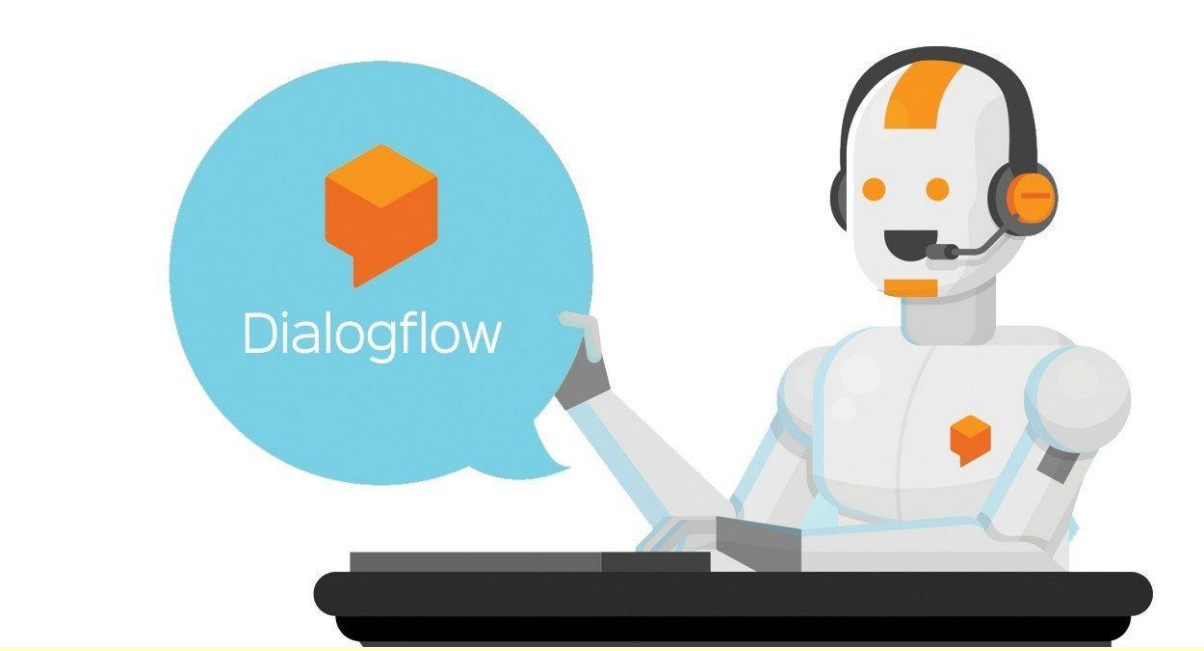
Covid-19 Dialog Flow Chatbot

Artificial Intelligence

Project Report 2021



Group Members:

- Muhammad Sheroz 9852
- Kehkashan Akram 9825

Class id: 106266

Content:

1.0. Introduction to problem

1.1. Introduction:

In this project we creating chatbot dialog flow. It is artificial intelligent awareness system about Covid-19. One can ask questions about covid-19 and it will answer.

1.2. Description:

We are building a chatbot that will give its users awareness about covid-19.

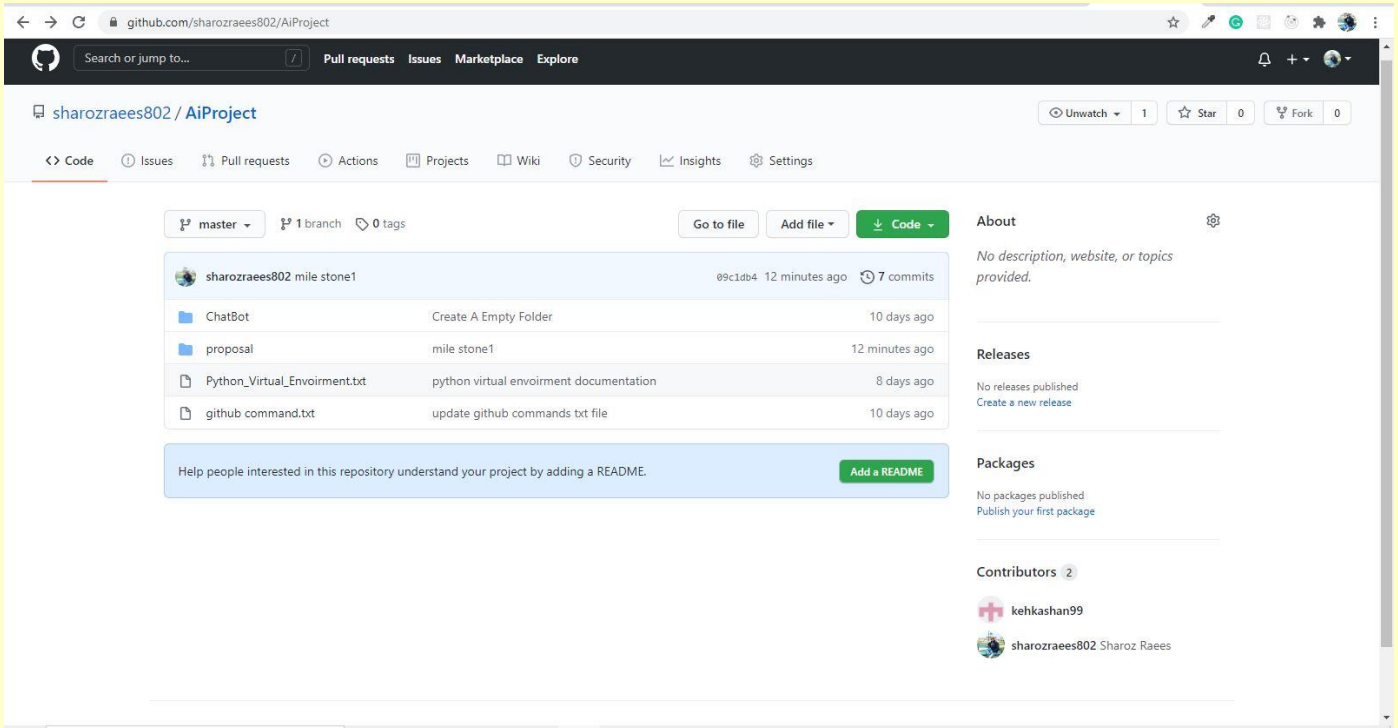
1.2.1. What is a Chatbot?

Interacts through instant messaging, artificially replicating the patterns of human interactions.

1.2.2. What is dialog flow?

Dialog flow is a natural language understanding platform used to design and integrate a conversational user interface into mobile apps, web applications, devices, bots, interactive voice response systems and related uses.

GitHub Picture



1.3. Software Requirements

- Version Control Git and GitHub
- Visual Studio Code
- Jupyter Notebook
- Mongo Db atlas

2.0. Project Planning

2.1. Expected Result: our project will be complete in 9th week

2.2. Code Language:

We will use Python, Flask, MongoDB, Rapid API, Dialog Flow API

2.3. GitHub Link: https://github.com/sharozraees802/AiProject.git

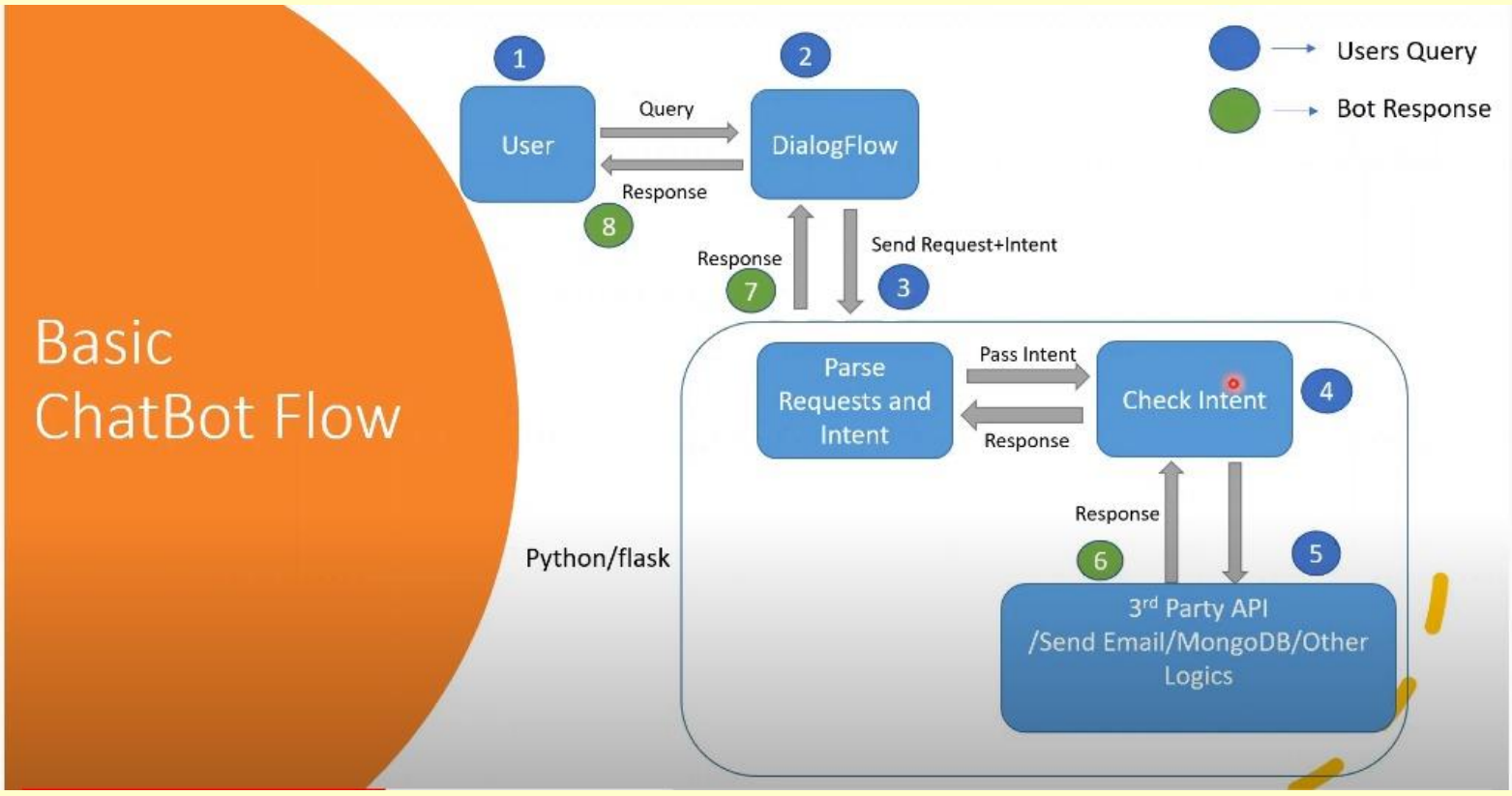
2.4. Project Planning:

	Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9
Google Dialogflow & NLU									
Flask/python, API, MongoDB									
Testing & Deployment									

3.0. Progress Table:

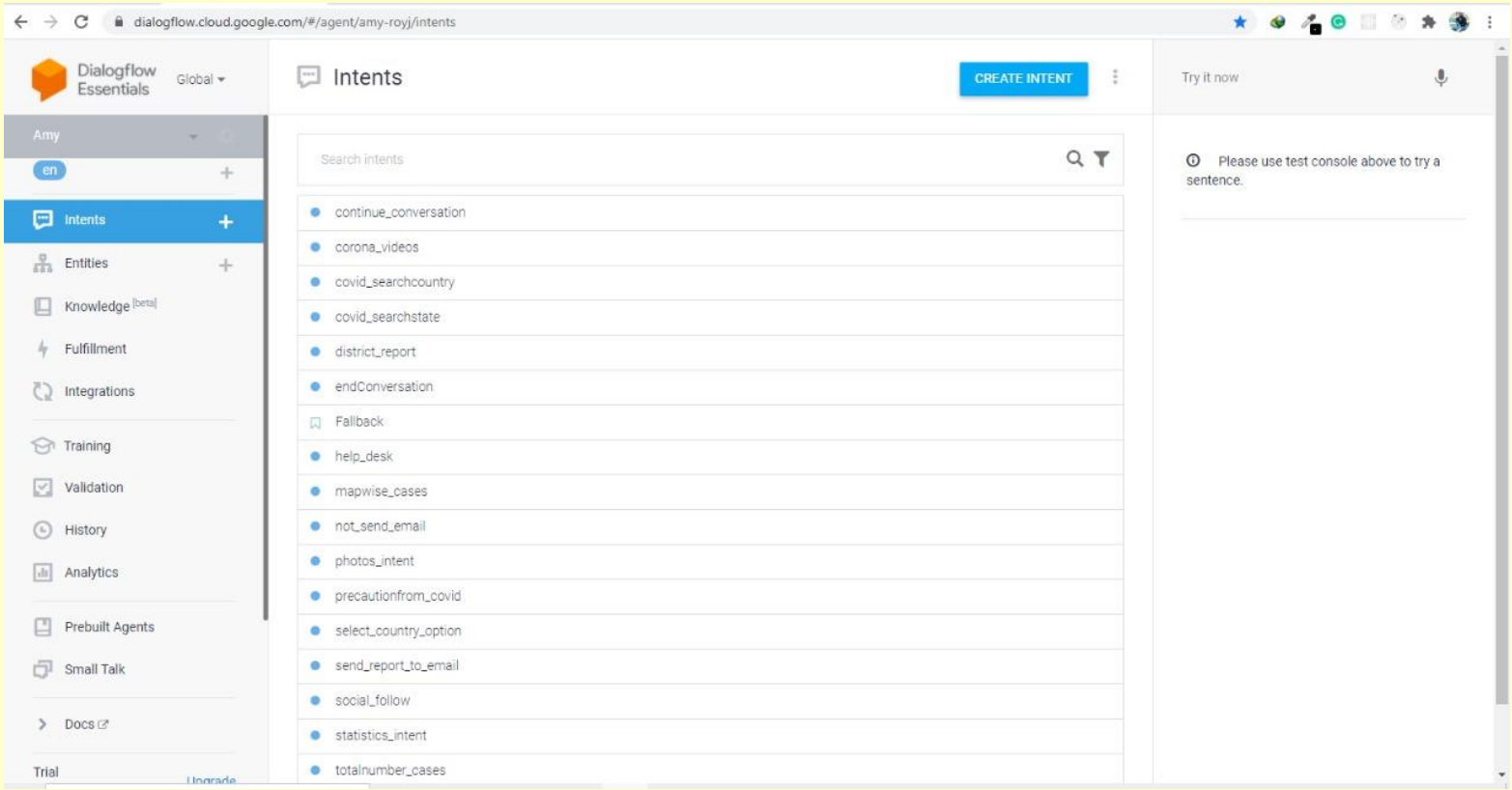
	Week1	Week2	Week3	Week4	Week5	Week6	Week7	Week8	Week9
Google, dialogflow, NLU	✓	✓	✓						
Flask/Python, API, Mongo DB				✓	✓	✓			
Testing & Deployment							✓	✓	✓

