CarsAI System
User Guide

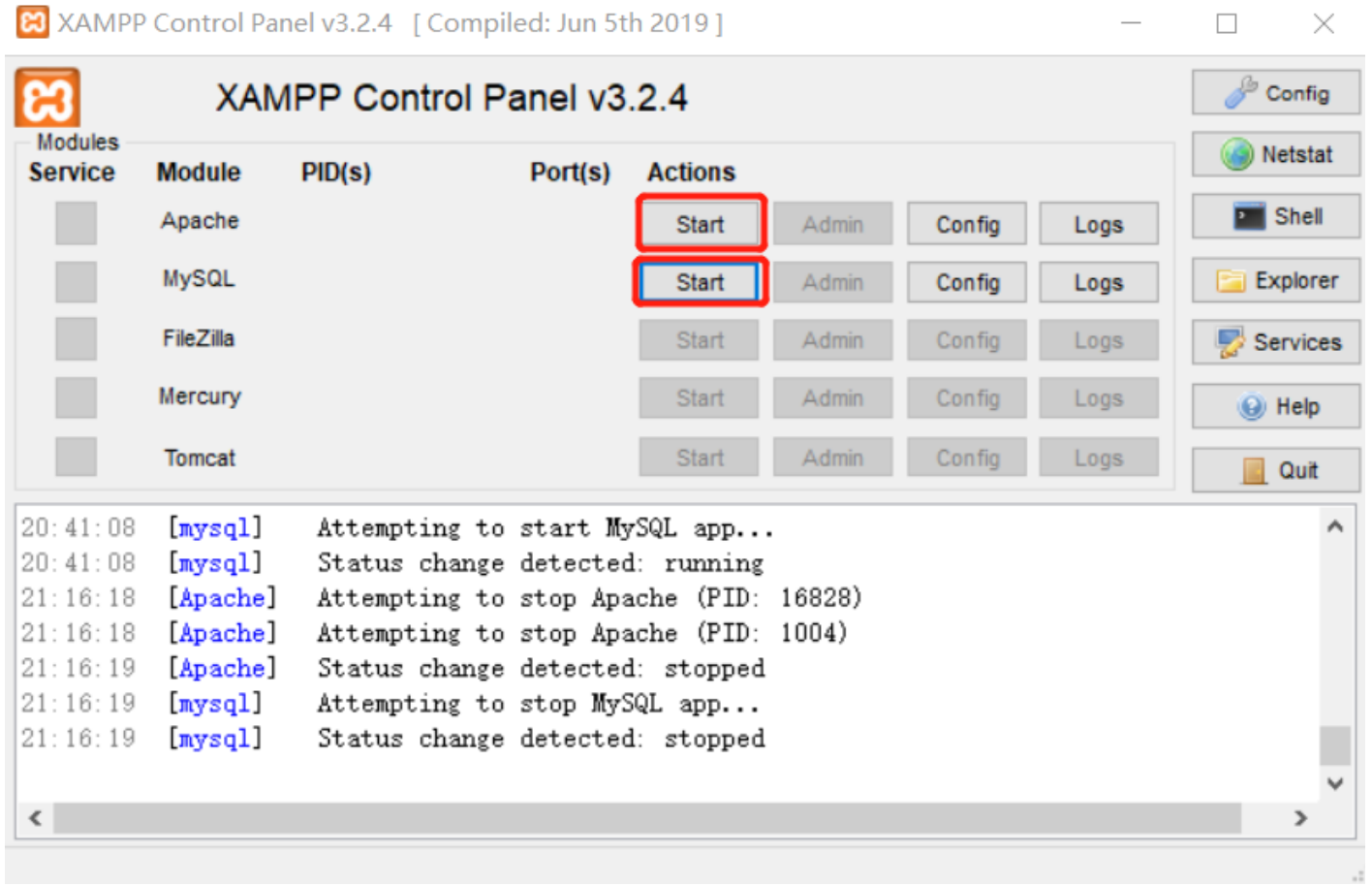
The system is deployed on Windows.

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

1. Setting up the environment

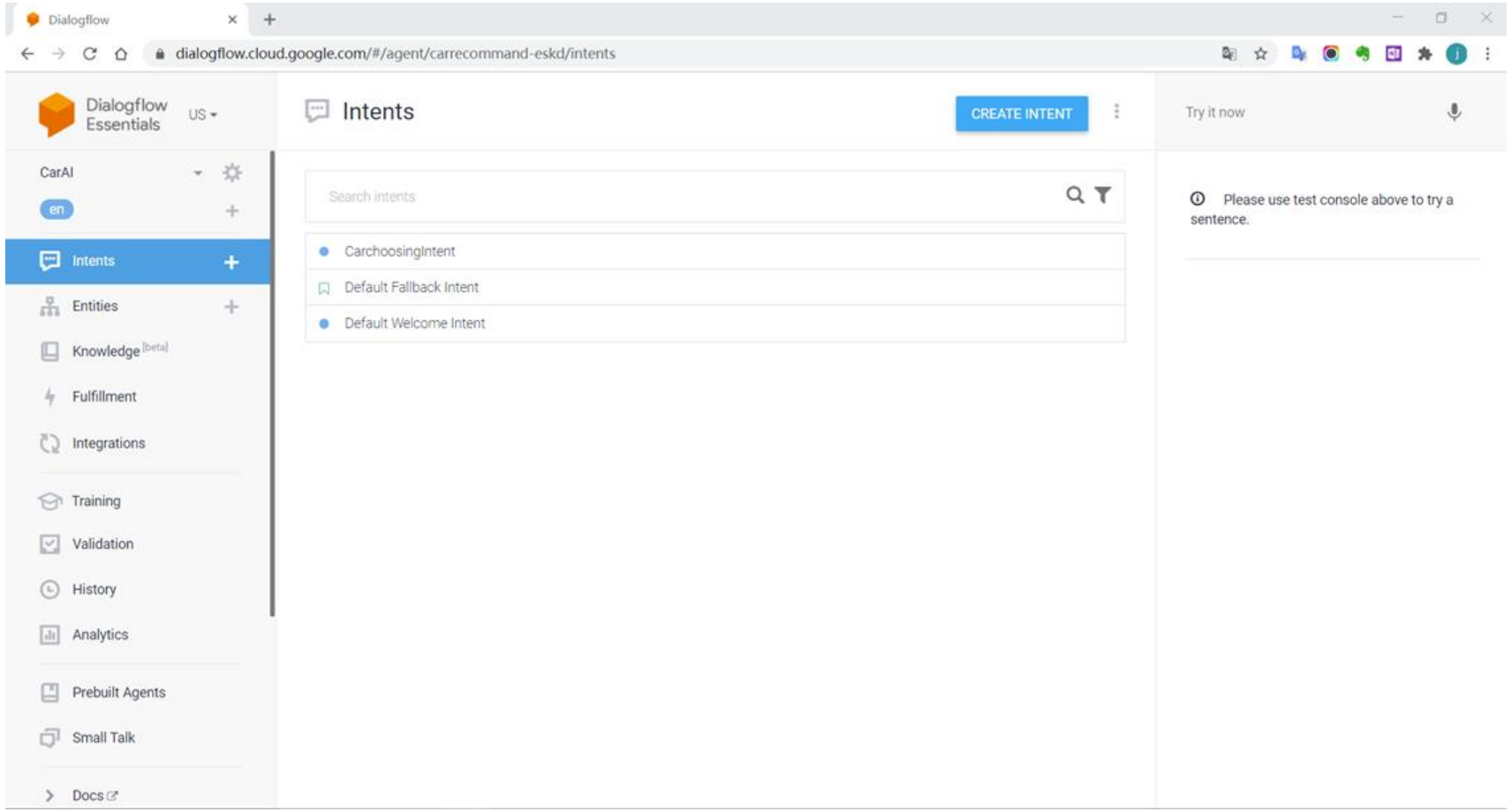
- Make sure you have MySQL, Node.js, Python, XAMPP, npm and ngrok installed in your PC
- In windows CMD execute: $pip install pandas sklearn
- cd to “SystemCode” folder
- In windows CMD execute: $npm install npm node popper express jquery mysql bootstrap body-parser pm2 art-template express-art-template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

