# CHATBOT DEPLOYMENT WITH IBM CLOUD WATSON ASSISTANT

## **Project Objective:**

The objective of this project is to create an AI-powered chatbot using IBM Watson that is seamlessly integrated with WhatsApp. The chatbot's primary goal is to enhance user engagement, provide information, answer questions, and offer assistance through WhatsApp.

## **Design Thinking Process:**

- **1. Empathize:** Understand the needs of WhatsApp users and stakeholders. Gather insights from potential users to identify their pain points and preferences when using WhatsApp for communication.
- **2. Define:** Clearly define the scope and objectives of the chatbot on WhatsApp. Determine the specific use cases it will address, such as answering FAQs, providing product information, or facilitating transactions.
- **3. Ideate:** Brainstorm ideas for the chatbot's features and functions on WhatsApp. Explore creative ways to address user needs and enhance their WhatsApp experience. Consider potential conversation flows and user interactions within the WhatsApp context.
- **4. Prototype:** Create a preliminary design of the chatbot's conversation flow within WhatsApp. Design the chatbot's responses, including text, multimedia, and interactive elements. Use prototyping tools to visualize the user experience.
- **5. Test:** Gather feedback on the WhatsApp chatbot prototype to refine its design. Conduct usability testing with potential users to ensure that the chatbot's interactions are user-friendly and effective.

## **Development Phase:**

We are developing a chatbot that is related to booking an appointment or confirmation of appointment. In this chatbot, we are using some actions like regex for email (for authentication), options, confirmation, current date, current time & using some specific conditions and end the action. Then, integrate chatbot which is created using IBM Watson Assistant with WhatsApp in Twilio.

## Here are the steps for integrating chatbot with WhatsApp...

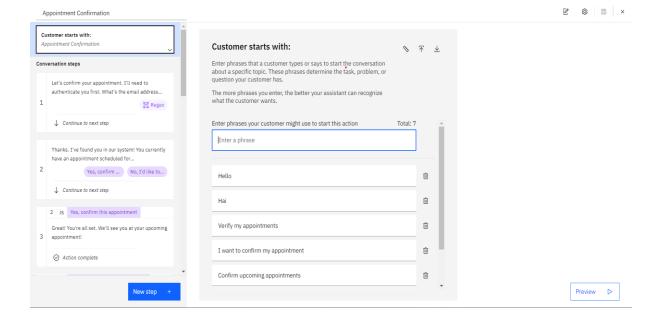
- Login into Twilio account.
- In this dashboard, it has account SID, auth token.
- We connect the account SID and auth token in Twilio with IBM Watson.
- After the above procedure, it will give integration code.
- Save this integration code in sandbox setting.
- After saving this code, the Twilio will give the number. Then it will also provide one code to start the conversation.

# **Platform Layout:**

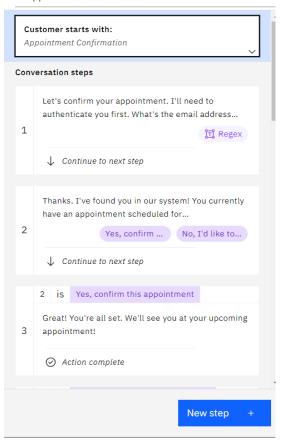
WhatsApp and Twilio: These are the messaging platforms that users will interact with. Users can send messages to the chatbot via WhatsApp using Twilio.

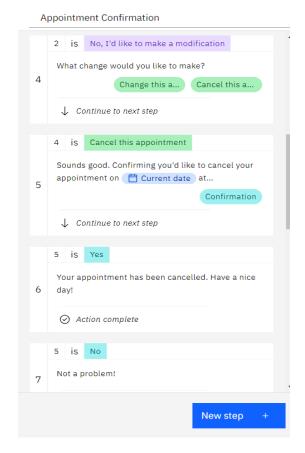
## Feature:

Using this chatbot, the users can booking an appointment or confirmation of appointment.



