

Documentation of IBM Project

Chatbot deployment with IBM Cloud Watson

Assistant

This is a clear-cut documentation of the project “Chatbot deployment with IBM Cloud Watson Assistant”. We’ll see the process of the project development.

My main project is “Link Explorer”. The chatbot gives the links of the website which is required by the user. The chatbot has many types of links integrated into it.

At Phase 1: In phase 1 we have done the design thinking work for the chat bot like brainstorming, ideation and defining. With the help of design thinking we can make the theoretical and paperwork of the chatbot project. And then we can do the project via coding and with some software.

At Phase 2: In phase 2 we have done the chatbot in a software called “VisualStudioCode” for the use of advanced features such as Natural Language Understanding (NLU) for the user’s intent recognition. And that project also been uploaded in the GitHub account and the GitHub account link is:

“ <https://github.com/Mathew0510/Naan-Mudhalvan.git> “

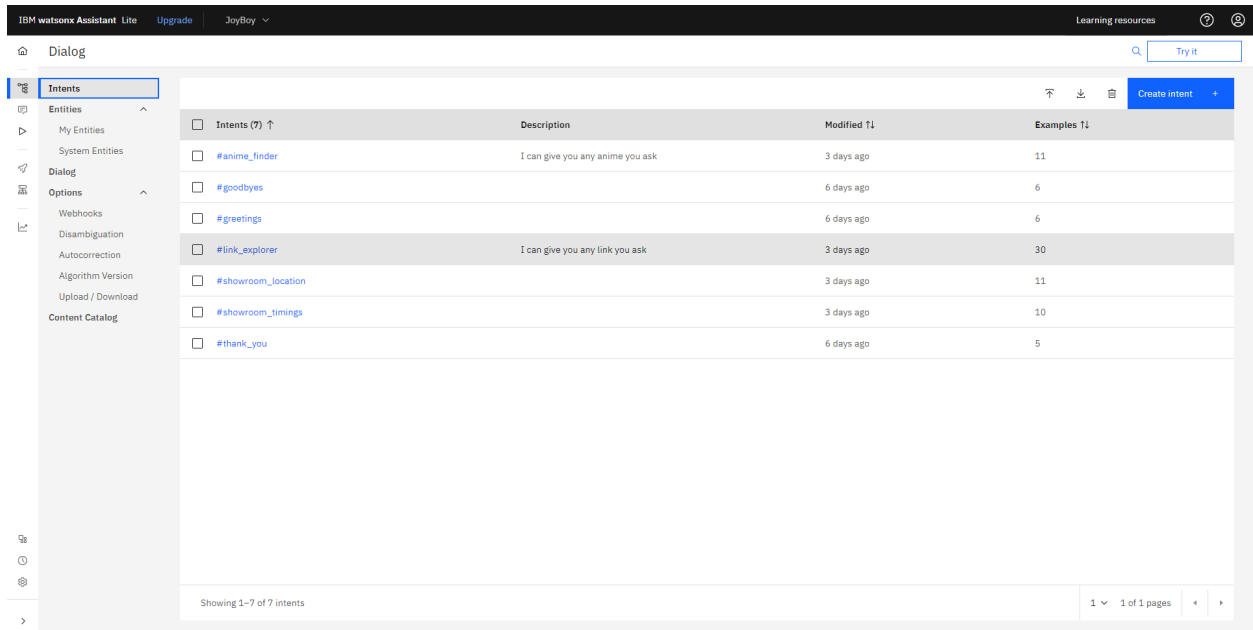
You can see the phase 2 projects and all other phase projects via this link.

At Phase 3: The Development of the chatbot Watson:

The main project begins now, the chatbot using IBM Cloud Watson Assistant is being developed now. First, we'll create an account in the IBM Cloud by using the ID given by the IBM cloud company. After fully completing the account creation we'll install the required resources from the cloud website. At first the chat bot was created without any dialogs or any intents. As it is a simple program integrated chatbot. We have to give the exact commands to get the output. That's the chatbot project done in phase 3.