4.0. Basic ChatBot Flow:

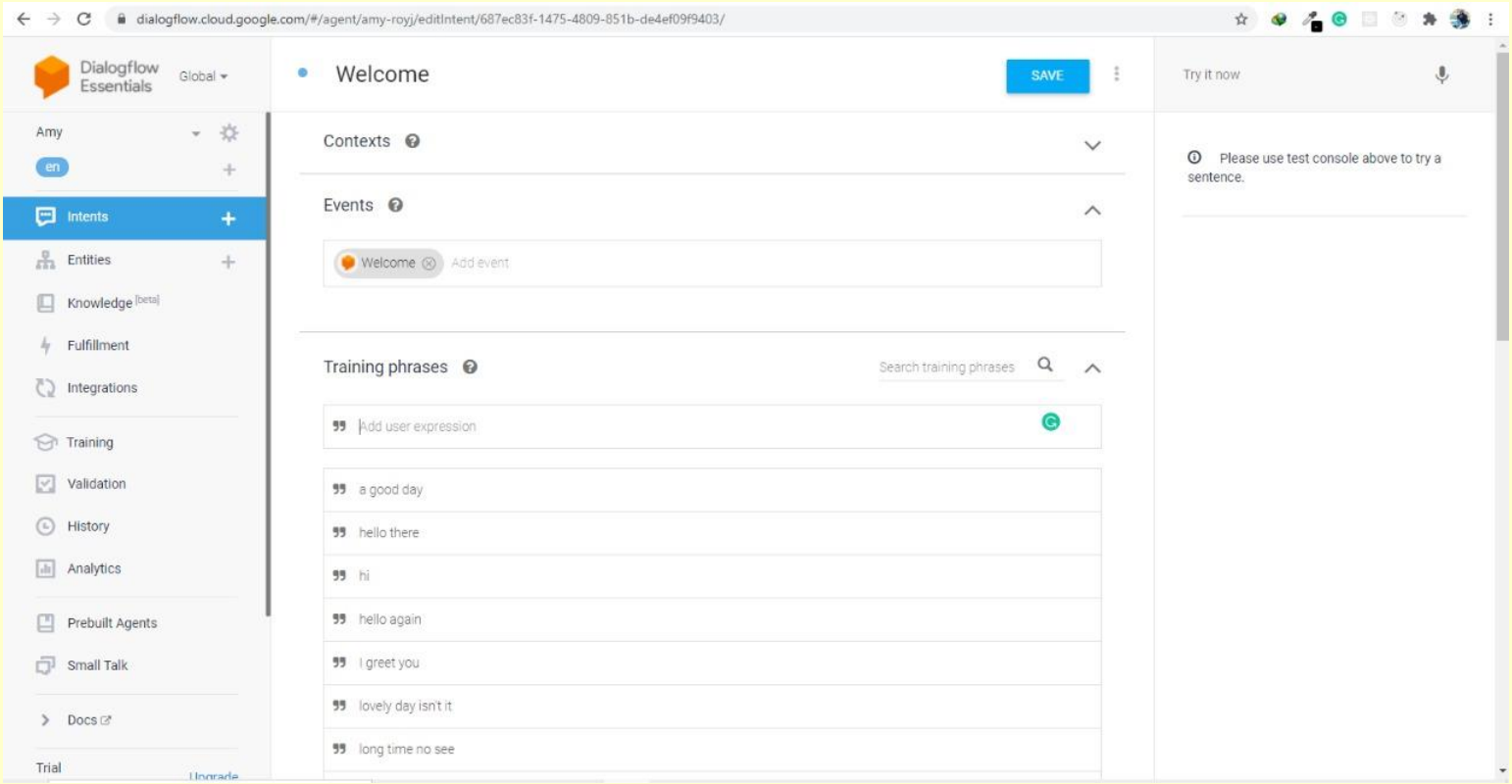


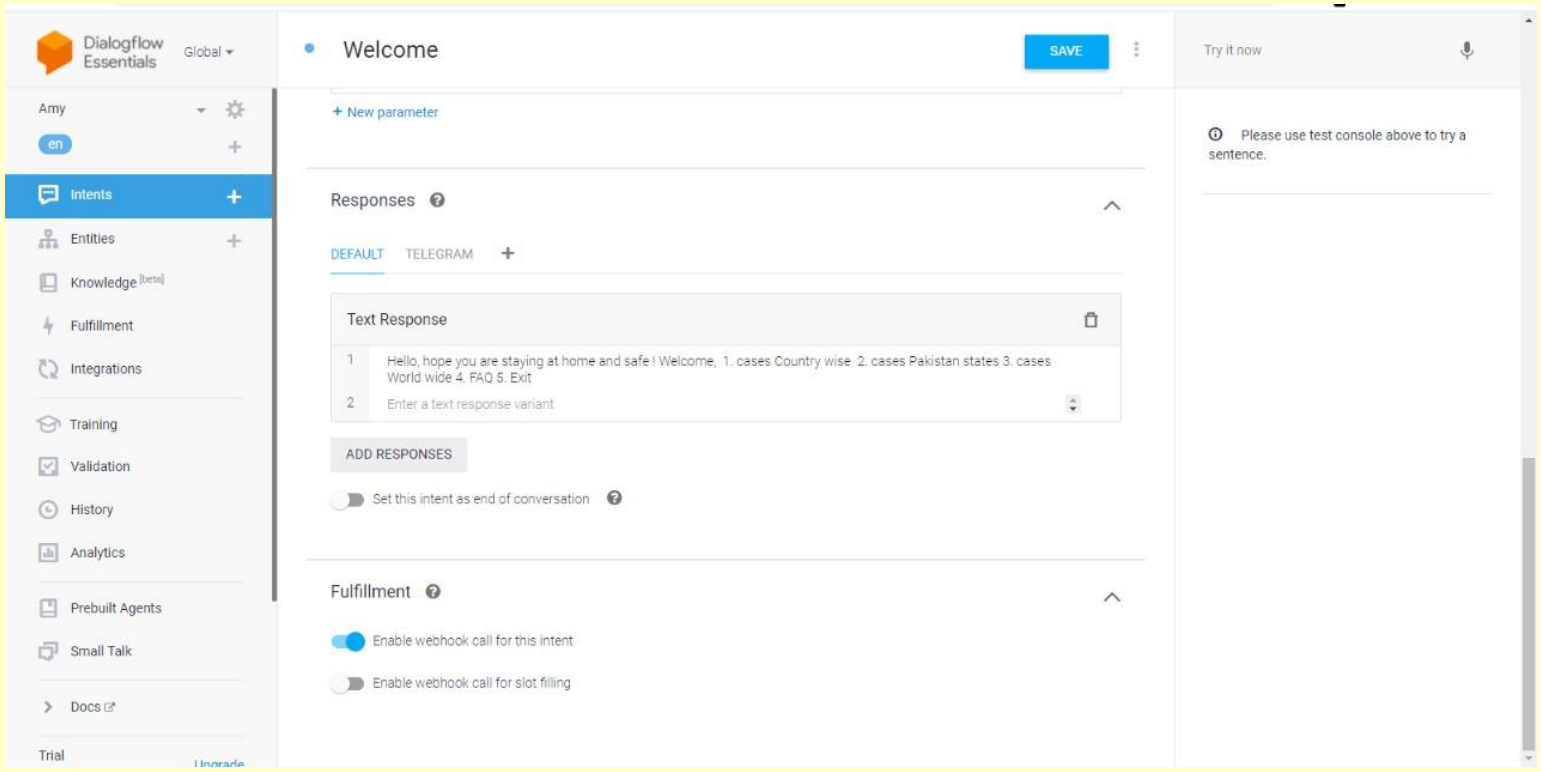
5.0. DialogFlow:

5.1. Intents:

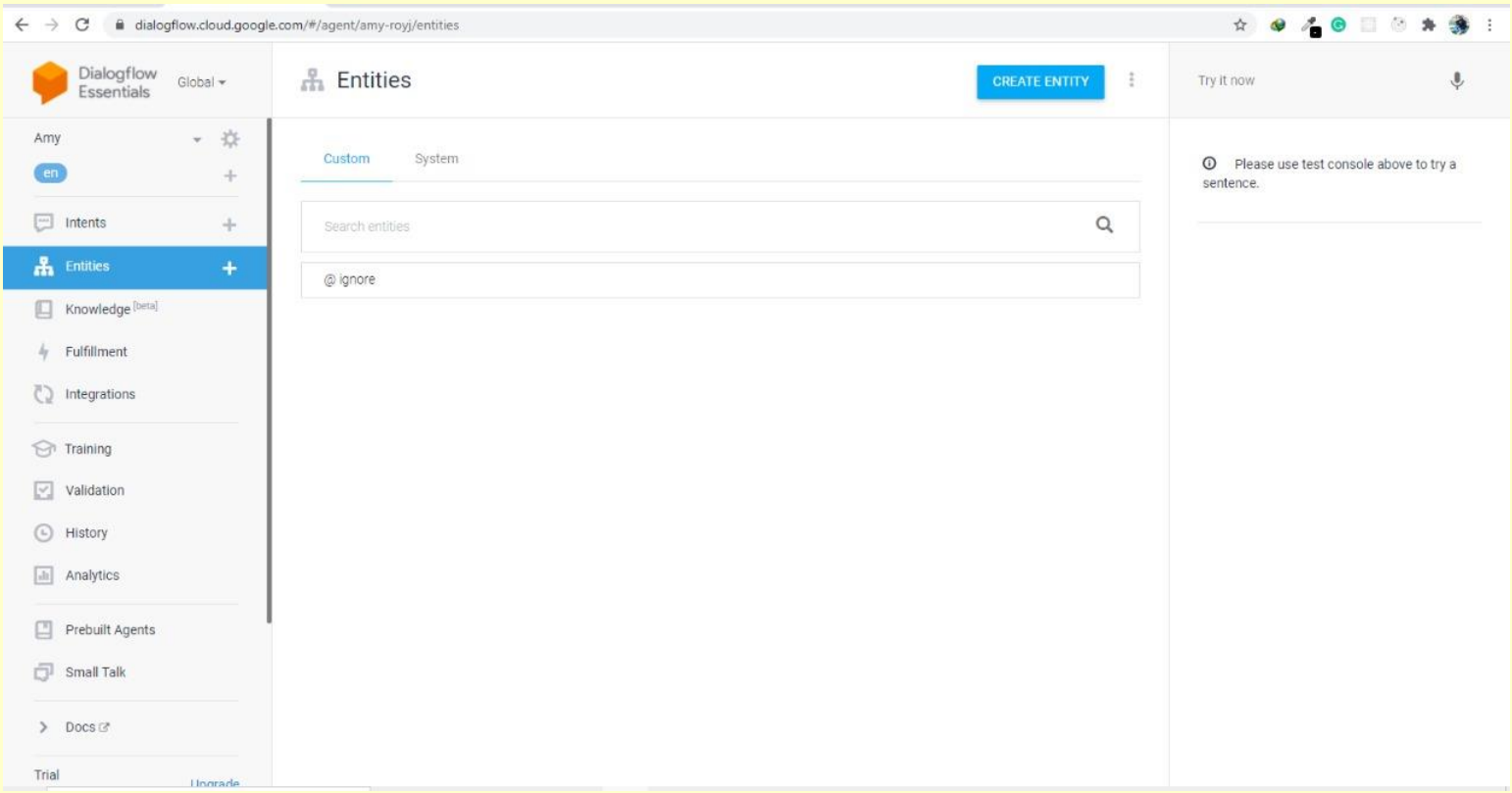


5.1.1. welcome Intent:

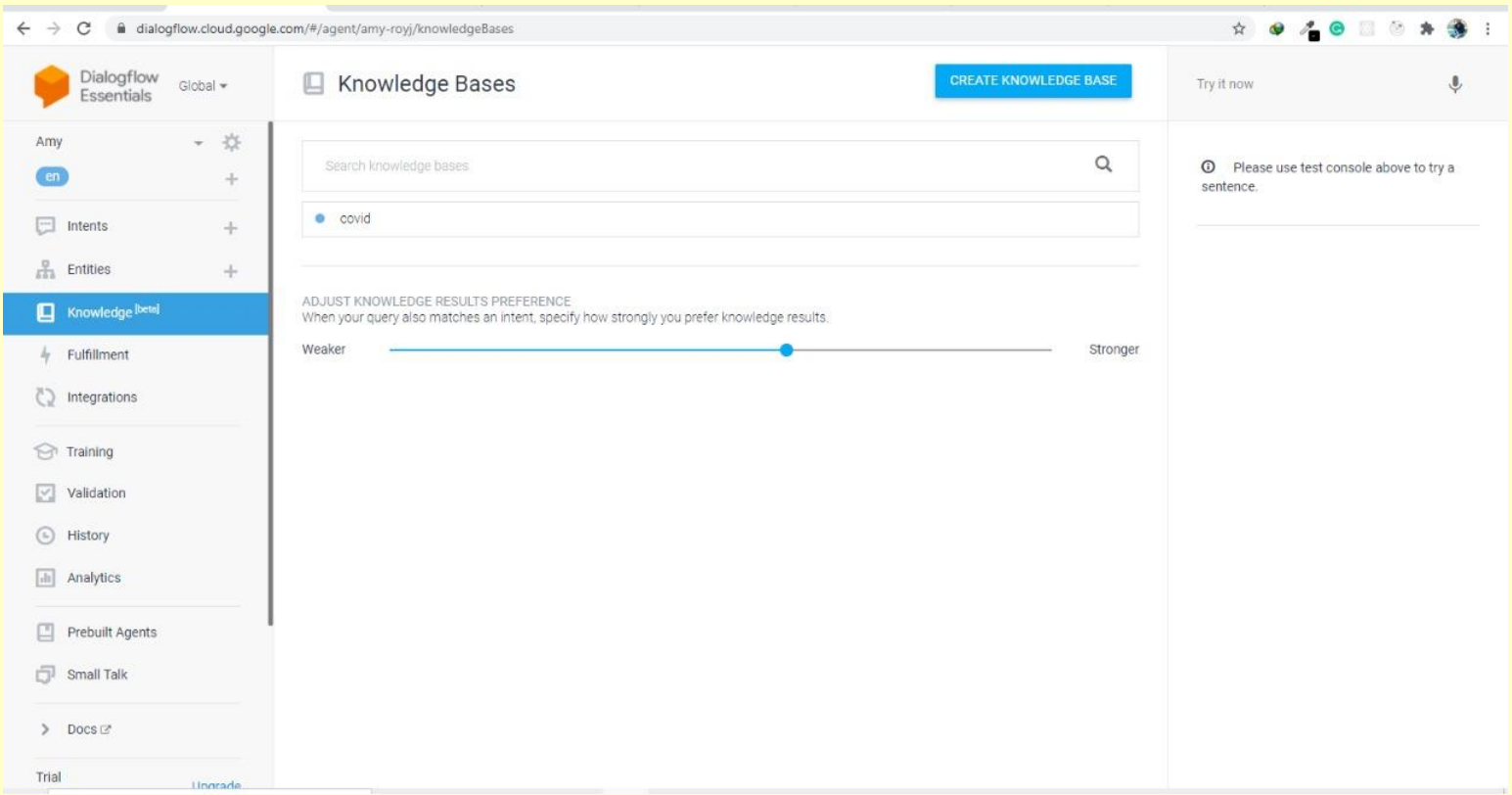




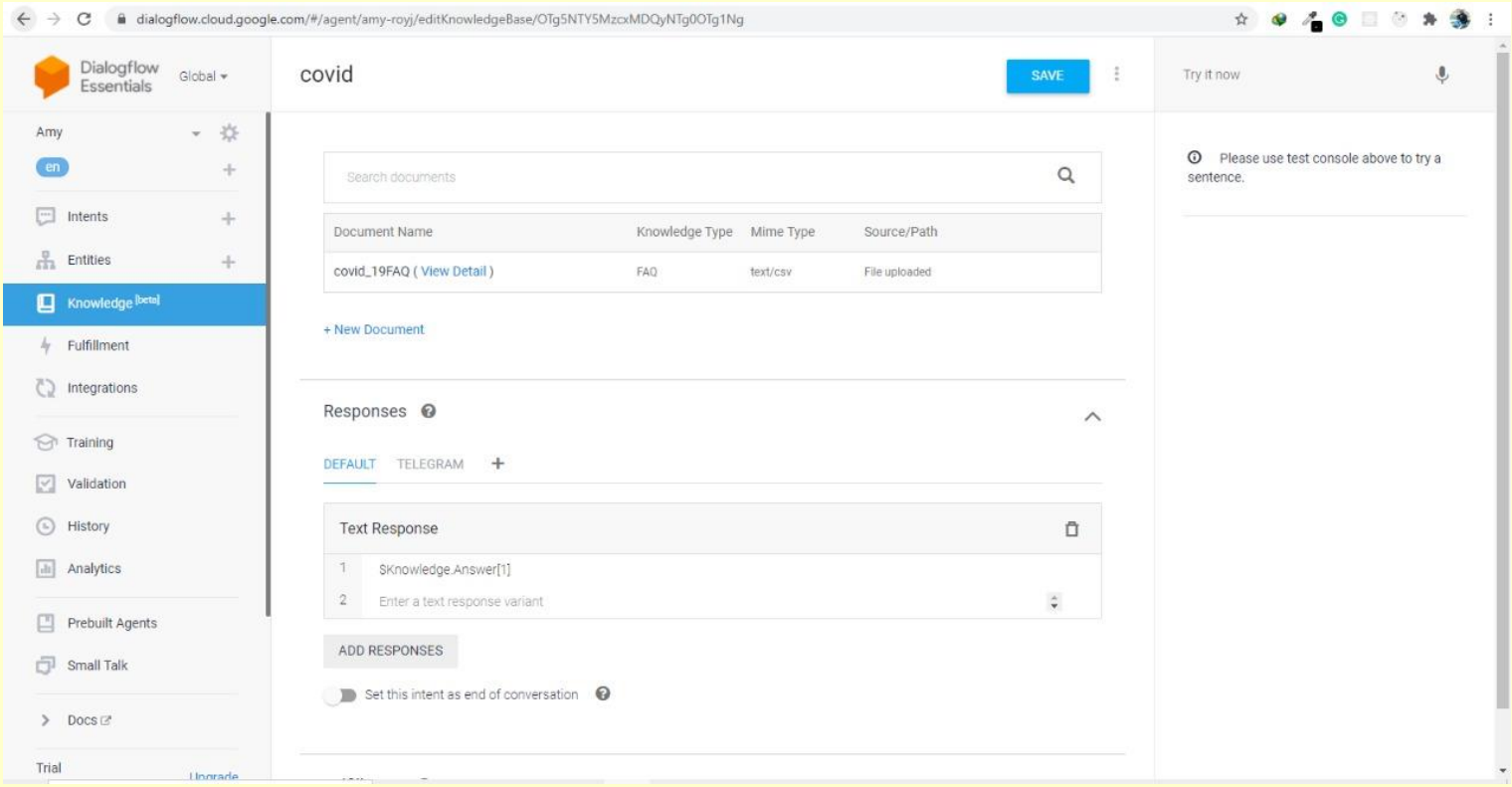
5.2. Entities:

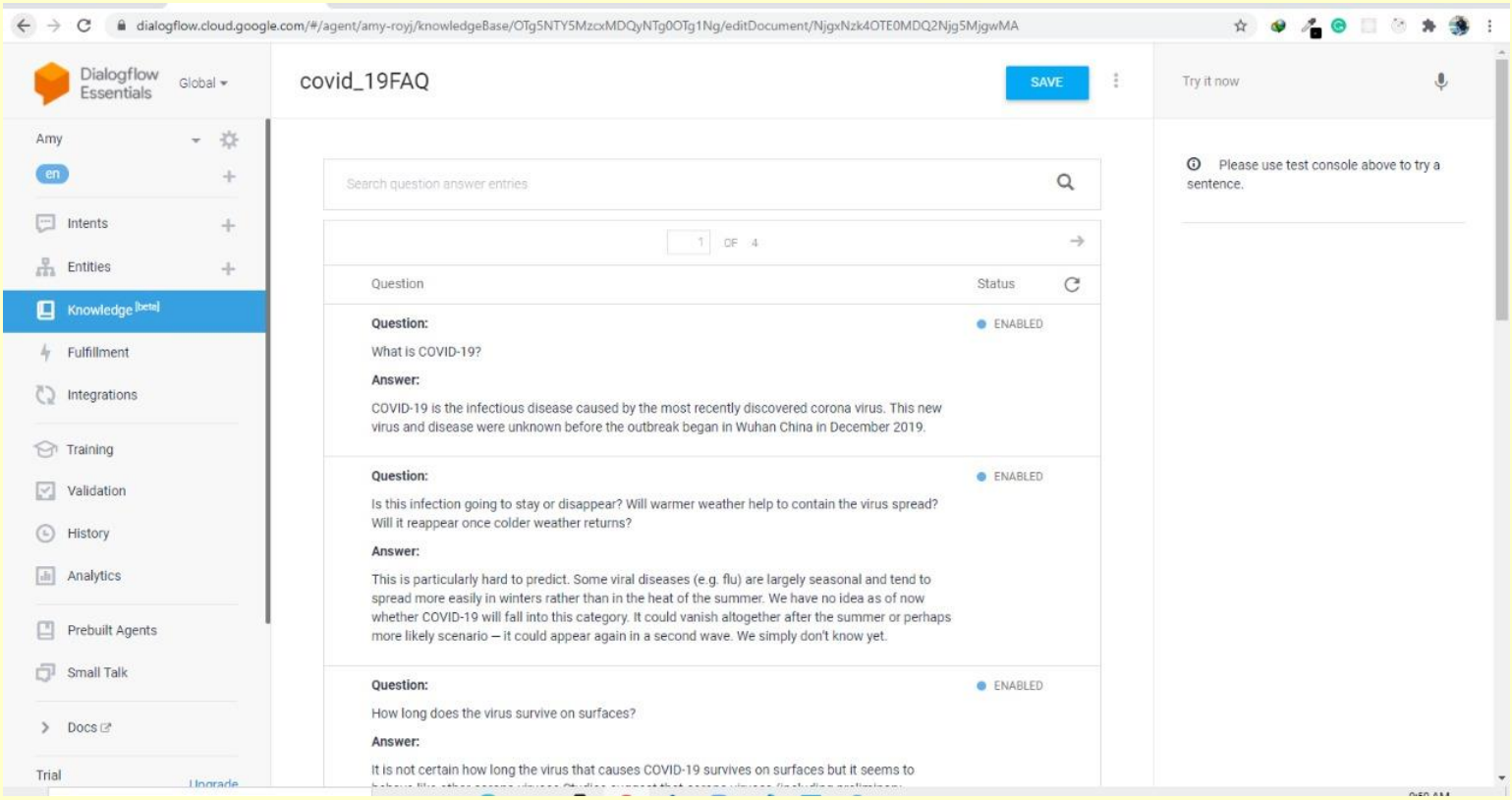


5.3. Knowledge Base:

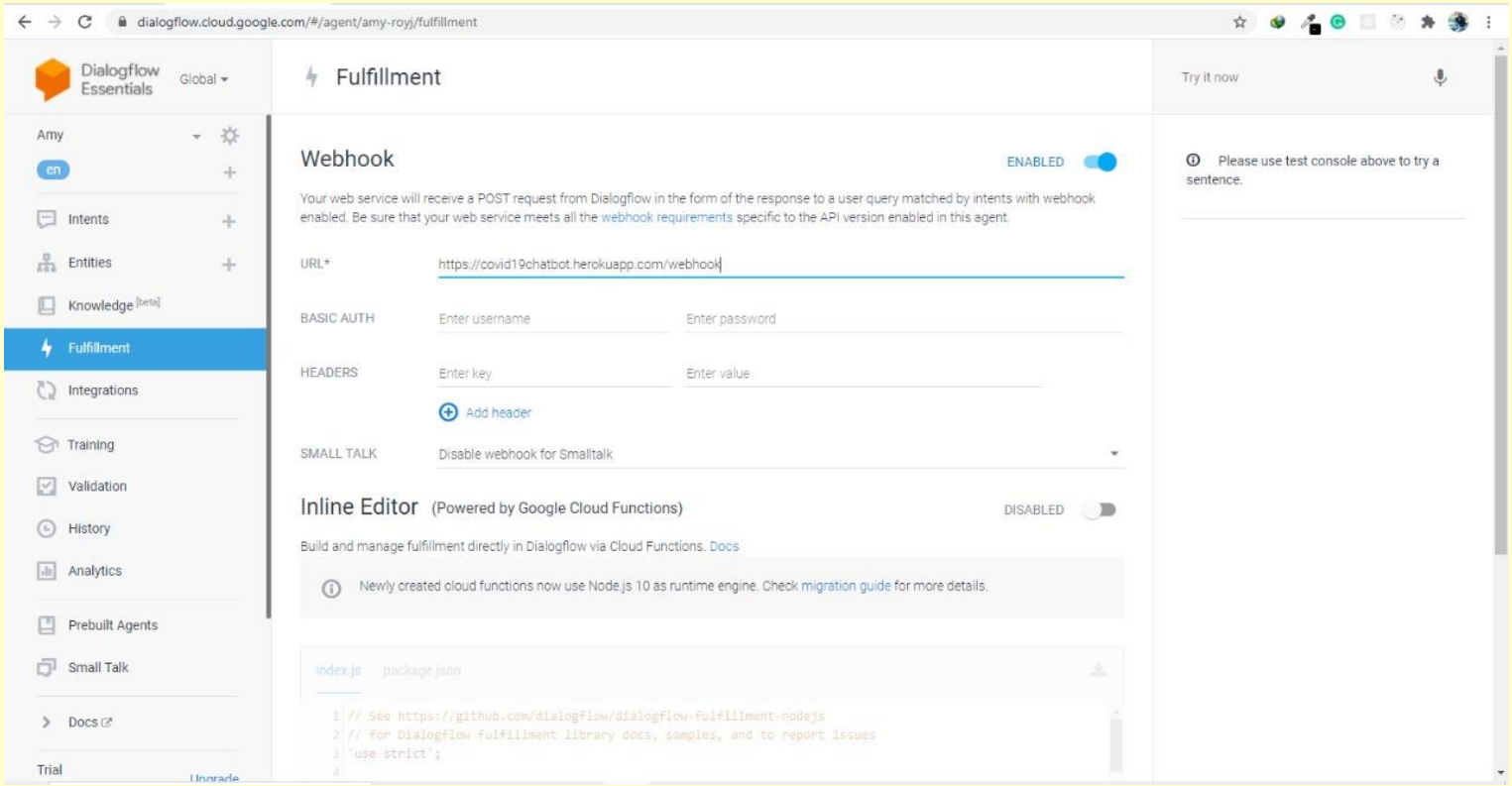


5.4. Covid_19 FAQs:

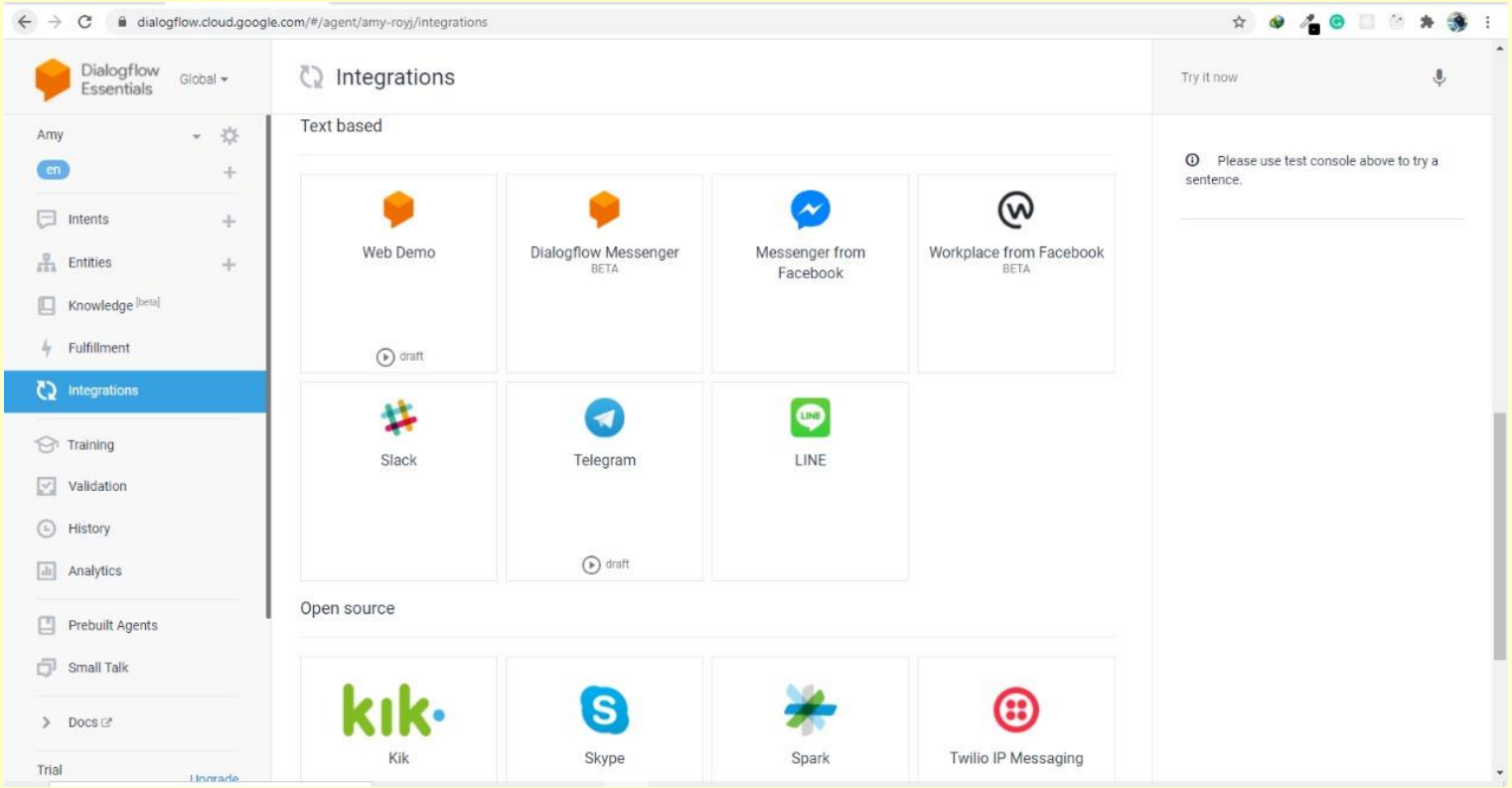




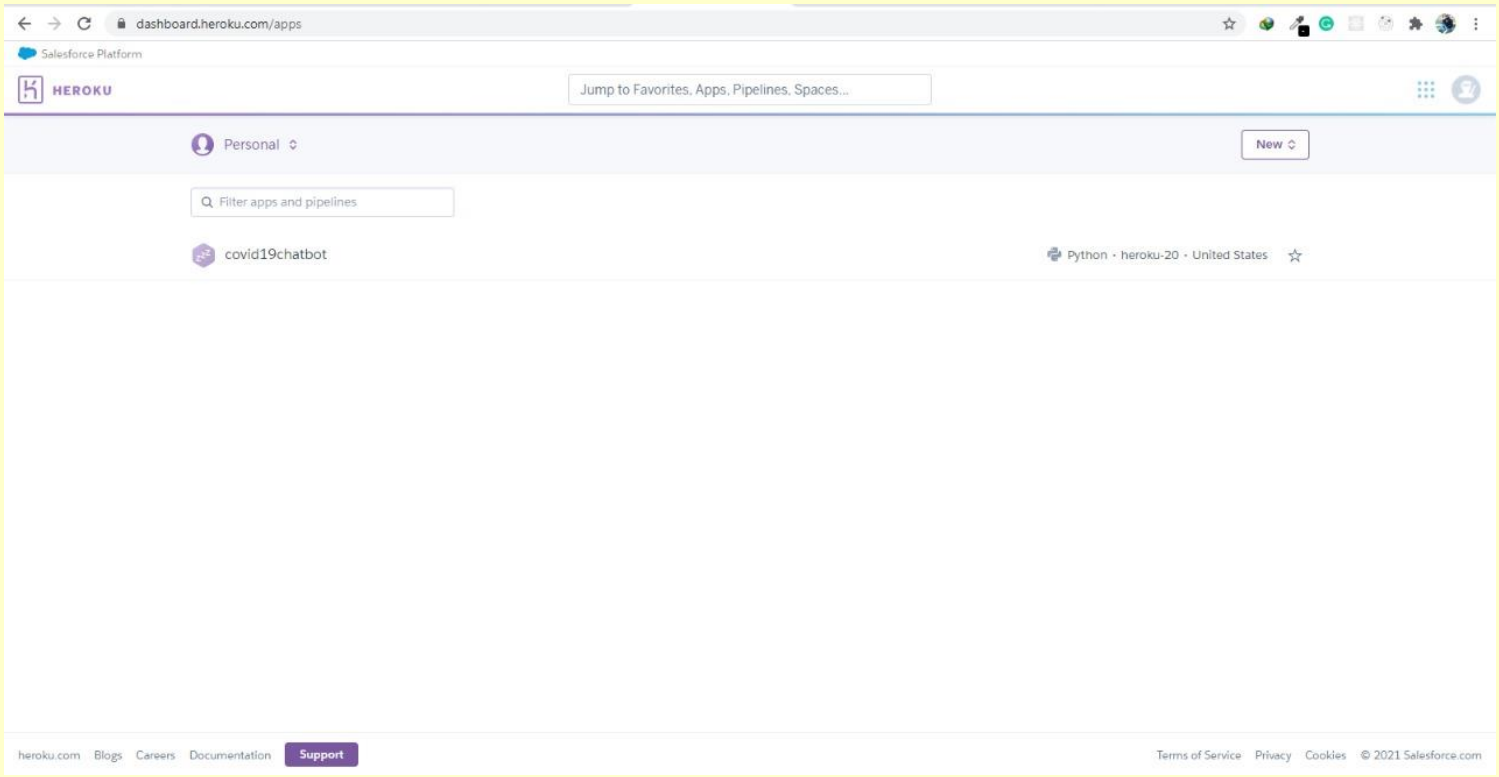
5.5. Fulfilment:



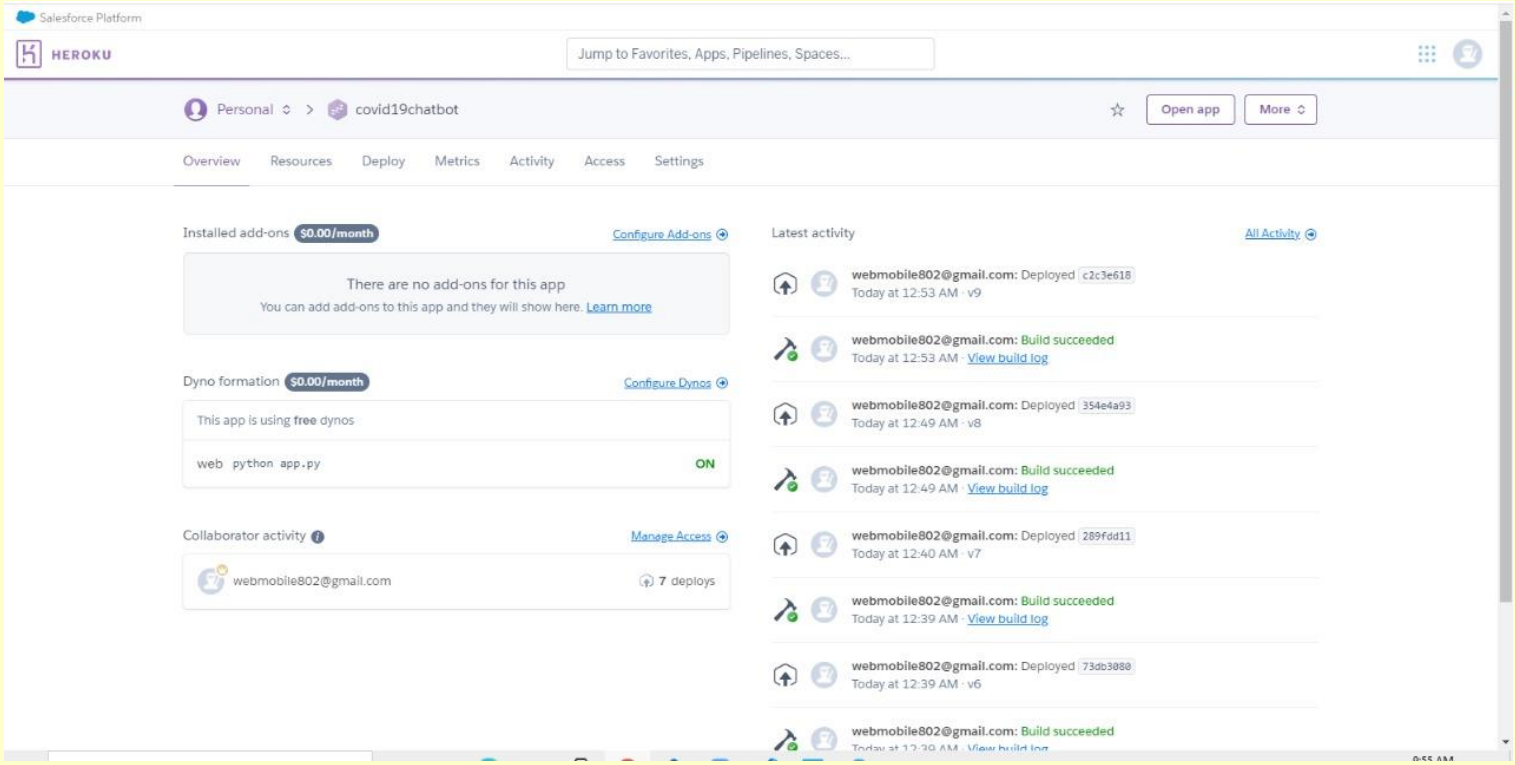
5.6. Integration:



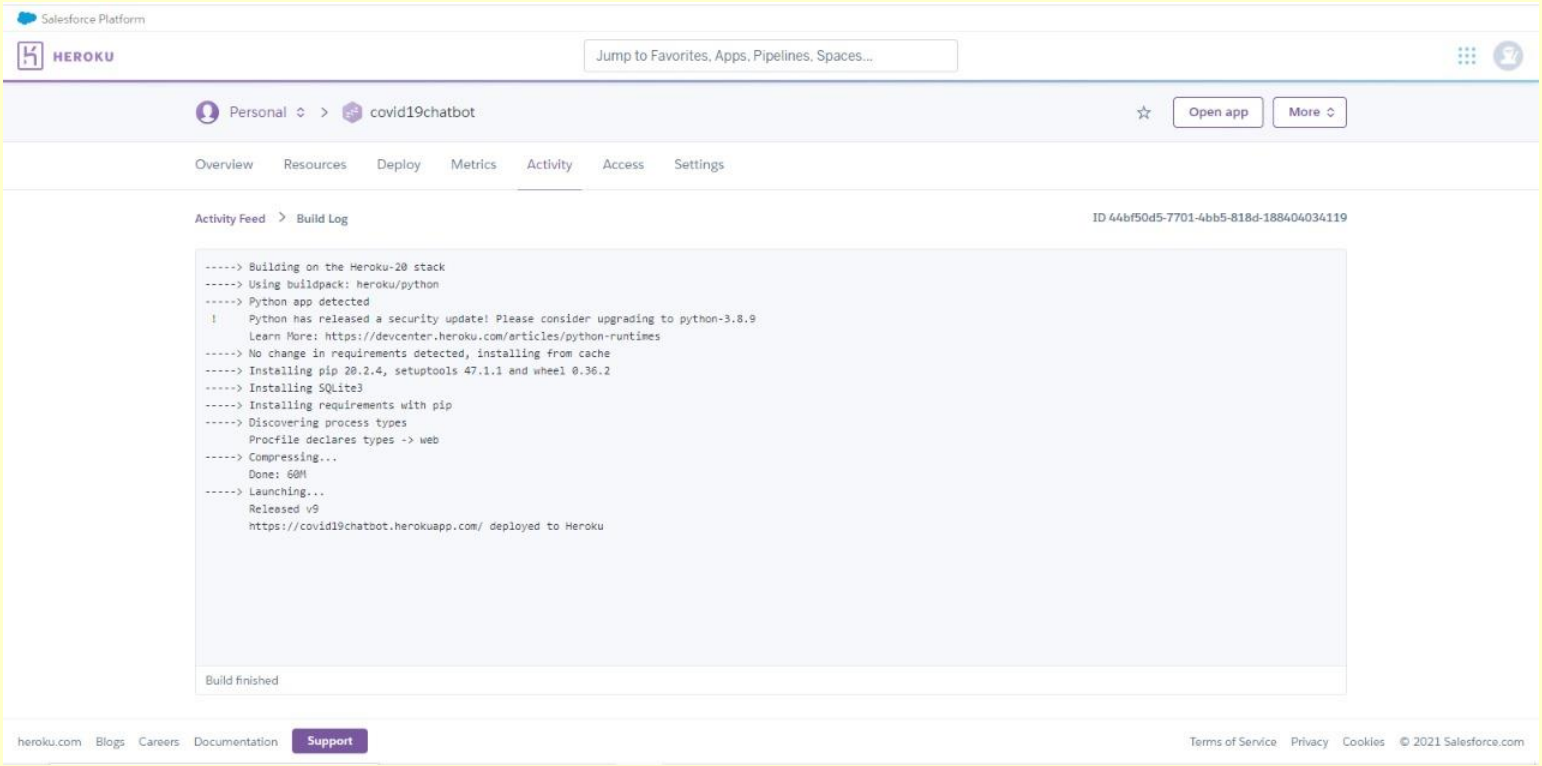
6.0. Heroku:



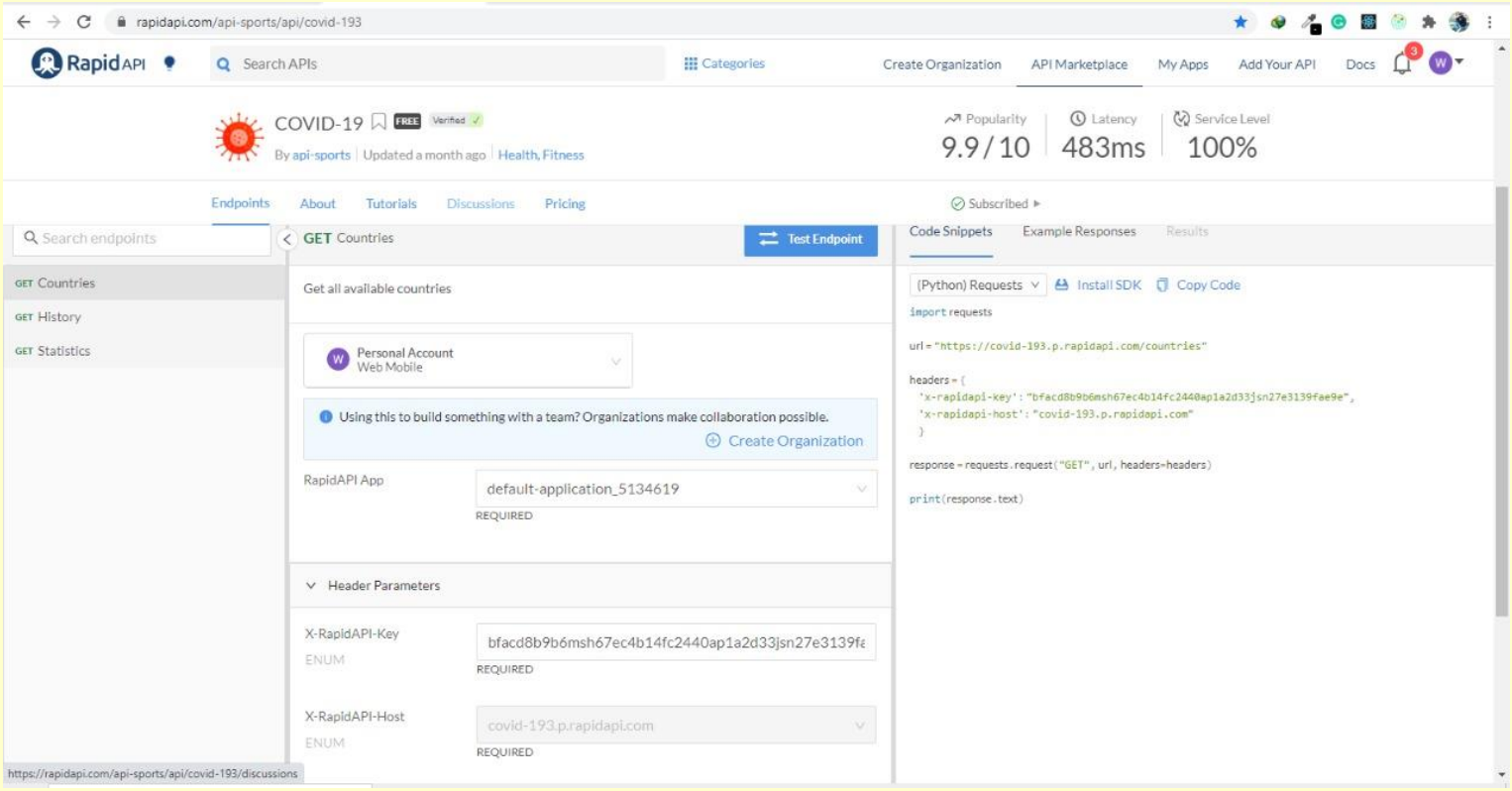
6.1. Deployment log:



6.2. Build Log:

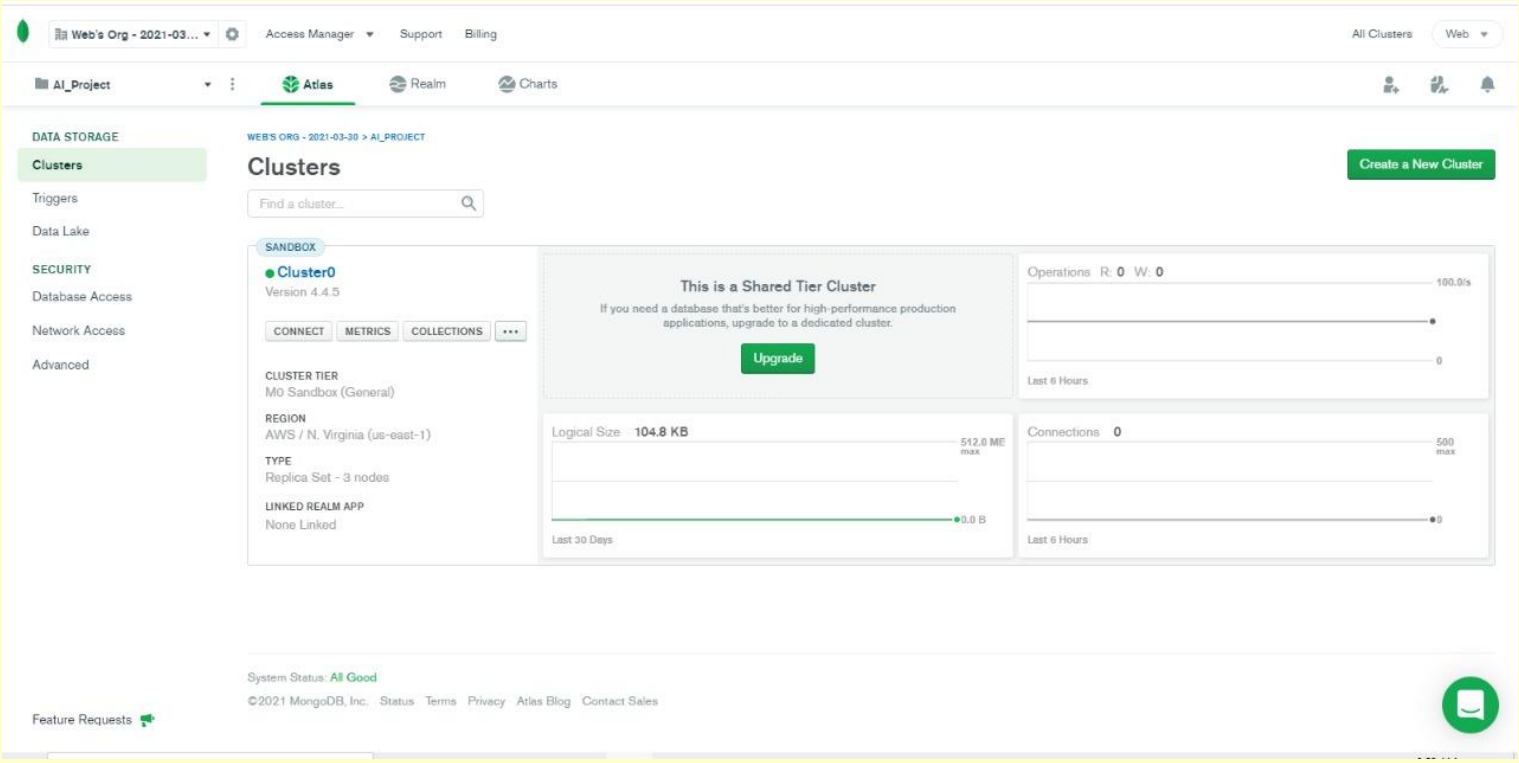

Salesforce Platform
HEROKU
Jump to Favorites, Apps, Pipelines, Spaces...
Personal > covid19chatbot
Open app
More
Overview
Resources
Deploy
Metrics
Activity
Access
Settings
Activity Feed > Build Log
ID 44bf50d5-7701-4bb5-818d-188404034119
-----> Building on the Heroku-20 stack
-----> Using buildpack: heroku/python
-----> Python app detected
! Python has released a security update! Please consider upgrading to python-3.8.9
Learn More: https://devcenter.heroku.com/articles/python-runtimes
-----> No change in requirements detected, installing from cache
-----> Installing pip 20.2.4, setuptools 47.1.1 and wheel 0.36.2
-----> Installing SQLite3
-----> Installing requirements with pip
-----> Discovering process types
Procfile declares types -> web
-----> Compressing...
Done: 60M
-----> Launching...
Released v9
https://covid19chatbot.herokuapp.com/ deployed to Heroku
Build finished
heroku.com
Blogs
Careers
Documentation
Support
Terms of Service
Privacy
Cookies
© 2021 Salesforce.com