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

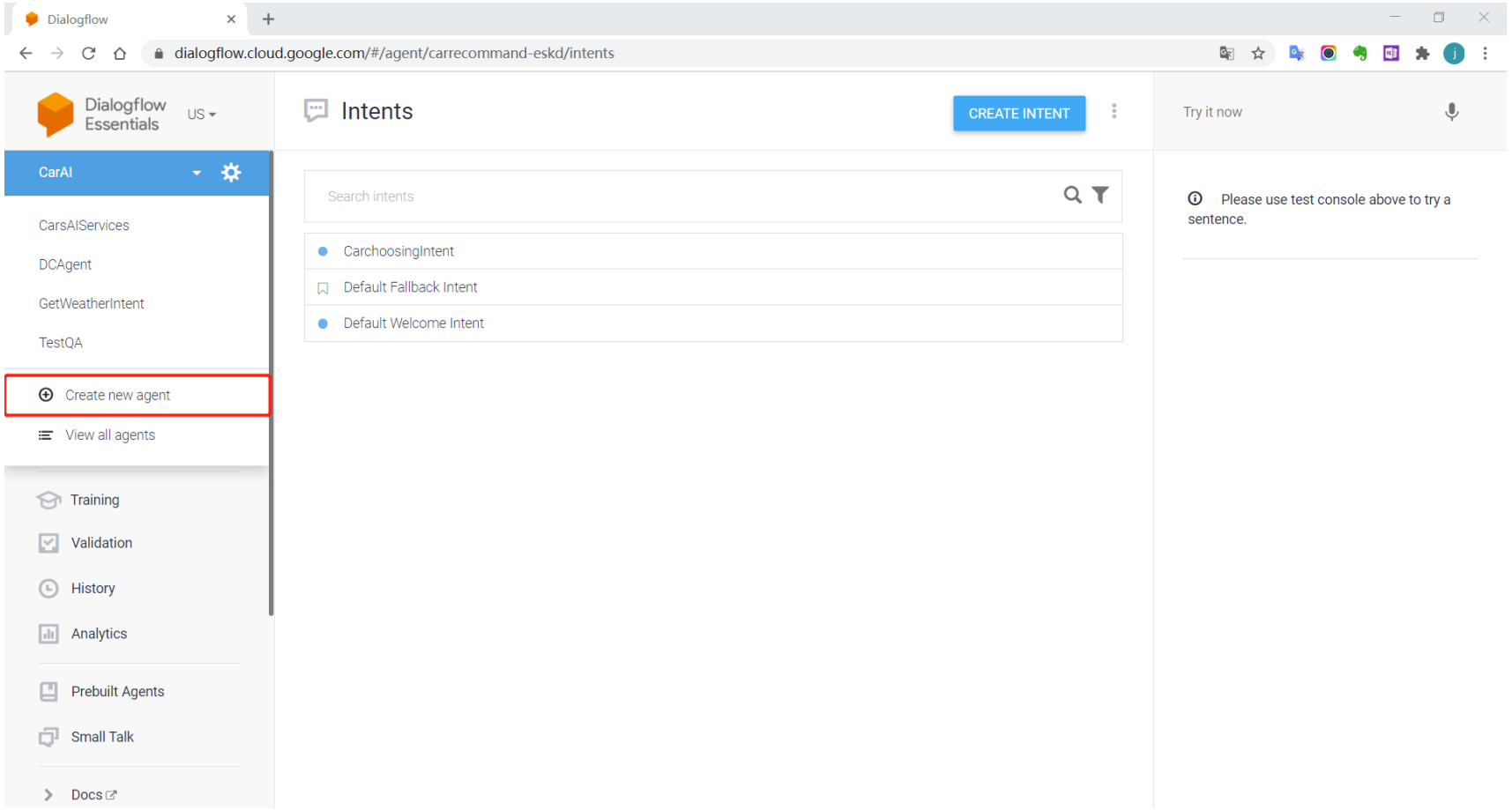


2. Setting up Google Dialogflow

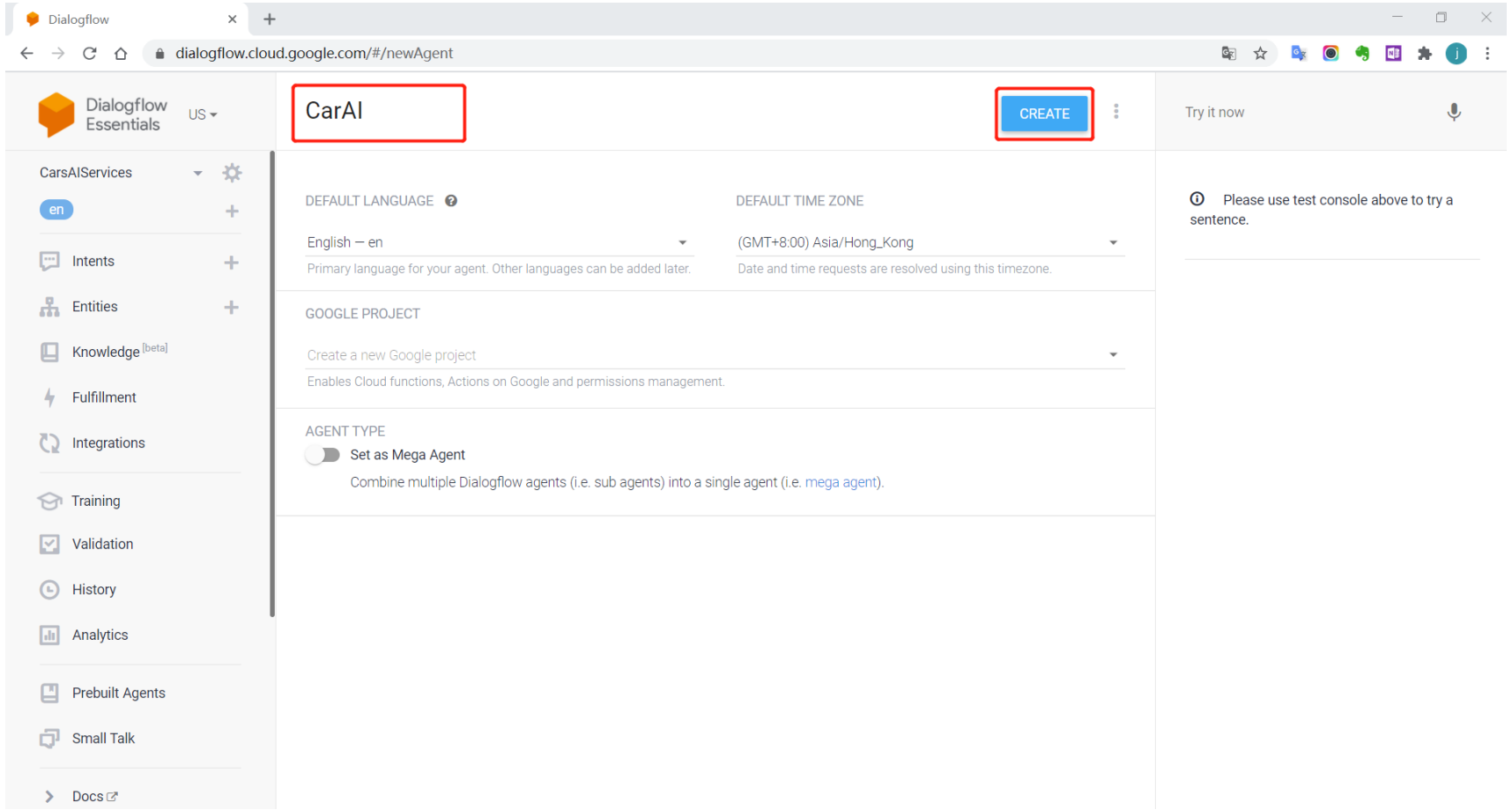
Go to **https://dialogflow.cloud.google.com**



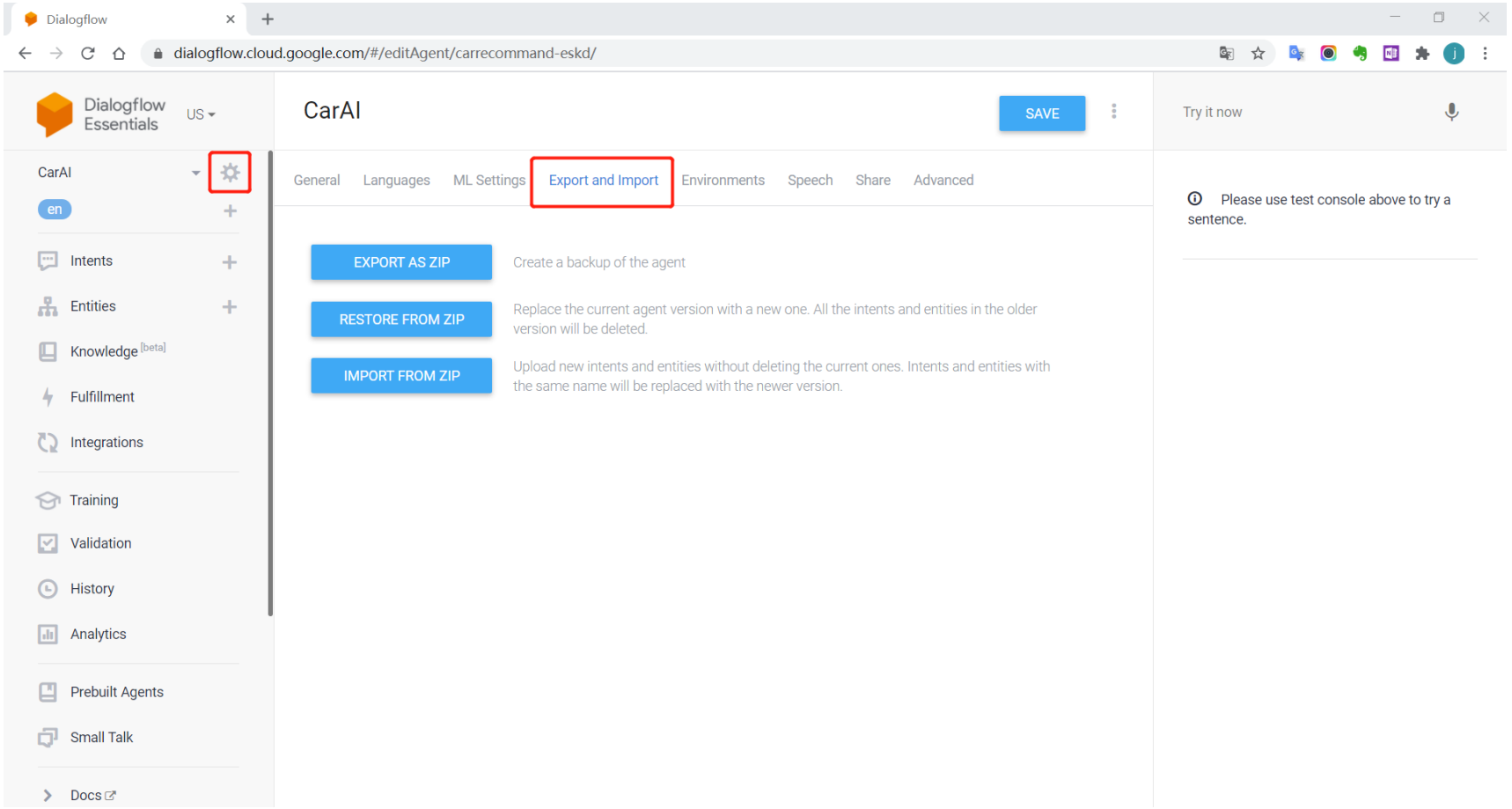
Create a new agent



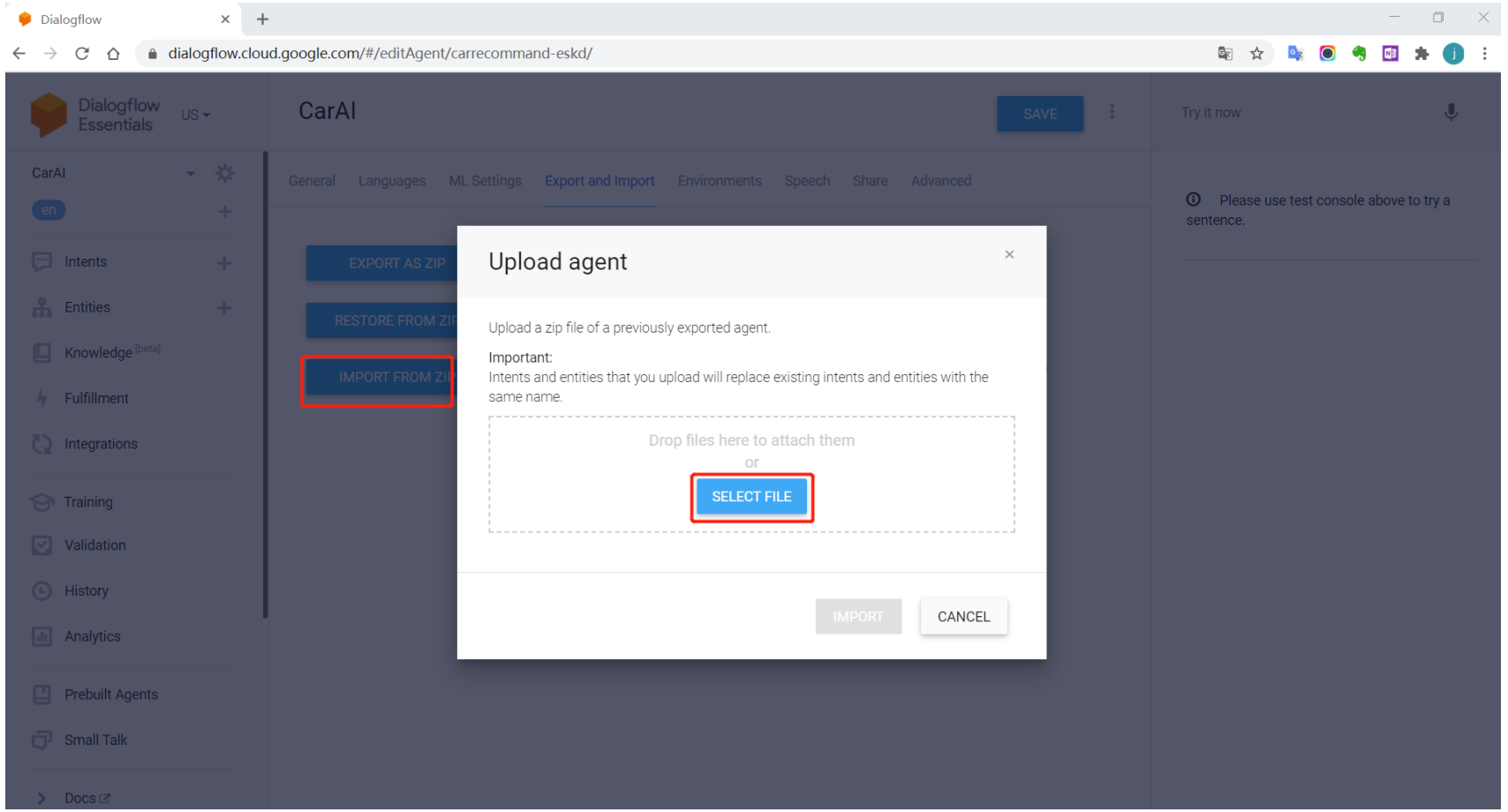
Type the name of the agent and click **CREATE**



