

DJANGO-DIALOG FLOW CHAT BOT

Python version → 3.7.2

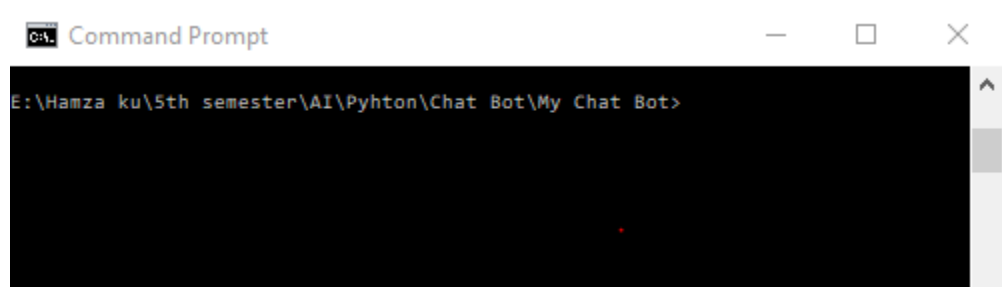
Django version → 2.2

Follow my github repo: <https://github.com/Hamzaasif/Django-Dialogflow-ChatBot>

➤ Create and Activating Virtual Environment (Windows) :

- ❖ *Pip install virtualenv* (run in command prompt)

Open the folder where u want to create virtual environment in cmd.



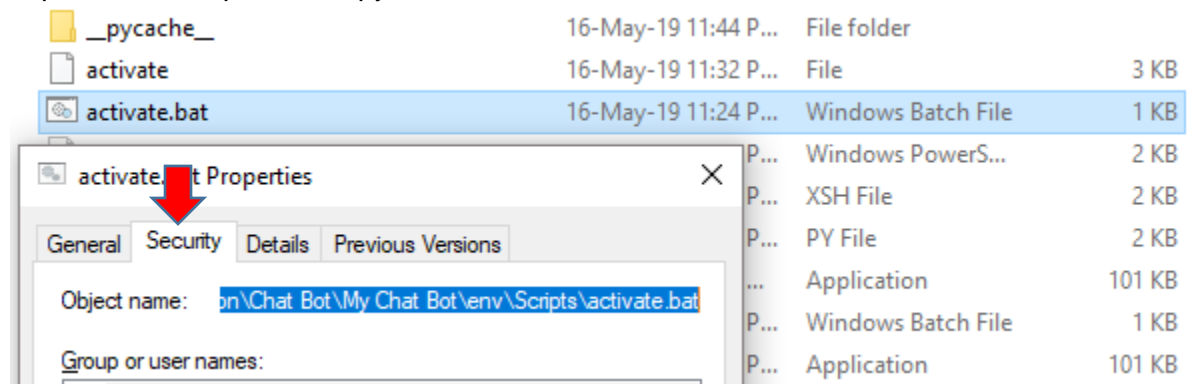
Now run the following command:

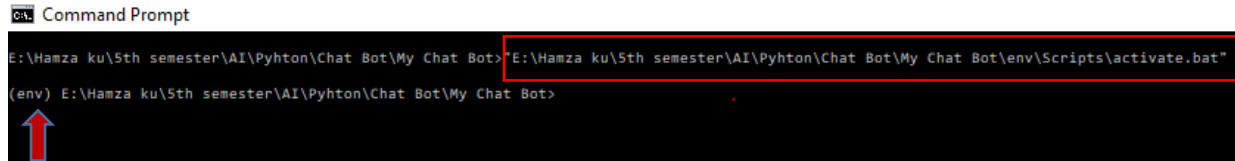
- ❖ *Virtualenv env* (cmd)



For Activation:

Open env->Scripts and copy the address of the **activation.bat** file





Now run the following in cmd:

- ❖ *Pip install django*
- ❖ *Pip install djangorestframework*
- ❖ *Pip install dialogflow*
- ❖ *Pip install request*
- ❖ *django-admin startproject chatbot(project name)*

Open the project folder [**cd chatbot** (type this in cmd)] in cmd and run the command to create app.

