

"BotBite : NLP based Chatbot using SQL & Python"

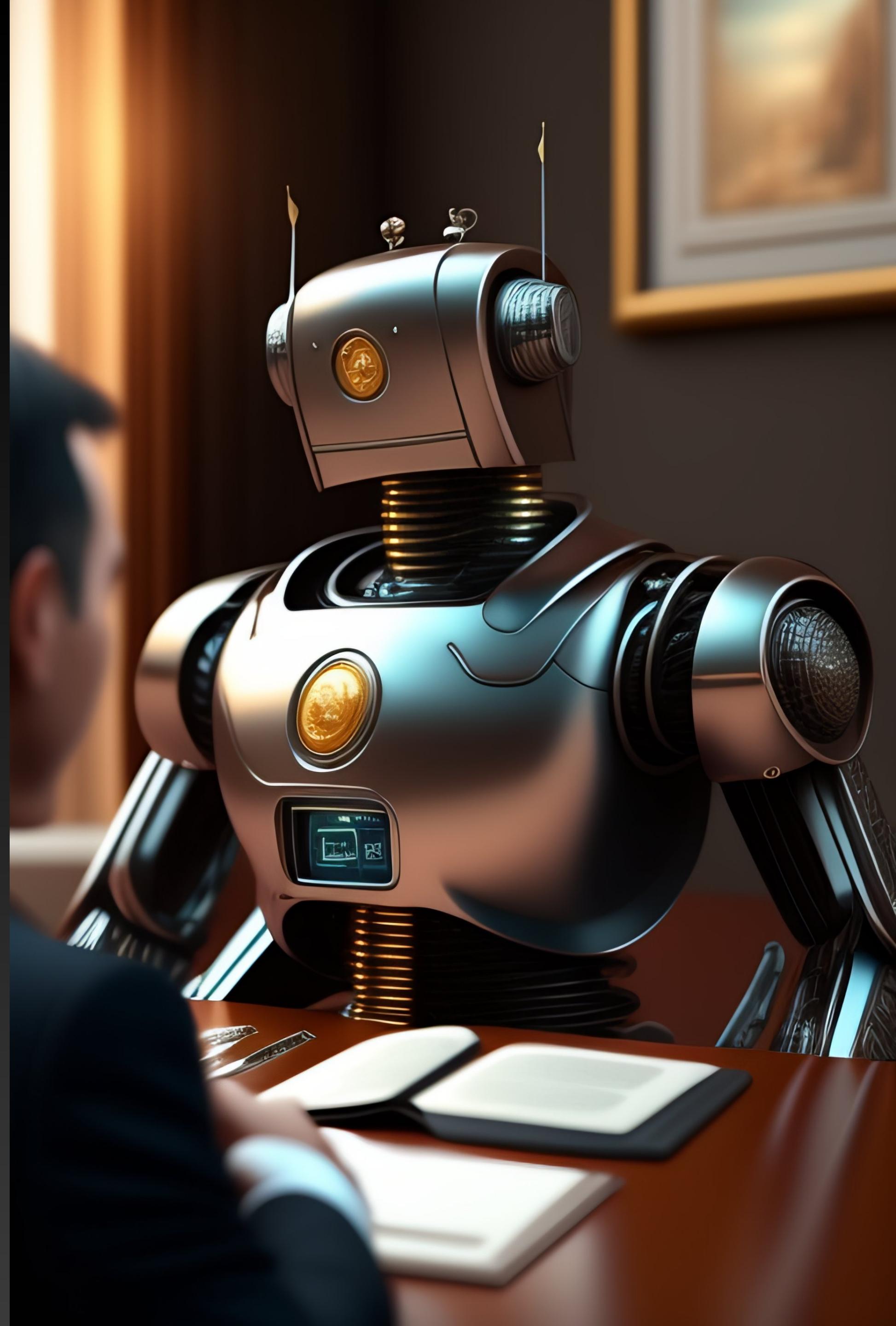
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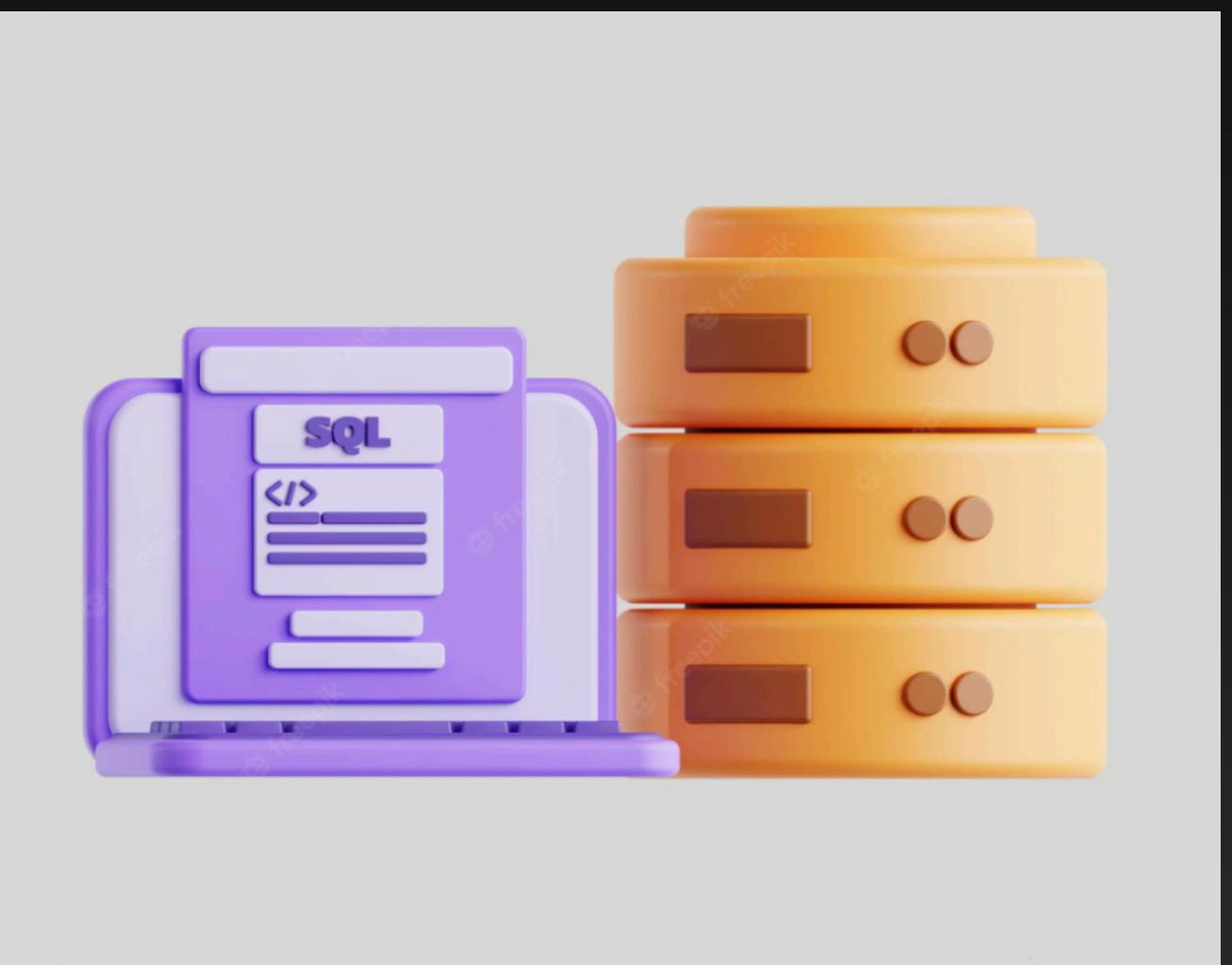