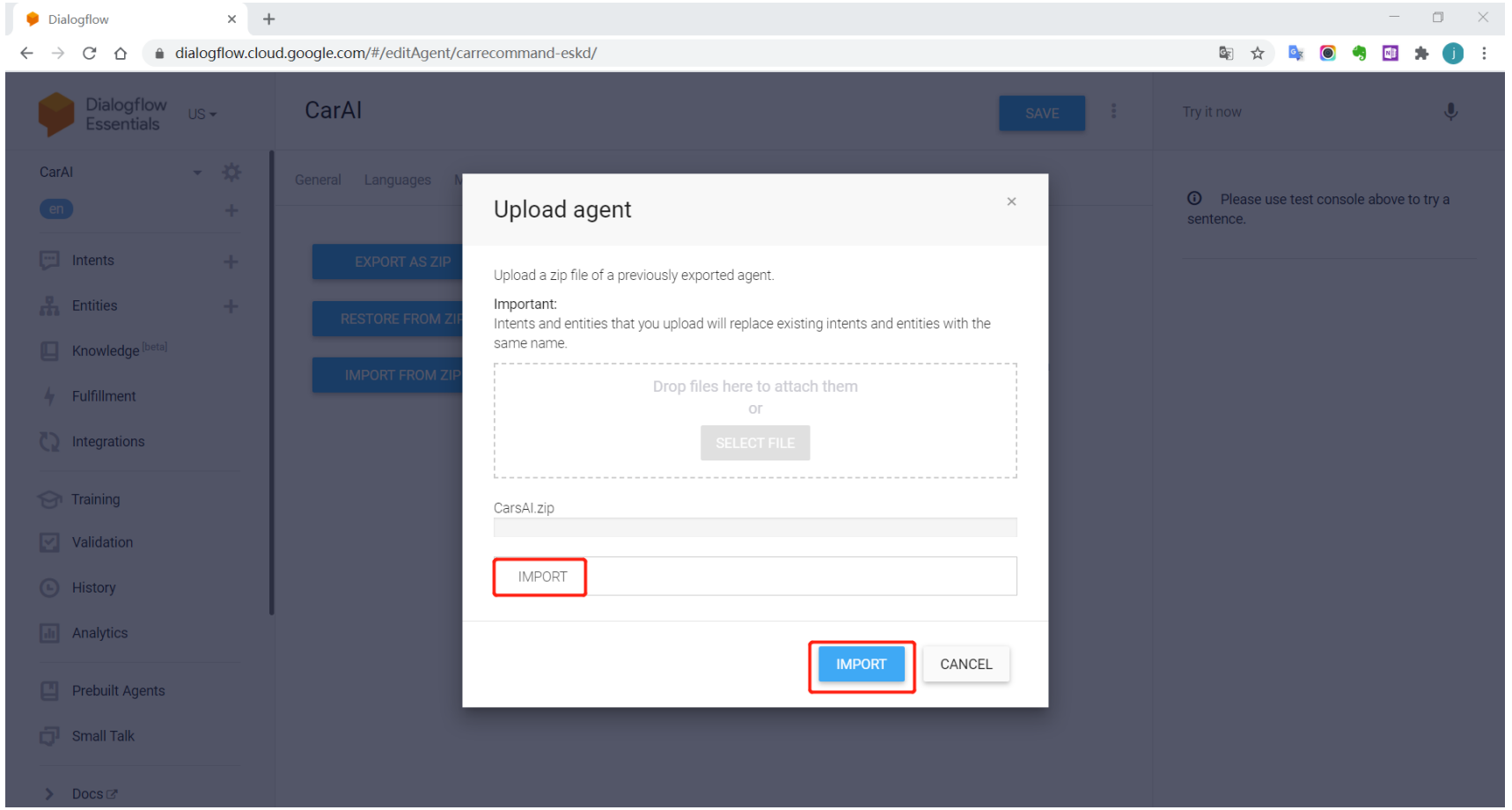
Click the **setting** button and then click **Export and Import**



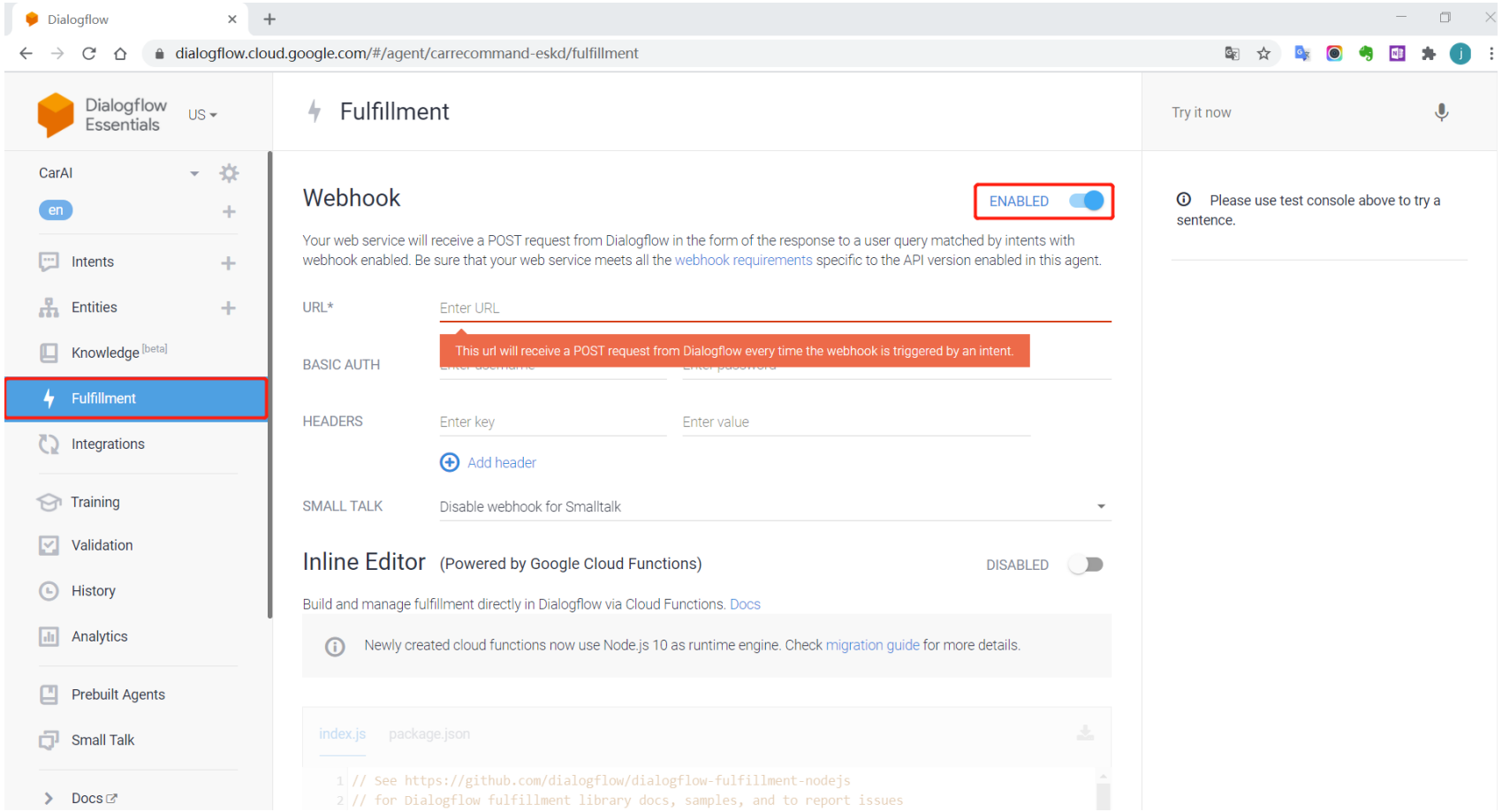
Click **IMPORT FROM ZIP** and click **SELECT FILE**, select the file **CarsAI.zip**
(the file is under SystemCode folder)



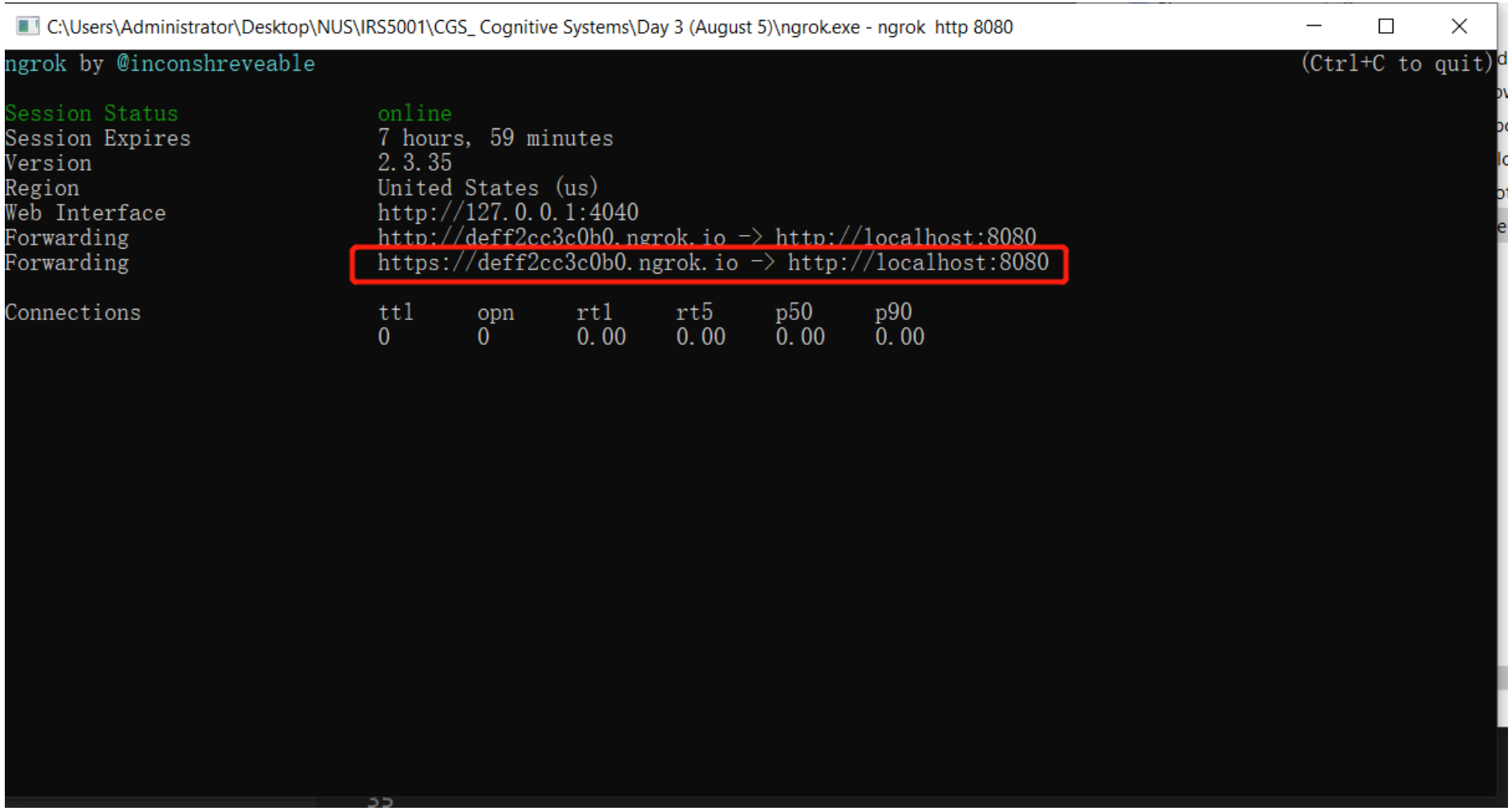
After uploading, type **IMPORT** in the blank and click **IMPORT**



