

## DialogFlow ES with Webhook Look-up

*\*This task is designed to be tackled at your own pace and there is no restriction in terms of consulting online reference documentation or help sources publicly available. There is an honor code policy that you accept when you participate in this task and entitles you to develop this on your own. It is structured such that you will be asked questions that you will be able to answer based on your understanding.*

### Tools Required:

- Personal Computer (Windows/Mac/Linux)
- Internet Connection
- IDE + CLI + Compiler
- Browser

### Objectives:

1. Setup a simple DialogFlow ES bot (<https://dialogflow.cloud.google.com/>)
  - a. Build the conversational flow as depicted in the sequence diagram Fig. 1 on your bot

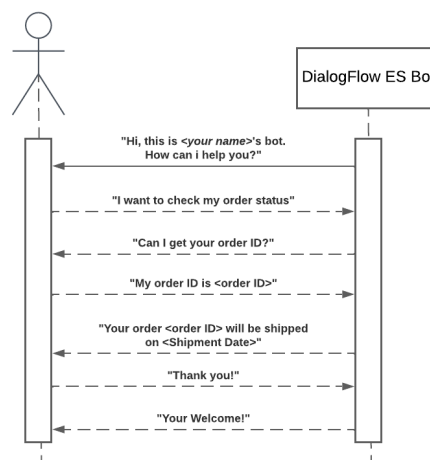


Figure 1 - Order Status Conversational Flow

2. Create a REST API that can receive a webhook request from the bot you've built in step 1 **(This can be in a back-end language of your choice)**
  - a. Receive the **WebhookRequest** from the bot and fetch the **order ID** that the user has provided
  - b. Use the [this API](#) to make a POST request to fetch the shipment date based on the order ID [You can download the JSON for the postman collection from this [public link](#) : API details are also provided at the end of this document]
  - c. Return the **WebhookResponse** with the appropriate response as documented in the sequence diagram above

### Submission

1. Export the DialogFlow ES agent created in step 1 in objectives into a ZIP as shown in the image below

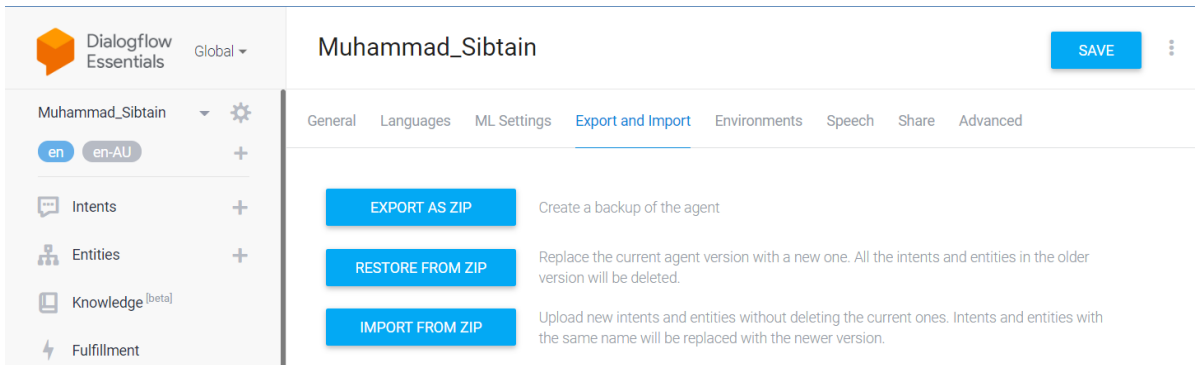


Figure 2 DialogFlow ES Agent export

2. Upload the code for the REST API created in step 2 in objectives on a public GitHub repository for your GitHub account
3. Email the zip file for the DialogFlow ES agent and the repository link to [submissions@interactcx.com](mailto:submissions@interactcx.com)

⚠ **The deadline of the task will be provided upon your estimation. After that, the task will not be accepted.**

⚠ **You are not allowed to communicate problems individually with any company personnel. Please send all queries to [queries@interactcx.com](mailto:queries@interactcx.com)**

### Tips & Resources

- To test your REST API, you can publicly expose your localhost server using a utility called **ngrok**
- For understanding the webhook request/response schemas, use the [Google documentation](#)

### API Specification

API URL : <https://orderstatusapi-dot-organization-project-311520.uc.r.appspot.com/api/getOrderStatus>

API METHOD: **POST**

REQUEST BODY :

```
{
  "orderId": "31313"
}
```

RESPONSE BODY :

```
{
  "shipmentDate": "2022-08-18T21:31:25.565Z"
}
```

### ★ OPTIONAL TASKS

- Convert the shipmentDate format that is returned from the ISO 8601 format to the human readable format **dddd, dd mmm yyyy** (e.g. 2022-08-18T21:31:25.565Z → Thursday, 18 Aug 2022)
- Store an audio on a public link for a song/music/tone and play that after the last message ("You`r welcome") on the bot
- If possible, it is preferable to have the REST API deployed to any cloud instance (AWS, Azure, GCP, IBM, etc.)