At Phase 4: At phase 4 the chatbot has been fully developed and integrated with dialogs, entities and intents. With the help of intents, entities and dialogs we can make the chatbot to do refining responses. The dialogs have been integrated as user queries and the intents are the keywords to get understood by the chatbot. The entities are the responses which are gained as output. The entities and intents are integrated nodes. The nodes are very important for the chatbot responses. These nodes make the intents and the entities to combine and when the user gives his query the chatbot goes to the intent and makes the matches with the keywords and through the entity the chatbot makes its responses.

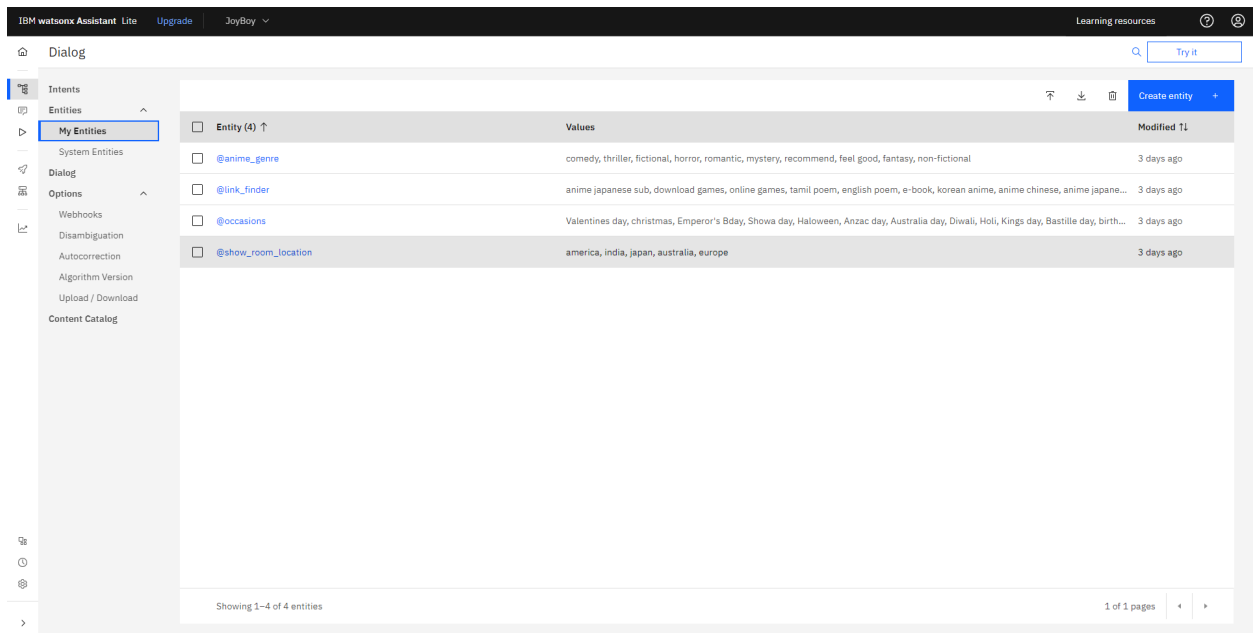
Some examples of the chatbot user queries and responses from the chatbot.



The screenshot shows the 'Intents' tab in the IBM Watson Assistant interface. A table lists 7 intents with columns for checkboxes, intent names, descriptions, modified times, and example counts. The 'Create intent' button is in the top right.