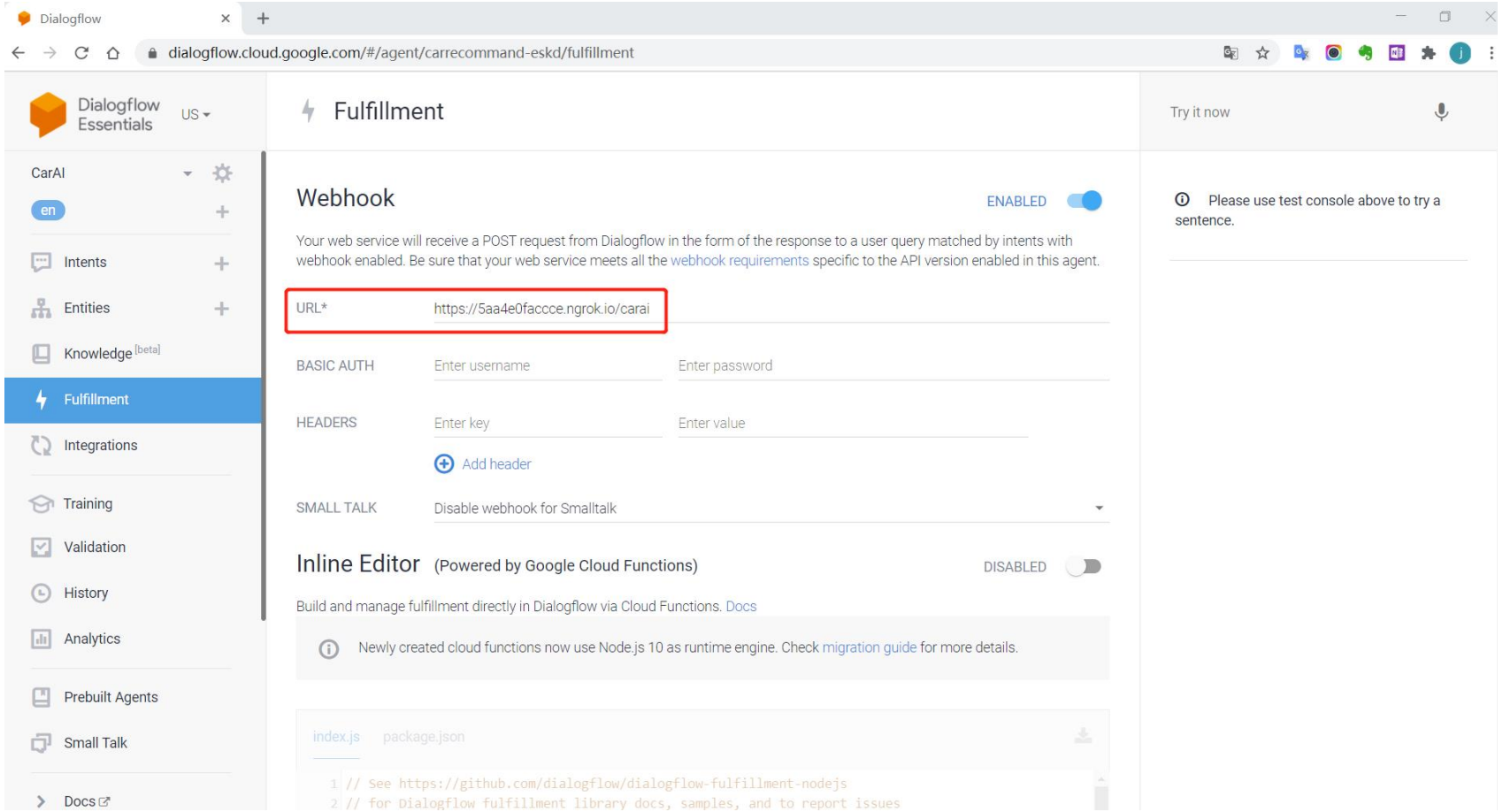
Go to **Fulfillment** on the left side and **ENABLED** the Webhook



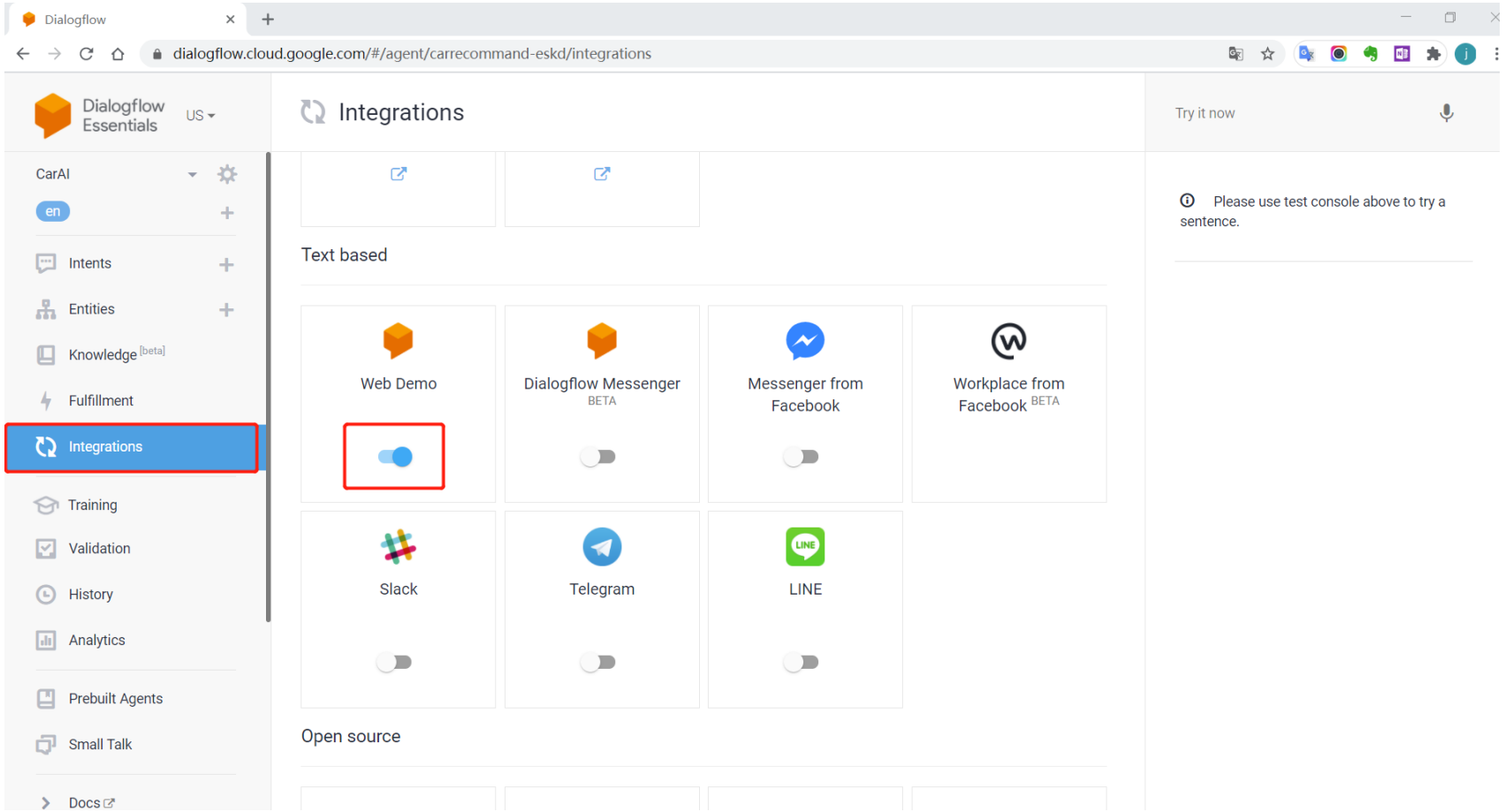
Download **ngrok.exe** from ngrok.com
start ngrok.exe
execute: $ngrok http 8080



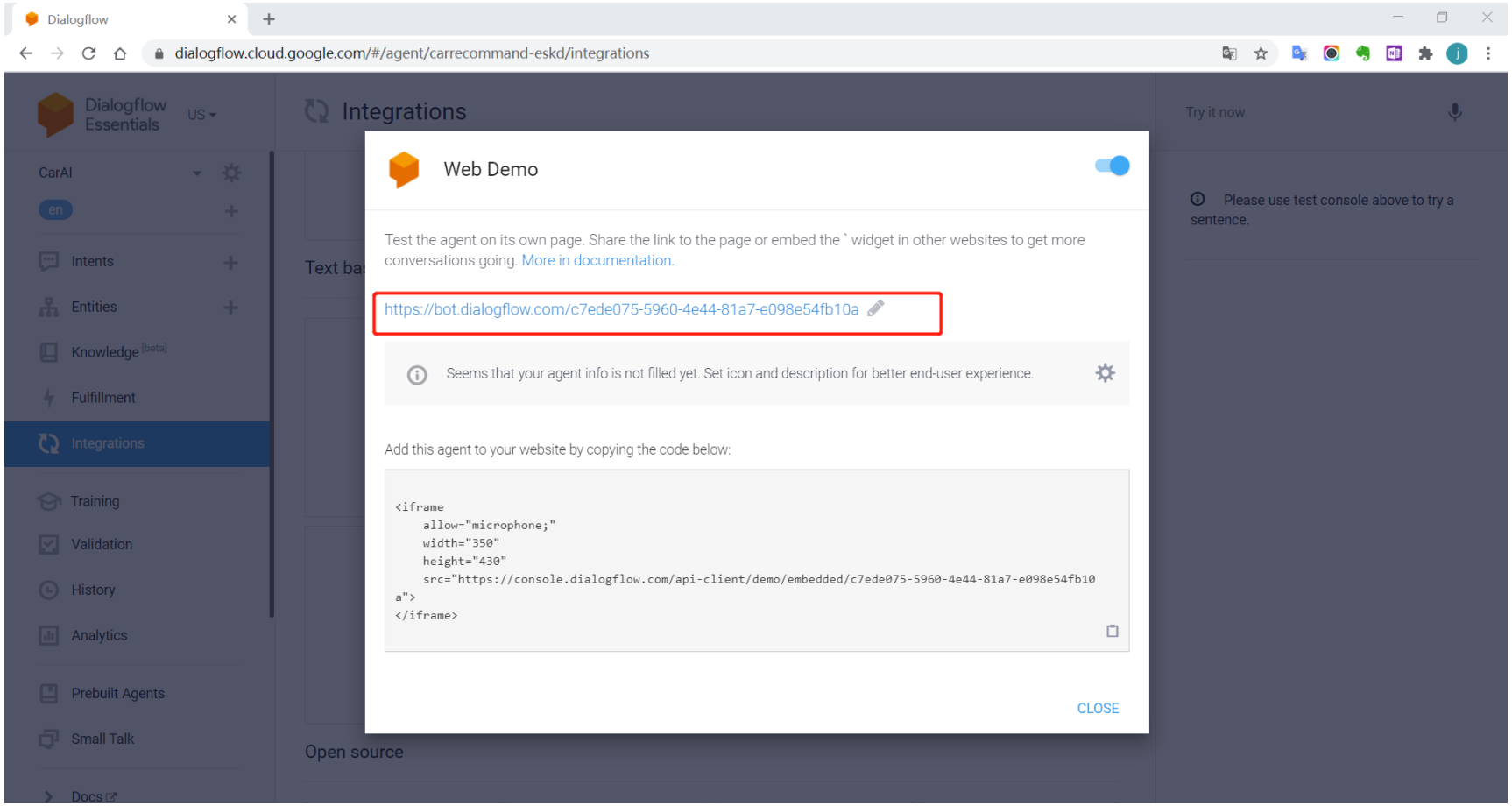
Paste the address to the blank **URL*** follow with **/carai**.
Save the fulfillment.



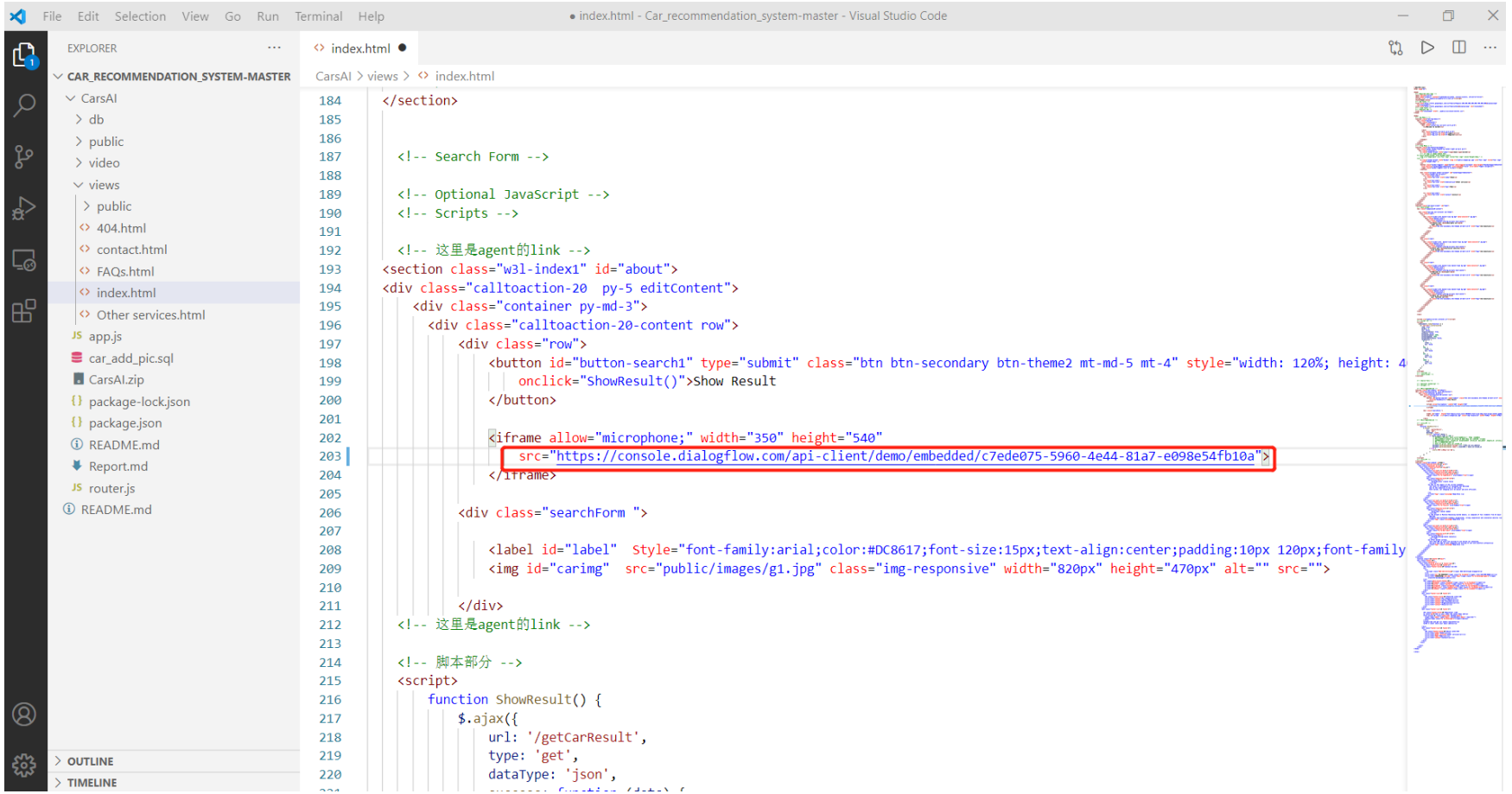
Go to **Integrations** on the left side and enable **Web Demo**



