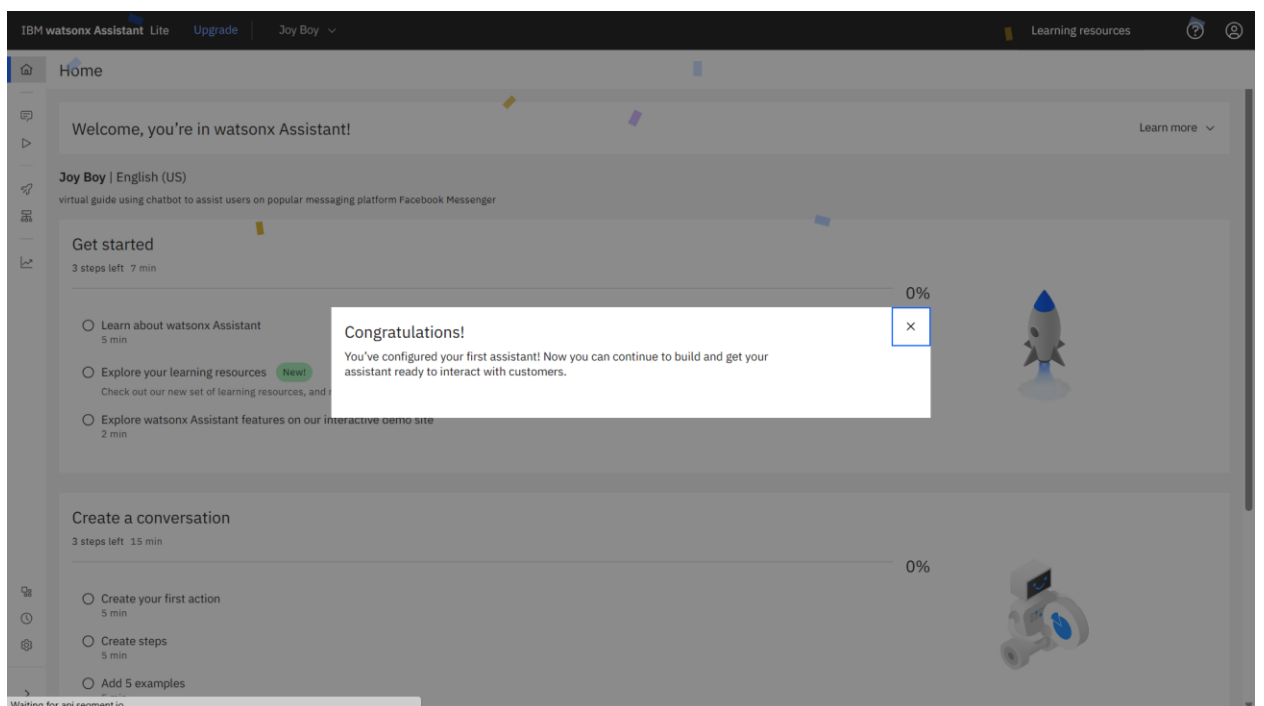
- When creating a new assistant, you will need to give it a name and select a template. The template will determine the basic capabilities of your assistant.



Fig(3.1)