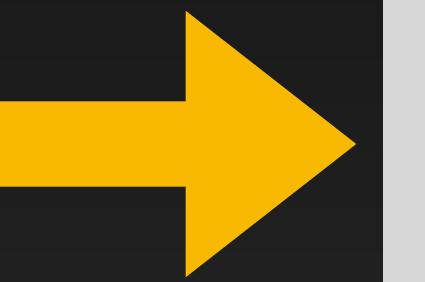
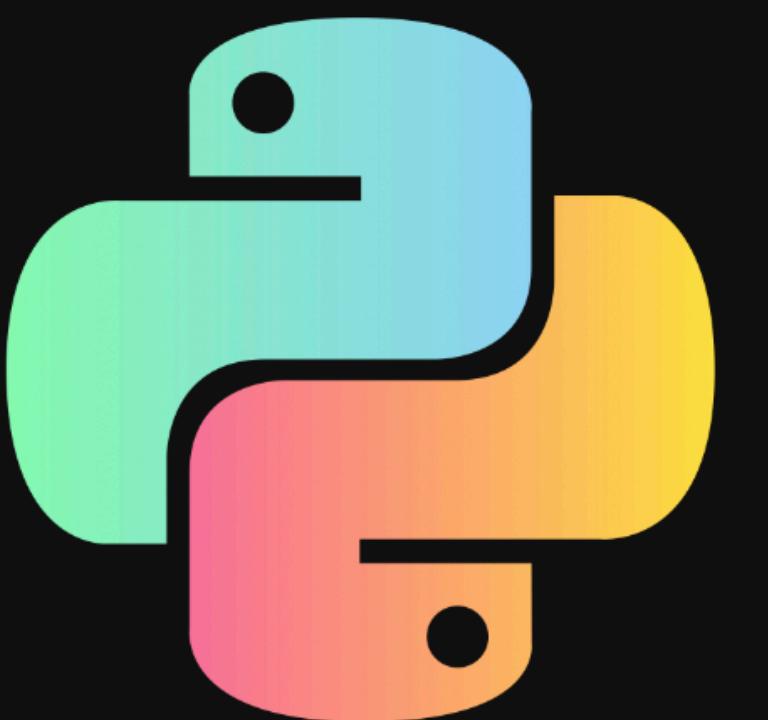
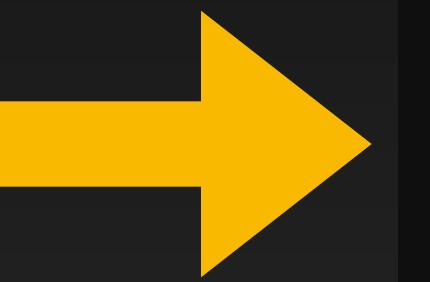
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Problem Statement:

- Develop a chatbot
- Making use of NPL
- integrated with a python
- integrated with a MySQL



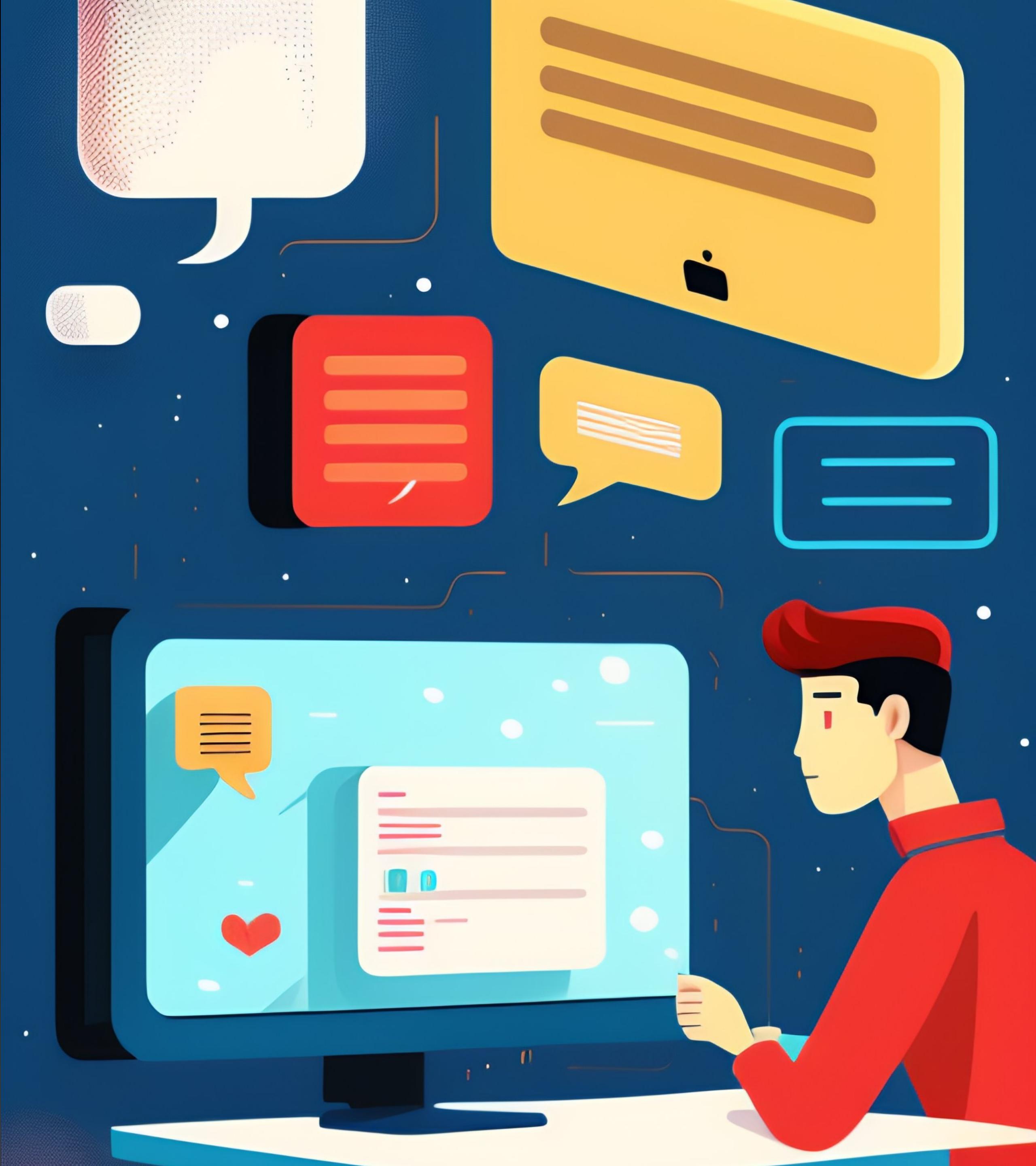
Project Flow :



Methodology:

1. Designing the Chatbot Conversation Flow:

- **Dialogflow**
- **Create intents, entities, and dialogues**



Dialogflow Intents & Entities Creations :

The screenshot displays the Dialogflow Essentials interface, specifically the Intents section. On the left, a sidebar shows navigation options like Bot-Bite, en, Intents (selected), Entities, Knowledge [beta], Fulfillment, Integrations, Training, Validation, and History. The main area shows a list of intents: Add Order_Context : Ongoing-Order, Complete Order_Context: Ongoing-Order, Default Fallback Intent, Default Welcome Intent, New Order, Remove Order_Context : Ongoing-Order, Track Order, and Track Order_Context : Ongoing-Order. A 'CREATE INTENT' button is at the top right.