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

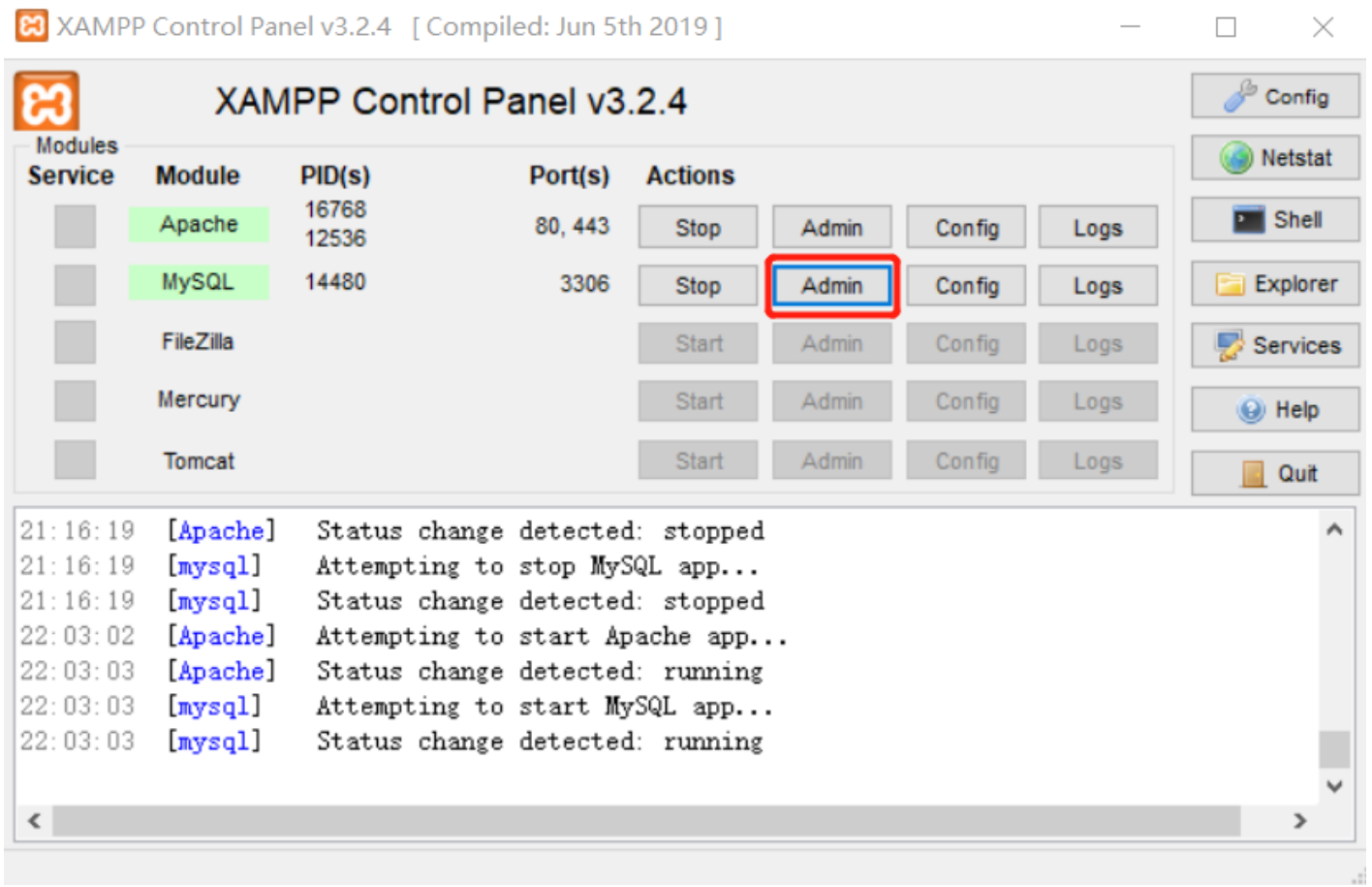


Open the file **views/index.html** with any code editor.
Replace the **url** in agent part with the **url** you copied from **Web Demo**.
And then save the file.

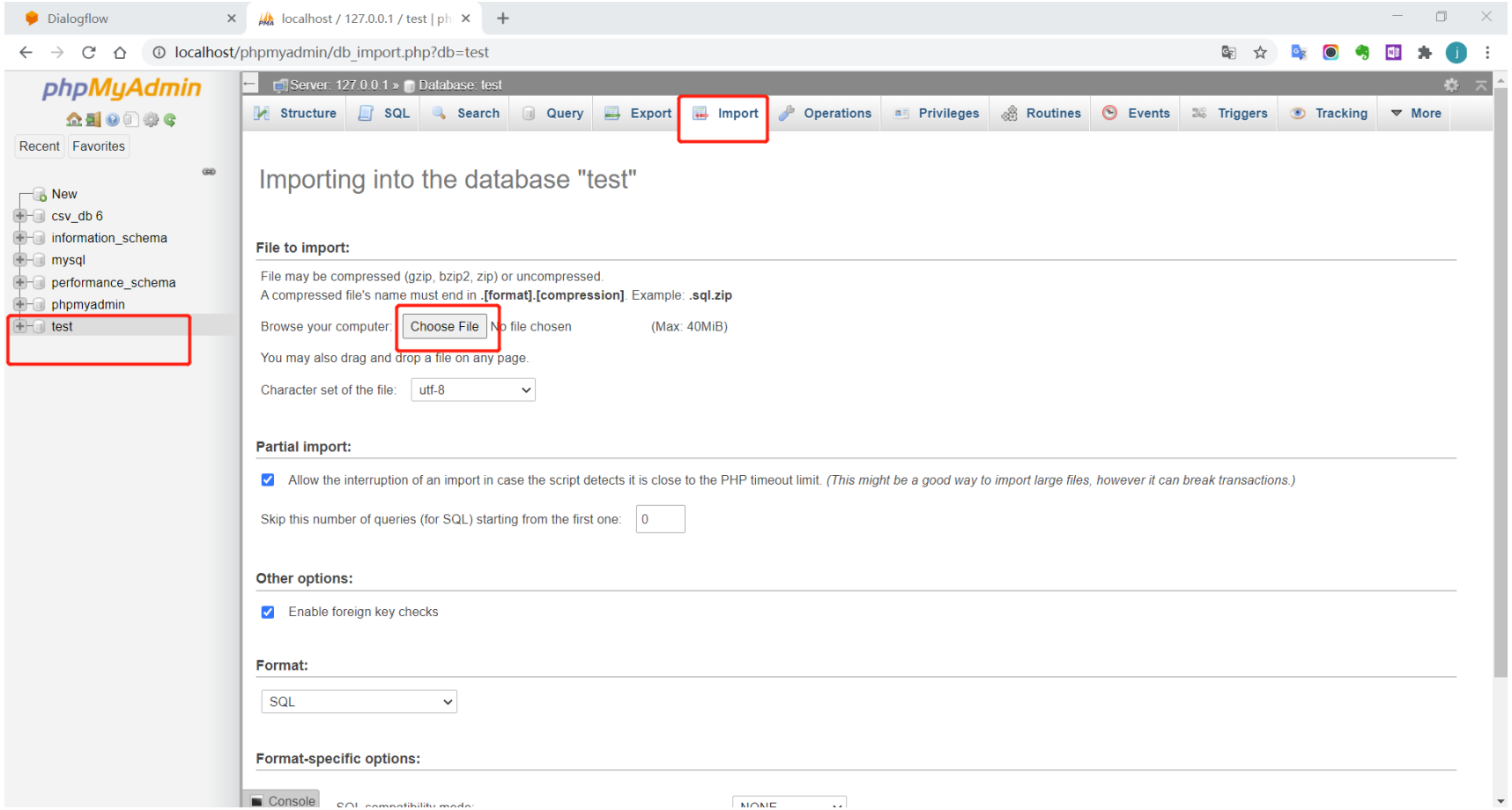


3. Import Database

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

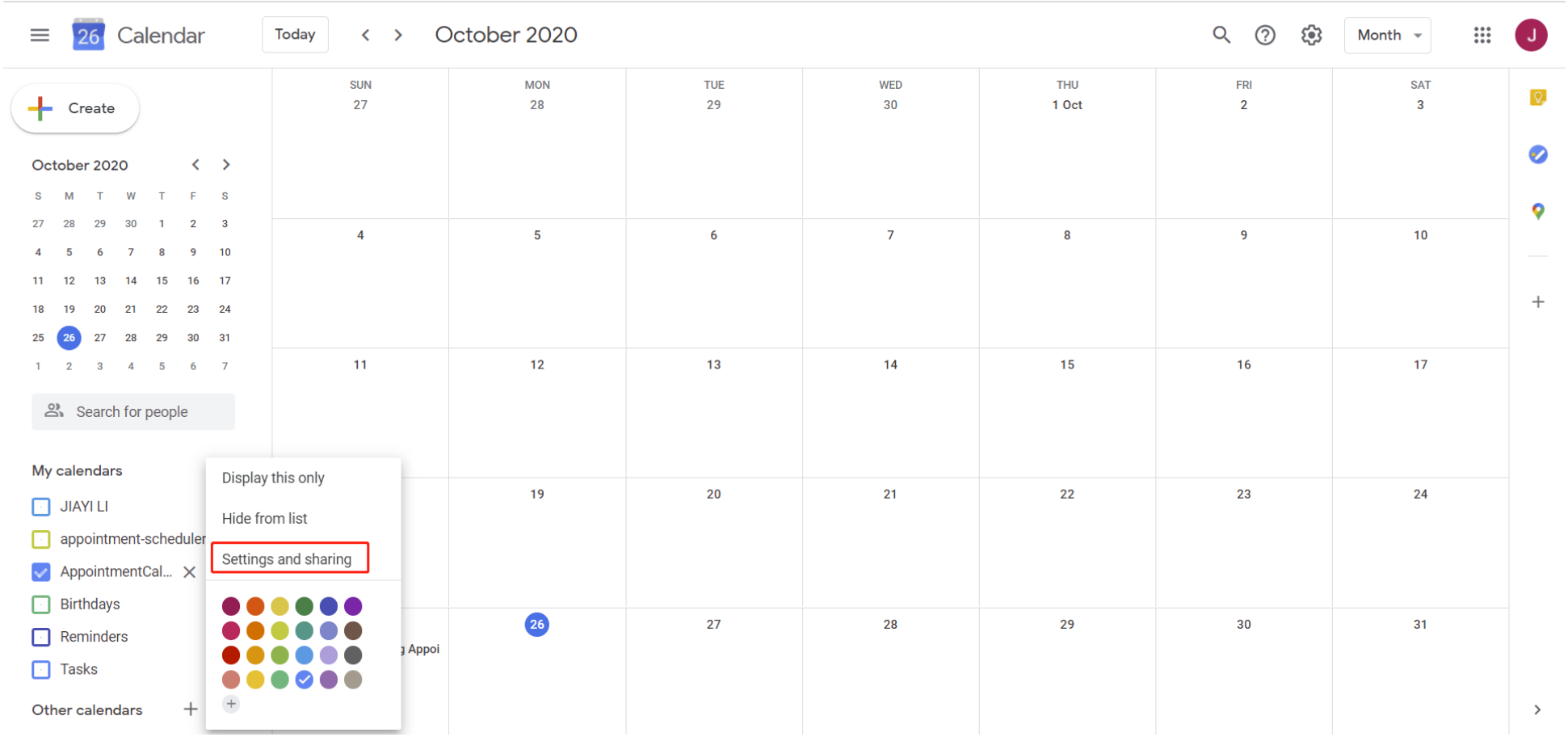


Choose **test** database on the left, and then click on **Import.**
Then click **Choose File** to import **CarDB.sql** (the file is under SystemCode folder)

