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**Brief Summary of the Task**

**Tools Used:**Personal computer(Windows)  
Python 3.11 along with required libraries  
DialogFlow  
PyCharm(compiler)  
OBS Studio  
NGROK(to expost localhost)

**Task 1 summary:**It was pretty straightforward, through some research and tutorials I was able to create conversational flow between bot and user that was required. There can be more enhancements and modifications but I preferred to keep it simple and do only the things that were asked of me.

**Task 2 summary:**In task the link to the API that was provided in task was not working for me therefore I created a simple RestAPI of my own with only required functionality.

The code for the API is provided below:

**Simple API to fetch the shipment\_date after order id is provided:**

import flask  
import os  
from flask import send\_from\_directory, request, jsonify  
  
app = flask.Flask(\_\_name\_\_)  
  
   
@app.route('/')  
@app.route('/home')  
def home():  
 return "Hello World"  
  
@app.route('/webhook', methods=['POST'])  
def webhook():  
 try:  
 data = request.json  
 order\_id = data.get('order\_Id')  
  
 # Simulate fetching shipment date from a database or API  
 shipment\_date = "2022-08-18T21:31:25.565Z"  
  
 response = {  
 "fulfillmentMessages": [  
 {  
 "text": {  
 "text": ["The shipment date for order {} is {}".format(order\_id, shipment\_date)]  
 }  
 }  
 ]  
 }  
  
 return jsonify(response), 200  
 except Exception as e:  
 print("Error:", e)  
 return jsonify({"error": "An error occurred"}), 500  
if \_\_name\_\_ == "\_\_main\_\_":  
 app.secret\_key = 'ItIsASecret'  
 app.debug = True  
 app.run()

**API that also performs optional task of converting date:**

import flask  
import os  
from flask import send\_from\_directory, request, jsonify  
  
app = flask.Flask(\_\_name\_\_)  
  
@app.route('/favicon.ico')  
def favicon():  
 return send\_from\_directory(os.path.join(app.root\_path, 'static'),  
 'favicon.ico', mimetype='image/favicon.png')  
  
@app.route('/')  
@app.route('/home')  
def home():  
 return "Hello World"  
  
@app.route('/webhook', methods=['POST'])  
def webhook():  
 try:  
 data = request.json  
 order\_id = int(data['queryResult']['parameters']['order\_Id'])  
  
 # Simulate fetching shipment date from a database or API  
 shipment\_date = "2022-08-18T21:31:25.565Z"  
  
 response = {  
 "fulfillmentMessages": [  
 {  
 "text": {  
 "text": ["The shipment date for order {} is {}".format(order\_id, shipment\_date)]  
 }  
 }  
 ]  
 }  
  
 return jsonify(response), 200  
 except Exception as e:  
 print("Error:", e)  
 return jsonify({"error": "An error occurred"}), 500  
if \_\_name\_\_ == "\_\_main\_\_":  
 app.secret\_key = 'ItIsASecret'  
 app.debug = True  
 app.run()

**link to github repository:** [**https://github.com/M-Tayyab15/ICX\_EvaluationTask**](https://github.com/M-Tayyab15/ICX_EvaluationTask)Also given in email.  
DialogFlow bot zip file attached in email.