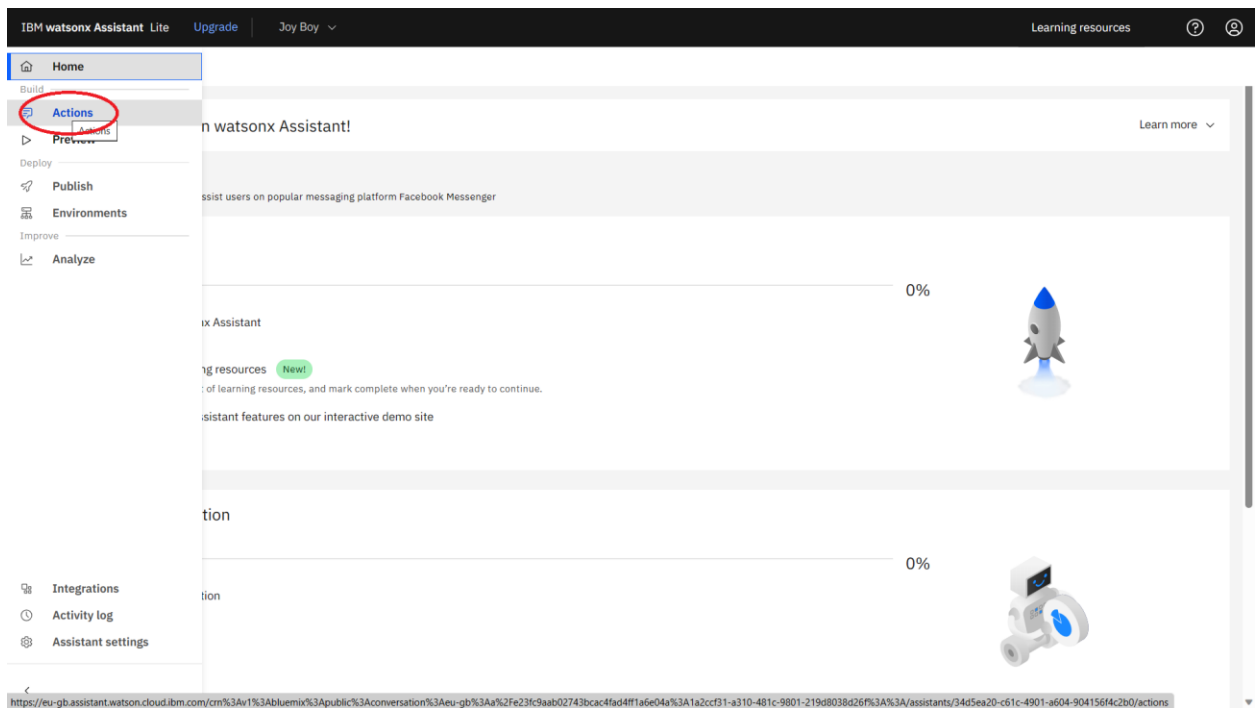
Fig(3.2)