#### Appointment Confirmation

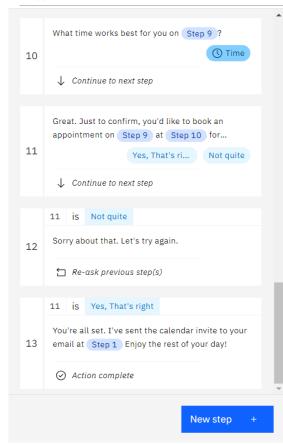


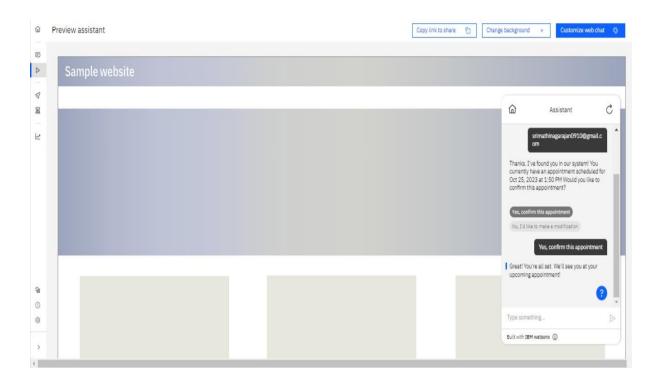


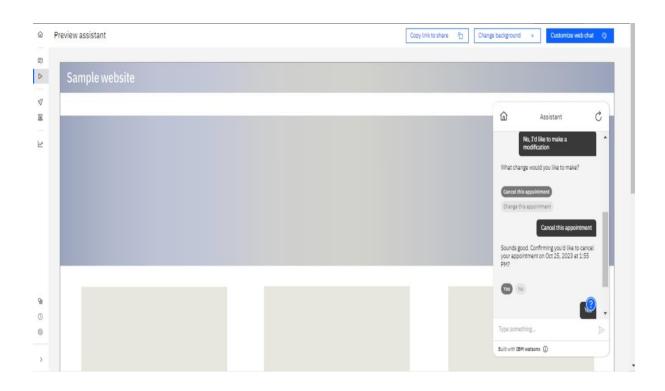
## Appointment Confirmation 5 is No Not a problem! □ Re-ask previous step(s) 4 is Change this appointment Alright, let's get your appointment updated. How long would you like to meet for? 8 15 minutes 1 hour + 1 ↓ Continue to next step What day works best for you? Ħ Date 9 ↓ Continue to next step What time works best for you on Step 9 ? () Time 10 ↓ Continue to next step

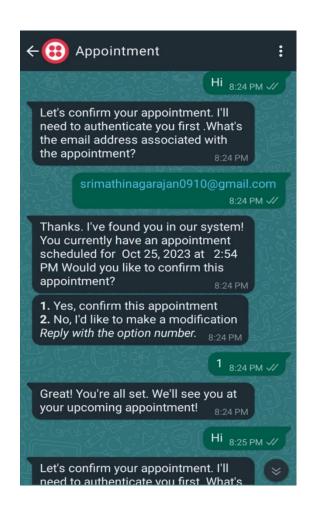
New step

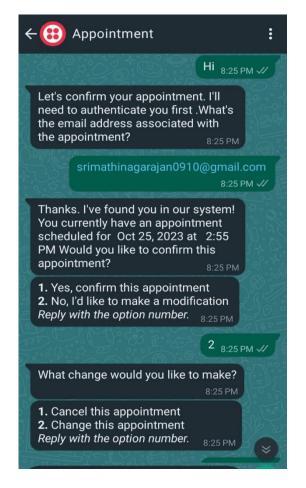
### Appointment Confirmation

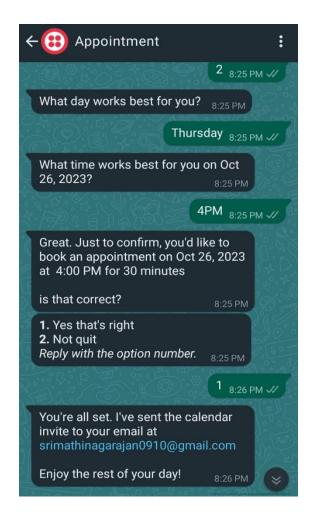














## Here is the link for our published chatbot:

https://web-chat.global.assistant.watson.appdomain.cloud/preview.html?backgroundImage URL=https%3A%2F%2Feu-gb.assistant.watson.cloud.ibm.com%2Fpublic%2Fimages%2Fupxbce17197-03b3-4194-9a90-659ac7dfd0ba%3A%3Abbefd24a-65d1-426f-a23cd74692e0e9ca&integrationID=7eb7850b-8e86-460d-b575-17363ca33d46&region=eugb&serviceInstanceID=bce17197-03b3-4194-9a90-659ac7dfd0ba

