

CarsAI System User Guide

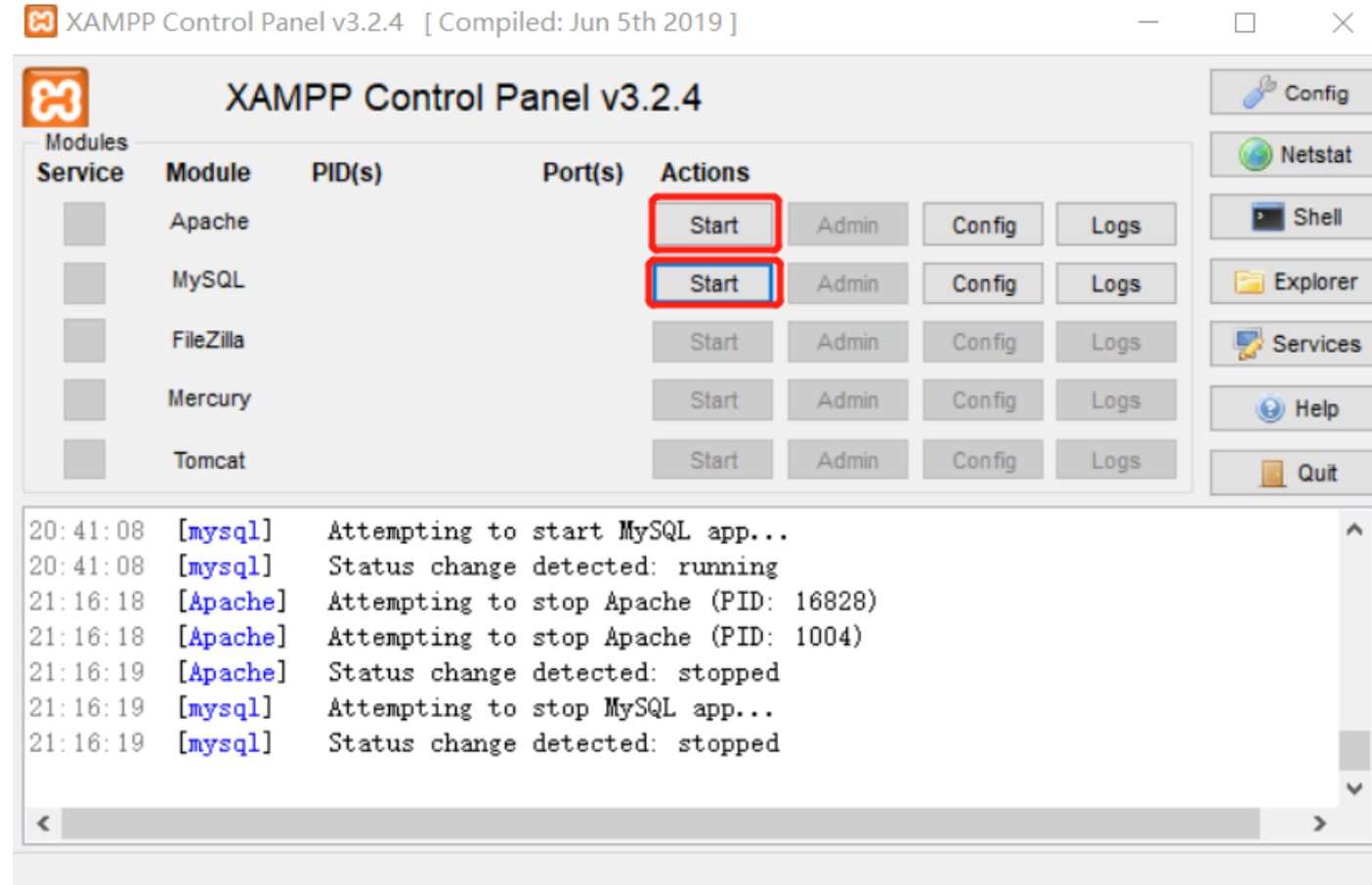
The system is deployed on Windows.

Please use Windows 10 to test the system following the guide below.

1. Setting up the environment

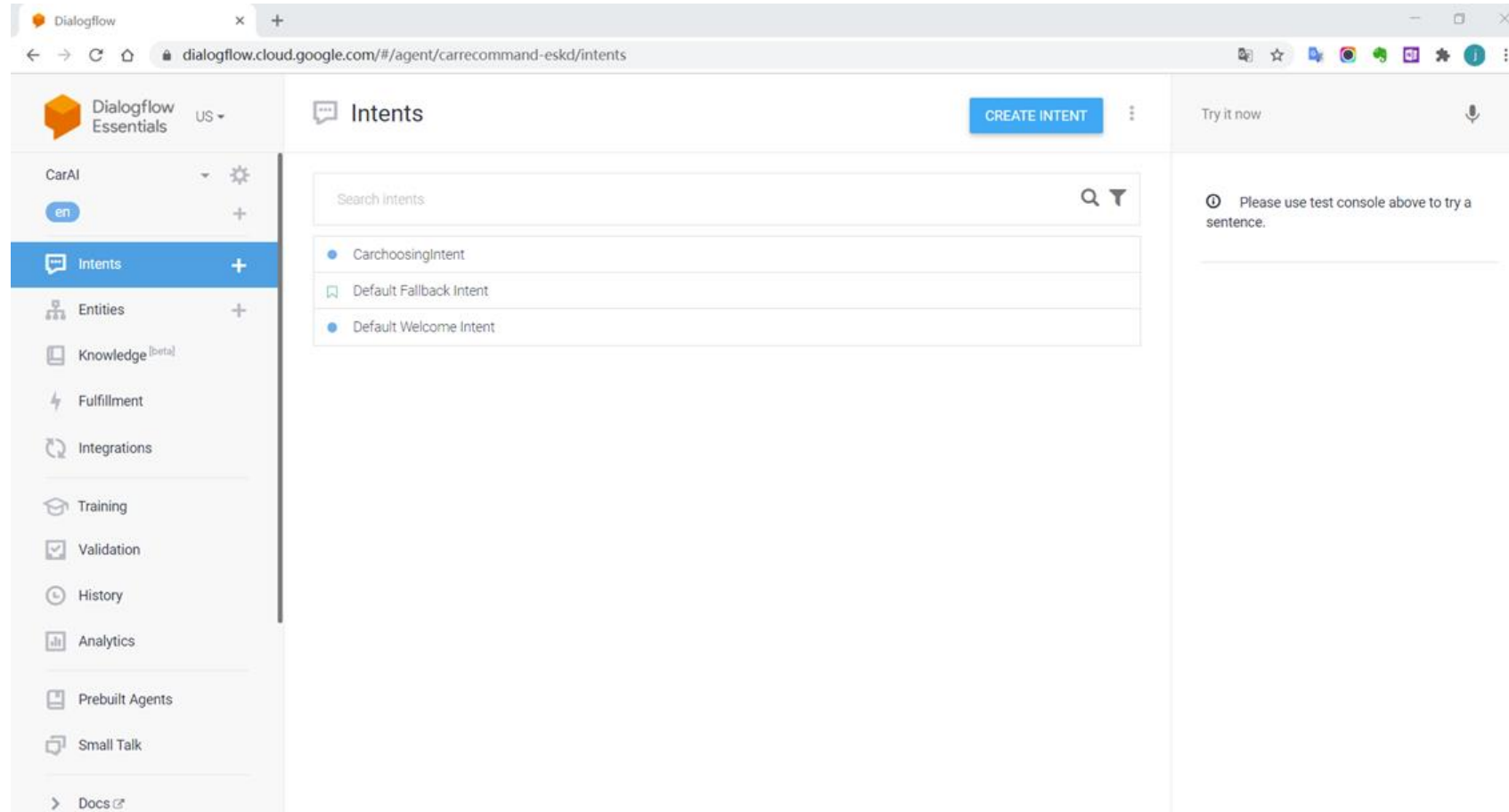
- Make sure you have MySQL, Node.js, Python, XAMPP, npm and ngrok installed in your PC
- In windows CMD execute: `$pip install pandas sklearn`
- `cd` to “SystemCode” folder
- In windows CMD execute: `$npm install npm node popper express jquery mysql bootstrap body-parser pm2 art-template express-art-template fs child_process`

Open XAMPP, start "Apache" and "Mysql" services



2. Setting up Google Dialogflow

Go to <https://dialogflow.cloud.google.com>



Create a new agent

The screenshot shows the Google Dialogflow console interface. The browser address bar displays the URL `dialogflow.cloud.google.com/#/agent/carrecommand-eskd/intents`. The main header includes the Dialogflow Essentials logo, a region selector set to 'US', and a 'CREATE INTENT' button. The left sidebar contains a navigation menu with the following items: 'CarAI' (selected), 'CarsAIServices', 'DCAgent', 'GetWeatherIntent', 'TestQA', 'Create new agent' (highlighted with a red box), 'View all agents', 'Training', 'Validation', 'History', 'Analytics', 'Prebuilt Agents', 'Small Talk', and 'Docs'. The central area is titled 'Intents' and features a search bar and a list of existing intents: 'CarchoosingIntent', 'Default Fallback Intent', and 'Default Welcome Intent'. On the right side, there is a 'Try it now' button and a message: 'Please use test console above to try a sentence.'