Fig(3.3)

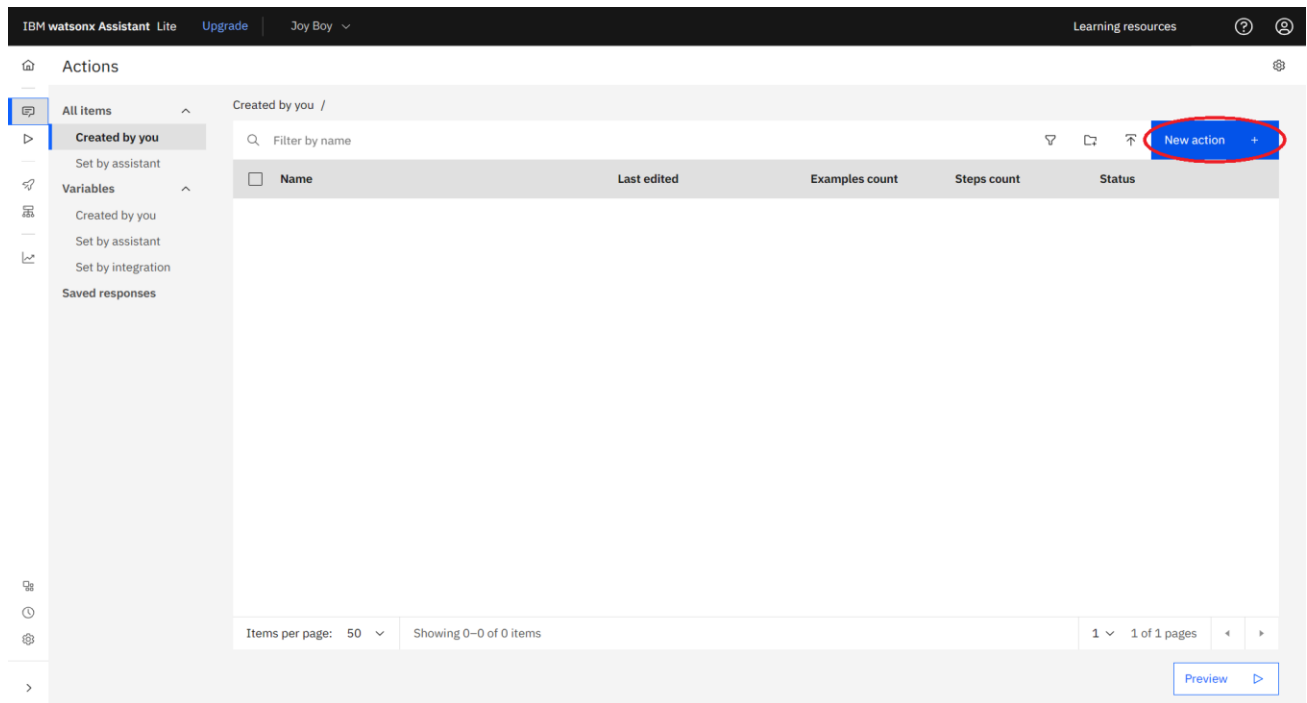
## Step 4:

- Once you have created your assistant, you can start training it by providing it with examples of conversations. You can do this by typing in the questions that you want your assistant to be able to answer and the responses that you want it to give.
- You can also train your assistant by uploading a CSV file containing examples of conversations. This is a good option if you have a large number of examples of conversations that you want to train your assistant on.

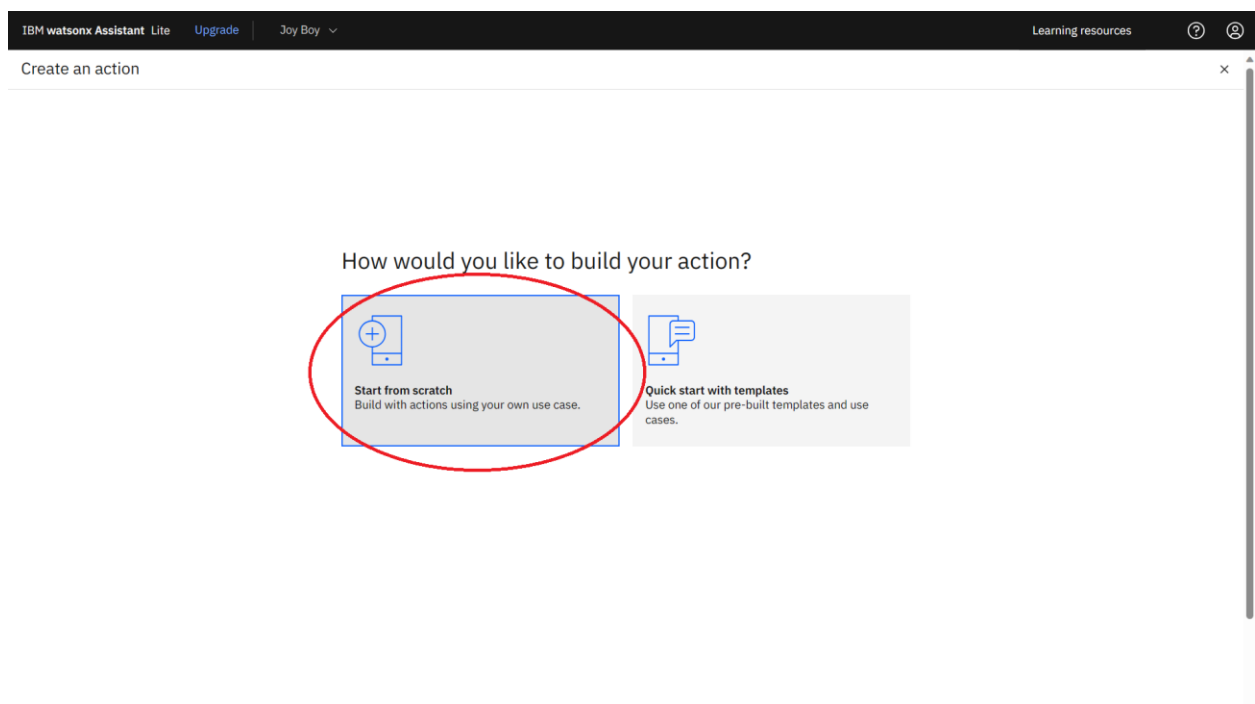


Fig(4.1)

