# Information to run the Dialogflow Agent

The Dialogflow agent built can be directly accessible at the following link:
https://bot.dialogflow.com/healthybot

But if required the source code can also deployed on dialog flow and firebase cloud by following the below steps:

1. Firstly go to Dialogflow console via following link  https://console.dialogflow.com/api-client/
2. Sign in with your google account or create one.
3. When in console click create agent in the left menu.

⊕  Create new agent

4. Enter your agent name  and click create. Keep all other settings default.

**AgentName**                                          CREATE

DEFAULT LANGUAGE  ❓                     DEFAULT TIME ZONE

English — en                    ▾          (GMT+1:00) Europe/Madrid

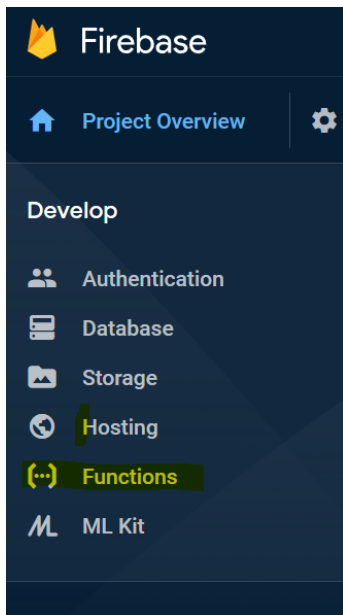Primary language for your agent. Other languages     Date and time requests are resolved using this
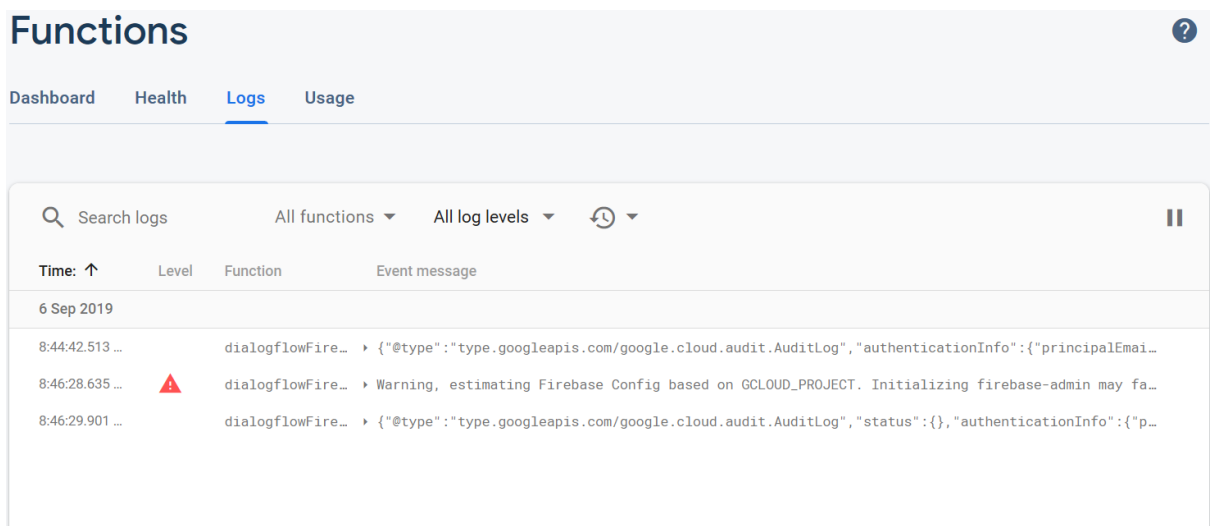can be added later.                                  timezone.

GOOGLE PROJECT

Create a new Google project

Enables Cloud functions, Actions on Google and permissions management.

5. Once your agent is created , click on the gear icon in left menu beside your agent name. Go to "export and Import" and click 'restore from zip'.
6. Upload the 'HealthyBot.zip' file and type 'RESTORE' (all in caps) in the box and click restore. Click Done and click on intent in the left menu. You will be able to see all the intent configured for this agent.
7. Now in the left menu go to 'Fulfillment' and enable 'inline Editor' and click 'Deploy'. This will deploy the initial code to firebase cloud functions, which is integrated with Dialogflow. It may take few minutes.

8. Now to verify deployment go to https://firebase.google.com/ check the name of your agent as project name, click on it. After that on the left menu click on 'functions'

And click on logs tab. This will show log for deployment as below:



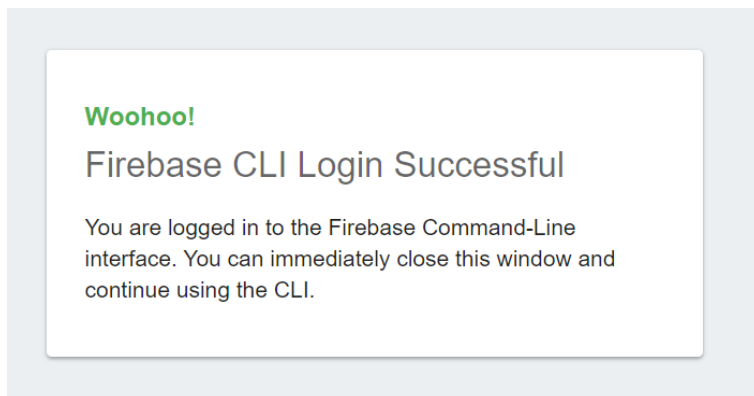Your default code is deployed on the firebase cloud.