Type the name of the agent and click **CREATE**

Dialogflow

dialogflow.cloud.google.com/#/newAgent

Dialogflow Essentials US

CarAI

CREATE

Try it now

CarsAIServices

en

Intents

Entities

Knowledge ^[beta]

Fulfillment

Integrations

Training

Validation

History

Analytics

Prebuilt Agents

Small Talk

Docs

DEFAULT LANGUAGE ⓘ

English — en

Primary language for your agent. Other languages can be added later.

DEFAULT TIME ZONE

(GMT+8:00) Asia/Hong_Kong

Date and time requests are resolved using this timezone.

GOOGLE PROJECT

Create a new Google project

Enables Cloud functions, Actions on Google and permissions management.

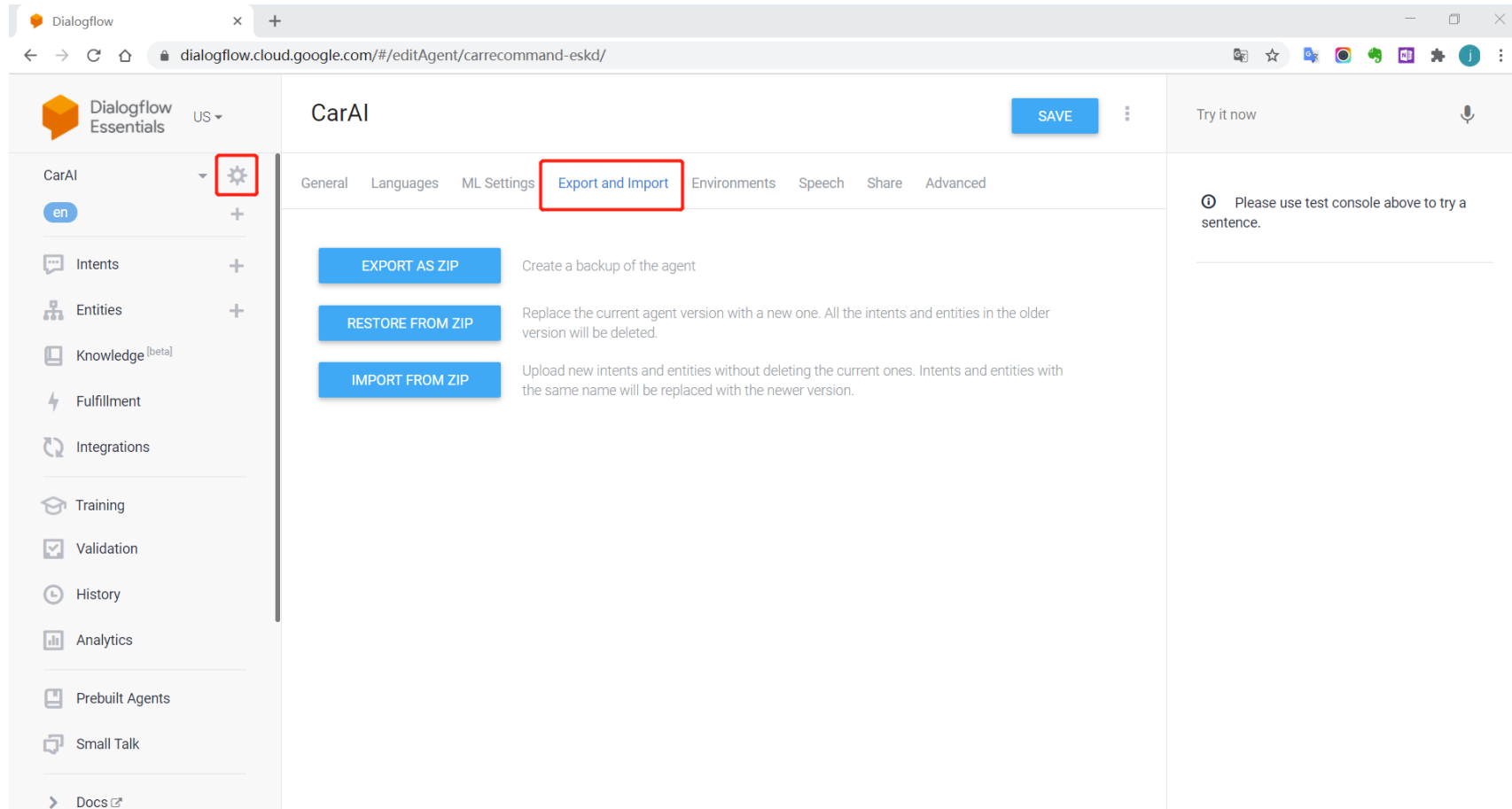
AGENT TYPE

☒ Set as Mega Agent

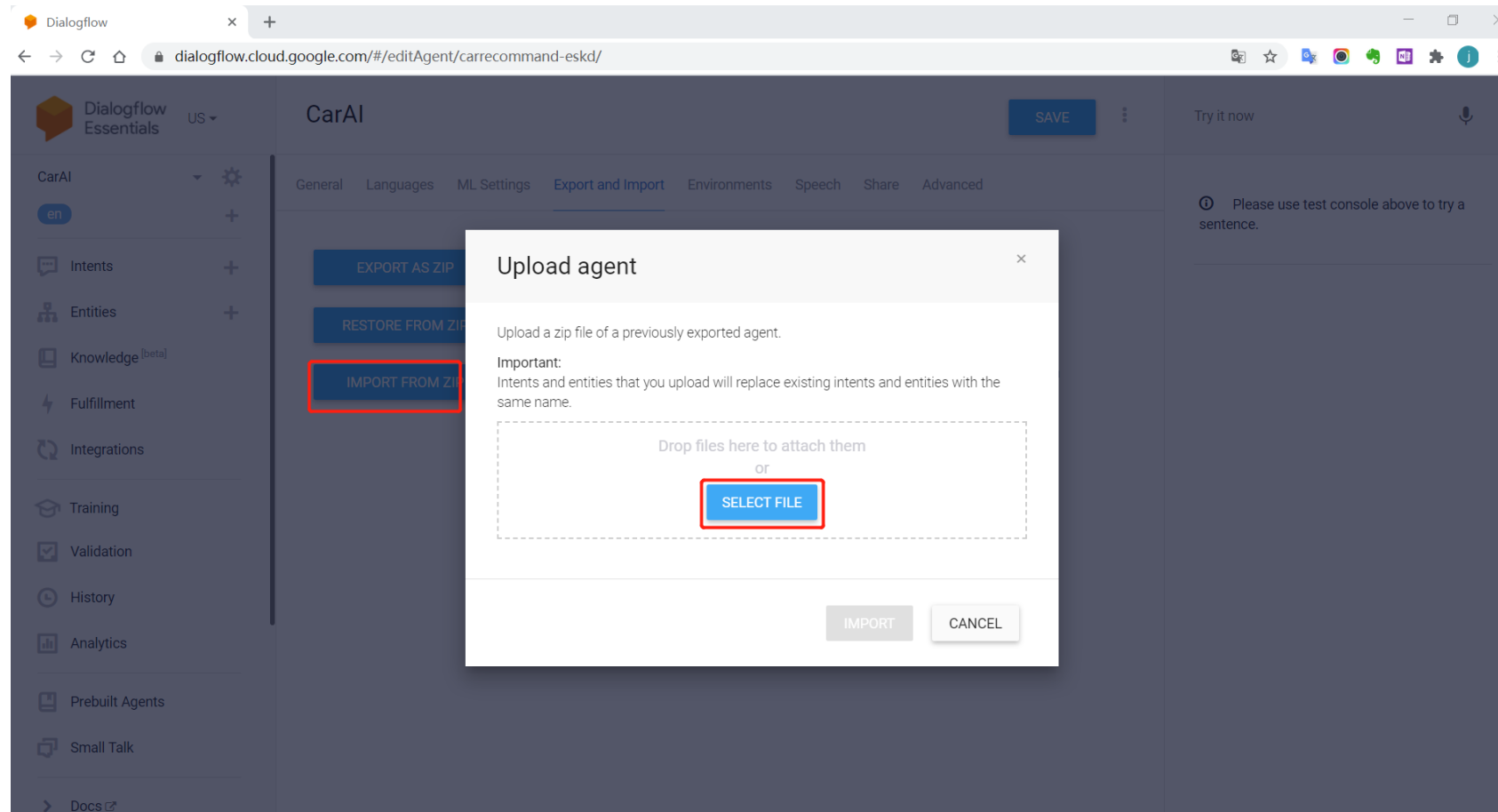
Combine multiple Dialogflow agents (i.e. sub agents) into a single agent (i.e. [mega agent](#)).