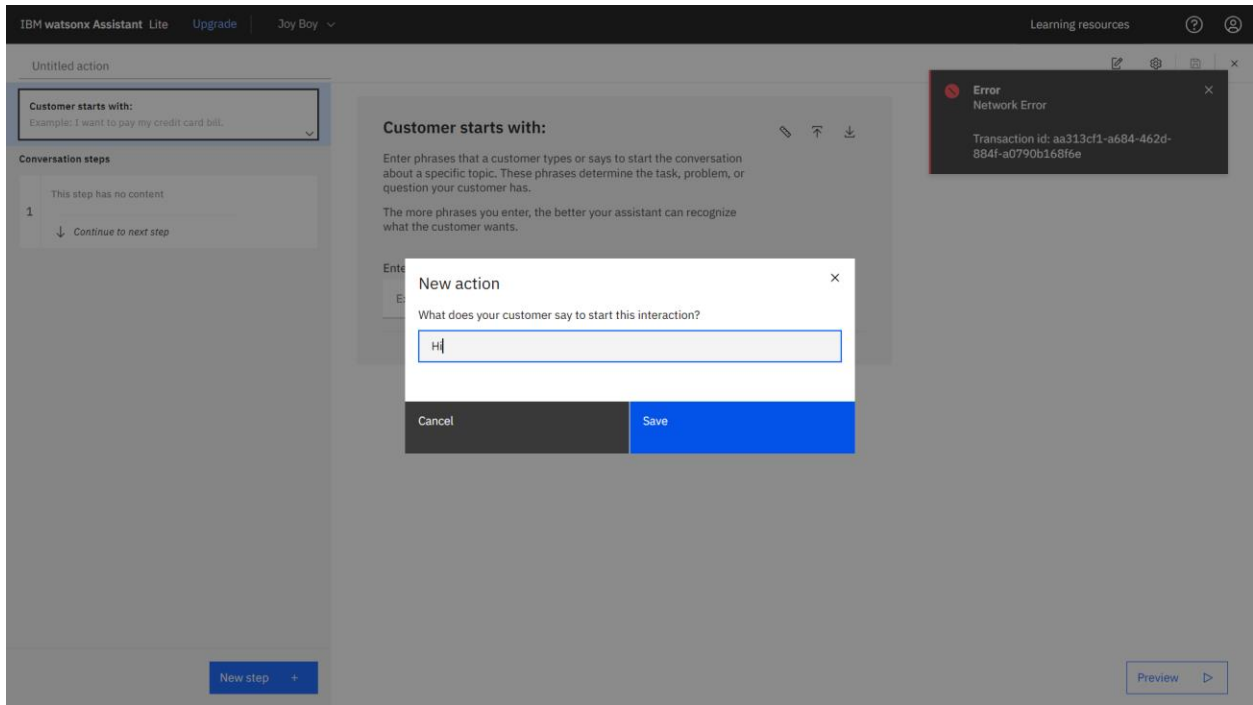




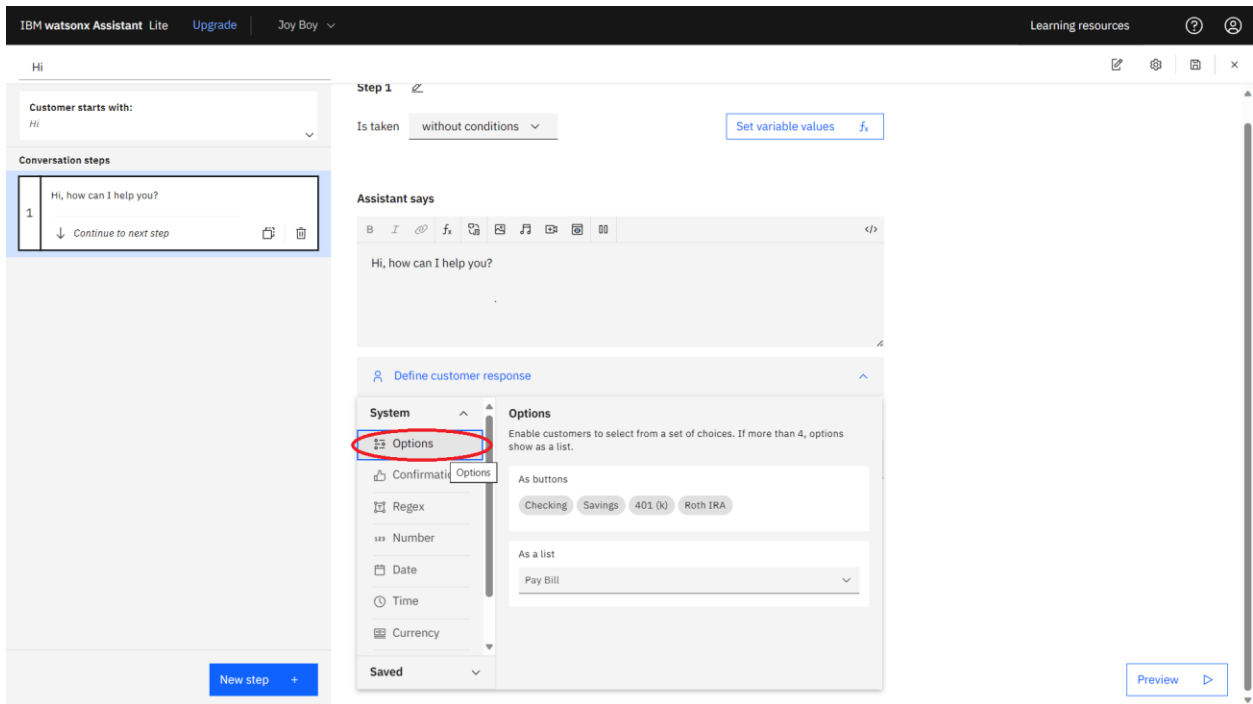
Fig(4.2)