	Intents (7) ↑	Description	Modified ↑↓	Examples ↑↓
<input type="checkbox"/>	#anime_finder	I can give you any anime you ask	3 days ago	11
<input type="checkbox"/>	#goodbyes		6 days ago	6
<input type="checkbox"/>	#greetings		6 days ago	6
<input type="checkbox"/>	#link_explorer	I can give you any link you ask	3 days ago	30
<input type="checkbox"/>	#showroom_location		3 days ago	11
<input type="checkbox"/>	#showroom_timings		3 days ago	10
<input type="checkbox"/>	#thank_you		6 days ago	5

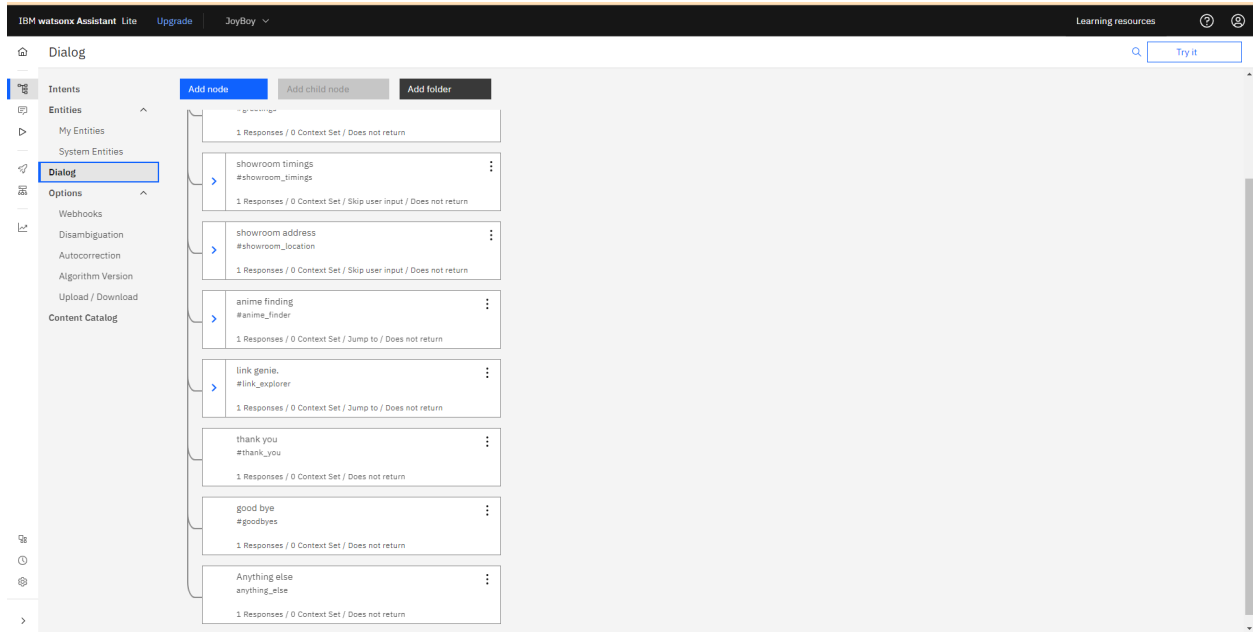
The intents in the chatbot



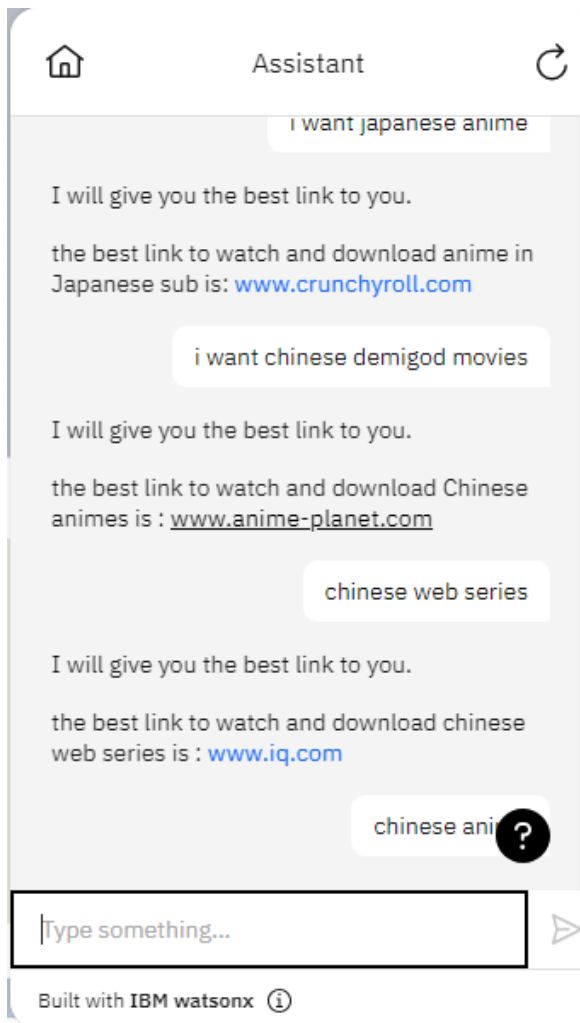
The screenshot shows the 'My Entities' tab in the IBM Watson Assistant interface. A table lists 4 entities with columns for checkboxes, entity names, values, and modified times. The 'Create entity' button is in the top right.