ⓘ Please use test console above to try a sentence.

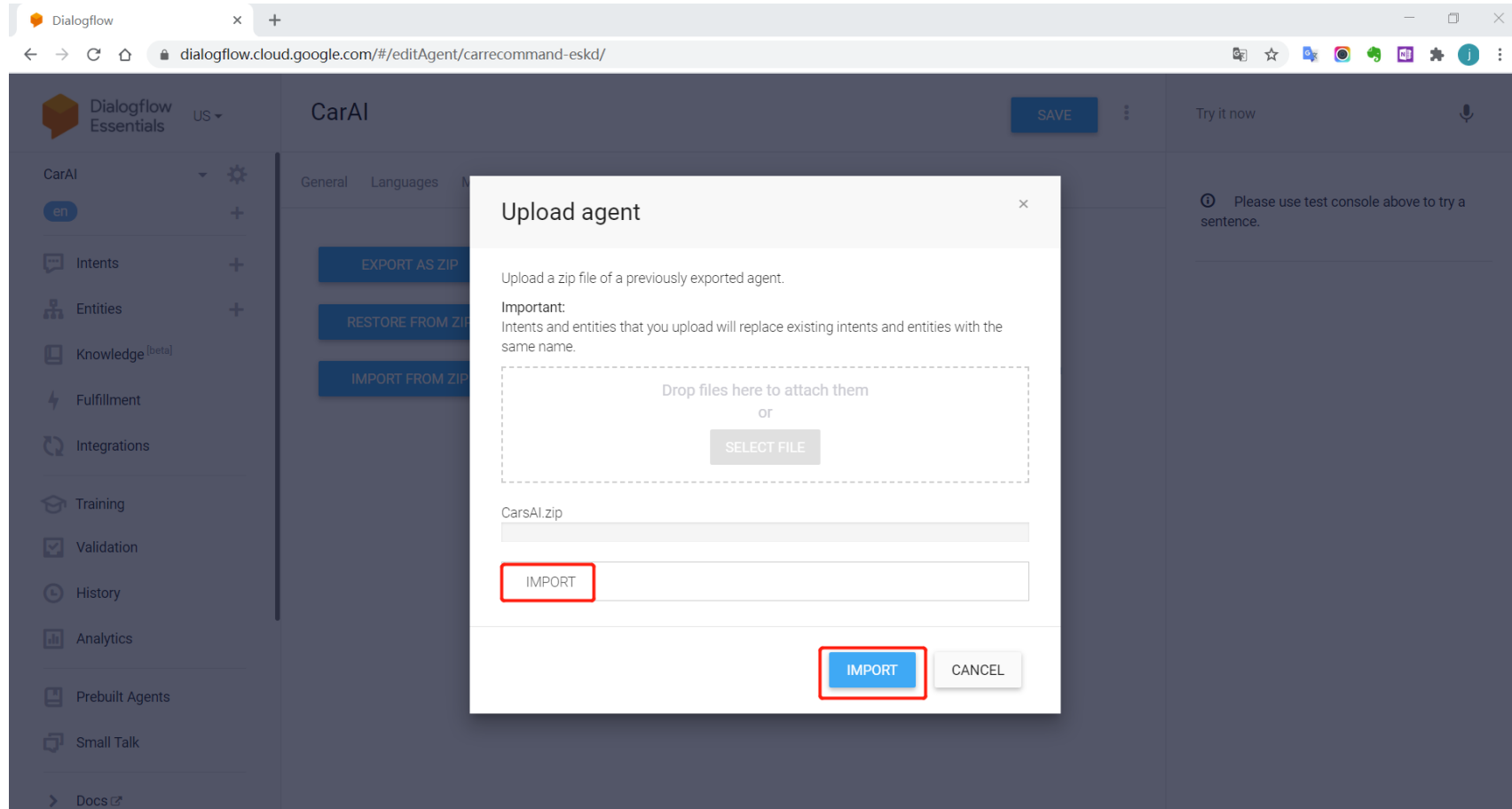
Click the **setting** button and then click **Export and Import**



Click **IMPORT FROM ZIP** and click **SELECT FILE**, select the file **CarsAI.zip**
(the file is under SystemCode folder)



After uploading, type **IMPORT** in the blank and click **IMPORT**



Go to **Fulfillment** on the left side and **ENABLED** the Webhook

The screenshot shows the Dialogflow Fulfillment configuration page. On the left sidebar, the 'Fulfillment' option is highlighted with a red box. In the main content area, the 'Webhook' section has a toggle switch labeled 'ENABLED' with a red box around it. Below this, there are input fields for 'URL*', 'BASIC AUTH' (username and password), 'HEADERS' (key and value), and 'SMALL TALK'. A red callout box points to the 'URL*' field with the text: 'This url will receive a POST request from Dialogflow every time the webhook is triggered by an intent.' Below the 'Webhook' section is the 'Inline Editor' section, which is currently 'DISABLED'. At the bottom, there is a code editor showing the contents of 'index.js' and 'package.json'.

Dialogflow Essentials US

CarAI en

Intents

Entities

Knowledge [beta]

Fulfillment

Integrations

Training

Validation

History

Analytics

Prebuilt Agents

Small Talk

Docs

Fulfillment

Webhook

ENABLED

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

URL* Enter URL

BASIC AUTH Enter username Enter password

HEADERS Enter key Enter value

SMALL TALK Disable webhook for Smalltalk

Inline Editor (Powered by Google Cloud Functions)

DISABLED

Build and manage fulfillment directly in Dialogflow via Cloud Functions. [Docs](#)

Newly created cloud functions now use Node.js 10 as runtime engine. Check [migration guide](#) for more details.

```
index.js package.json
1 // See https://github.com/dialogflow/dialogflow-fulfillment-nodejs
2 // for Dialogflow fulfillment library docs, samples, and to report issues
```

Download **ngrok.exe** from ngrok.com
start ngrok.exe
execute: \$ngrok http 8080

```
C:\Users\Administrator\Desktop\NUS\IRS5001\CGS_Cognitive Systems\Day 3 (August 5)\ngrok.exe - ngrok http 8080
ngrok by @inconshreveable (Ctrl+C to quit)

Session Status      online
Session Expires     7 hours, 59 minutes
Version             2.3.35
Region              United States (us)
Web Interface        http://127.0.0.1:4040
Forwarding           http://deff2cc3c0b0.ngrok.io -> http://localhost:8080
Forwarding           https://deff2cc3c0b0.ngrok.io -> http://localhost:8080

Connections         ttl    opn    rt1    rt5    p50    p90
                   0      0      0.00   0.00   0.00   0.00
```

Paste the address to the blank **URL*** follow with **/carai**.
Save the fulfillment.

The screenshot shows the Dialogflow Fulfillment configuration page for an agent named 'CarAI'. The left sidebar contains navigation links: CarAI, Intents, Entities, Knowledge (beta), Fulfillment (selected), Integrations, Training, Validation, History, Analytics, Prebuilt Agents, Small Talk, and Docs. The main content area is titled 'Fulfillment' and features a 'Webhook' section with an 'ENABLED' toggle. Below this, the 'URL*' field is highlighted with a red box and contains the value 'https://5aa4e0faccce.ngrok.io/carai'. Other sections include 'BASIC AUTH' with fields for username and password, 'HEADERS' with fields for key and value, and 'SMALL TALK' with a dropdown menu. The 'Inline Editor' section is 'DISABLED' and includes a note about Node.js 10 runtime engine. At the bottom, there is a code editor with a file explorer showing 'index.js' and 'package.json'.

Dialogflow Essentials US

CarAI en

Intents +

Entities +

Knowledge (beta)

Fulfillment

Integrations

Training

Validation

History

Analytics

Prebuilt Agents

Small Talk

Docs

Fulfillment

Try it now

Webhook

ENABLED

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

URL*

BASIC AUTH

HEADERS

+ Add header

SMALL TALK

Inline Editor (Powered by Google Cloud Functions)