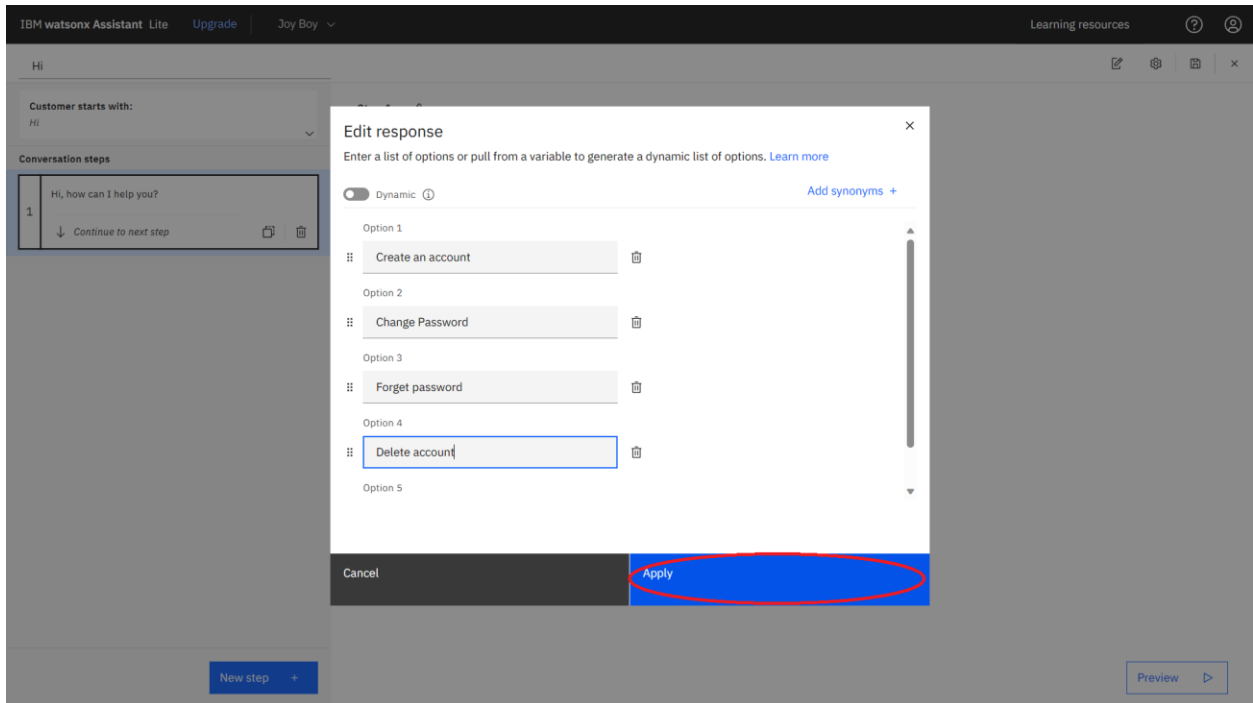
Fig(4.3)



Fig(4.4)



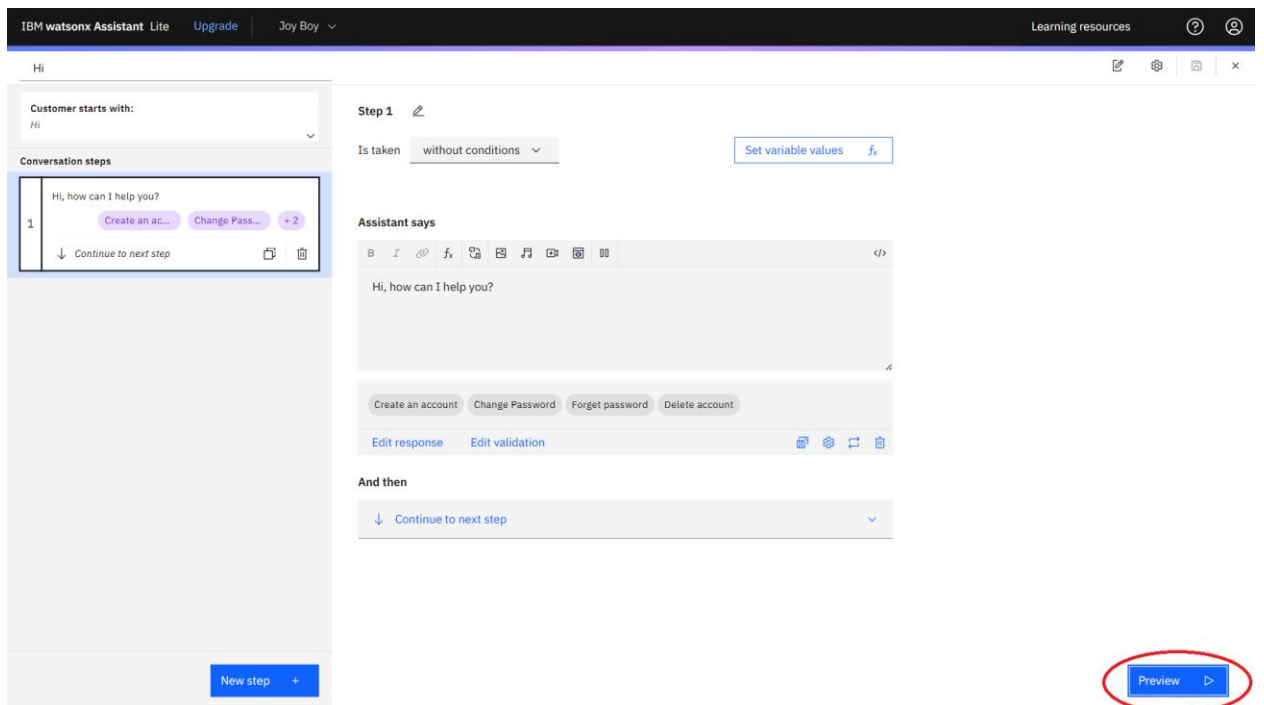
Fig(4.5)