Now, we need to replace this with custom code written in this project. Before that NodeJS and npm needs to be installed in the system. Follow the below steps to install. These steps are for windows pc only as I have windows PC only:

1.    Now go to https://nodejs.org/en/download/
2.    Download the windows installer(msi). Download any version greater than 8.xx. currently 10 is running
3.    Click on the download file and installation will start. Follow the on-screen instructions And accept the terms and conditions. After installation click the finish button.
4.    Open command prompt and type 'node'. If command run without error, then installation is successful.

After NodeJS installation

Run the following command in the command prompt

1. `npm install -g firebase-tools` this will install the firebase tool required for deployment of the code. Installation may take few minutes
2. Now type the command `firebase login` to get into the firebase console.
3. Follow the prompt successfully and type 'y'
4. This will open a page in the browser to login your google account used for creating dialog flow agent. And browser will show as

**Woohoo!**

Firebase CLI Login Successful

You are logged in to the Firebase Command-Line interface. You can immediately close this window and continue using the CLI.

If you are already logged in then it will show "Already logged in as email" in the console.

Now we are ready to deploy the custom code

1. Go to the following directory in the command prompt
"\firebaseFulfillment\firebase\functions" as this location contains the whole code. Then type 'firebase init'. Then you will be asked "Are you ready to proceed", type 'y'.
2. Then there will be further options to select. With arrow keys toggle to 'Functions' and press space bar to select and then press enter.

```
Microsoft Windows [Version 10.0.17134.950]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\Samidha\Desktop\firebaseFulfillment\firebase\functions>firebase init

     ######## #### ######## ######## ########     ###    ######  ########
     ##        ##  ##    ## ##    ##    ##        ## ##  ##    ## ##
     ######    ##  ######## ######     ##       #########  ######  ######
     ##        ##  ##    ## ##    ##    ##        ## ##        ## ##
     ##      #### ##        ## ######## ######## ##         ## ######  ########

You're about to initialize a Firebase project in this directory:

  C:\Users\Samidha\Desktop\firebaseFulfillment\firebase

Before we get started, keep in mind:

  * You are initializing in an existing Firebase project directory

? Are you ready to proceed? Yes
? Which Firebase CLI features do you want to set up for this folder? Press Space to select features, then Enter to confi
rm your choices. (Press <space> to select, <a> to toggle all, <i> to invert selection)
 ( ) Database: Deploy Firebase Realtime Database Rules
 ( ) Firestore: Deploy rules and create indexes for Firestore
>( ) Functions: Configure and deploy Cloud Functions
 ( ) Hosting: Configure and deploy Firebase Hosting sites
 ( ) Storage: Deploy Cloud Storage security rules
```

3. Then you will be asked which language to use for cloud functions. Select the 'JavaScript' in the same way as done before.
4. Then you will be asked if you want ESLint to catch probable bugs and enforce s.tyle. Type 'y'.
5. Then it will ask to overwrite 'functions/package.json' type 'n' **(Very Important)**
6. Then it will ask for overwrite 'functions/.eslintrc.json' and 'functions/index.js'. type 'n' **(Very Important)**
7. Then it will ask to overwrite functions/.gitignore, type 'n' **(Very Important)**
8. Then it will install dependencies with npm now? Type 'n' **(Very important)**
9. Now firebase installation is complete
10. Now you need to select your project and then deploy
11. Type in 'firebase projects: list', this will list out all the project deployed in your forebase account. Pick up the project ID of the your agent(as named in the previous step)
12. Then type 'firebase use <projectID>' this will select the project for deployment. It will show "Now using project <project ID>"
13. Now run 'firebase deploy'. Project deployment will start. When the deployment finishes you can go to dialog flow console.
14. Go to fulfilment tab on left menu in dialog flow console and you will see inline editor as below.



Inline Editor (Powered by Cloud Functions for Firebase)    ENABLED

Build and manage fulfillment directly in Dialogflow via Cloud Functions for Firebase. Docs

⚠ Your Cloud Function has been modified outside of the Dialogflow editor which is not supported. Please continue using your external tools.

This means that the code is deployed to firebase. The same can be verified in logs same way while setting up the agent initially.

The agent can now start the conversation as discussed in the project report. Consider scenarios written in the report. All the belief and plausibility information about the final decision can be seen in the logs of the project. Which can be accessed in https://firebase.google.com/ as discussed earlier.