DISABLED

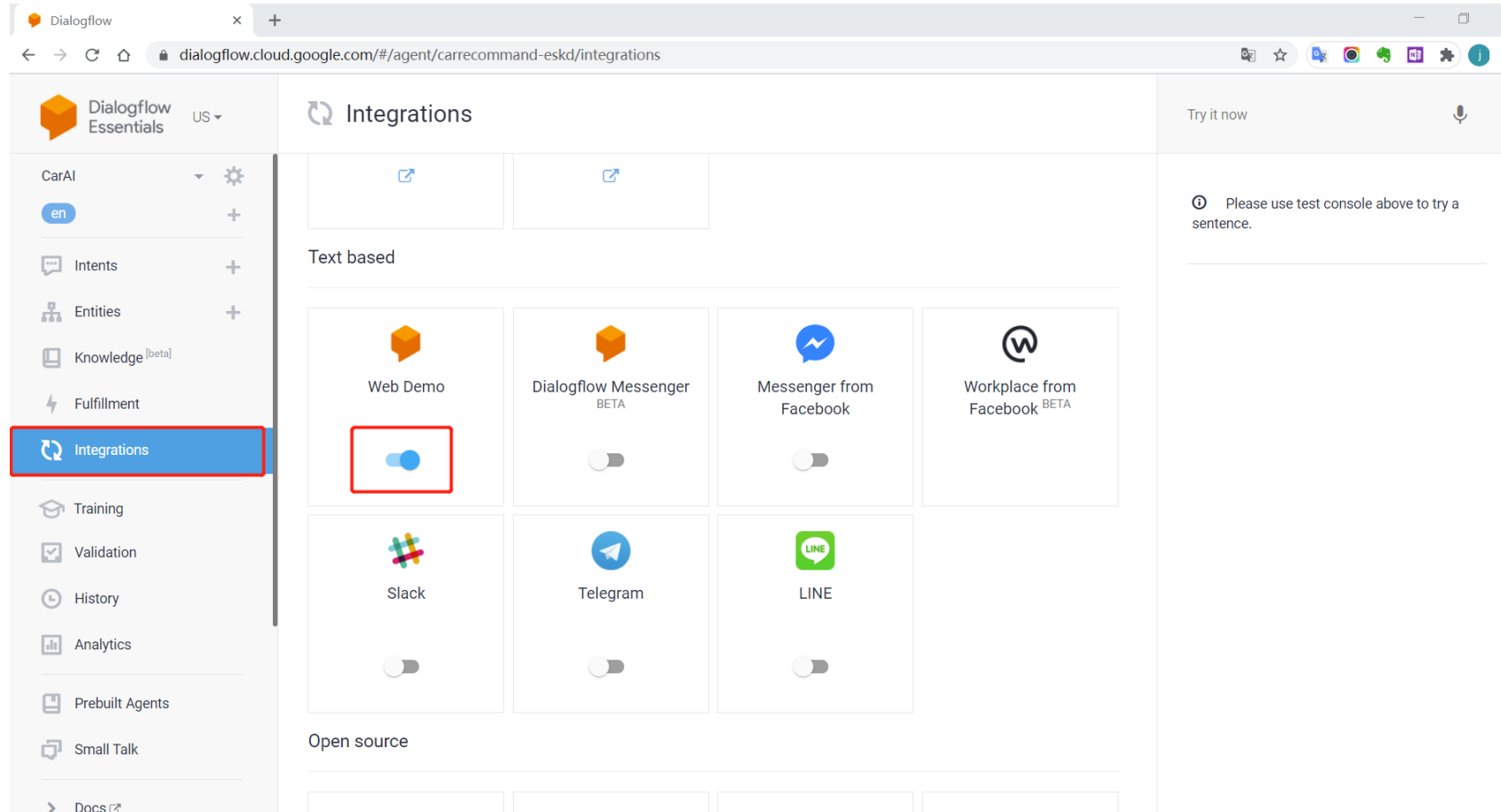
Build and manage fulfillment directly in Dialogflow via Cloud Functions. [Docs](#)

Newly created cloud functions now use Node.js 10 as runtime engine. Check [migration guide](#) for more details.

index.js package.json

```
1 // See https://github.com/dialogflow/dialogflow-fulfillment-nodejs
2 // for Dialogflow fulfillment library docs, samples, and to report issues
```

Go to **Integrations** on the left side and enable **Web Demo**



The screenshot shows the Dialogflow Integrations page in a web browser. The left sidebar contains the navigation menu with the following items: CarAI, Intents, Entities, Knowledge (beta), Fulfillment, Integrations (highlighted with a red box), Training, Validation, History, Analytics, Prebuilt Agents, Small Talk, and Docs. The main content area is titled "Integrations" and displays a grid of integration cards. The "Text based" section includes cards for Web Demo, Dialogflow Messenger (BETA), Messenger from Facebook, and Workplace from Facebook (BETA). The "Open source" section includes cards for Slack, Telegram, and LINE. The "Web Demo" card has its toggle switch turned on, which is highlighted by a red rectangle. The right sidebar contains a "Try it now" button and a message: "Please use test console above to try a sentence."

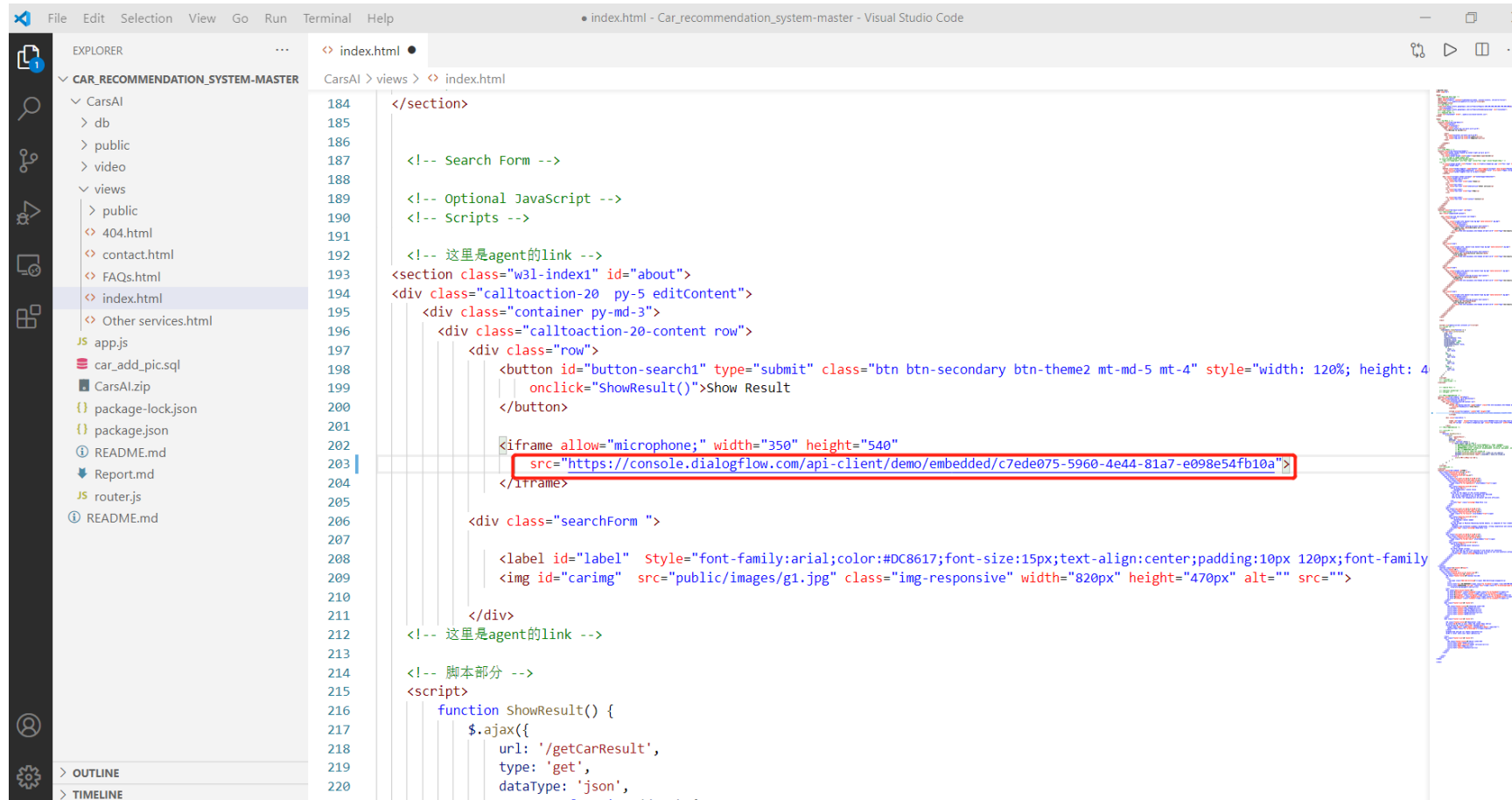
In **Integrations**, click **Web Demo** and copy the address

The screenshot shows the Google Dialogflow web interface. The browser's address bar displays the URL `dialogflow.cloud.google.com/#/agent/carrecommand-eskd/integrations`. On the left sidebar, the 'Integrations' menu item is selected. The main content area is titled 'Integrations' and features a 'Web Demo' modal window. This modal has a toggle switch that is turned on. It contains the following text: 'Test the agent on its own page. Share the link to the page or embed the ` widget in other websites to get more conversations going. [More in documentation.](#)'. Below this, a URL is displayed and highlighted with a red rectangle: `https://bot.dialogflow.com/c7ede075-5960-4e44-81a7-e098e54fb10a`. A message below the URL states: 'Seems that your agent info is not filled yet. Set icon and description for better end-user experience.' At the bottom of the modal, it says 'Add this agent to your website by copying the code below:' followed by an `<iframe>` code block. The code block contains the following HTML:

```
<iframe
  allow="microphone;"
  width="350"
  height="430"
  src="https://console.dialogflow.com/api-client/demo/embedded/c7ede075-5960-4e44-81a7-e098e54fb10a"
a">
</iframe>
```

 A 'CLOSE' button is located at the bottom right of the modal. The background interface shows a sidebar with various options like 'CarAI', 'Intents', 'Entities', 'Knowledge', 'Fulfillment', 'Integrations', 'Training', 'Validation', 'History', 'Analytics', 'Prebuilt Agents', and 'Small Talk'.