	Entity (4) ↑	Values	Modified ↑↓
<input type="checkbox"/>	@anime_genre	comedy, thriller, fictional, horror, romantic, mystery, recommend, feel good, fantasy, non-fictional	3 days ago
<input type="checkbox"/>	@link_finder	anime japanese sub, download games, online games, tamil poem, english poem, e-book, korean anime, anime chinese, anime japane...	3 days ago
<input type="checkbox"/>	@occasions	Valentines day, christmas, Emperor's Bday, Showa day, Halloween, Anzac day, Australia day, Diwali, Holi, Kings day, Bastille day, birth...	3 days ago
<input type="checkbox"/>	@show_room_location	america, india, japan, australia, europe	3 days ago

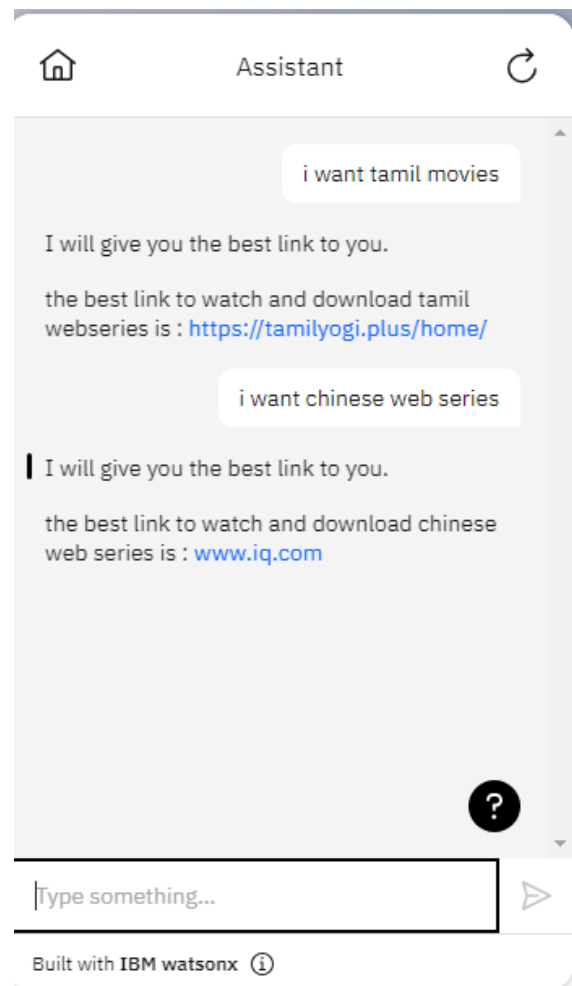
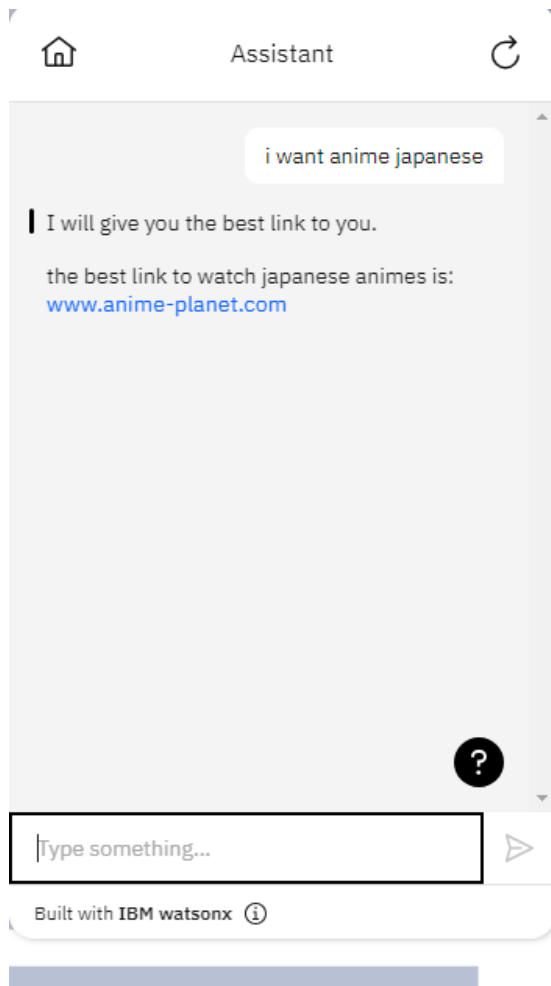
The entities in the chatbot



