<https://dialogflow.com/docs/reference/agent/entities>

Web hook api application code git : <https://github.com/Aravindrpa/df-webhook-apicode>

Ngrok.exe in git : <https://github.com/Aravindrpa/tools>

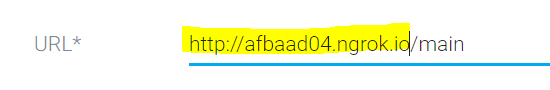
* Ngrok is used for testing your api code -- by making the locally hosted site/api available over the internet.
  + Webhook application is hosted locally as of now (localhost:3030) -- for dialoagflow to gain access to it, it must be available over internet.

* To use ngrok -- navigate to the ngrok location in CMD and run command:

ngrok.exe http "localhost:3030" -- this will create a new weblink like below.

session Status 
Session Expi res 
/ersion 
ion 
Interface 
:orwardi ng 
:orwardi ng 
on ne 
7 hours, 59 minutes 
2.2.8 
united States (us) 
http;//afbaaå04.ngrok.io -> local host: 3030 
https : //afbaad04. ngrok . io -> local host: 3030 

* Update this url under fulfilment for testing



* Keep the api code running in local host.

File Edit Selection 
ORN 
launch_json 
Go 
Debug 
Tasks 
Help 
launch.json 
JS index.js 
var app = cpquire(• 
server.js - df-webhook-apicode - Visual Studio Code 
JS index.js apiccde\routes 
JS server.js 
.vscode 
launchjson 
apicode 
controllers 
JS actions.js 
models 
JS objmodelsjs 
JS index.js 
node_modules 
package-lockJson 
package.json 
(0 README_md 
//in case route needs to be defined separtely 
10 
var bodyParser = 
var index • require(• ./apicode/routes,'index.js•); 
//var calcroutes 
= require( ./apicode/routes/croutes.js • 
var port process.env.port 1 1 3e3e; 
app. use(bodyparser. json( ) ) 
app. extended: false 
console. log( 'Server Started at Port ); 
app. index); 
// app . use(calcroutes); 
app. li sten(port) ; 
app. res, next) { 
var err = neu Error('Not Found'); 
err. status = 4ø4; 
next (err) ; 
TERMINAL 
C: \proeram - -inspect-brk•sg3S server .js 
Debugger listening on 
Server started at port 

C O localhost 
{"fulfillmentText" "This is the default message from hook"} 
an Vie„ 
Import 
Runner 
Collections 
My workspace 
Invtte 
Filter 
History 
http•.','afoaaiJ4ngrok 
GET • 
Clear all 
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Cook es 
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Peaders (5) 
GET 
httP'flafbaadD4.ogrm.ic 
http:/.'aY±t8Bbb.ngrok.vc 
http://a9gf88bb.ngrok.ic/ 
•fulfillæntText•: "rhis 
POST 
Authorization 
http:Ba93fBBbb.ngrok.io:main 
Body 
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(application.'jsom 
fc rm-dEta x-ww•w-fcrm-u rtencoded 
-res:orseld": 
•q Jerylext": "Arub", 
•action' 
•al •_RequI,-edParansPresent•: true, 
Test Results 
is the default message fro. hook" 
Status 0K 
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Raw 
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* The /main is the route in the api code where actions are posted to.
  + This will consume the fulfillment request from dialoagflow and take text,actionText, parmeters etc from the current request from DF.

var dfAction • req. body .queryResult 
con sole. log(dfWeryText) 
console. log( dfAction 
if (typeof (dfACtion) •undefined' u dfActi0n 
fulfillmentText: "There was action defined within fulfilænt request 
JS 
, vscode 
launch_json 
apicode 
controllers 
JS actions.js 
mcvdels 
routes 
'S a p i routes-js 
JS 
node_modules 
package-lock.json 
pac k 
README.md 
serve 
66uter. pst( • 'main 
var dfQueryText 
unc Ion (req, res, 
• req. body. queryResult.queryTexti_ 
231 

* How the flow works??
  + When webhook is enabled for an intent -- dialoagflow will send a POST request to the updated ( url under fulfilment.)
  + This will have a certain structure with all the details from intent -- including the action name, parameters etc. -- these details can be viewed under diagnostics info.

Diagnostic info 
RAW API RESPONSE 
FULFILLMENT REQUEST 
"responseld": 
"queryResuIt" : 
"queryText": "Anub", 
"UserNames" : "User-Names" 
FULFILLMENT RESPONSE 
ess 
FULFILLMENT STATUS 
64654ea5-f2ae-4fcd , 
"action": "actiontest", 
"parameters" : 
"alIRequiredparamspresent" : 
"outputContexts " : 
true, 
15 
18 
"name": "projects/ test-bat-agent-e8e96/agent/sessions/e98672e8-2141-b169-6ee5-cæe284967ed 
/ contexts/ defaultwelcomeintent-follcnvup" , 
"lifespanCount": 1, 
"parameters": { 
"userNames. : "Anub", 
"userNames": "UserNames" 
CLOSE 
COPY FULFILLMENT REQUEST AS CURL 
NOS 
copy RAW RESPONSE 

* It is the api code that should parse and provide response accourdingly.
* We will take the action name and provide response based on each action by calling a function which has the same name as action.

launch.json 
E index.js 
nodule. exports = { 
• E actionsjs 
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OPEN m.'NwÉO/ 
• JS index.js 
JS actionsjs 
launchjson 
apicode 
controllers 
JS actionsjs 
JS objmodelsjs 
JS index-js 
node_modules 
package-lockjson 
package.json 
O) README_md 
JS server.js 
//for a bit of readability, 
fron where function is called 
trvA 
catch(error) / 'handling if 
res,next); //any function from this module is executed by name 
action is not defined within api 
16 
res. "Error calling action : "*functionName+"")); 
function(req, res, next) { 
return res 
"This is the default message frun hooktest for action actiontest")); 
act10ntest2 : function(req, res , next) { 
return res "This is the default message from hooktest for action actiontest2"l); 

Dialogflow 
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Entities 
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Fulfillment 
Integrations 
• 
Default Welcome Intent - custom 
Aravind 
Action and parameters 
: icticntc•f: 
REQUIRED 0 
NAME 0 
UserNames 
o 
ENTITY 0 
@UserNam 
SAVE 
ISLETO 
SuserName 
Try it now 
This is the 
CONTEXTS 
defaultw 
INTENT 
Default Wel 
ACTION 
actiontest 
N RAM ET ER 

lebhook 
ENABLED 
DEFAULT RESPONSE 
p LAY 
This is the default message from hooktest for 
Jur web service will receive a POST request from Dialogflow in the form of the response to a 
er query matched by intents with webhook enabled. Be sure that your web service meets all 
webhook requirements specific to the API version enabled in this agent. 
http://afbaad04.ngrok.io/main 
action actiontest 
CONTEXTS 
RESET CONTEXTS 
SIC AUTH 
Enter username 
Enter password 
defaultwelcomeintent-followup 
INTENT 
Default Welcome Intent - custom 