Open the file **views/index.html** with any code editor.
Replace the **url** in agent part with the **url** you copied from **Web Demo**.
And then save the file.

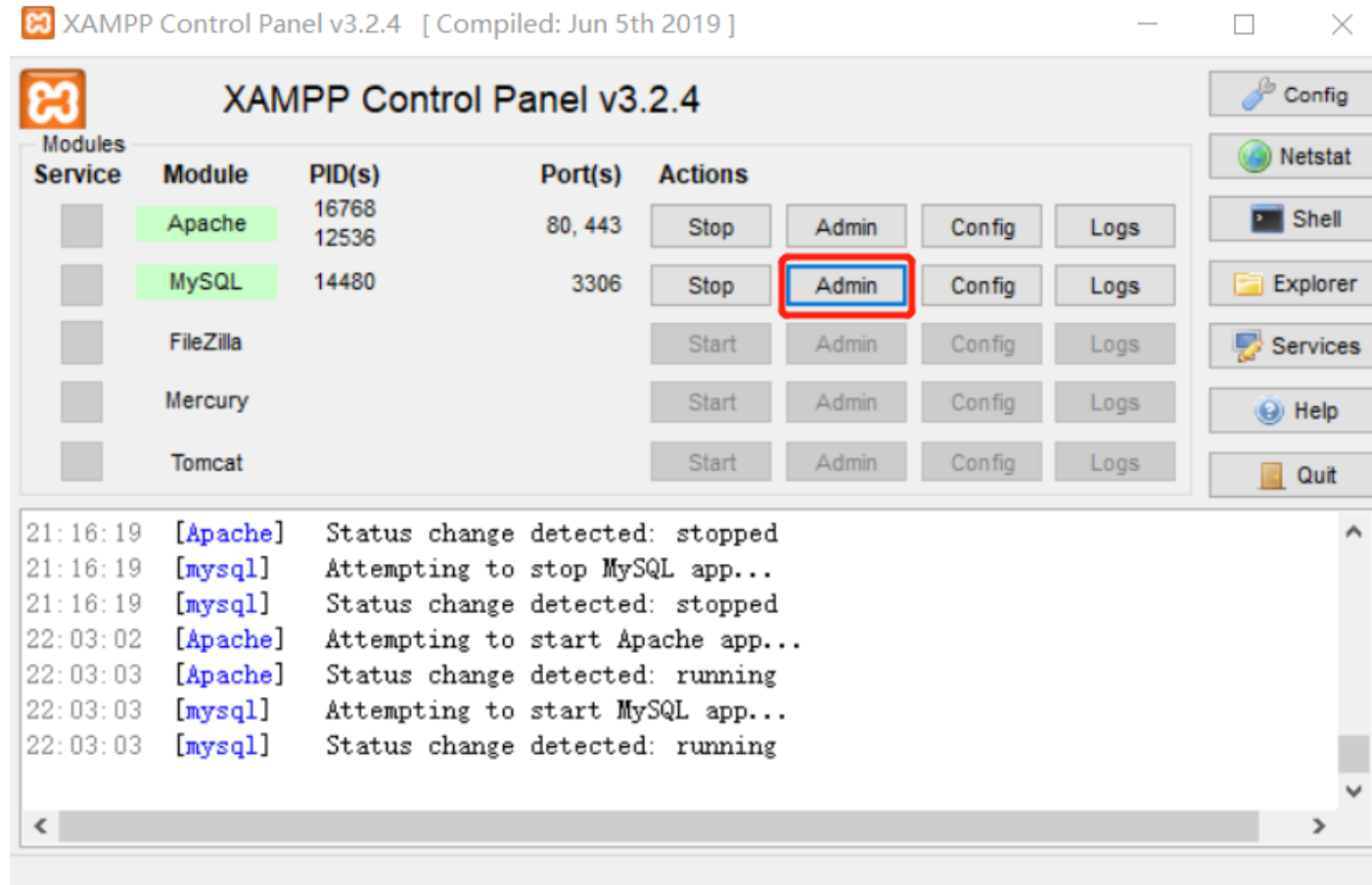


```
184 </section>
185
186
187 <!-- Search Form -->
188
189 <!-- Optional JavaScript -->
190 <!-- Scripts -->
191
192 <!-- 这里是agent的link -->
193 <section class="w3l-index1" id="about">
194 <div class="calltoaction-20 py-5 editContent">
195 <div class="container py-md-3">
196 <div class="calltoaction-20-content row">
197 <div class="row">
198 <button id="button-search1" type="submit" class="btn btn-secondary btn-theme2 mt-md-5 mt-4" style="width: 120%; height: 40px; border-radius: 10px;">Show Result
199 </button>
200
201
202 <iframe allow="microphone;" width="350" height="540"
203 src="https://console.dialogflow.com/api-client/demo/embedded/c7ede075-5960-4e44-81a7-e098e54fb10a">
204 </iframe>
205
206 <div class="searchForm ">
207
208 <label id="label" style="font-family:arial;color:#DC8617;font-size:15px;text-align:center;padding:10px 120px;font-family:arial;color:#DC8617;font-size:15px;text-align:center;padding:10px 120px;">
209 
210
211 </div>
212 <!-- 这里是agent的link -->
213
214 <!-- 脚本部分 -->
215 <script>
216 function ShowResult() {
217 $.ajax({
218 url: '/getCarResult',
219 type: 'get',
220 dataType: 'json',
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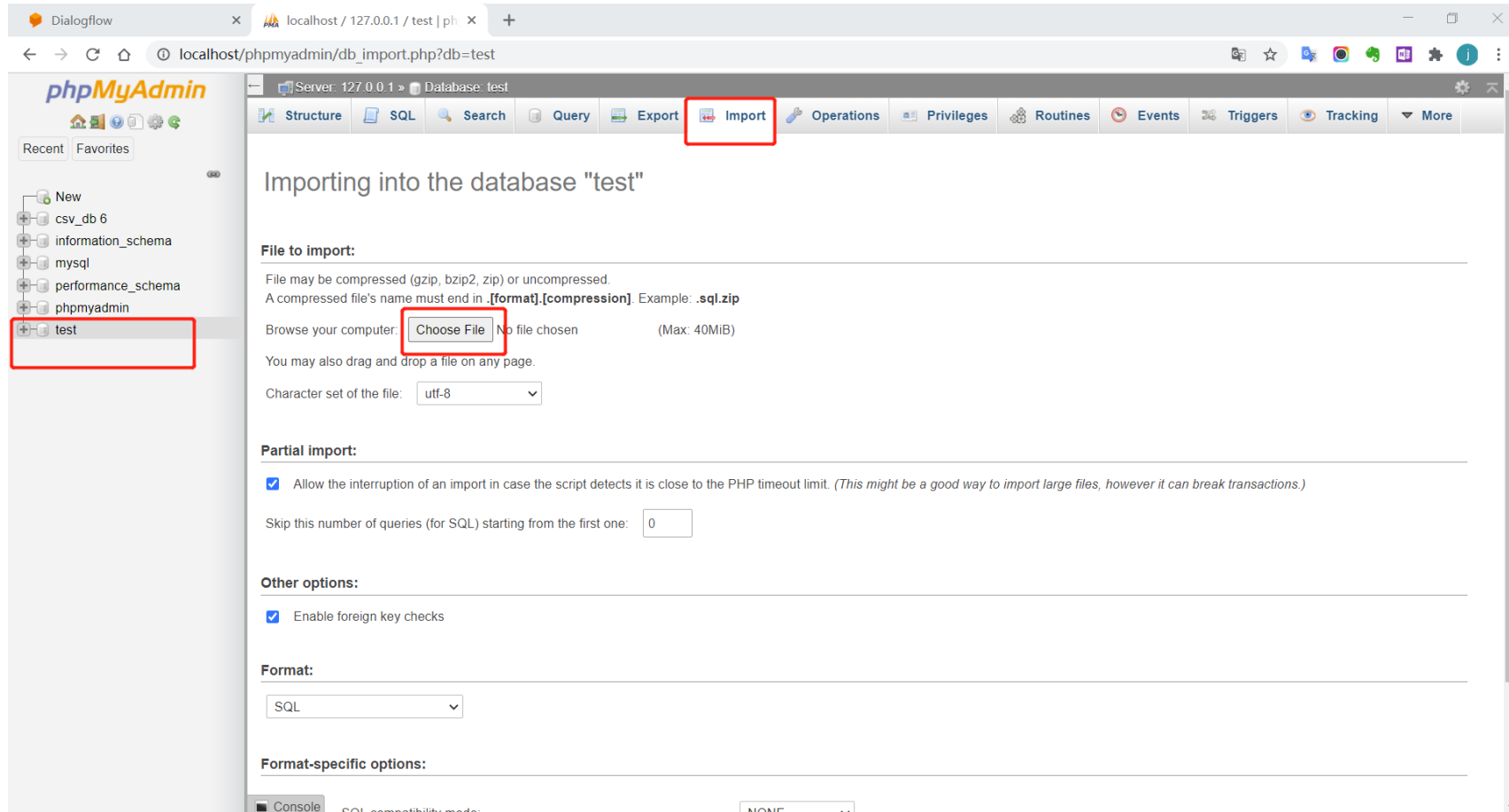
3. Import Database

Open XAMPP

To import database, click **Admin** below MySQL

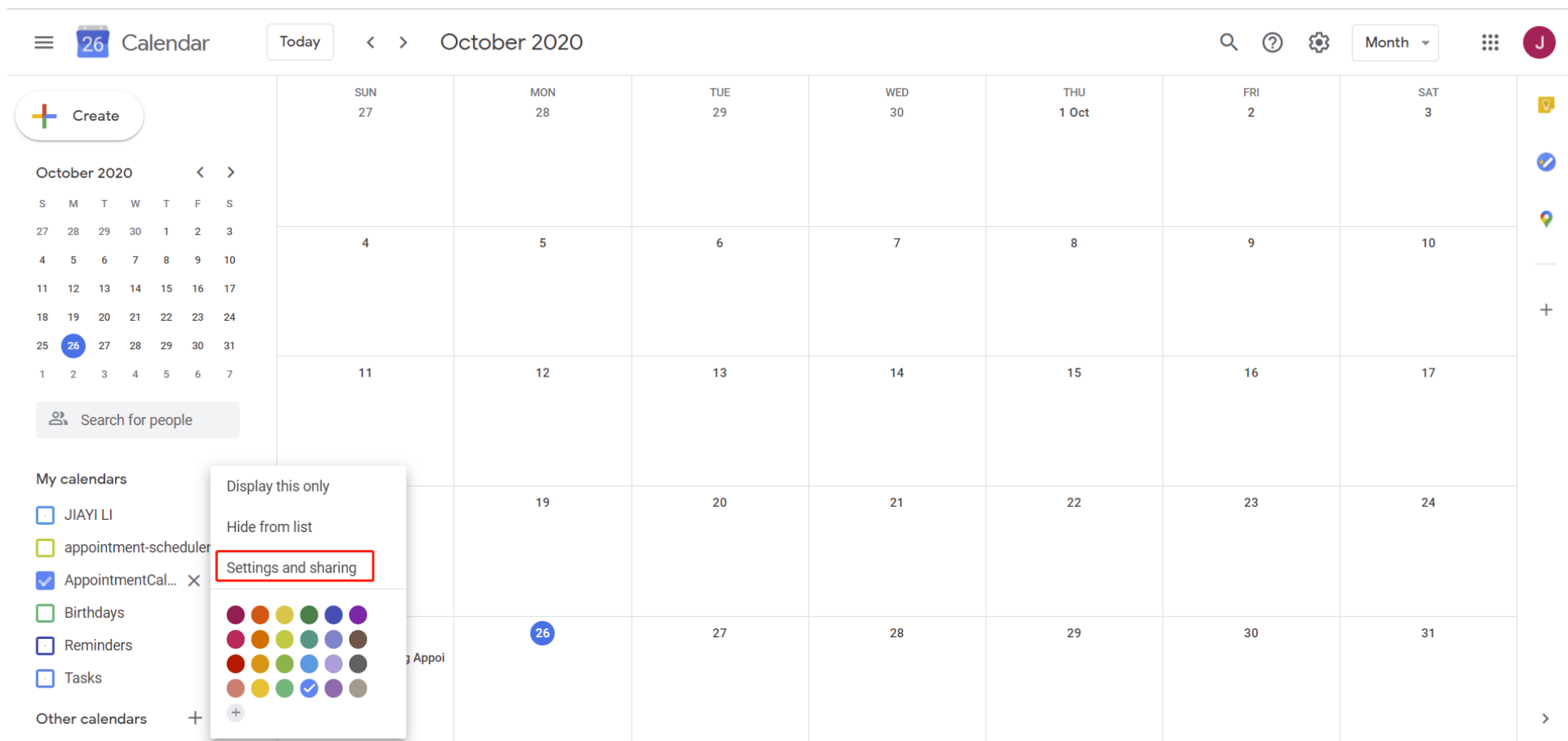


Choose **test** database on the left, and then click on **Import**.
Then click **Choose File** to import **CarDB.sql** (the file is under **SystemCode** folder)



4. Google Calendar API Setting

Open the settings menu of Google Calendar and copy the Calendar ID



Open the settings menu of Google Calendar and copy the Calendar ID

Integrate calendar

Calendar ID

tq3sn06bm11khqnp33e985j83g@group.calendar.google.com

Public URL to this calendar

<https://calendar.google.com/calendar/embed?src=tq3sn06bm11khqnp33e985j83g%40group.calendar.google.com>

Use this URL to access this calendar from a web browser.

Embed code