- ❖ *Python manage.py startapp bot (app name)*


Open **chatbot->settings:**

```
33 INSTALLED_APPS = [  
34     'django.contrib.admin',  
35     'django.contrib.auth',  
36     'django.contrib.contenttypes',  
37     'django.contrib.sessions',  
38     'django.contrib.messages',  
39     'django.contrib.staticfiles',  
40     'rest_framework',  
41     'Bot',  
42     'requests',  
43 ]
```

Now, we have to create our models (database):

Open **bot->models:**

Branch: master ▾ Django-Dialogflow-ChatBot / Bot / models.py

 Hamzaasif initail commit

1 contributor

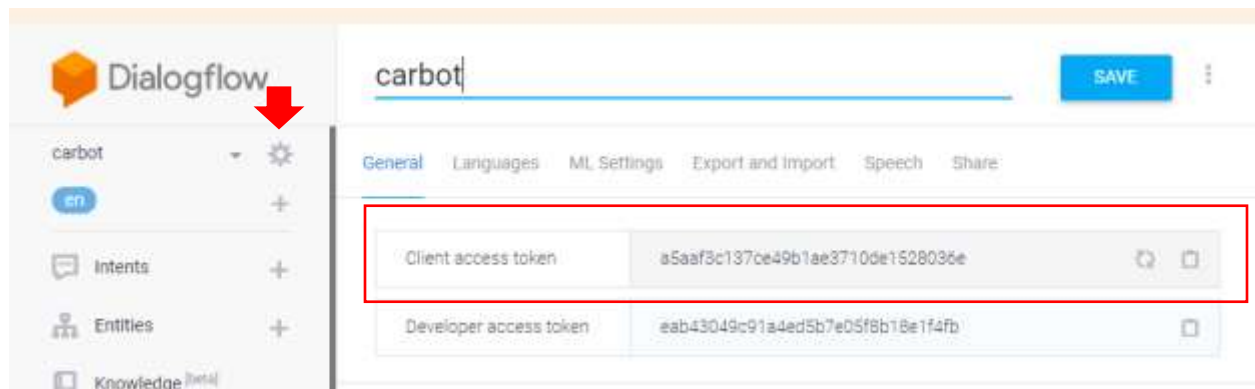
9 lines (7 sloc) | 214 Bytes

```
1 from django.db import models
2
3 # Create your models here.
4 class chat(models.Model):
5     request=models.CharField(max_length=400)
6     response=models.CharField(max_length=400)
7
8 def __str__(self):
9     return self.response
```

Now open cmd and run the following commands:

- ❖ *Python manage.py makemigrations*
- ❖ *Python managr.py migrate*

Now open dialog flow and create your agent: <https://console.dialogflow.com> (While creating your bot please enable small talk)



After creating your agent click on settings and copy the Client access token and paste it in **bot->views**:

Branch: master

Django-Dialogflow-ChatBot / Bot / views.py

Find file

Copy path



Hamzaasif [initail commit](#)

1032feb 17 hours ago

1 contributor

15 lines (11 sloc) 543 Bytes

Raw

Blame

History



```
1 from django.shortcuts import render
2 import requests
3
4 def home(request):
5     url='https://api.dialogflow.com/v1/query?v=20150910&contexts=smalltalk&lang=en&query=hey&sessionId=12345&timezone=America/New_York'
6     Headers = {
7         'Authorization': 'Bearer 5aaf3c137ce49b1ae3710de1528036e',
8     }
9     r =requests.get(url, headers=Headers)
10    print("The response", r.json()['result']['fulfillment']['speech'])
11
12    # rendering the template in templates folder
13    return render(request, "app.html", {'response': r.json()['result']['fulfillment']['speech']})
14
```

Copy your Client access token here!


url='https://api.dialogflow.com/v1/query?v=20150910&contexts=*smalltalk*&lang=en&query=*hey*&sessionId=12345&timezone=America/New_York'




url='https://api.dialogflow.com/v1/query?v=20150910&contexts=*smalltalk*&lang=en&query=*who are you*&sessionId=12345&timezone=America/New_York'

Open **Bot->templates->home.html** (you have to create template folder and create home.html file):


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 Code

 Issues 0

 Pull requests 0

 Projects 0

 Wiki

Branch: master ▾

Django-Dialogflow-ChatBot / Bot / templates / app.html



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3 lines (2 sloc) | 40 Bytes

```
1 <h1>Chat Bot</h1>
2 <p>{{ response }}</p>
```

Open **Bot->urls.py** (you have to create urls.py file in your app folder):

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 Code

 Issues 0

 Pull requests 0

 Projects 0

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Branch: master ▾

Django-Dialogflow-ChatBot / Bot / urls.py



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8 lines (6 sloc) | 109 Bytes

```
1 from django.urls import path
2 from .views import home
3
4 app_name = "Bot"
5
6 urlpatterns = [
7     path('', home),
8 ]
```

Open **Chatbot->urls** (project urls):

Branch: master ▾ [Django-Dialogflow-ChatBot / ChatBot / urls.py](#)

 **Hamzaasif** initail commit

[1 contributor](#)

9 lines (7 sloc) | 217 Bytes

```
1  from django.contrib import admin
2  from django.urls import path, include
3
4  urlpatterns = [
5      path('api-auth/', include('rest_framework.urls')),
6      path('admin/', admin.site.urls),
7      path('', include('Bot.urls')),
8  ]
```

Run server by **python manage.py runserver**

Design your own template and agent.