Default Welcome Intent

Training phrases

Template phrases are deprecated and will be ignored in training time. More details [here](#).

When a user says something similar to a training phrase, Dialogflow matches it to the intent. You don't have to create an exhaustive list. Dialogflow will fill out the list with similar expressions. To extract parameter values, use annotations with available system or custom entity types.

	Training Phrases
1	Add user expression
2	hi
3	just going to say hi
4	neya
5	hello hi
6	howdy
7	hey there
8	hi there
9	greetings
10	meeshaan
11	hi there
12	hey there
13	howdy
14	hi there
15	greetings

Responses

DEFAULT

Text Response

- Hello! Welcome to the Biryani House. How can I assist you with your biryani cravings today?
- Hello! Yes, you've reached the Bot-Bit. Craving some delicious biryani? I'm here to help!
- Hello! This is the Bot-Bit. I'm here to provide information and recommendations related to biryani. How can I make your biryani experience better?
- Hello! Absolutely, there are various types of biryani such as Hyderabadi, Lucknowi, and Kolkata Biryani, each with its unique flavours and ingredients. Which one are you interested in ?
- Greetings! How can I assist? You can say "New Order" or "Track Order"
- Hello! I can help you with that craving. What kind of biryani are you in the mood for? Vegetarian, chicken, mutton ?
- Hello! I have a collection of mouthwatering biryani recipes. Would you like a vegetarian or non-vegetarian recipe?
- Hello! I'd be happy to assist you in finding the best biryani.
- Hello, How can I help you?
- Good day! What can I do for you today? You can say "New Order" or "Track Order"