```
<iframe src="https://calendar.google.com/calendar/embed?src=tq3sn06bm11khqnp33e985j83g%40group.calendar.google.com" >
```

Use this code to embed this calendar in a web page.

You can customise the code or embed multiple calendars.

[Customise](#)

Public address in iCal format

<https://calendar.google.com/calendar/ical/tq3sn06bm11khqnp33e985j83g%40group.calendar.google.com>

Use this address to access this calendar from other applications.

Warning: The address won't work unless this calendar is public.

Secret address in iCal format

<https://calendar.google.com/calendar/ical/tq3sn06bm11khqnp33e985j83g%40group.calendar.google.com?secret=1>

Use this address to access this calendar from other applications without making it public.

Warning: Only share this address with those you trust to see all event details for this calendar.

You can reset this address and make the current one invalid.

[Reset](#)

Back to Google Dialogflow

Select “CarAI” agent that you just create

Enable the **Inline Editor** in fulfillment, modify the “calendarId” using your own ID

Webhook

DISABLED 

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

Inline Editor (Powered by Google Cloud Functions)

ENABLED 

Build and manage fulfillment directly in Dialogflow via Cloud Functions. [Docs](#)



Newly created cloud functions now use Node.js 10 as runtime engine. Check [migration guide](#) for more details.

index.js package.json