The dialogs and nodes in the chatbot.



The user query and the response of the chatbot.



And this is the project of Chatbot deployment with IBM Cloud Watson Assistant.

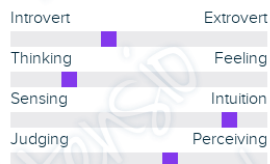
Chatbot Persona



NAME: JoyBoy

"Hi, I'm JoyBoy nice to meet you."

Personality



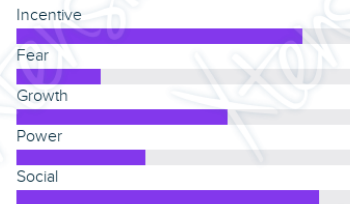
Bio: JoyBoy is an interesting chatbot. It plays a vital role at giving the user's requirements. The main work of the chatbot is to provide the different types of links required by the user.

INTERESTS: He likes to search many links for the user and gains knowledge by searching many types of links. And saves the interests of the particular user in its database.

RESPONSIBILITIES: JoyBoy is responsible at giving the secured and safe link to the user at which they ask and need.

PERSONALITY: JoyBoy is an expert in finding any type of link. It can find any genre of link. JoyBoy has a database of every movies, song and literature link.

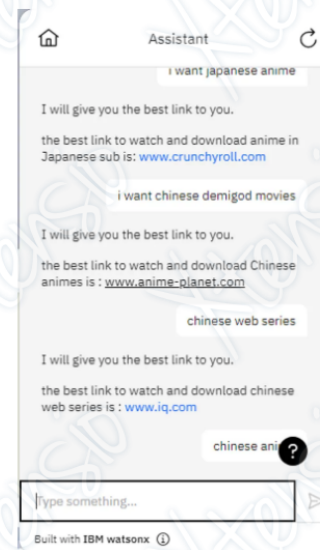
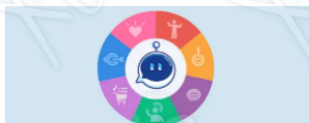
Motivation



Brand: IBM

Gender: Unidentified

Compatible with: Mobiles, Tablets, and Laptops.



BY
S.MANIMARAN