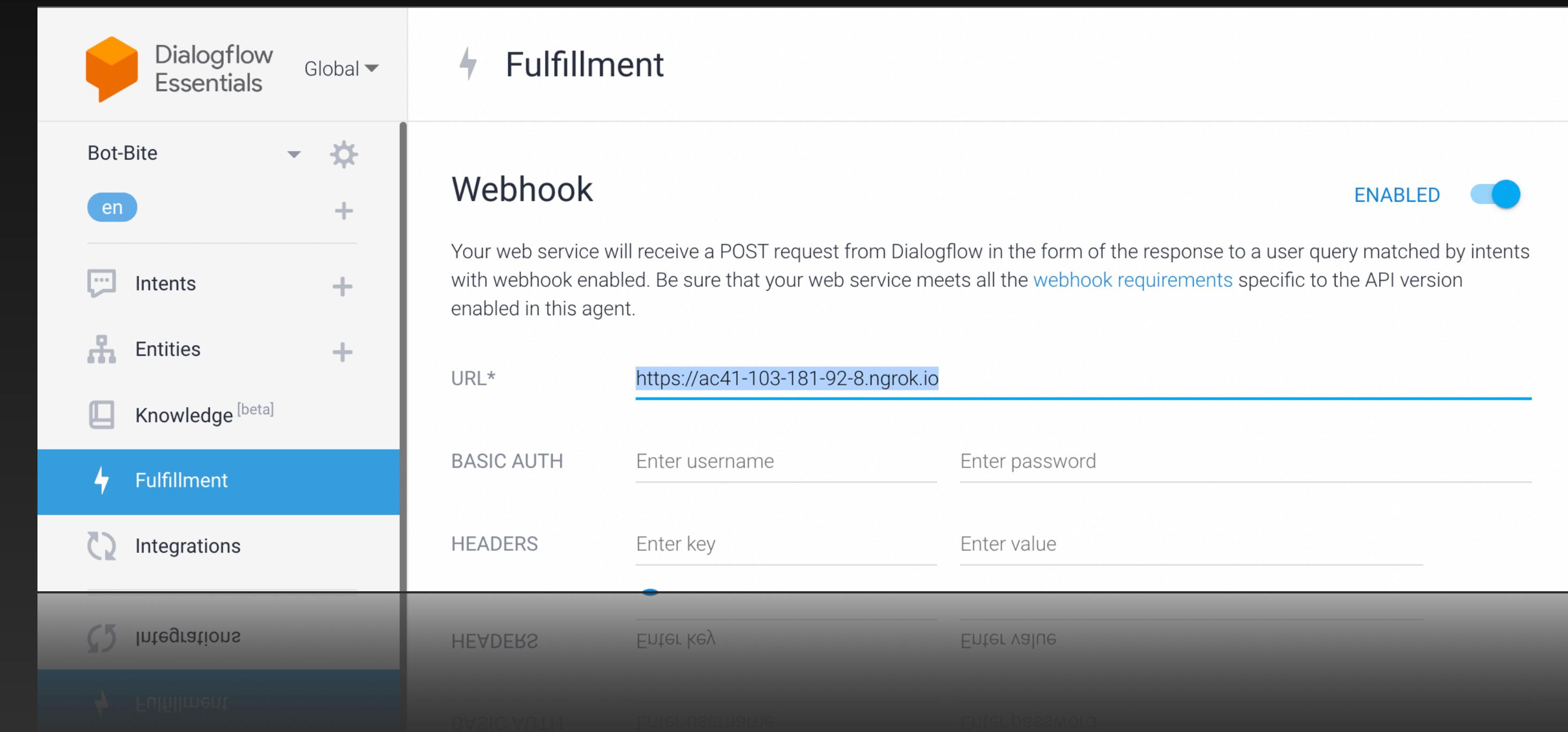
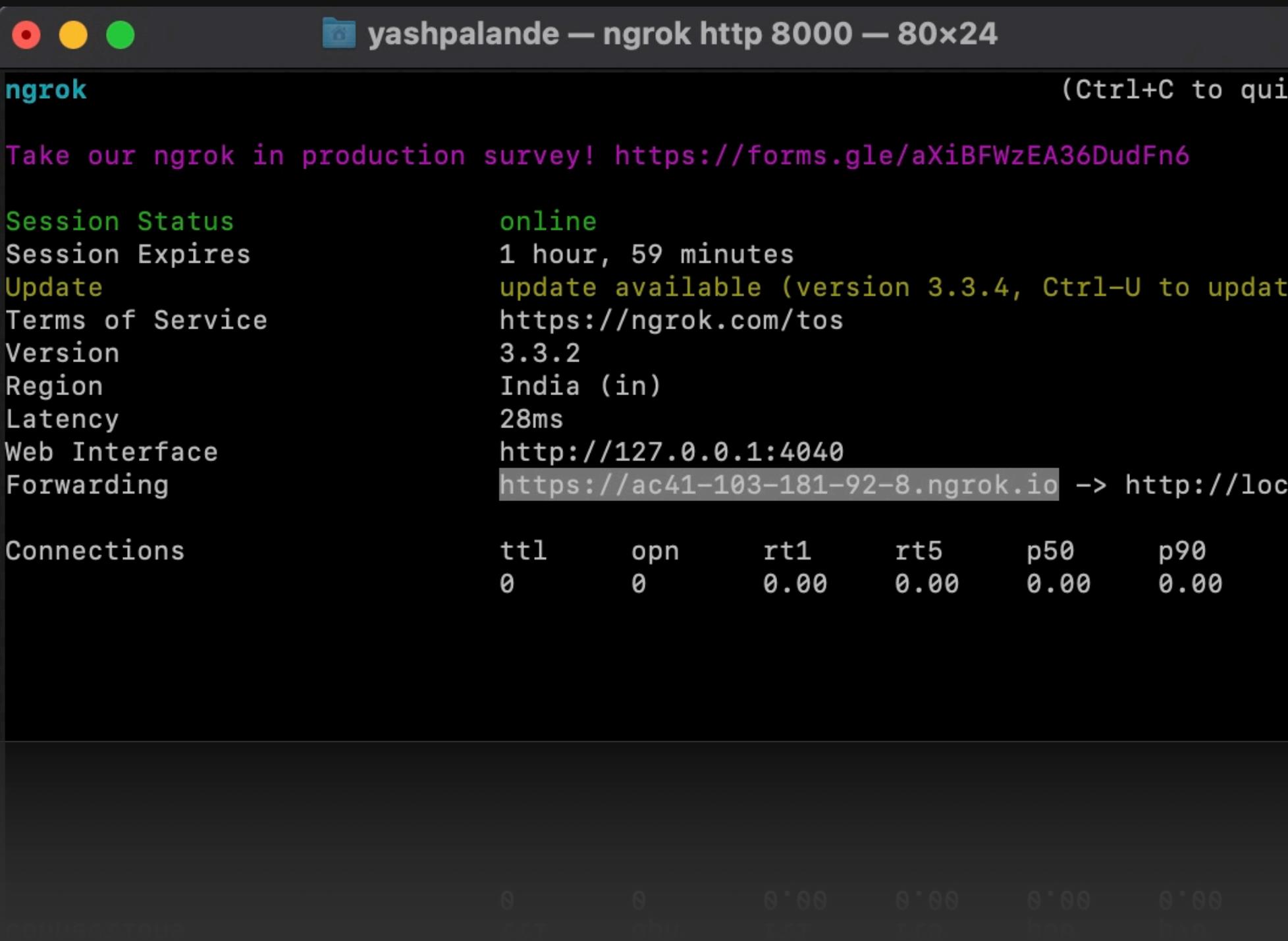
Methodology:

2. Implementing Chatbox backend server:

- **FastAPI web framework in Python**



Forming Connection :



Methodology:

3. Integrating the MySQL DB:

- Establish a connection to the MySQL database from your Python backend server



Tables created inside our Mysql db.

