

WHATSAPP BOT

1. Python environment ---
2. Download all necessary package – flask , requests , twilio
3. Ngrok – download it (used for converting the flask to a url which communicates with twillio)

Twilio Configuration

Signup with a free account in [twilio.com](https://www.twilio.com) and add your phone number which has whatsapp installed.

Twilio provides a WhatsApp sandbox where you can easily develop and test your application. Once your application is complete you can request production access for your Twilio phone number, which requires approval by WhatsApp.

Let's connect your smartphone to the sandbox. From your Twilio Console, select Programmable Messaging, then click on "Try it Out" and finally click on Try WhatsApp. The WhatsApp sandbox page will show you the sandbox number assigned to your account, and a join code.

Or go to this [link](#) directly. CREATE AN ACCOUNT ON TWILLIO

Step 1

Pip install flask , pip install Twilio , pip install Requests in cmd...

1. The Flask framework, to create the web application
2. The Twilio Python Helper library, to work with the Twilio APIs
3. The Requests package, to access third party APIs

Step 2

Run a sample program to check all the accessories is working perfectly

Type code save app.py

Run it by

```
E: > KARTHICK > whatsappbot > app.py > hello_world
```

```
1  from flask import Flask
2  app = Flask(__name__)
3
4  @app.route('/')
5  def hello_world():
6      return 'Hello, Madurai!'
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/powershell>

PS C:\Users\User> E:

PS E:\> cd KARTHICK

PS E:\KARTHICK> cd whatsappbot

PS E:\KARTHICK\whatsappbot> set FLASK_APP=app.py

PS E:\KARTHICK\whatsappbot> python3 -m flask run

Python was not found; run without arguments to install from the Microsoft Store, or disable pp Execution Aliases.

PS E:\KARTHICK\whatsappbot> python -m flask run

* Environment: production

WARNING: This is a development server. Do not use it in a production deployment.
Use a production WSGI server instead.

* Debug mode: off

* Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)

Type the url given in the chrome ... you can see hello,madurai

Step 3

START WRITING THE CODE FOR BOT CREATION (BLUEPRINT REFER ANY WEBSITE / my app.py)

```
from flask import Flask
```

```
app = Flask(__name__)
```

```
@app.route('/bot', methods=['POST'])
```

```
def bot():

    # add webhook logic here and return a response

if __name__ == '__main__':