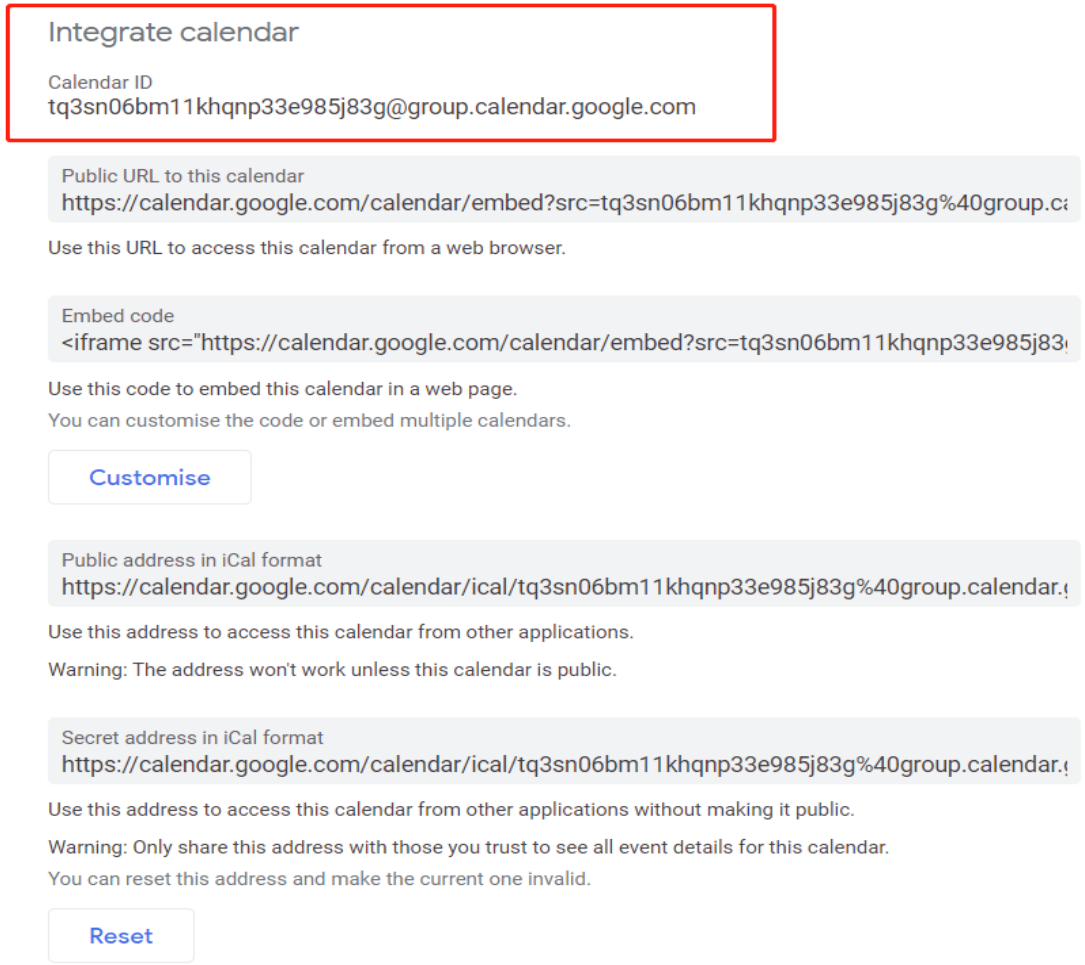


4. Google Calendar API Setting

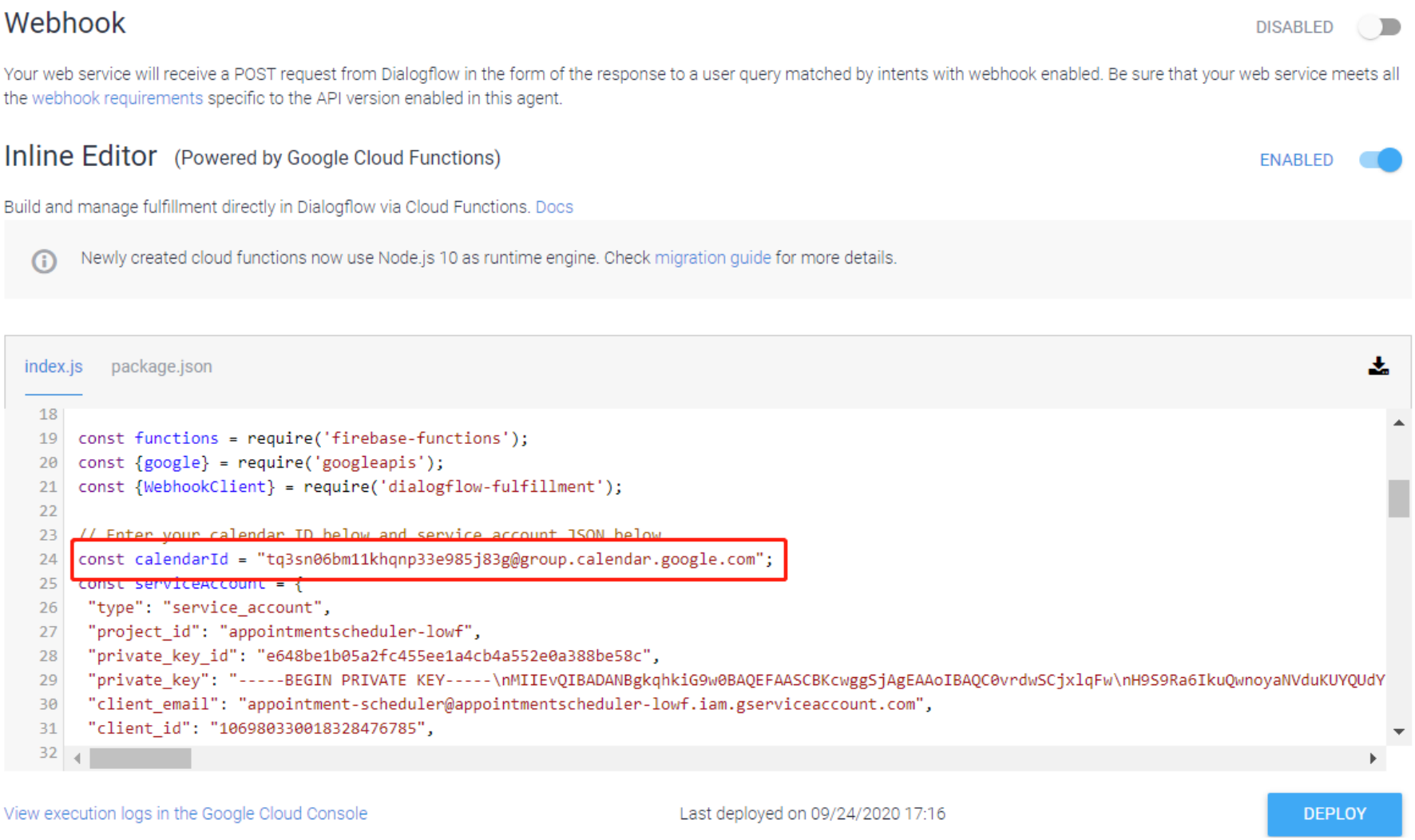
Open the **settings menu** of **Google Calendar** and copy the **Calendar ID**



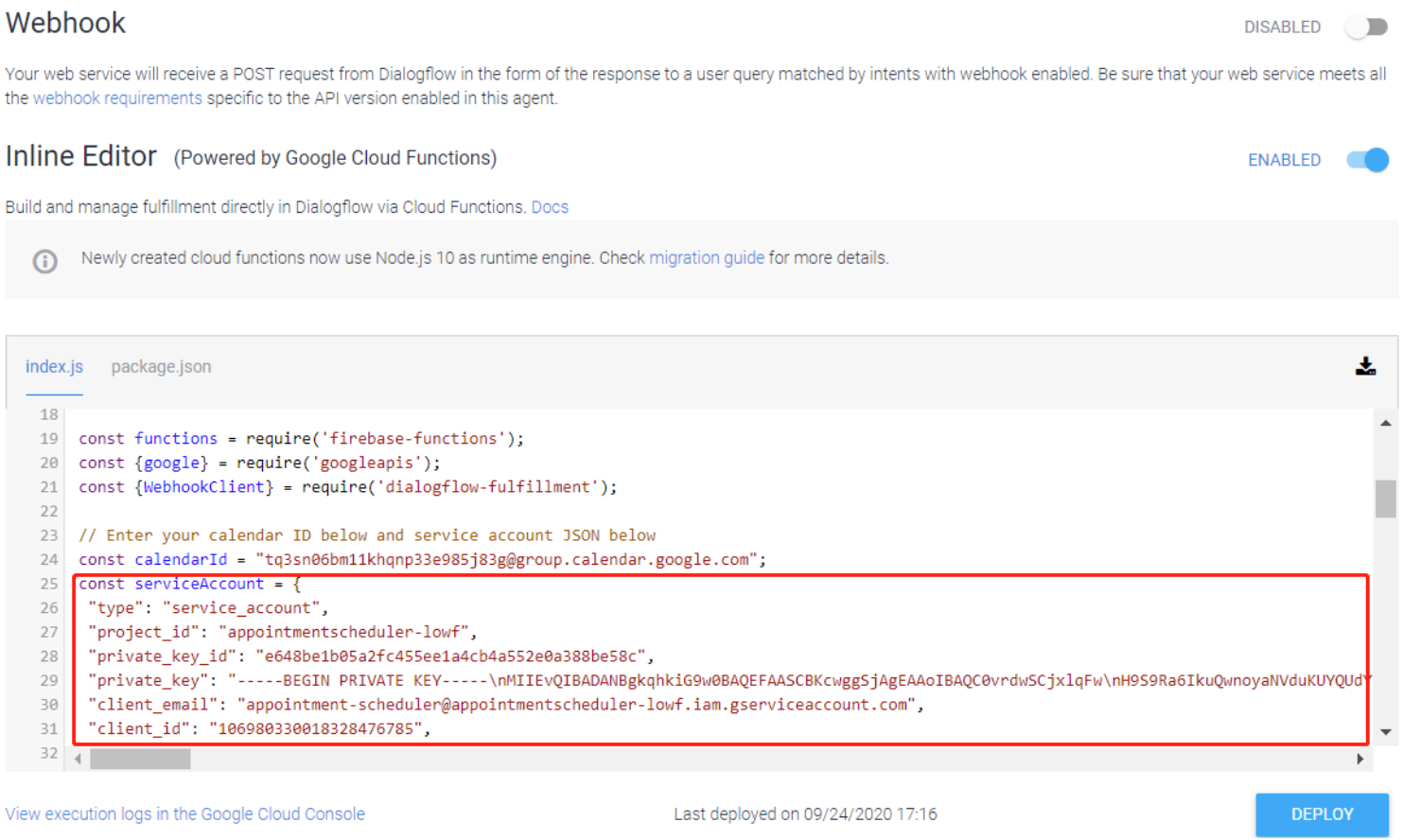
Open the **settings menu** of **Google Calendar** and copy the **Calendar ID**