1 • `SELECT * FROM BOT_BIT.food_items;`

100% 34:1

Result Grid Filter Rows: Search

item_id	name	price
121	Chicken Dum Biryani	300.00
122	Chicken Biryani	280.00
123	Dum Ghost Mutton Biryani	340.00
124	Mutton Biryani	320.00
125	Paneer Biryani	260.00
126	Shahi Special Biryani	360.00
127	Veg Dum Biryani	250.00
128	Hyderabadi Dum Biryani	330.00
129	Gulab Jamun	70.00
130	Coke	50.00
131	Mughlai Gravy	40.00
132	Mint Raita	30.00
NULL	NULL	NULL

1 • `SELECT * FROM BOT_BIT.orders;`

100% 30:1

Result Grid Filter Rows: Search

order_id	item_id	quantity	total_price
400	122	2	360.00
403	125	2	320.00
404	128	1	330.00
405	130	1	50.00
► 406	130	1	50.00
407	131	2	80.00
408	131	2	80.00
409	131	2	80.00
410	130	1	50.00
410	131	2	80.00
411	131	2	80.00
412	130	1	50.00
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498	130	1	50.00
499	131	2	80.00
499	130	1	50.00
5			

Methodology:

4. Handling Order Placement and Retrieval:

- Capture relevant order details from user interactions in the chatbot
- Store the info in database
- Retrieve the order info from MySQL DB



Data stored inside our Mysql db.



The screenshot displays a conversational AI interface with three panels showing user interactions with an 'Agent' and two panels showing database query results.

User Interactions:

- Panel 1:** User says "add 1 Chicken Dum Biryani". The agent responds with "So far you have: 1 Chicken Biryani. Do you need anything else?". Contexts: ongoing-order. Intent: Add Order_Context : Ongoing-Order. Action: Not available. Parameters: Food-Items ["Chicken Biryani"], number [1].
- Panel 2:** User says "add 1 coke". The agent responds with "So far you have: 1 Chicken Biryani, 1 Coke. Do you need anything else?". Contexts: ongoing-order. Intent: Add Order_Context : Ongoing-Order. Action: Not available. Parameters: Food-Items ["Coke"], number [1].
- Panel 3:** User says "done". The agent responds with "Awesome. We have placed your order. Here is your order id # 444. Your order total is 330.00 which you can pay at the time of delivery!". Contexts: ongoing-order. Intent: Complete Order_Context: Ongoing-Order. Action: Not available. Sentiment: Query Score: 0.0. Diagnostic Info: 0.0.

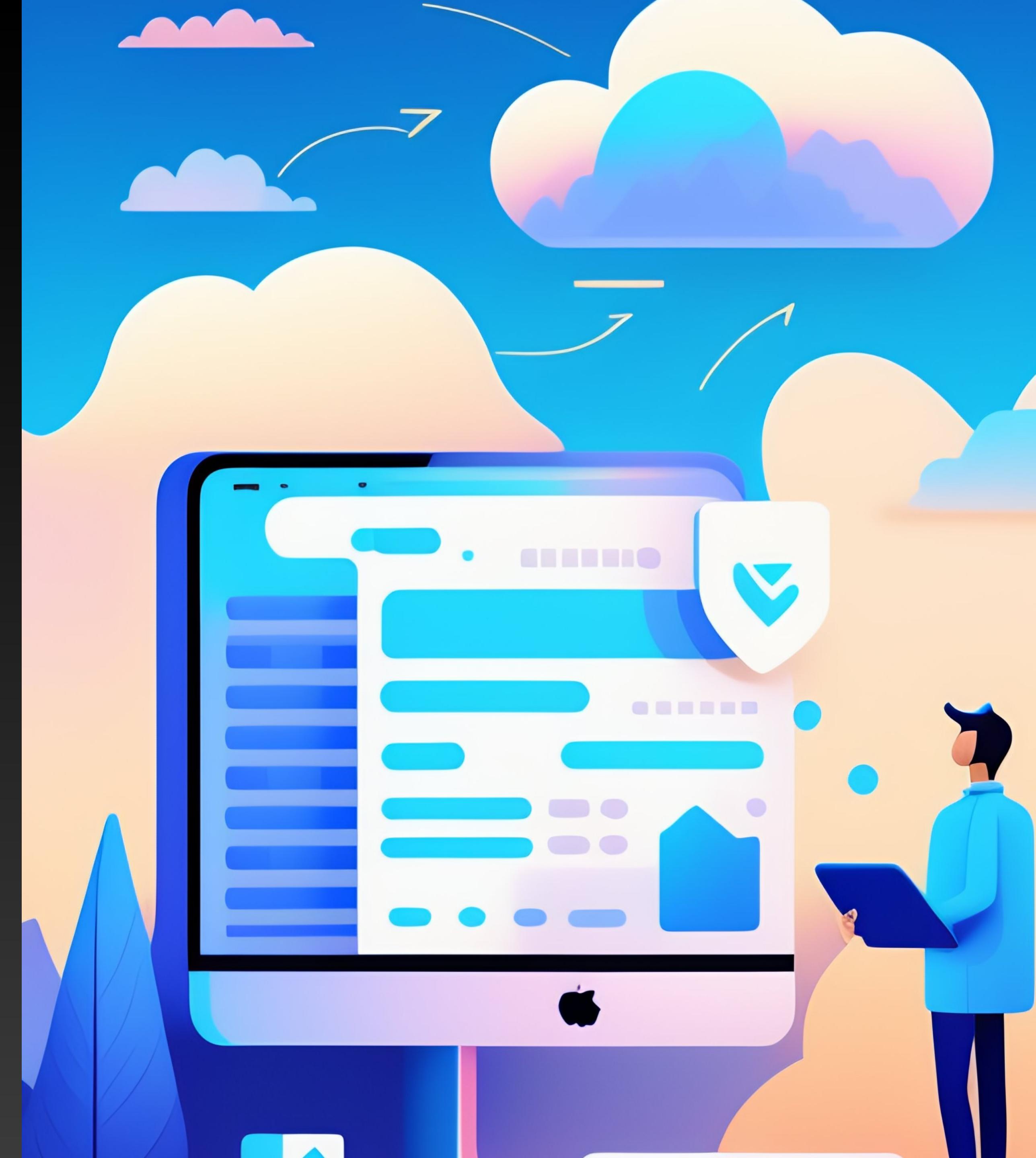
Database Results:

- Panel 4:** Result Grid for query `SELECT * FROM BOT_BIT.orders;`. Shows a list of order items with columns: order_id, item_id, quantity, total_pri... (partial view).
- Panel 5:** Result Grid for query `SELECT * FROM BOT_BIT.order_tracking;`. Shows a list of order tracking items with columns: order_id, status (partial view).

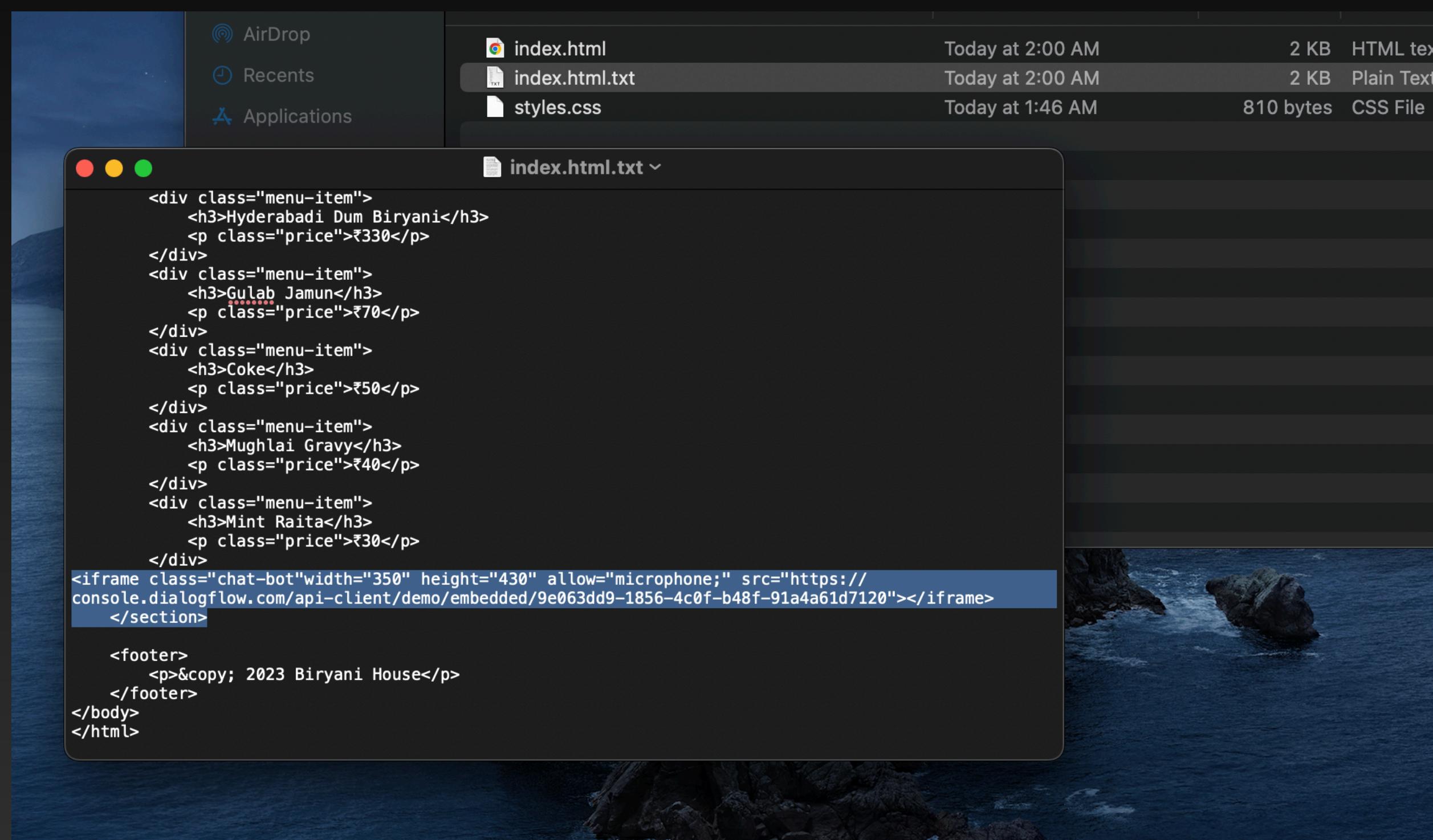
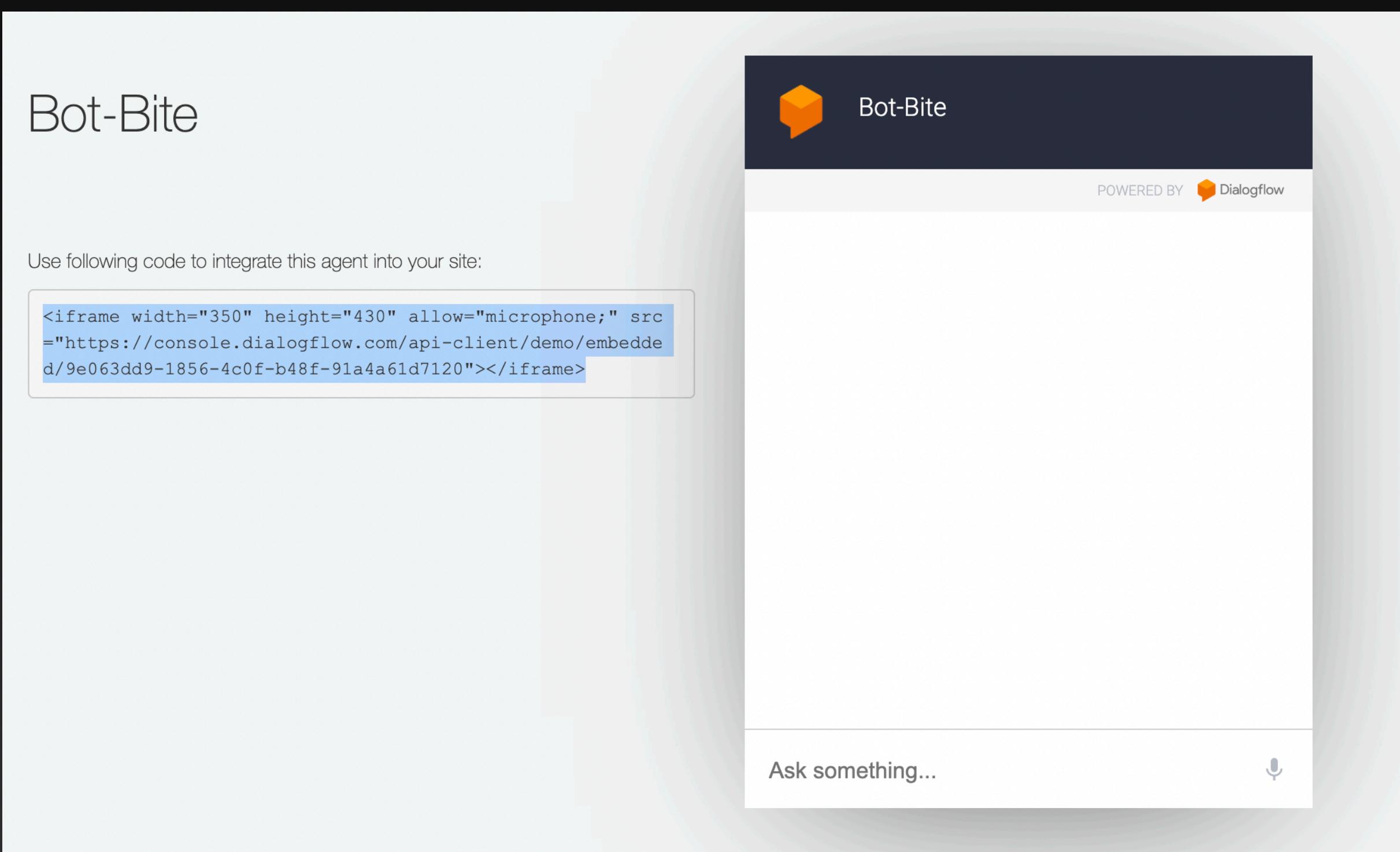
Methodology:

5. Deploying and Integrating with the Website:

- Deploy the chatbot to the website
- Hence, allowing user to interact with the chatbot seamlessly



Adding code to our html file :



Biryani House

Pune, Maharashtra

Menu

Chicken Dum Biryani	₹300
Chicken Biryani	₹280
Dum Ghost Mutton Biryani	₹340
Mutton Biryani	₹320
Paneer Biryani	₹260
Shahi Special Biryani	₹360
Veg Dum Biryani	₹250
Hyderabadi Dum Biryani	₹330
Gulab Jamun	₹70
Coke	₹50
Mughlai Gravy	₹40
Mint Raita	₹30



Bot-Bite

POWERED BY Dialogflow

new order

Got it! We're ready to note down your
biryani order. Give me the details of
the biryani types you'd like and the

Final Output :

Thank You...