7.0. Rapid API:

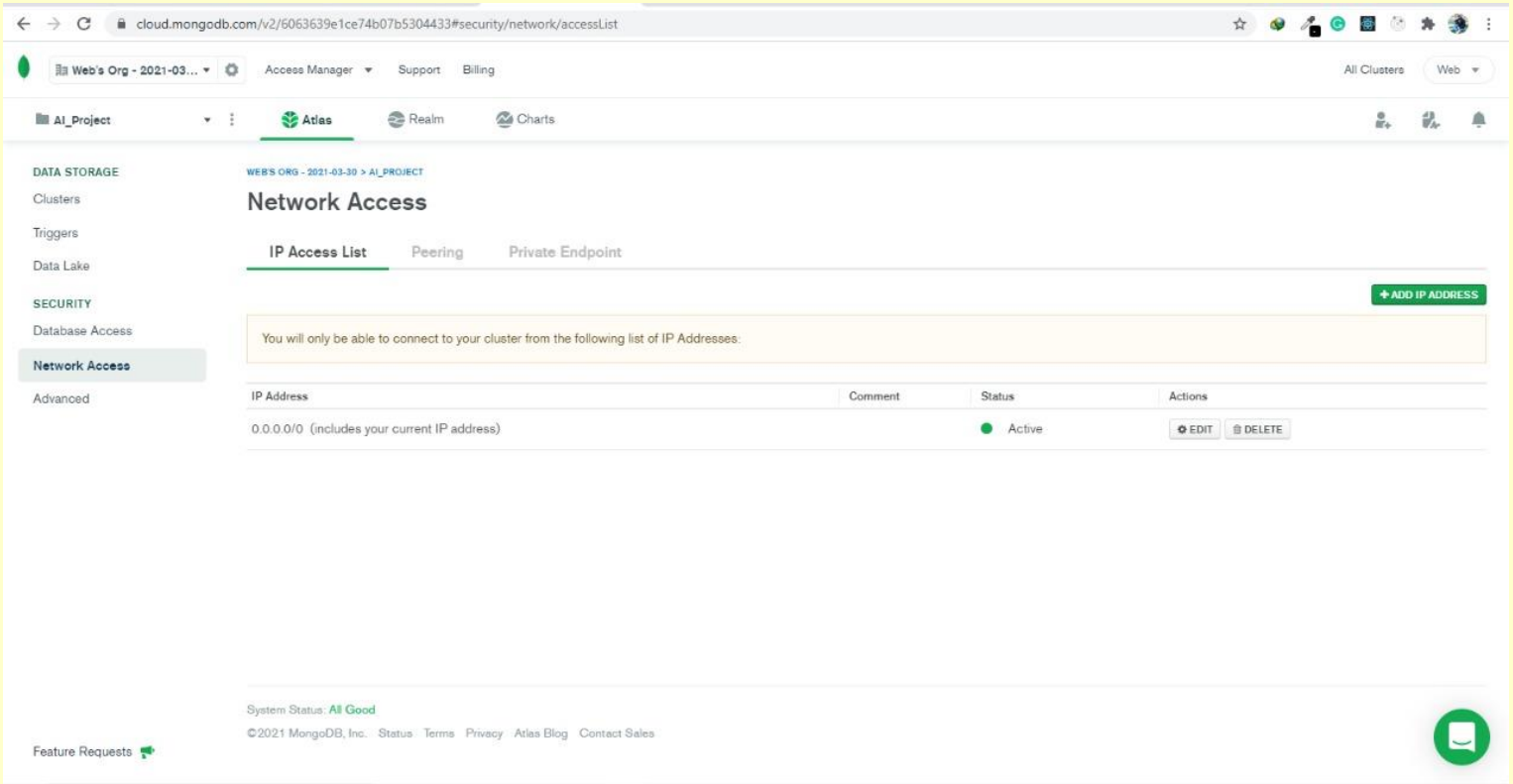

rapidapi.com/api-sports/api/covid-193
RapidAPI
Search APIs
Categories
Create Organization
API Marketplace
My Apps
Add Your API
Docs
COVID-19
FREE
Verified
By api-sports | Updated a month ago | Health, Fitness
Popularity
9.9 / 10
Latency
483ms
Service Level
100%
Endpoints
About
Tutorials
Discussions
Pricing
Subscribed
Search endpoints
GET Countries
GET History
GET Statistics
GET Countries
Test Endpoint
Get all available countries
Personal Account
Web Mobile
Using this to build something with a team? Organizations make collaboration possible.
Create Organization
RapidAPI App
default-application_5134619
REQUIRED
Header Parameters
X-RapidAPI-Key
ENUM
bfacd8b9b6msh67ec4b14fc2440ap1a2d33jsn27e3139fa
REQUIRED
X-RapidAPI-Host
ENUM
covid-193.p.rapidapi.com
REQUIRED
Code Snippets
Example Responses
Results
(Python) Requests
Install SDK
Copy Code
import requests
url = "https://covid-193.p.rapidapi.com/countries"
headers = {
'x-rapidapi-key': "bfacd8b9b6msh67ec4b14fc2440ap1a2d33jsn27e3139fae9e",
'x-rapidapi-host': "covid-193.p.rapidapi.com"
}
response = requests.request("GET", url, headers=headers)
print(response.text)
https://rapidapi.com/api-sports/api/covid-193/discussions

8.0. MongoDB:

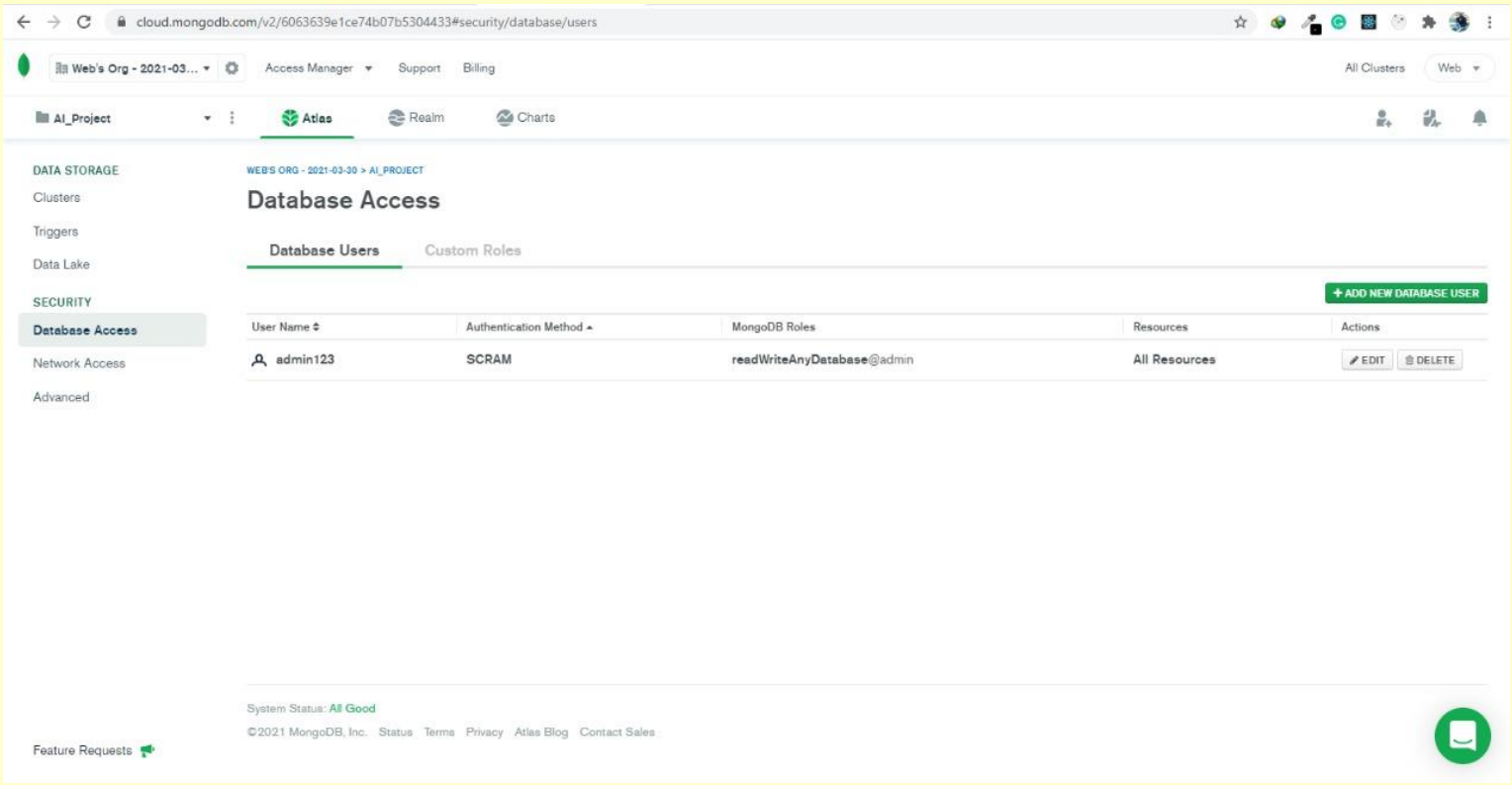
8.1. Cluster:



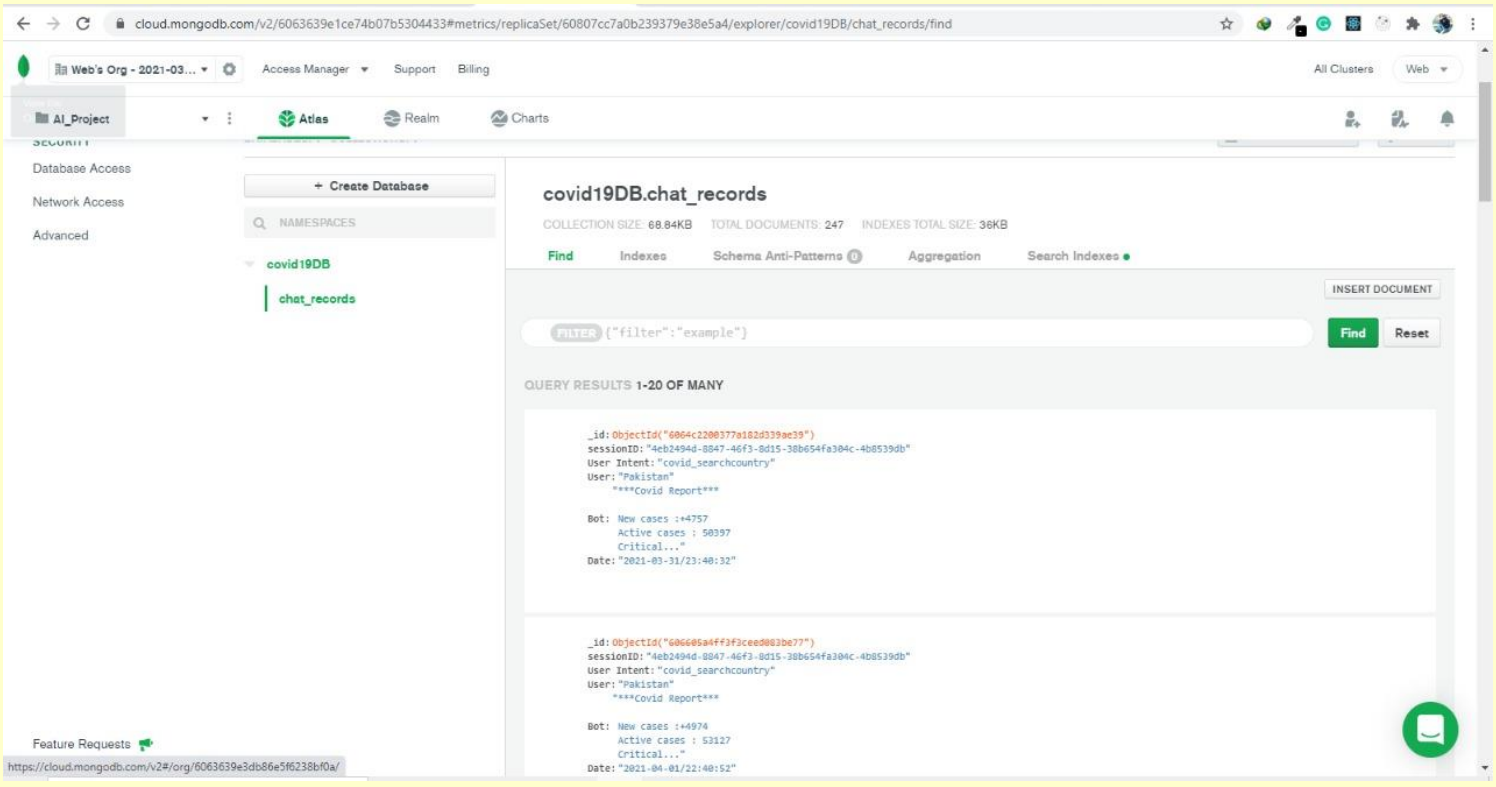
8.2. Network Access:



8.3. Database Access:

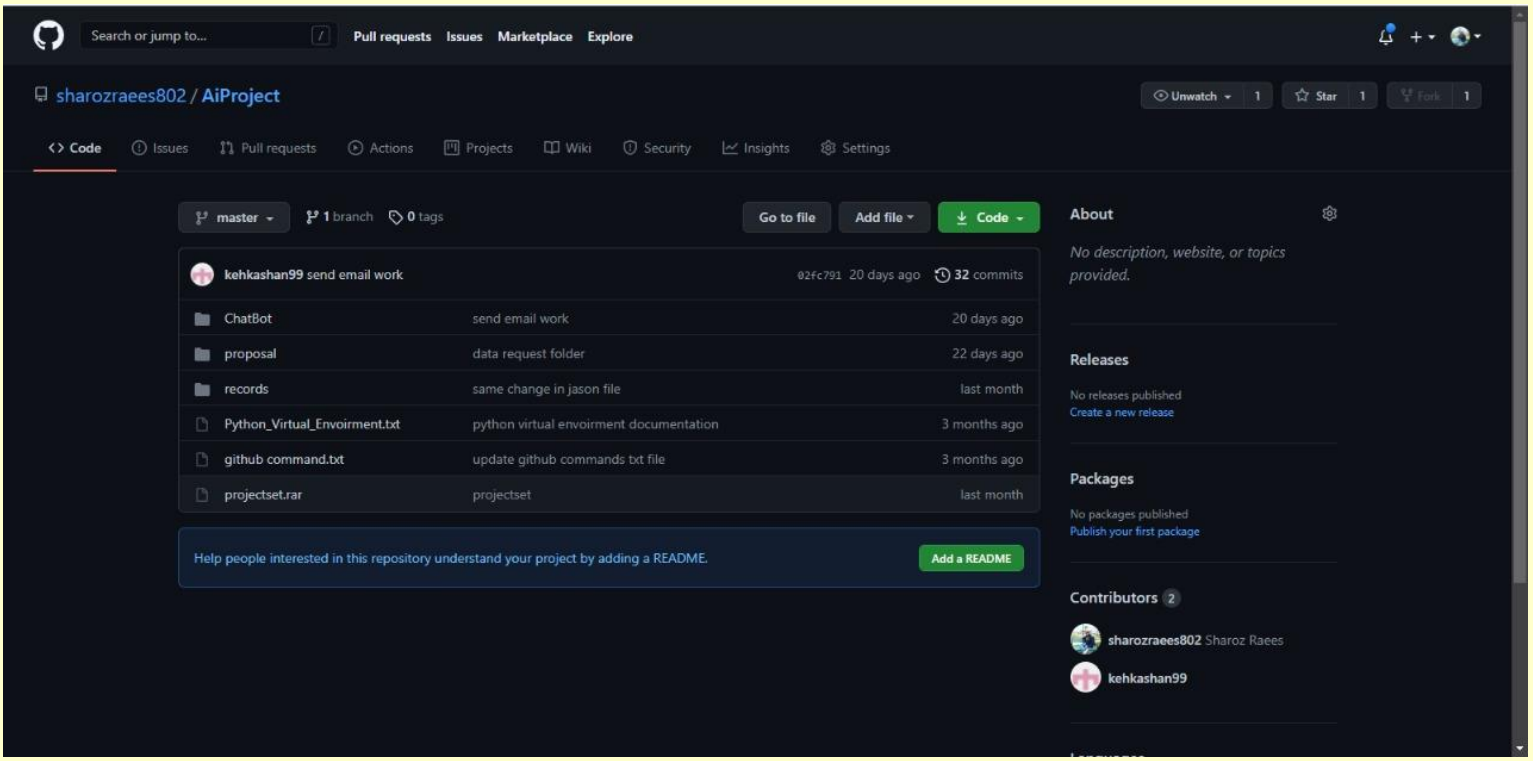


8.4. Covid 19 chat record collection:

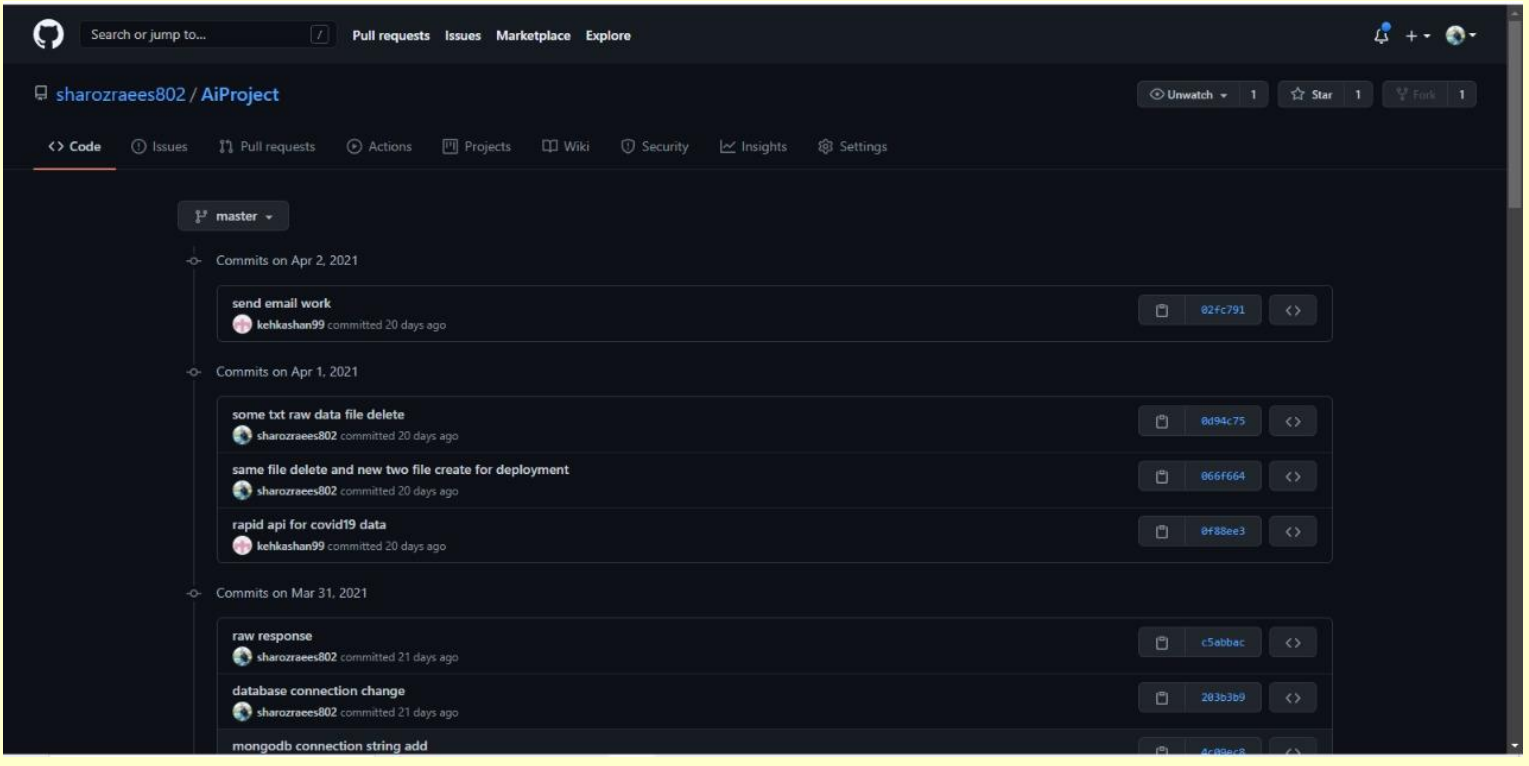


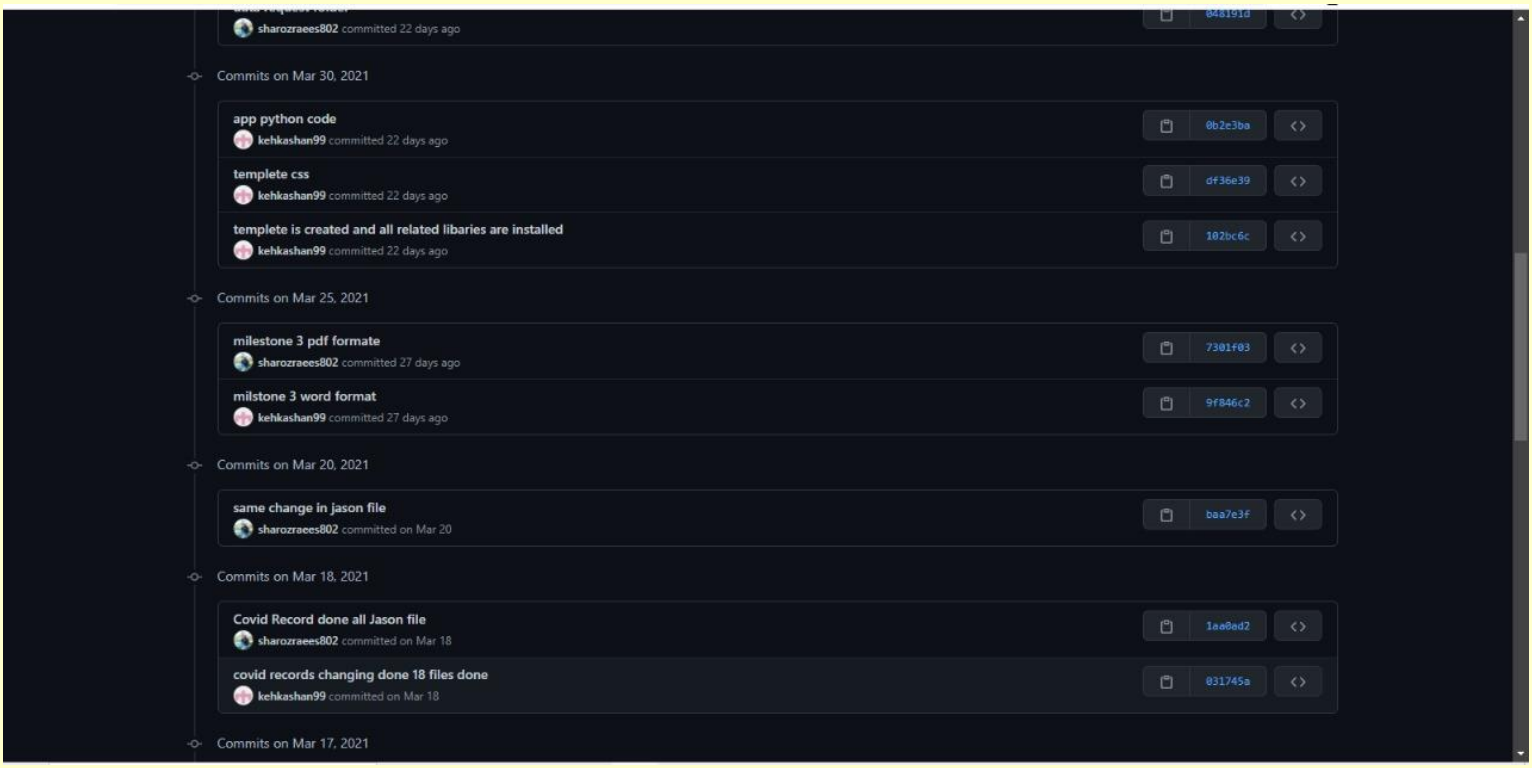
9.0. Git Hub:

9.1. Repository:



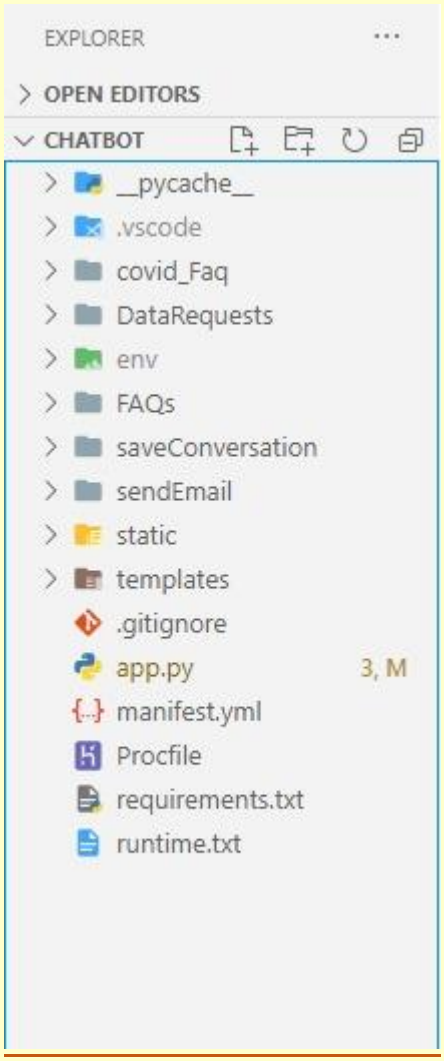
9.2. Commit Log:



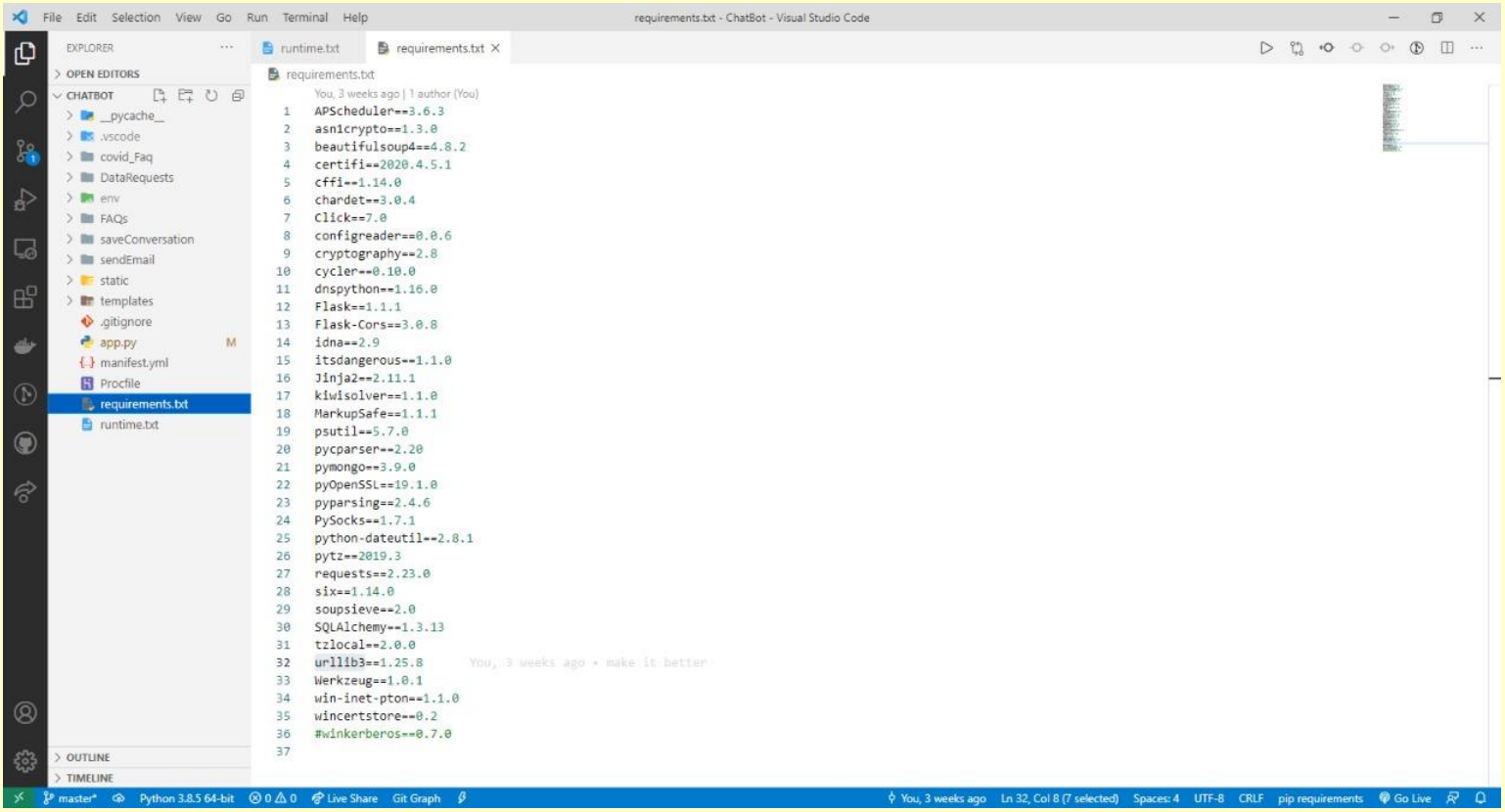

sharozraees802 committed 22 days ago
0481918
Commits on Mar 30, 2021
app python code
kehkashan99 committed 22 days ago
0b2e3ba
templete css
kehkashan99 committed 22 days ago
df36e39
templete is created and all related libaries are installed
kehkashan99 committed 22 days ago
102bc6c
Commits on Mar 25, 2021
milestone 3 pdf formate
sharozraees802 committed 27 days ago
7301f03
milstone 3 word format
kehkashan99 committed 27 days ago
9f846c2
Commits on Mar 20, 2021
same change in jason file
sharozraees802 committed on Mar 20
baa7e3f
Commits on Mar 18, 2021
Covid Record done all Jason file
sharozraees802 committed on Mar 18
1aa0ad2
covid records changing done 18 files done
kehkashan99 committed on Mar 18
031745a
Commits on Mar 17, 2021