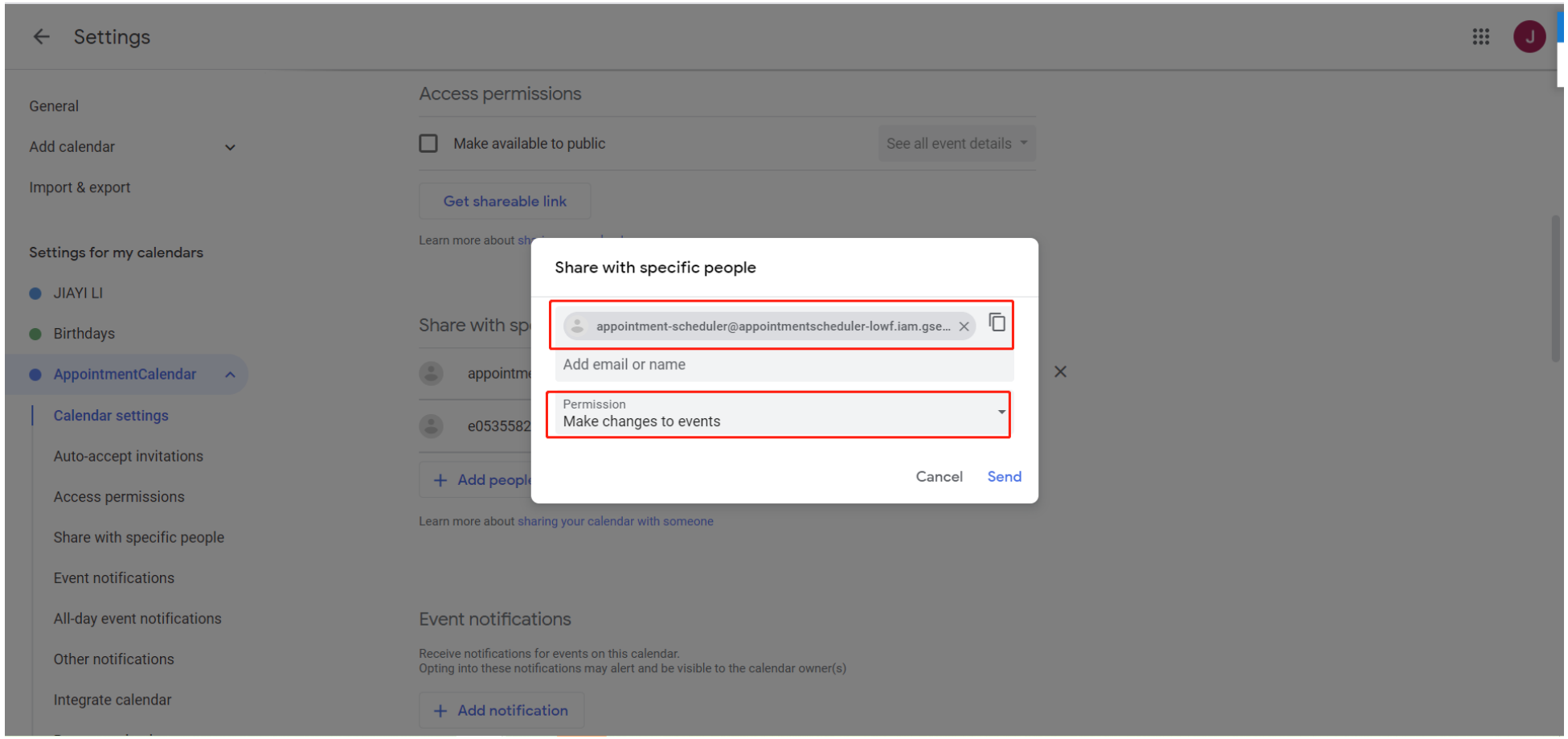
Back to **Google Dialogflow**
Select **“CarAI” agent** that you just create
Enable the **Inline Editor** in **fulfillment**, modify the “**calendarId**” using your own ID



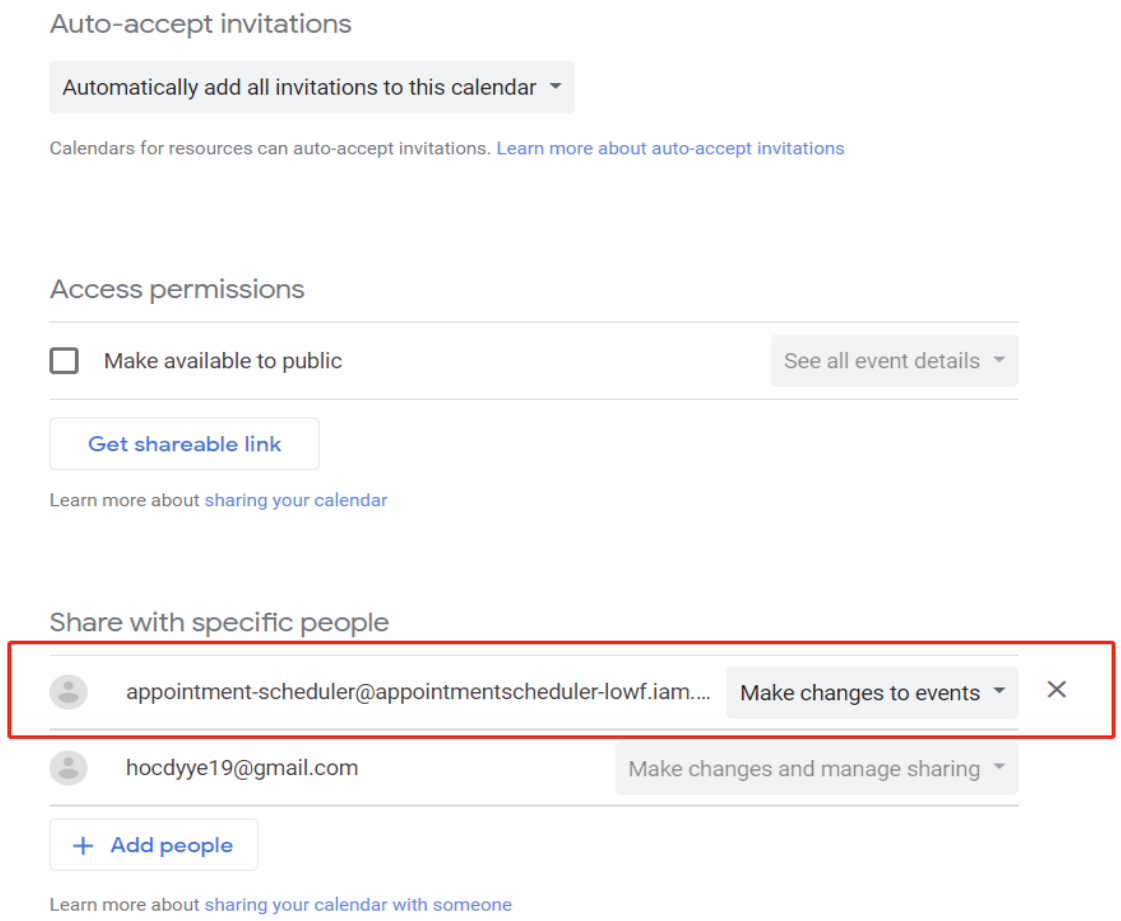
Replace all the information in the **serviceAccount** part with the json file information in the Miscellaneous folder. The file name is **appointmentscheduler-lowf-e648be1b05a2.json.**



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.

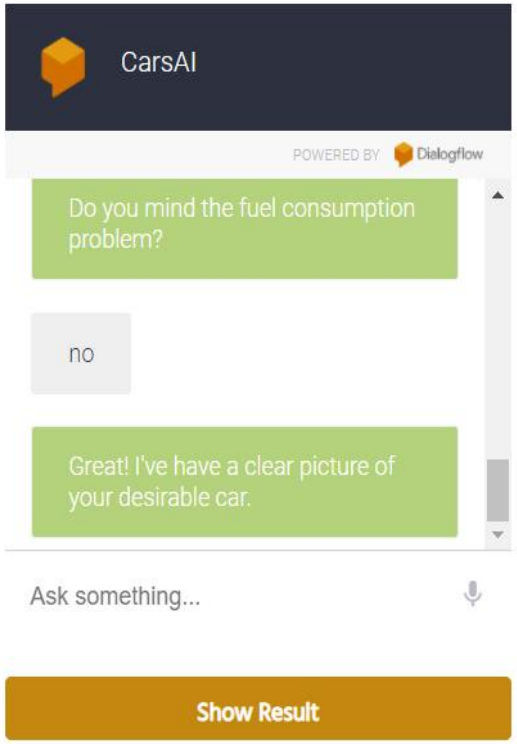


5. Launch the System

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.

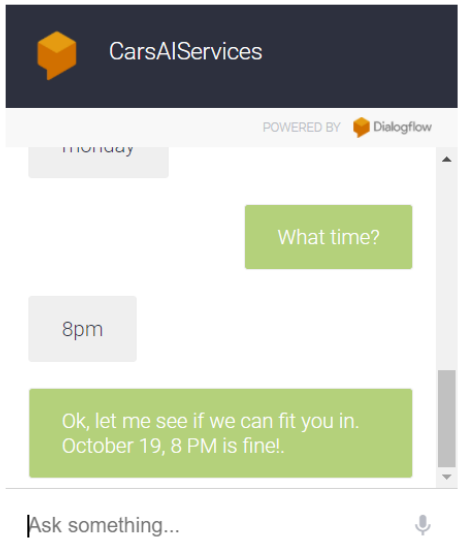
CarsAI Chatbot



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 adipisicingelit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud.

