Sameer Kesava

Make sure the json file of the service_account is downloaded for the project. Required for authorization.

1. Go to dialogflow.com



2. Go to console (top right)

3. Create new agent

Pialogflow	💬 Intents	ATE INTENT	Try it now
GCP_Dobot 👻 🔆	Search intents	Q T	O Please use test console above to try a
OxfordDobot-test1			sentence.
 Create new agent 	Default Fallback Intent Default Welcome Intent		See how it works in Google Assistant
View all agents	Dobot_Pasition		
Knowledge [beta]	• STOP		
4 =	1		

4. Click on the Settings (gear)

Pialogflow	Demo_test1		SAVE	Try it now
Demo_test1 👻 🔆	General Languages ML Set	tings Export and Import Speech 👗 Share		 Please use test console above to try a
en +				sentence.
💬 Intents 🛛 🕂		DESCRIPTION		
🖁 Entities +		Describe your agent		See how it works in Google Assistant.
Knowledge [beta]		DEFAULT TIME ZONE		
4 Fulfillment		(GMT0:00) Africa/Casablanca	Ŧ	
1 Integrations		Date and time requests are resolved using this timezone.		
Training	GOOGLE FROJECT			
0	Project ID	fir-test1-23aec		
History	Service Account 🕜	dialogflow-geeyco@fir-test1-23aec.iam.gserviceaccount.com	52	

5. Click the Service Account link, will take you to Google Cloud Platform page



6. Select the account created above

Ŧ	Filter table				0 II
	Email	Name 🛧	Description	y creation dat	e Actions
	● fir-test1- 23aec@appspot.gserviceaccount.com	App Engine default service account			:
 Image: A second s	 ➡ dialogflow-geeyco@fir-test1- 23aec.iam.gserviceaccount.com 	Dialogflow Integrations		n 28, 2019	: Edit
	➡ firebase-adminsdk-6g104@fir-test1- 23aec.iam.gserviceaccount.com	firebase- adminsdk	Firebase Admin SDK Service Agent		Delete
					Create key

7. Choose Create Key and then JSON. Download and keep it safe. You will need this for authorization.



CANCEL CREATE

8. Follow steps below to create intents and then run the program.

Creating and training Intent to move the Dobot arm:

- Need to choose each number (with the mouse) and select '@sys.number-integer".
- Declaring several such training phrases

99	go to 100 200 and <mark>300</mark>		
		Filter	
99	go to <mark>64</mark> <mark>87 34</mark>		
99	go to <mark>175</mark> 243 199	@sys.number-int:number-integer	
99	go to <mark>691</mark>	@sys.geo-country-code	
99	go to <mark>0</mark> 95 131	@sys.number-integer	
99	go to <mark>0 66</mark> and <mark>182</mark>	@sys.temperature	
99	go to <mark>198</mark> 26 and 211	@sys.geo-country	
99	move to <mark>0 176 11</mark>	@sys.age	
99	ok Dobot go to <mark>20</mark> a	+ Create new	
99	Dobot move to <mark>200</mark> 37	and <mark>250</mark>	

99 go to <mark>64</mark> 87 34				
55 go to <mark>175</mark> 243 199				
PARAMETER NAME	ENTITY	RESOLVED VALUE		
number-integer	@sys.number-integer	175	×	
number-integer	@sys.number-integer	243	×	
number-integer	@sys.number-integer	199	×	
99 go to <mark>691</mark>				
99 go to <mark>0 95 131</mark>				
99 go to <mark>0 66</mark> and <mark>182</mark>				
99 go to 198 26 and 211				
99 move to 0 176 11				
99 ok Dobot go to 20 0 and 0				
99 Dobot move to 200 37 and 250				

Extracting x, y and z positions: Set up Action and Parameters as below Action and parameters

Enter action	name			
REQUIRED 🕑	PARAMETER NAME	ENTITY 🕑	VALUE	IS LIST 🚱
	number-integer	@sys.number-integer	\$number-integer	<u>~</u>
	Enter name	Enter entity	Enter value	

 \wedge

Then Responses

Responses 🔞

DEFAULT	GOOGLE ASSISTANT	+	
Text re	sponse		

0 **D**

~

2	Enter a text response variant
---	-------------------------------

1 \$number-integer

ADD RESPONSES

Set this intent as end of conversation

Creating and training Intent to close the connection: Training phrases

99	Add user expression
99	STOP THE PROGRAM
99	END THE PROGRAM
99	CLOSE THE PROGRAM
99	END THE CONNECTION
99	TERMINATE THE CONNECTION
99	STOP THE CONNECTION
99	CLOSE THE CONNECTION

Action and parameters

Ente	er action name				
REQU	IRED 🛛 PARAMETER NAME 🖓	ENTITY 🕢	VALUE	IS LIST 🕢	
	Enter name	Enter entity	Enter value		
+ New	parameter				
Responses 🕜					
DEFAULT GOOGLE ASSISTANT +					
Text	response			0 1	
1	STOP				
0					

Test the model here

Pialogflow	Dobot_Position	SAVE	Try it now
GCP_Dobot - 🔆	Contexts 😡	~	O Please use test console above to try a
💬 Intents 🕂	Events 😧	~	sentence.
Entities +	Training phrases 🕜	Search training phrases 🔍 🔨	● See how it works in Google Assistant. 🗗
Knowledge [beta]			

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Once everything seems fine, run the code GCP_VirtualDobot_v3.py

Make sure the required packages are installed (see code).

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