```
18
19 const functions = require('firebase-functions');
20 const {google} = require('googleapis');
21 const {WebhookClient} = require('dialogflow-fulfillment');
22
23 // Enter your calendar ID below and service account JSON below
24 const calendarId = "tq3sn06bm11khqnp33e985j83g@group.calendar.google.com";
25 const serviceAccount = {
26   "type": "service_account",
27   "project_id": "appointmentscheduler-lowf",
28   "private_key_id": "e648be1b05a2fc455ee1a4cb4a552e0a388be58c",
29   "private_key": "-----BEGIN PRIVATE KEY-----\nMIIEvQIBADANBgkqhkiG9w0BAQEFAASCBAkwggSjAgEAAoIBAQC0vrndwSCjxlqFw\nnH9S9Ra6IkuQwnoyaNVduKUYQUdY
30   "client_email": "appointment-scheduler@appointmentscheduler-lowf.iam.gserviceaccount.com",
31   "client_id": "106980330018328476785",
32
```

[View execution logs in the Google Cloud Console](#)

Last deployed on 09/24/2020 17:16

DEPLOY

Replace all the information in the **serviceAccount** part with the json file information in the Miscellaneous folder. The file name is **appointmentscheduler-lowf-e648be1b05a2.json**.

Webhook

DISABLED ☐

Your web service will receive a POST request from Dialogflow in the form of the response to a user query matched by intents with webhook enabled. Be sure that your web service meets all the [webhook requirements](#) specific to the API version enabled in this agent.

Inline Editor (Powered by Google Cloud Functions)

ENABLED ☒

Build and manage fulfillment directly in Dialogflow via Cloud Functions. [Docs](#)

 Newly created cloud functions now use Node.js 10 as runtime engine. Check [migration guide](#) for more details.

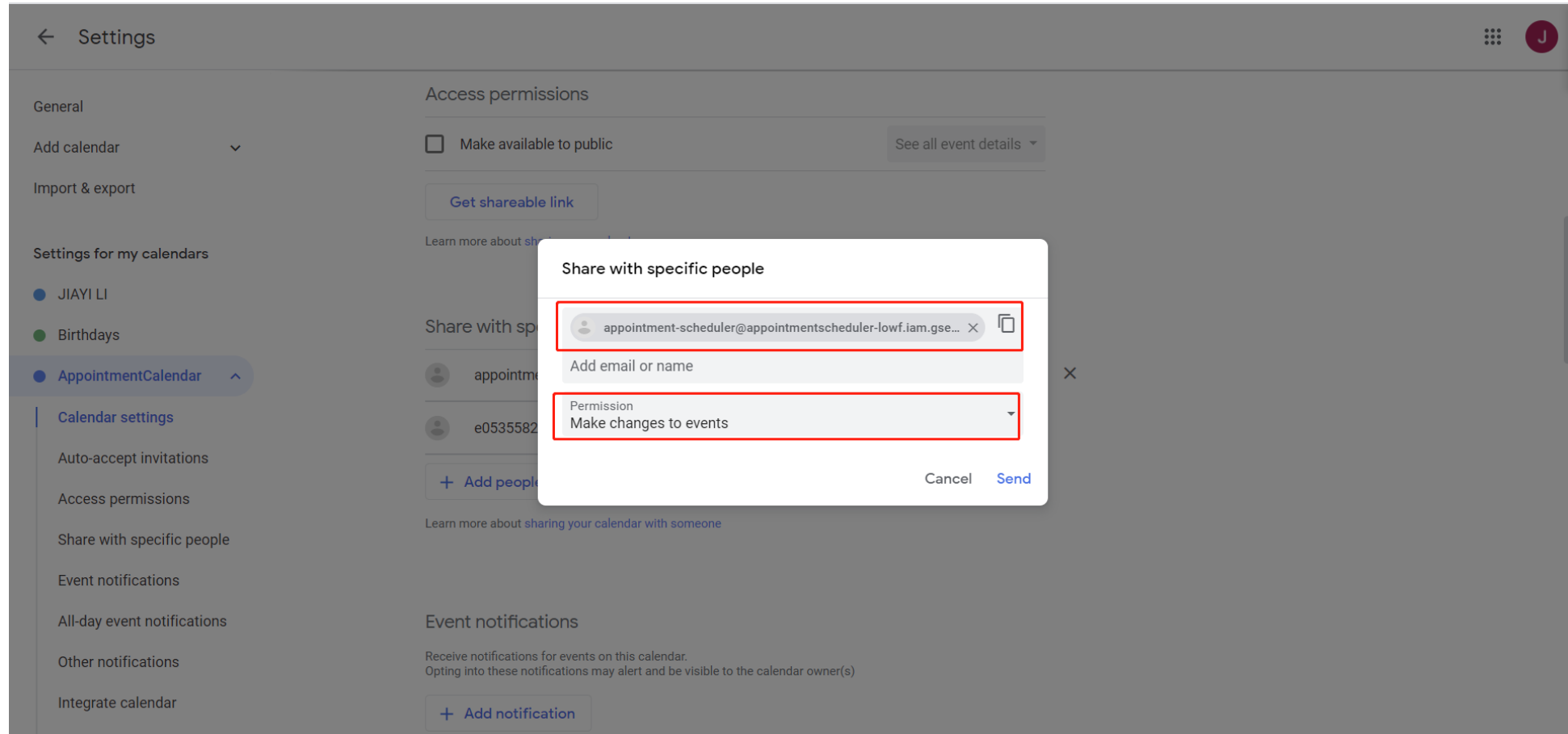
```
index.js  package.json
18
19 const functions = require('firebase-functions');
20 const {google} = require('googleapis');
21 const {WebhookClient} = require('dialogflow-fulfillment');
22
23 // Enter your calendar ID below and service account JSON below
24 const calendarId = "tq3sn06bm11khqnp33e985j83g@group.calendar.google.com";
25 const serviceAccount = {
26   "type": "service_account",
27   "project_id": "appointmentscheduler-lowf",
28   "private_key_id": "e648be1b05a2fc455ee1a4cb4a552e0a388be58c",
29   "private_key": "-----BEGIN PRIVATE KEY-----\nMIIEvQIBADANBgkqhkiG9w0BAQEFAASCBCwggSjAgEAAoIBAQC0vrdwSCjxlqFw\nH9S9Ra6IkuQwnoyaNVduKUYQUdY",
30   "client_email": "appointment-scheduler@appointmentscheduler-lowf.iam.gserviceaccount.com",
31   "client_id": "106980330018328476785",
32
```

[View execution logs in the Google Cloud Console](#)

Last deployed on 09/24/2020 17:16

DEPLOY

In the upper part
Paste(appointment-scheduler@appointmentscheduler-lowf.iam.gserviceaccount.com)
and then Select the Permission as **Make changes events**.



The setting **results** are as bellow, which means you have already link the Google Project to your own calendar. And then you can use the Services and arrange the appointment on your own calendar by chatting with the chatbot.