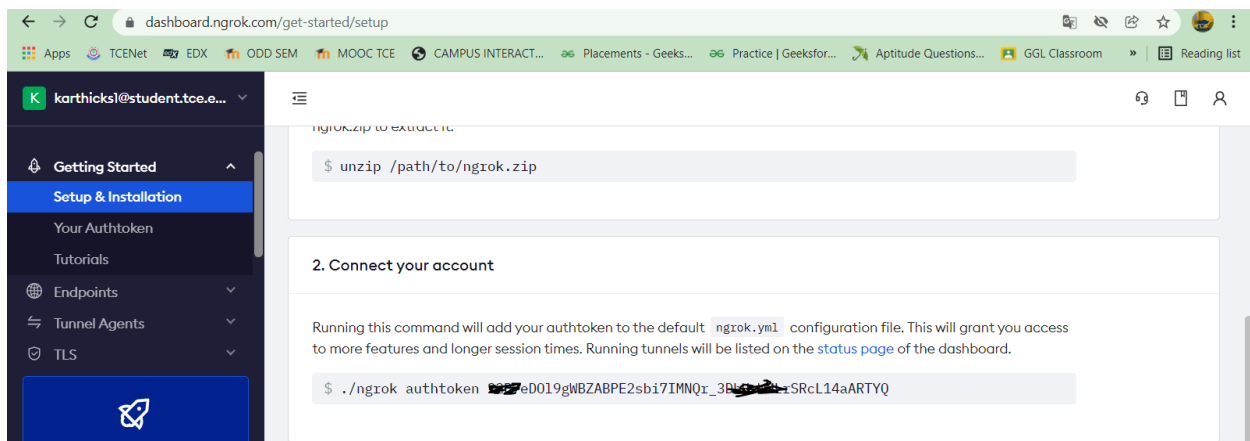
    app.run()           //body creation.. refer internet to copy the code ...
```

step 4:

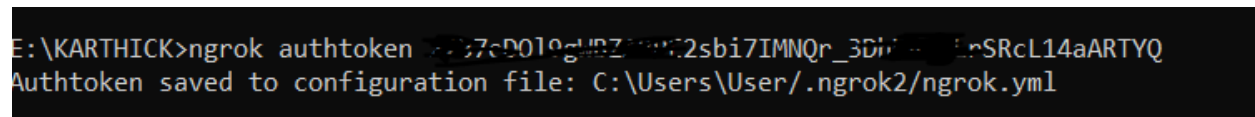
installation of ngrok to convert the flask app to a url which connects to twillio

download ngrok and unzip and run..

signup in ngrok website where u download to get authorized token in ngrok..



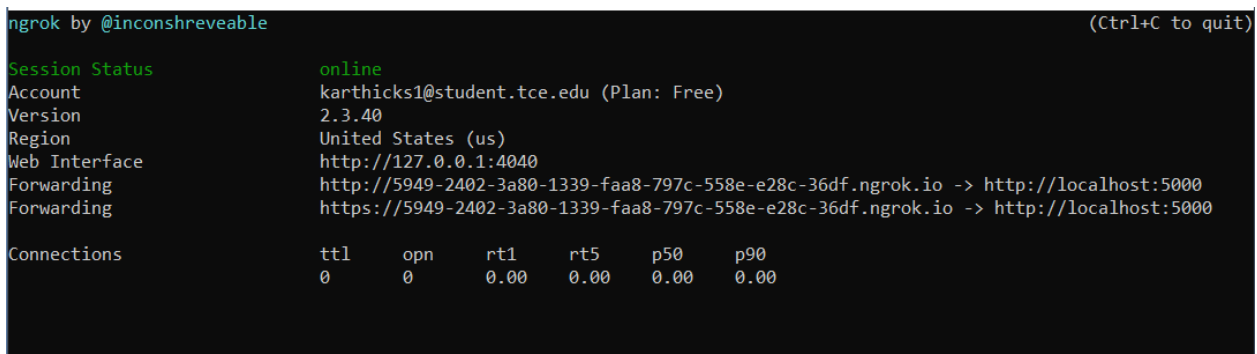
In command prompt (open that ngrok.exe file)



STEP 5

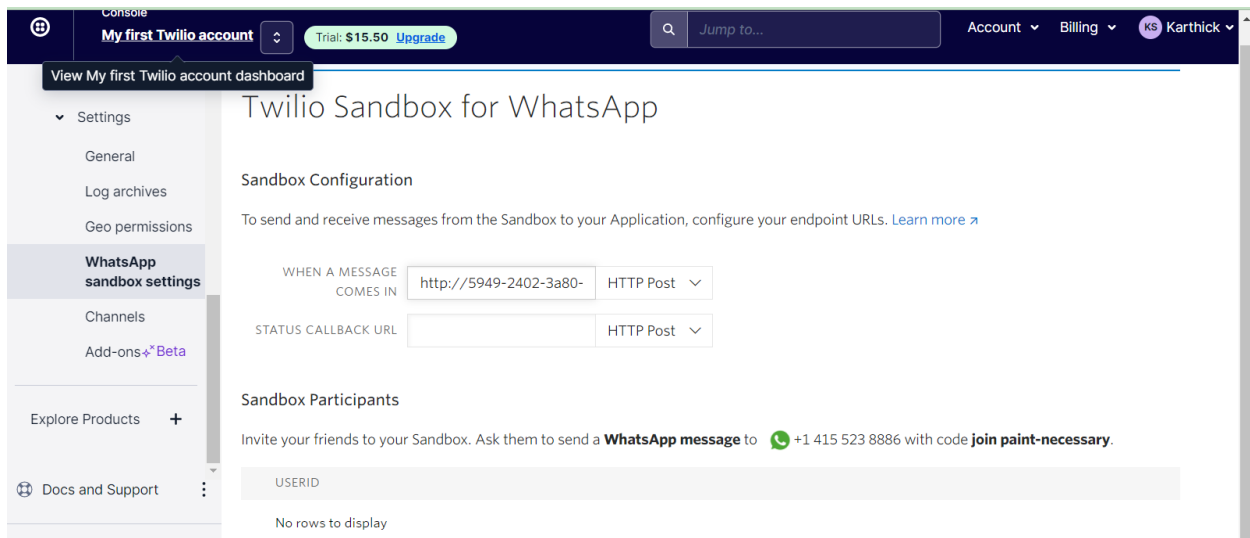
Now run the python flask code

Open new command prompt run ngrok http 5000 to allocate a temporary public domain that redirects HTTP requests to our local port 5000.



Note the lines beginning with “Forwarding”. These show the public URL that ngrok uses to redirect requests into our service. What we need to do now is tell Twilio to use this URL to send incoming message notifications.

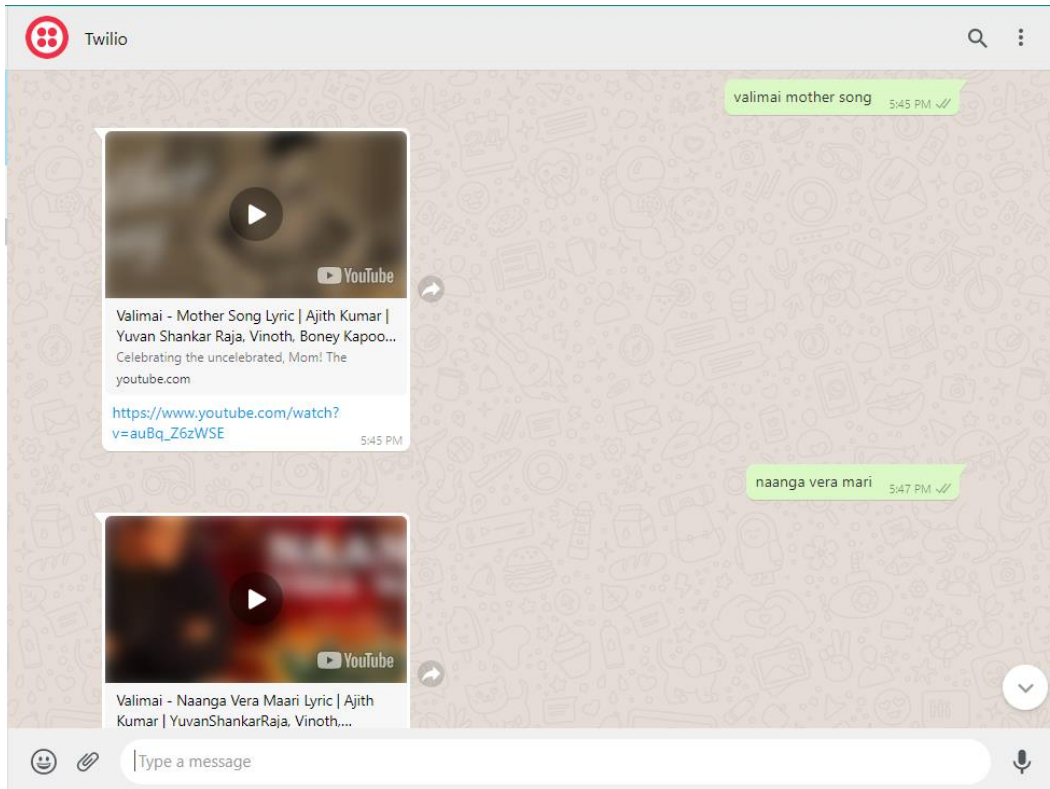
Go back to the Twilio Console, click on Programmable Messaging, then on Settings, and finally on WhatsApp Sandbox Settings. **Copy the https:// URL from the ngrok output and then paste it on the “When a message comes in” field.** Since our chatbot is exposed under the /bot URL, append that at the end of the root ngrok URL. Make sure the request method is set to HTTP Post. Don’t forget to click the red Save button at the bottom of the page to record these changes.



Last that ngrok.io/bot

(before setup the sandbox in twilio – connects your number to twilio) send a join paint-necessary to connect.





Now you can start sending messages to the chatbot from the smartphone that you connected to the sandbox. You can type any sentences that you like, and each time the words “quote” and “cat” appear in messages the chatbot will invoke the third party APIs and return some fresh content to you.

Keep in mind that when using ngrok for free there are some limitations. In particular, you cannot hold on to an ngrok URL for more than 8 hours, and the domain name that is assigned to you will be different every time you start the ngrok command. You will need to update the URL in the Twilio Console every time you restart ngrok.