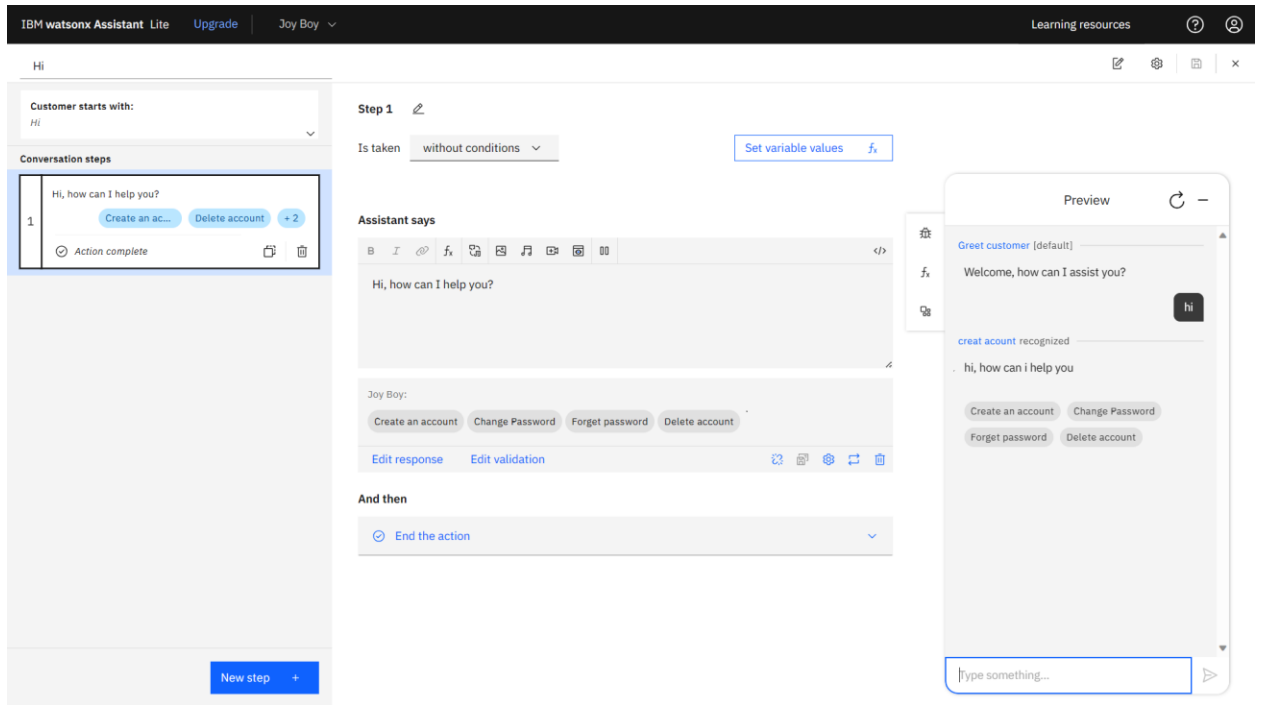
Fig(4.6)

## Step 5:

- Once you have trained your assistant, you can deploy it to a channel such as your website, a messaging app, or a voice assistant platform.



Fig(5.1)



Fig(5.2)