Auto-accept invitations

Automatically add all invitations to this calendar ▾

Calendars for resources can auto-accept invitations. [Learn more about auto-accept invitations](#)

Access permissions

☐ Make available to public

See all event details ▾

[Get shareable link](#)

Learn more about [sharing your calendar](#)

Share with specific people



appointment-scheduler@appointmentscheduler-lowf.iam....

Make changes to events ▾



hocdyye19@gmail.com

Make changes and manage sharing ▾

[+ Add people](#)

Learn more about [sharing your calendar with someone](#)

5. Launch the System

Access *localhost:8080* using your browser, you will see the system's homepage



In the below part of the homepage is our car recommendation part, you can chat with the chatbot and the AI chatbot will help you choose car.

CarsAI Chatbot

CarsAI

POWERED BY Dialogflow

Do you mind the fuel consumption problem?


no

Great! I've have a clear picture of your desirable car.

Ask something...

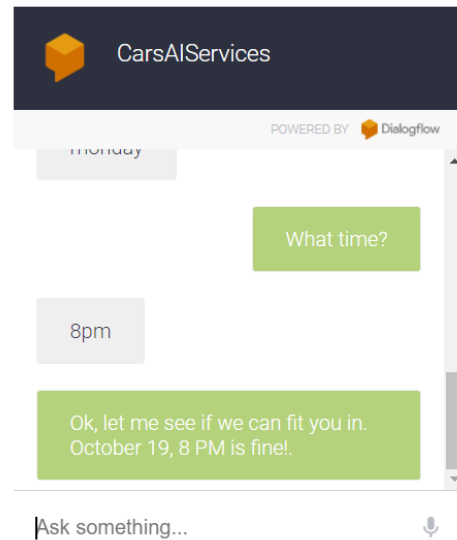
Show Result

Audi S6 2020 S6 2.9 T



price/RMB	intake	displacement	drive	power	engine	curise
930000	Twin turbo	2.9	Front all-wheel-drive	-	2.9 T 450 horsepower V6	Adaptive cruise at full speed

Users can make car service reservations by entering the other services section



Vehicle Registration

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud.

Car Maintenance

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud.

Car Repairing

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud.

Users can access the answers for frequently asked questions by chatting with the **FAQs agent**

AudiCarsAI

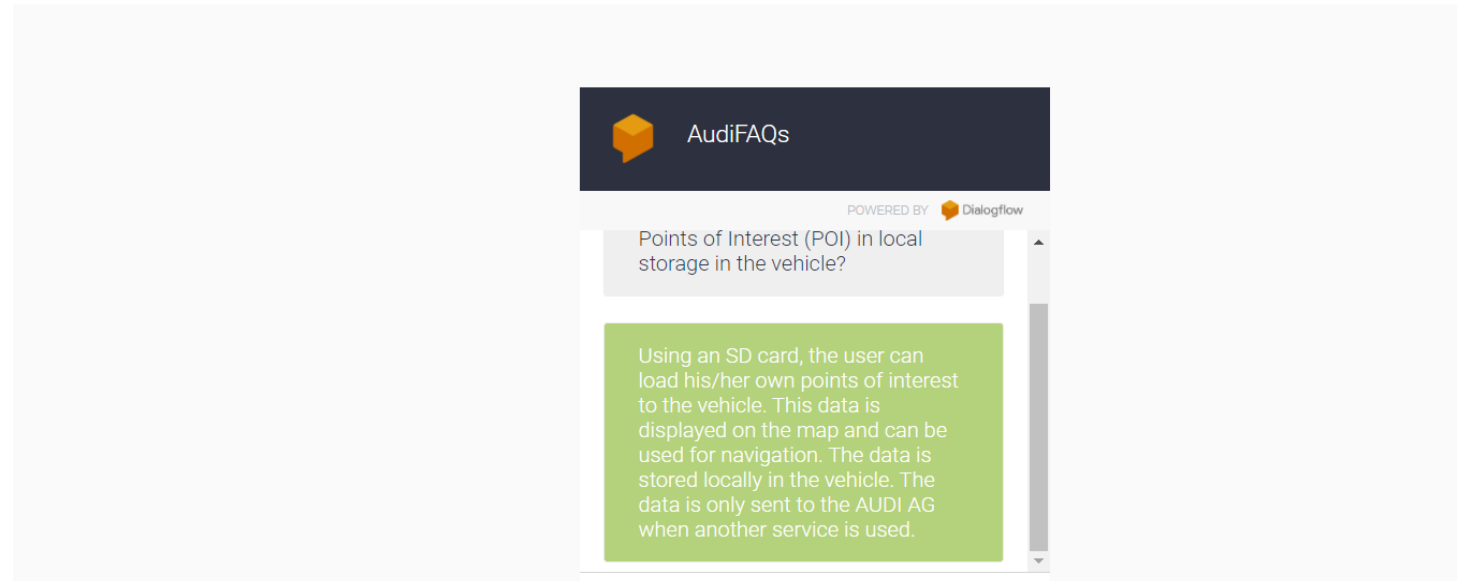
[Home](#)

[Other Services](#)

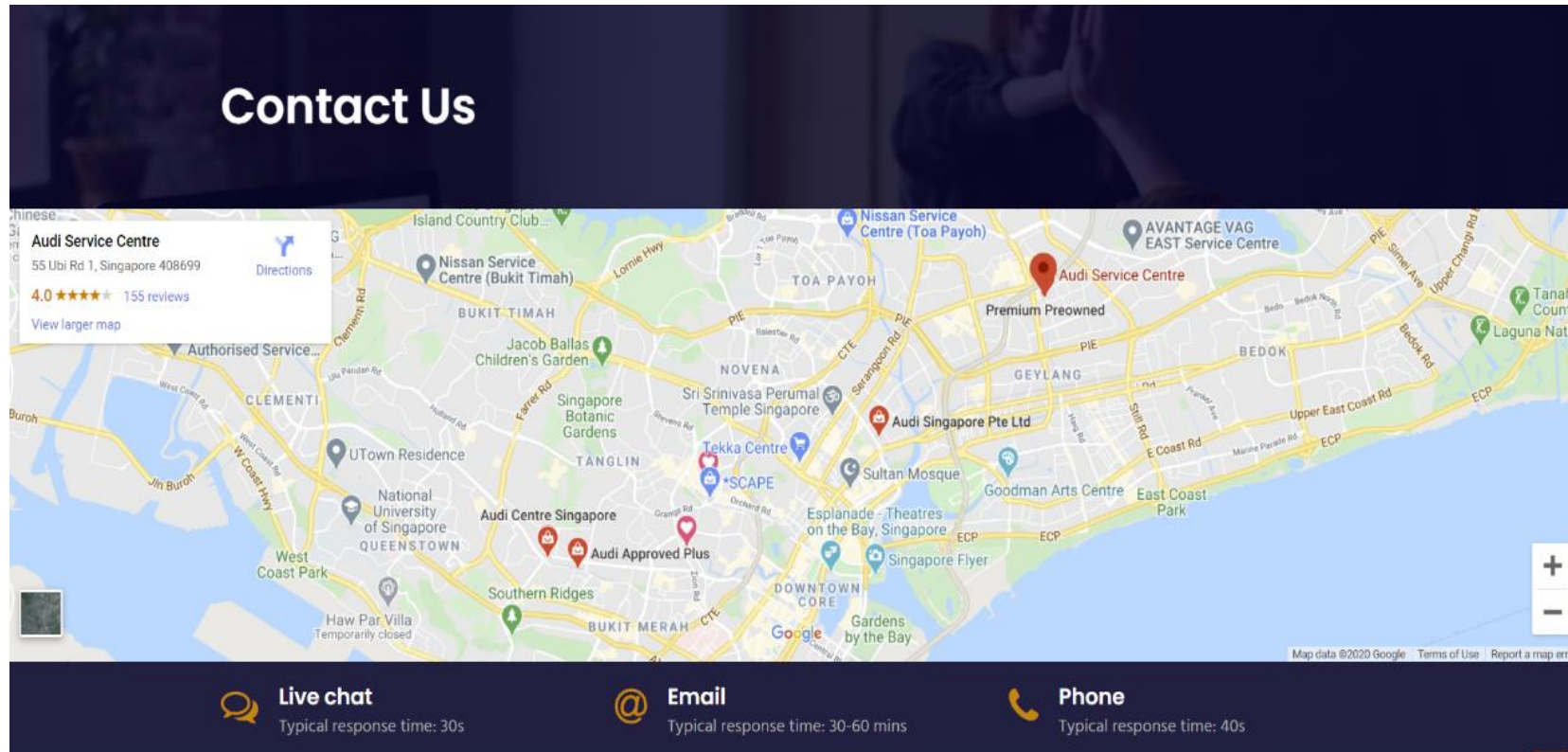
[FAQs](#)

[Contact](#)

FAQs



Users can get locations and routes of nearby **Audi Service Centre** using the map



Scan QRcode to deploy System Chatbot on “Line” app

LINE Developers Products Documents API reference News FAQ Community Blog

Console home TOP > NUS-ISS > AudifAQs > Messaging API

Providers Basic settings **Messaging API** Lift Security Statistics Roles

Search...

Admin


NUS-ISS

Messaging API settings

Bot information

Bot basic ID @320nsmki

QR code



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Console home TOP > NUS-ISS > Cars > Messaging API

Providers Basic settings **Messaging API** Lift Security Statistics Roles

Search...

Admin


NUS-ISS

Messaging API settings

Bot information

Bot basic ID @920lvdob

QR code

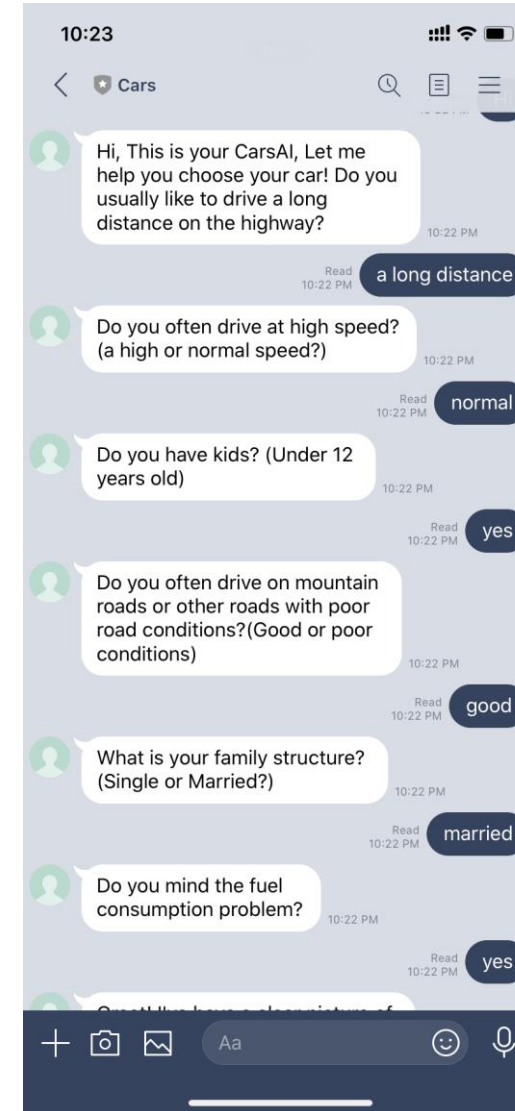
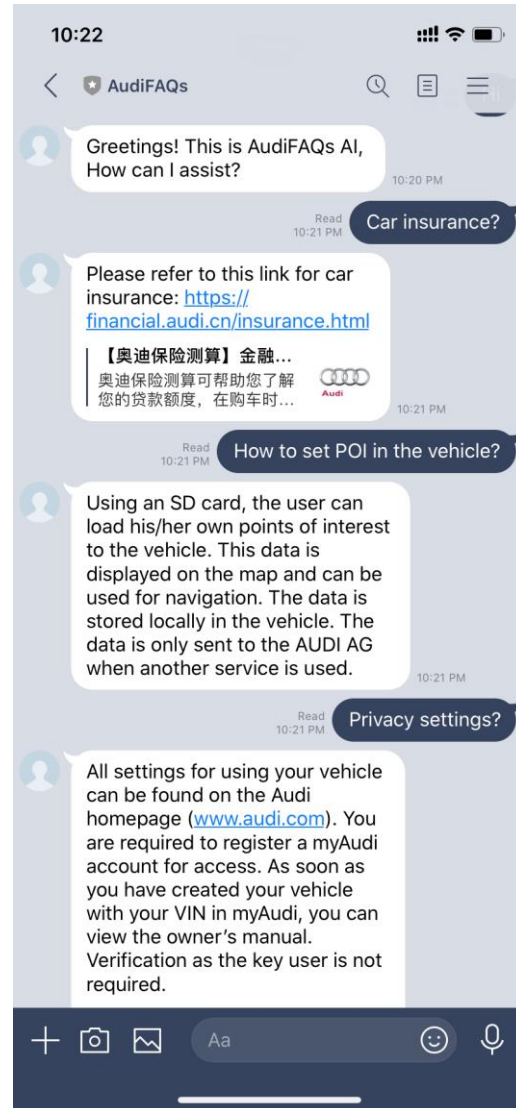


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More intuitive UI which developed in Line are as follows



Thank you!