Instructions to build a Hotel Booking AI Chatbot

Step 1: Create an IBM Cloud Account

1. **Sign Up or Log In**: Go to the [IBM Cloud](#) and create an account or log in if you already have one.

Step 2: Create a Watson Assistant Service

1. **Navigate to Watson Assistant**: Once logged in, go to the IBM Cloud Dashboard.

2. **Create Resource**: Click on Create resource and search for Watson Assistant.

3. **Create Service**: Click on the Watson Assistant service and follow the prompts to create it.

Step 3: Create an Assistant

1. **Go to Watson Assistant**: In the IBM Cloud Dashboard, navigate to the Watson Assistant service you created.

2. **Create Assistant**: Click on Create assistant and provide a name for your assistant (e.g., "Hotel Booking Assistant").

Step 4: Create a Skill

1. **Add Skill**: Within your assistant, click on Add Skill and choose Create Skill.

2. **Skill Type**: Select Dialog skill and provide a name (e.g., "Hotel Booking Skill").

Step 5: Define Intents

Intents are used to understand what the user wants to do.

1. **Create Intent**: Go to the Intents tab and click on Create intent.

2. **Name and Examples**: Create intents such as #book_room, #check_availability, and #cancel_booking. Add example phrases for each intent. For example:

   o **#book_room**: "I want to book a room", "Can I reserve a room?"

   o **#check_availability**: "Do you have rooms available?", "Is there any availability?"

   o **#cancel_booking**: "I need to cancel my booking", "Can I cancel my reservation?"

Step 6: Define Entities

Entities are used to extract specific data from the user's input.

1. **Create Entity**: Go to the Entities tab and click on Create entity.

2. **Name and Values**: Create entities such as @room_type, @number_of_nights, and @dates. Add values for each entity. For example:

   o **@room_type**: "single", "double", "suite"

   o **@number_of_nights**: "one night", "two nights", "three nights"

o **@dates**: Use @sys-date system entity for dates.

Step 7: Create Dialog Nodes

Dialog nodes define the flow of conversation.

1. **Create Dialog Node**: Go to the Dialog tab and click on Create node.

2. **Define Nodes**: Create nodes for each intent. For example:

   o **Node for #book_room**: Prompt the user for room type, number of nights, and dates.

   o **Node for #check_availability**: Respond with availability information.

   o **Node for #cancel_booking**: Confirm cancellation and provide feedback.

Step 8: Test Your Chatbot

1. **Test Interface**: Use the Try it pane to test your chatbot.

2. **Refine**: Based on the test results, refine your intents, entities, and dialog nodes.