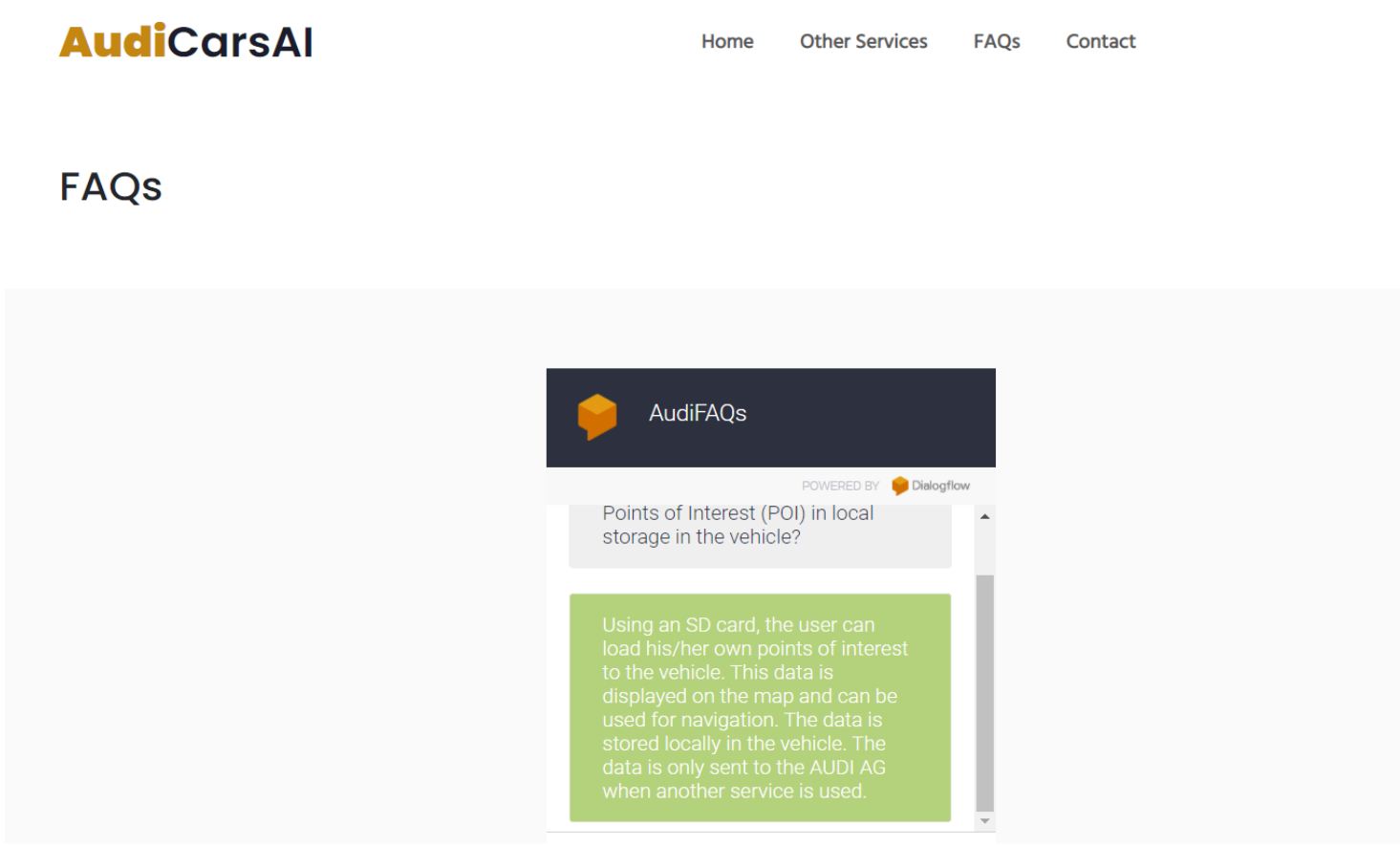
Car Maintenance

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

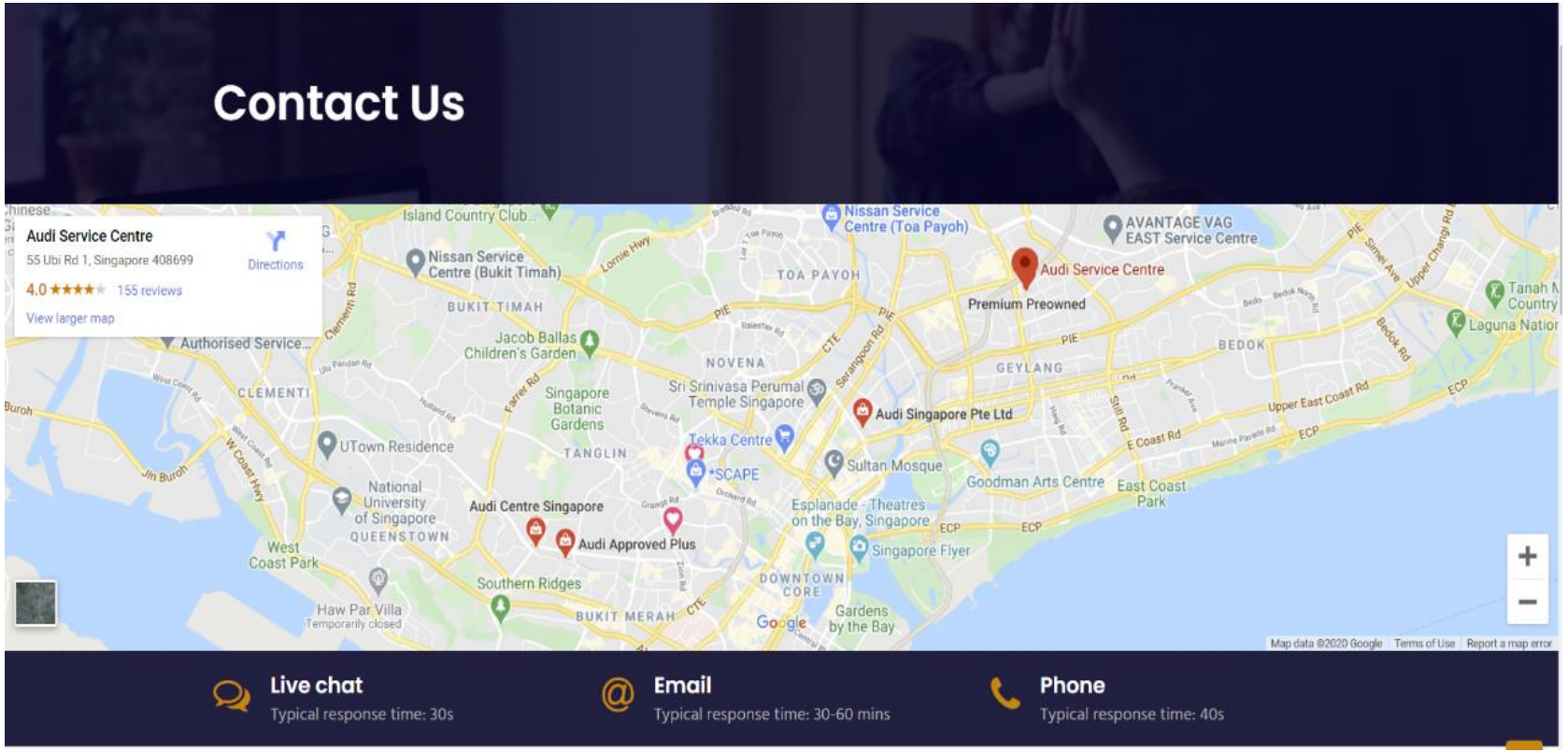
Car Repairing

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

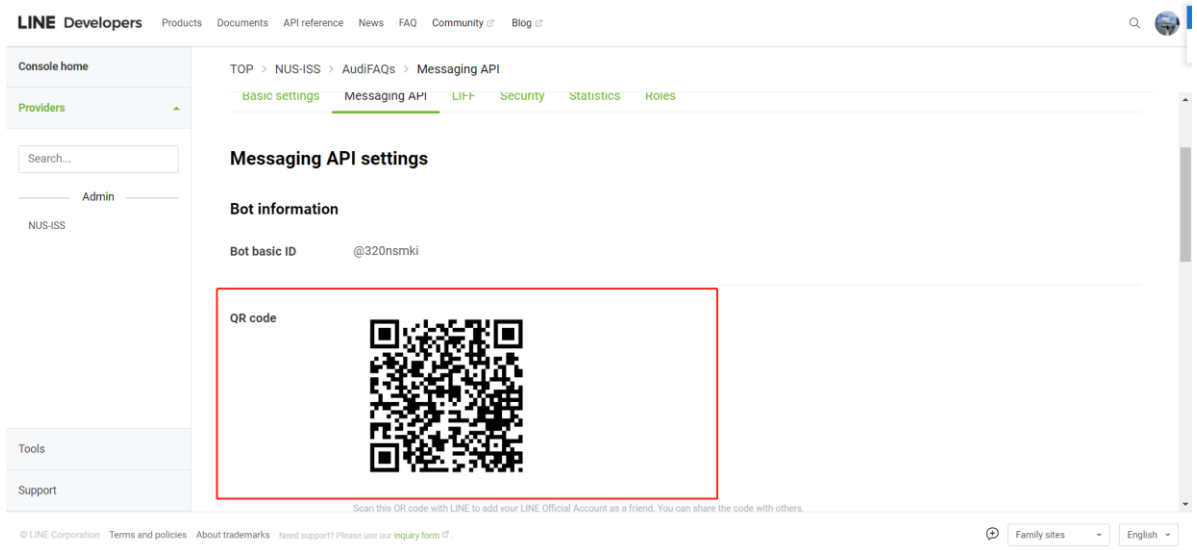
Users can access the answers for frequently asked questions by chatting with the **FAQs agent**

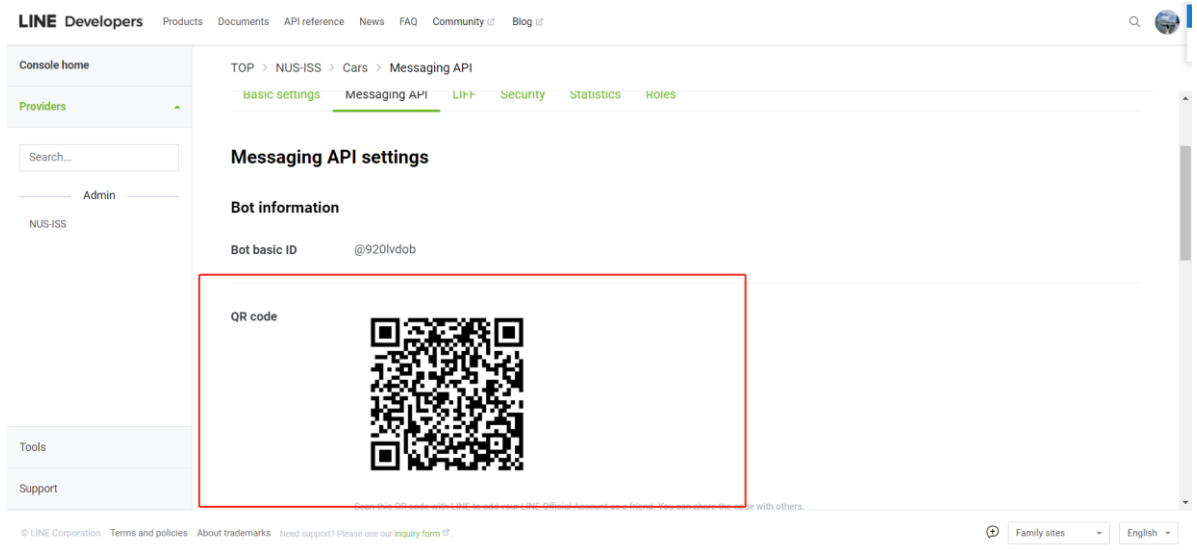


Users can get locations and routes of nearby **Audi Service Centre** using the map

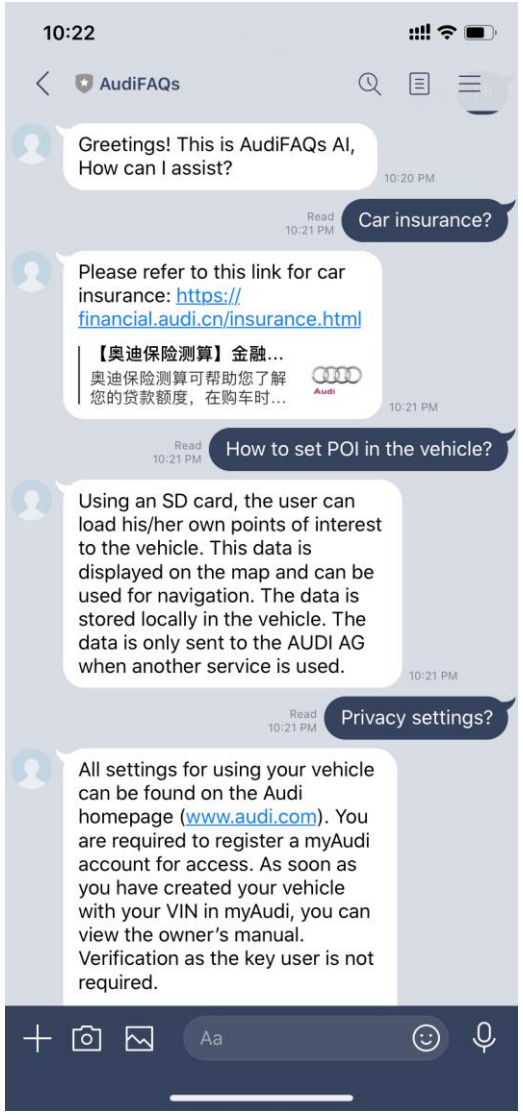


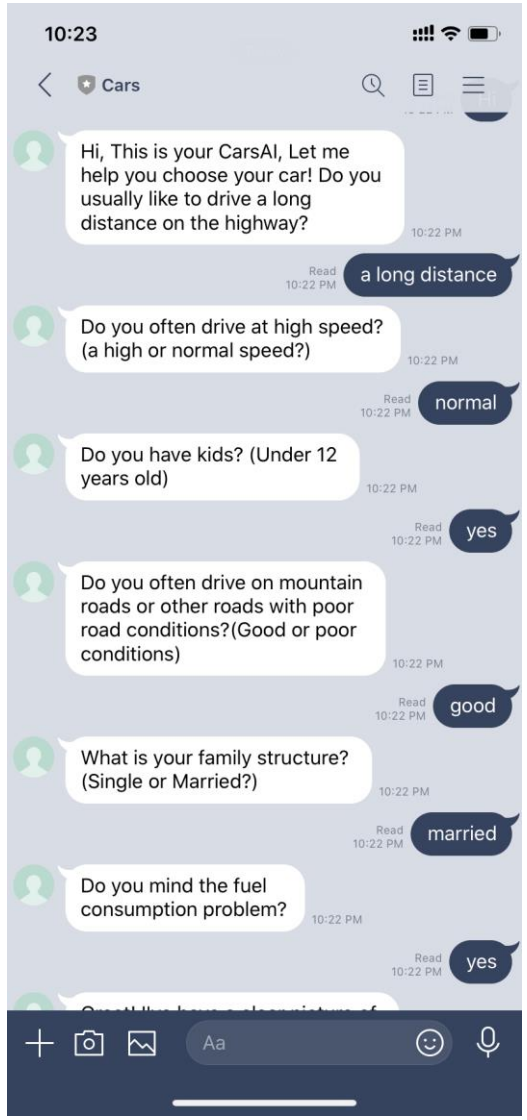
Scan QRcode to deploy System Chatbot on “**Line**” app





More intuitive UI which developed in Line are as follows





Thank you!