10.0. Code:

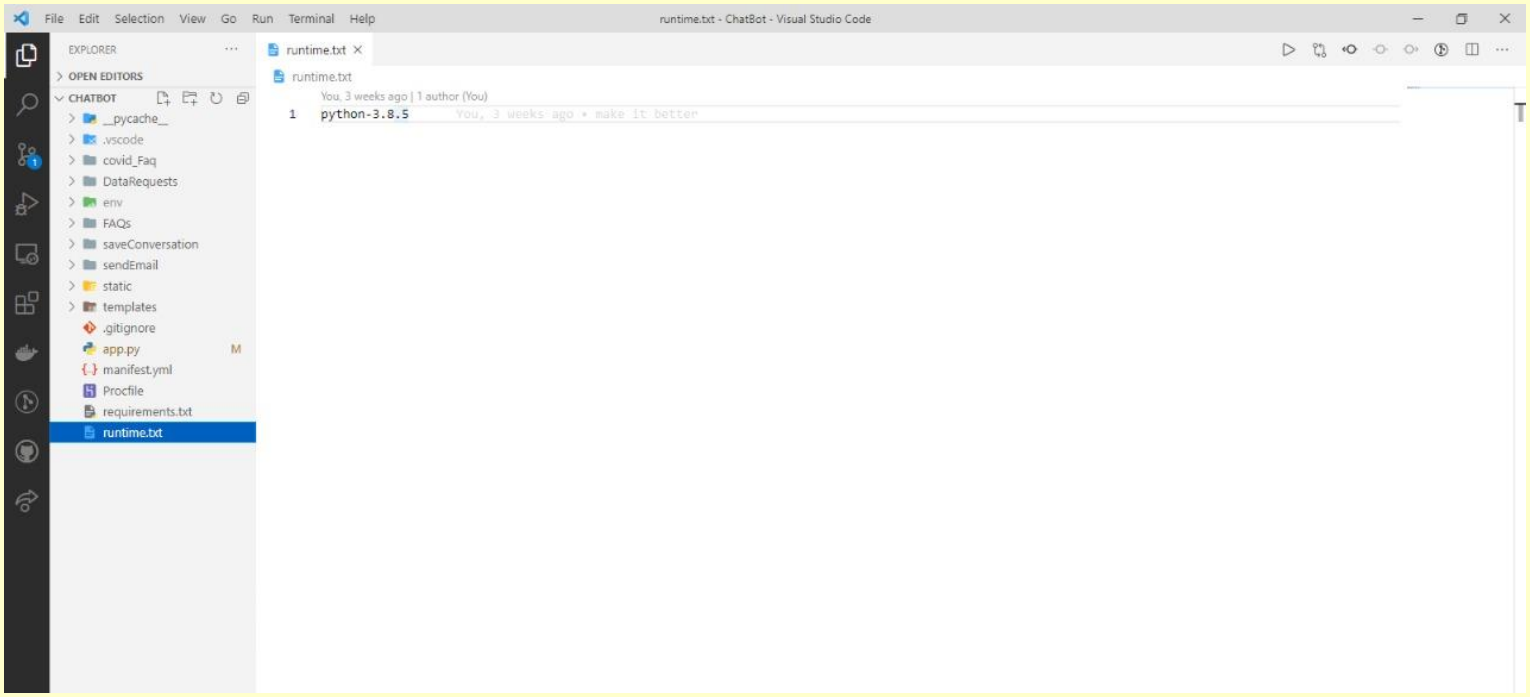
10.1. Code file directory:



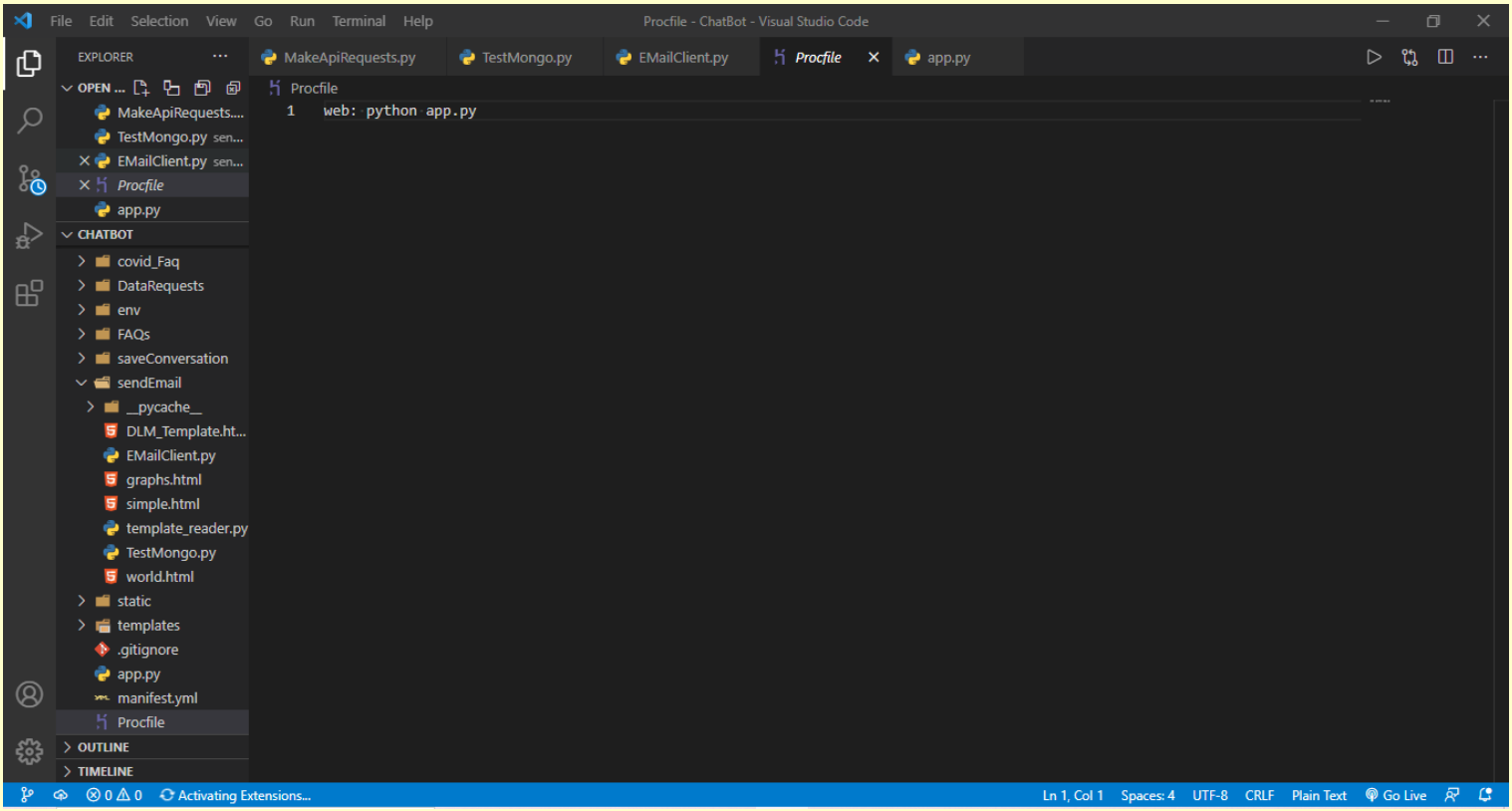
10.2. Requriment:



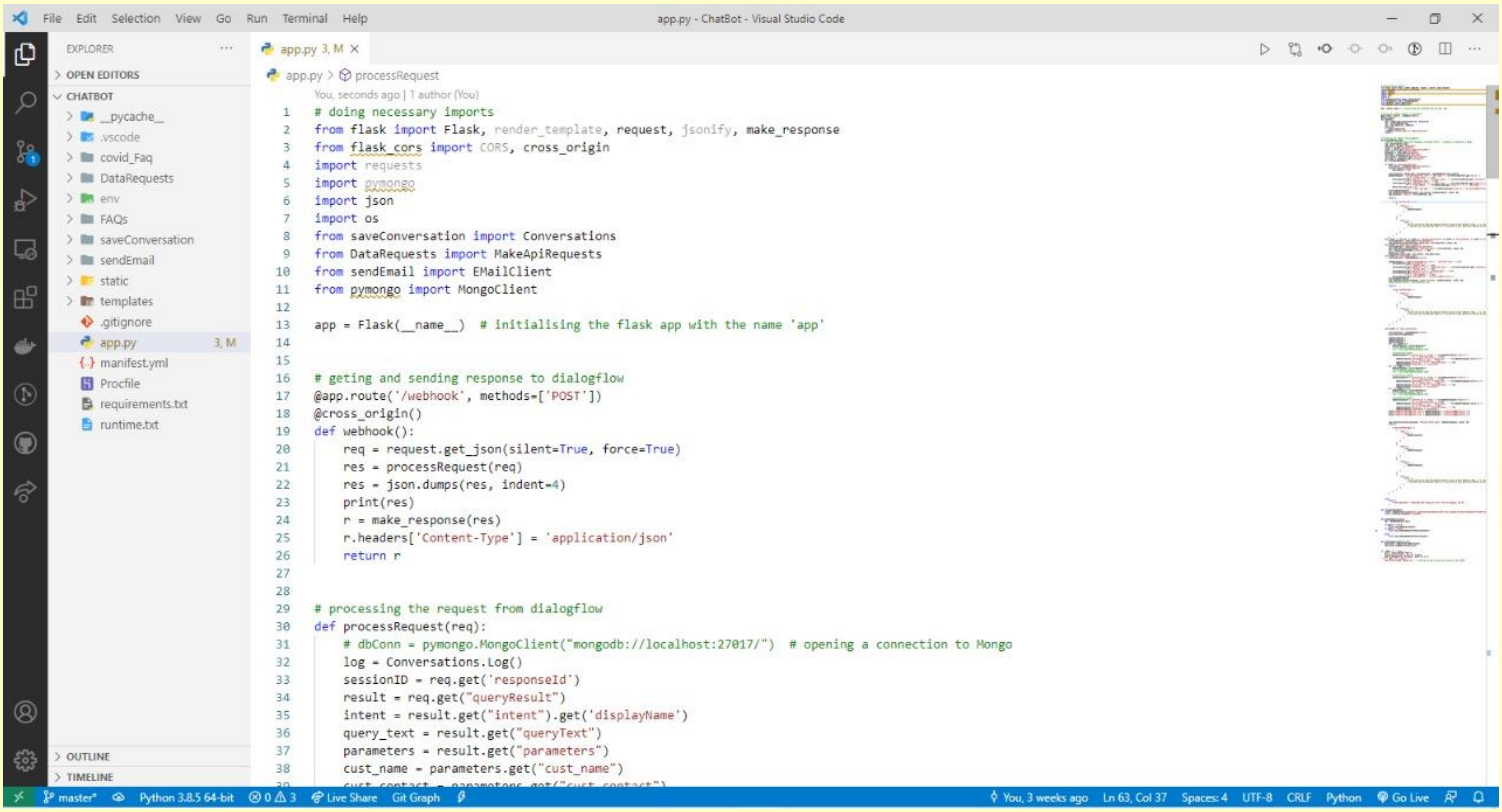
10.3. Runtime:

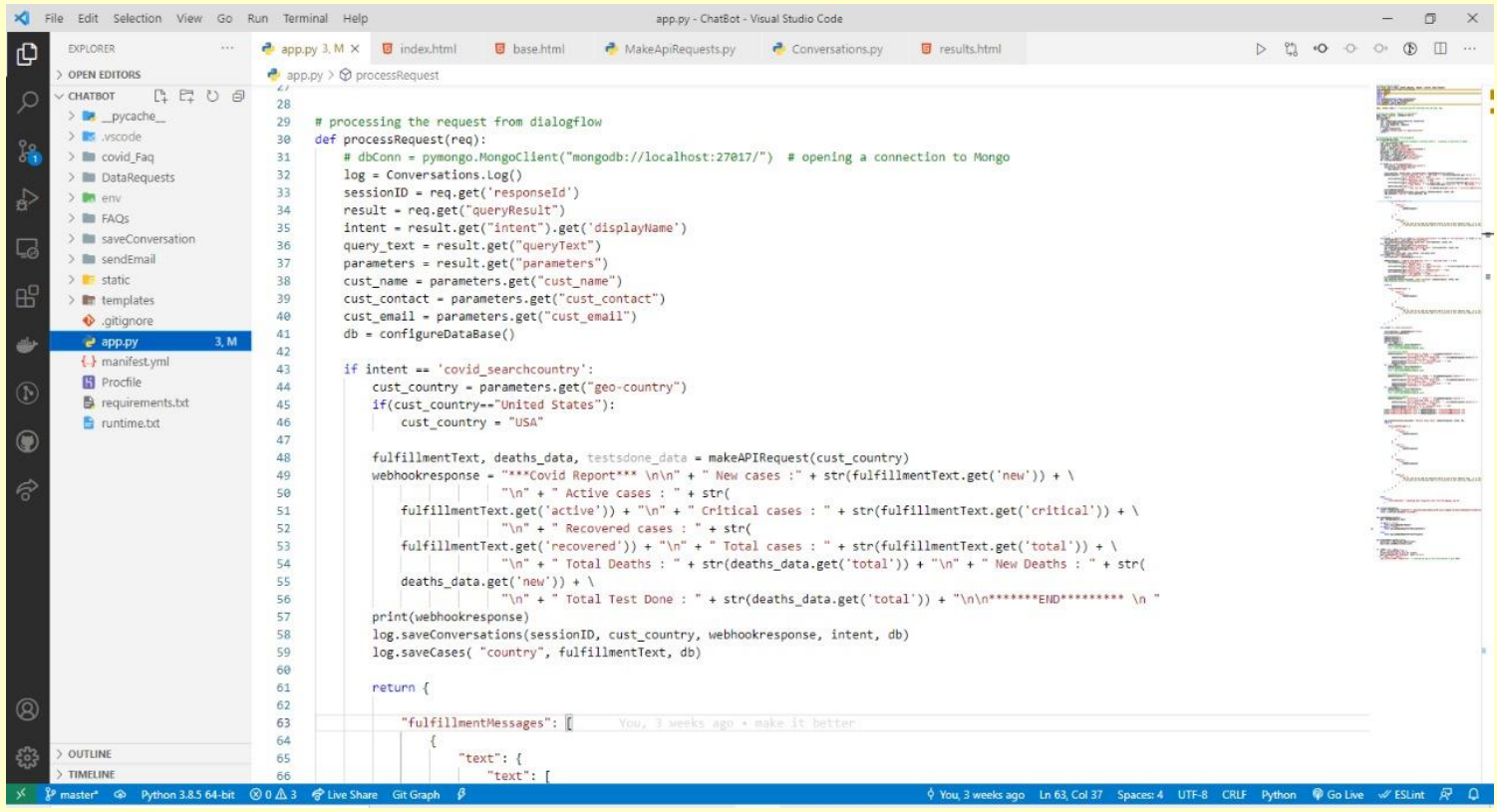


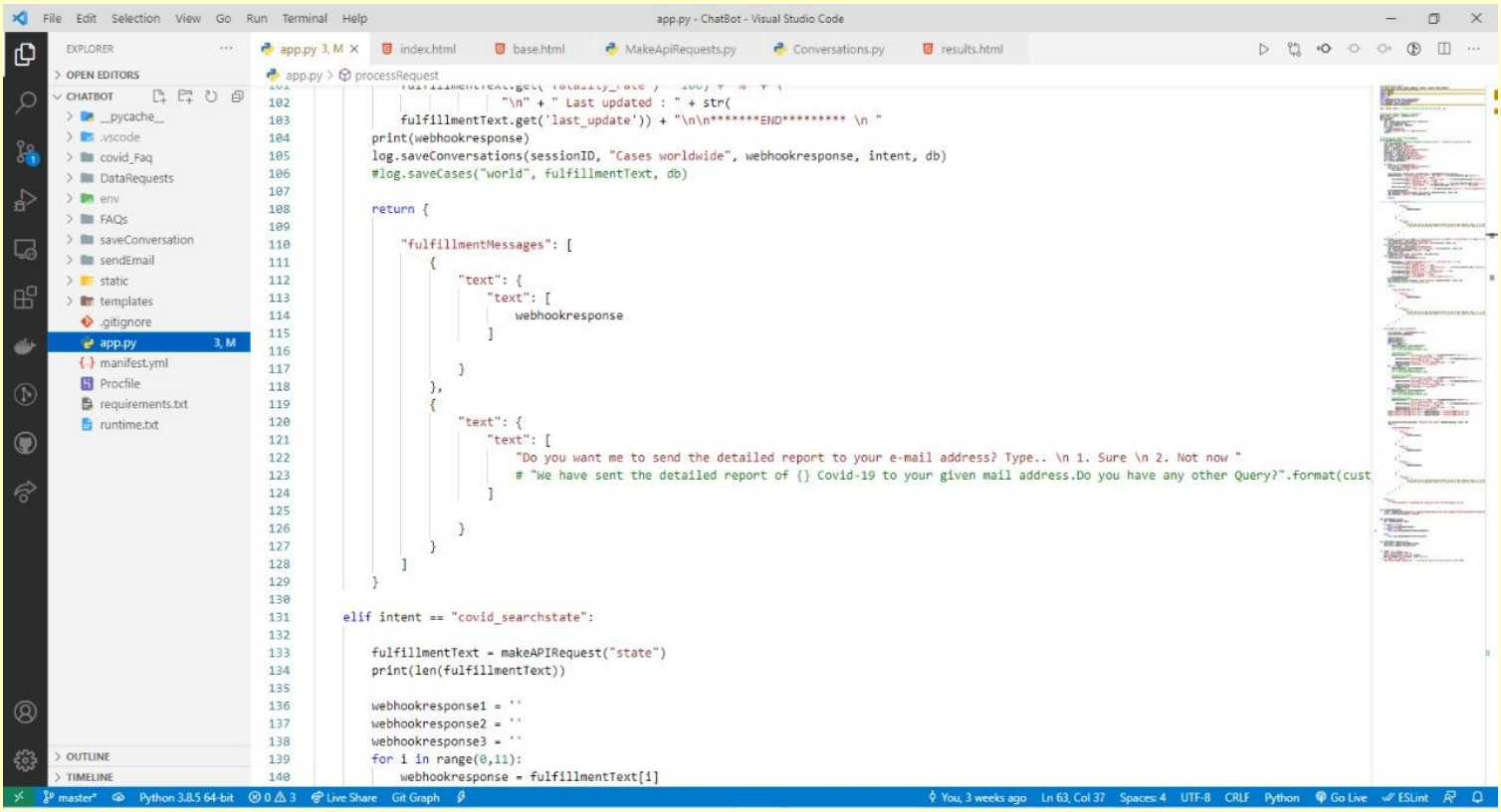
10.4. Procfile:

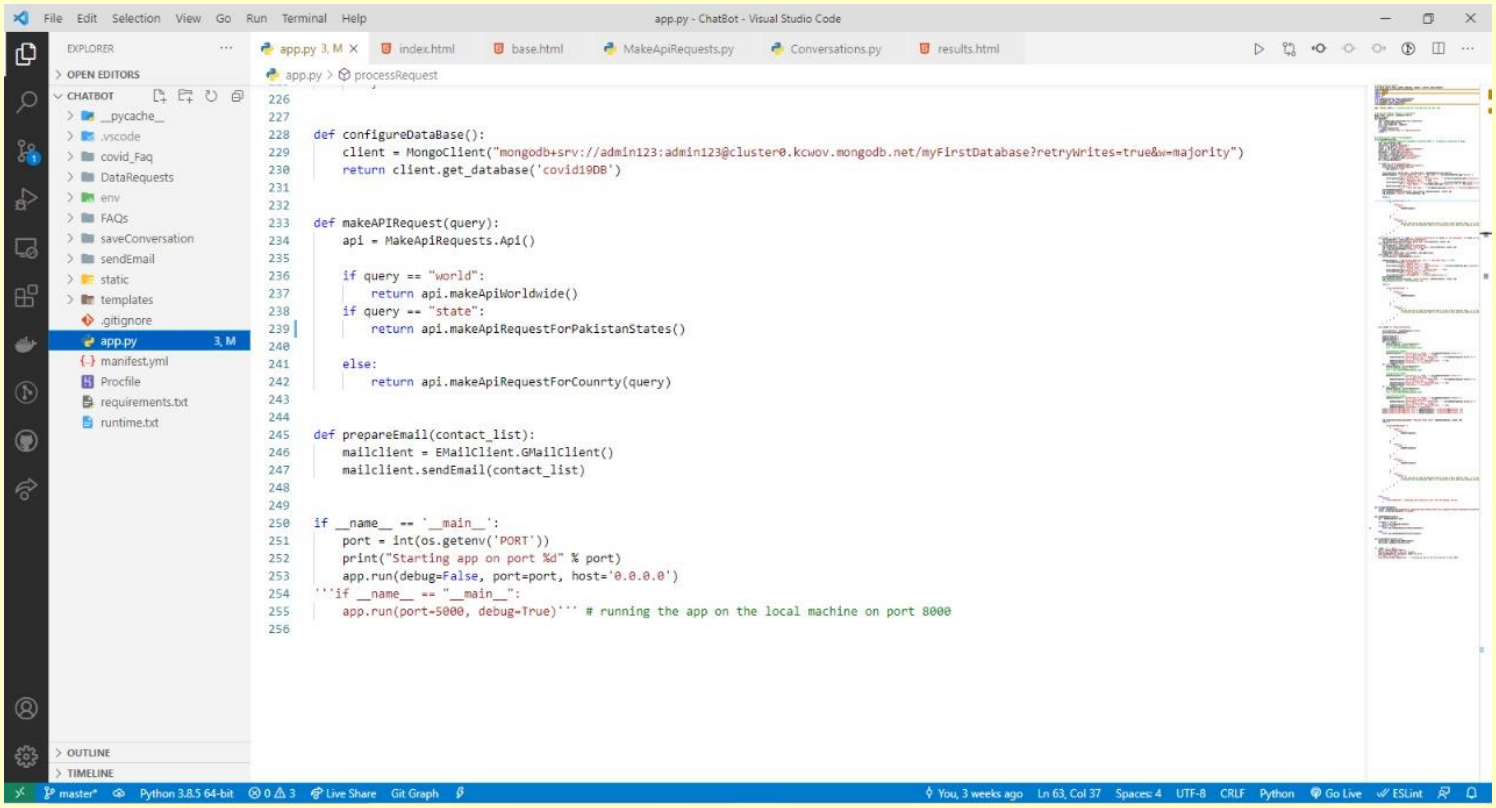


10.5. App.py:

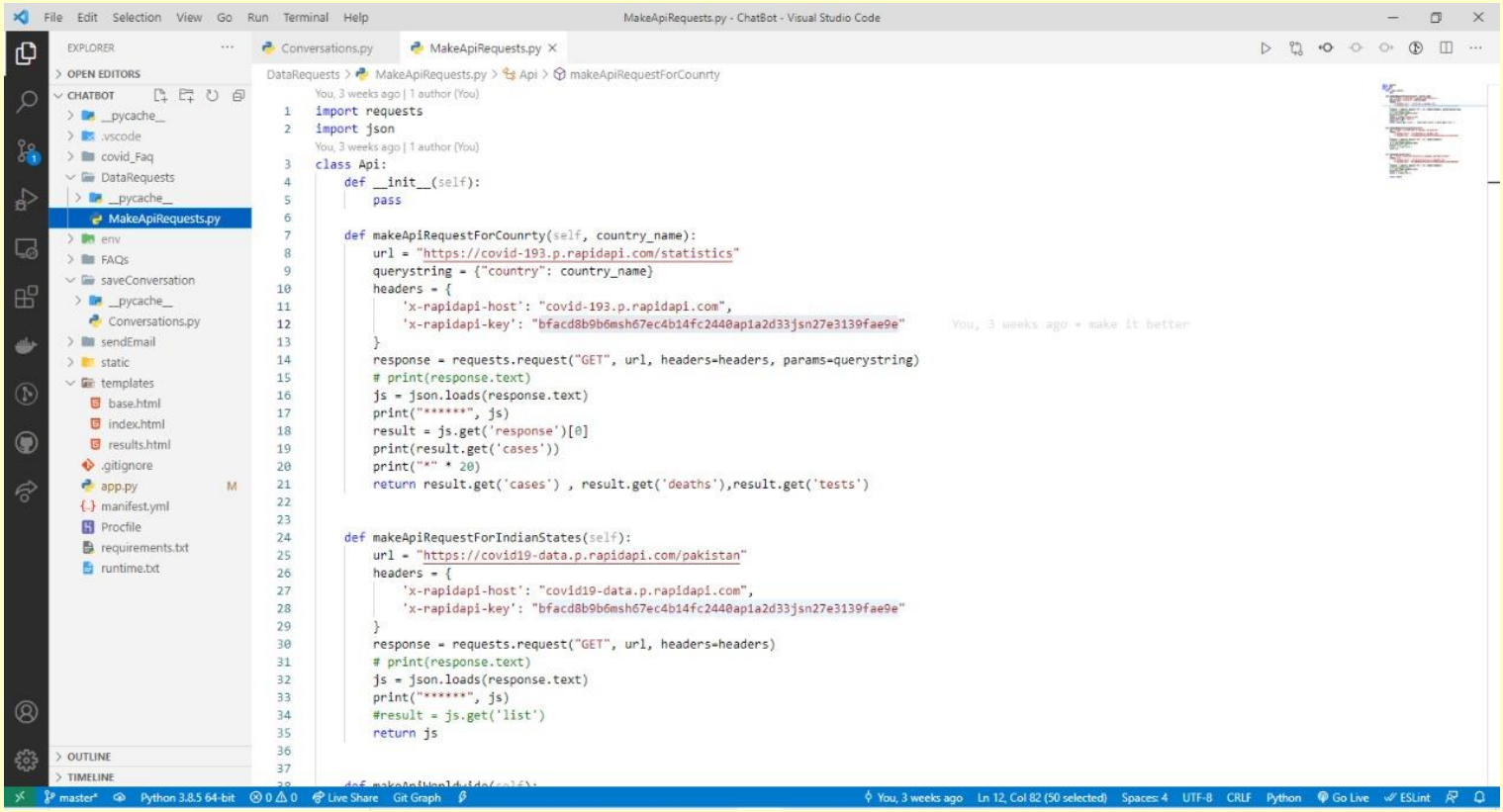

File Edit Selection View Go Run Terminal Help
app.py - ChatBot - Visual Studio Code
EXPLORER
OPEN EDITORS
CHATBOT
__pycache__
.vscode
covid_Faq
DataRequests
env
FAQs
saveConversation
sendEmail
static
templates
.gitignore
app.py 3, M
manifest.yml
Procfile
requirements.txt
runtime.txt
OUTLINE
TIMELINE
app.py 3, M
app.py > processRequest
You, seconds ago | 1 author (You)
# doing necessary imports
from flask import Flask, render_template, request, jsonify, make_response
from flask_cors import CORS, cross_origin
import requests
import pymongo
import json
import os
from saveConversation import Conversations
from DataRequests import MakeApiRequests
from sendEmail import EMailClient
from pymongo import MongoClient
app = Flask(__name__) # initialising the flask app with the name 'app'
# geting and sending response to dialogflow
@app.route('/webhook', methods=['POST'])
@cross_origin()
def webhook():
req = request.get_json(silent=True, force=True)
res = processRequest(req)
res = json.dumps(res, indent=4)
print(res)
r = make_response(res)
r.headers['Content-Type'] = 'application/json'
return r
# processing the request from dialogflow
def processRequest(req):
# dbConn = pymongo.MongoClient("mongodb://localhost:27017/") # opening a connection to Mongo
log = Conversations.Log()
sessionID = req.get('responseId')
result = req.get("queryResult")
intent = result.get("intent").get('displayName')
query_text = result.get("queryText")
parameters = result.get("parameters")
cust_name = parameters.get("cust_name")
master* Python 3.8.5 64-bit 0 3 Live Share Git Graph
You, 3 weeks ago Ln 63, Col 37 Spaces: 4 UTF-8 CRLF Python Go Live


File Edit Selection View Go Run Terminal Help
app.py - ChatBot - Visual Studio Code
app.py 3, M
index.html
base.html
MakeApiRequests.py
Conversations.py
results.html
app.py > processRequest
# processing the request from dialogflow
def processRequest(req):
# dbConn = pymongo.MongoClient("mongodb://localhost:27017/") # opening a connection to Mongo
log = Conversations.Log()
sessionID = req.get('responseId')
result = req.get("queryResult")
intent = result.get("intent").get('displayName')
query_text = result.get("queryText")
parameters = result.get("parameters")
cust_name = parameters.get("cust_name")
cust_contact = parameters.get("cust_contact")
cust_email = parameters.get("cust_email")
db = configureDataBase()
if intent == 'covid_searchcountry':
cust_country = parameters.get("geo-country")
if(cust_country=="United States"):
cust_country = "USA"
fulfillmentText, deaths_data, testsdone_data = makeAPIRequest(cust_country)
webhookresponse = "***Covid Report*** \n\n" + " New cases :" + str(fulfillmentText.get('new')) + \
"\n" + " Active cases : " + str(
fulfillmentText.get('active')) + "\n" + " Critical cases : " + str(fulfillmentText.get('critical')) + \
"\n" + " Recovered cases : " + str(
fulfillmentText.get('recovered')) + "\n" + " Total cases : " + str(fulfillmentText.get('total')) + \
"\n" + " Total Deaths : " + str(deaths_data.get('total')) + "\n" + " New Deaths : " + str(
deaths_data.get('new')) + \
"\n" + " Total Test Done : " + str(deaths_data.get('total')) + "\n\n*******END******** \n "
print(webhookresponse)
log.saveConversations(sessionID, cust_country, webhookresponse, intent, db)
log.saveCases("country", fulfillmentText, db)
return {
"fulfillmentMessages": [You, 3 weeks ago • make it better
{
"text": {
"text": [
master* Python 3.8.5 64-bit 0 3 Live Share Git Graph
You, 3 weeks ago Ln 63, Col 37 Spaces: 4 UTF-8 CRLF Python Go Live ESLint


File Edit Selection View Go Run Terminal Help
app.py - ChatBot - Visual Studio Code
EXPLORER
app.py 3, M
index.html
base.html
MakeApiRequests.py
Conversations.py
results.html
app.py > processRequest
OPEN EDITORS
CHATBOT
__pycache__
.vscode
covid_Faq
DataRequests
env
FAQs
saveConversation
sendEmail
static
templates
.gitignore
app.py 3, M
manifest.yml
Procfile
requirements.txt
runtime.txt
OUTLINE
TIMELINE
"\n" + " Last updated : " + str(
fulfillmentText.get('last_update')) + "\n\n*******END********* \n "
print(webhookresponse)
log.saveConversations(sessionID, "Cases worldwide", webhookresponse, intent, db)
#log.saveCases("world", fulfillmentText, db)
return {
"fulfillmentMessages": [
{
"text": {
"text": [
webhookresponse
]
}
},
{
"text": {
"text": [
"Do you want me to send the detailed report to your e-mail address? Type.. \n 1. Sure \n 2. Not now "
"We have sent the detailed report of {} Covid-19 to your given mail address.Do you have any other Query?".format(cust
]
}
}
]
}
elif intent == "covid_searchstate":
fulfillmentText = makeAPIRequest("state")
print(len(fulfillmentText))
webhookresponse1 = ''
webhookresponse2 = ''
webhookresponse3 = ''
for i in range(0,11):
webhookresponse = fulfillmentText[i]
master*
Python 3.8.5 64-bit
0 3
Live Share
Git Graph
You, 3 weeks ago
Ln 63, Col 37
Spaces: 4
UTF-8
CRLF
Python
Go Live
ESLint

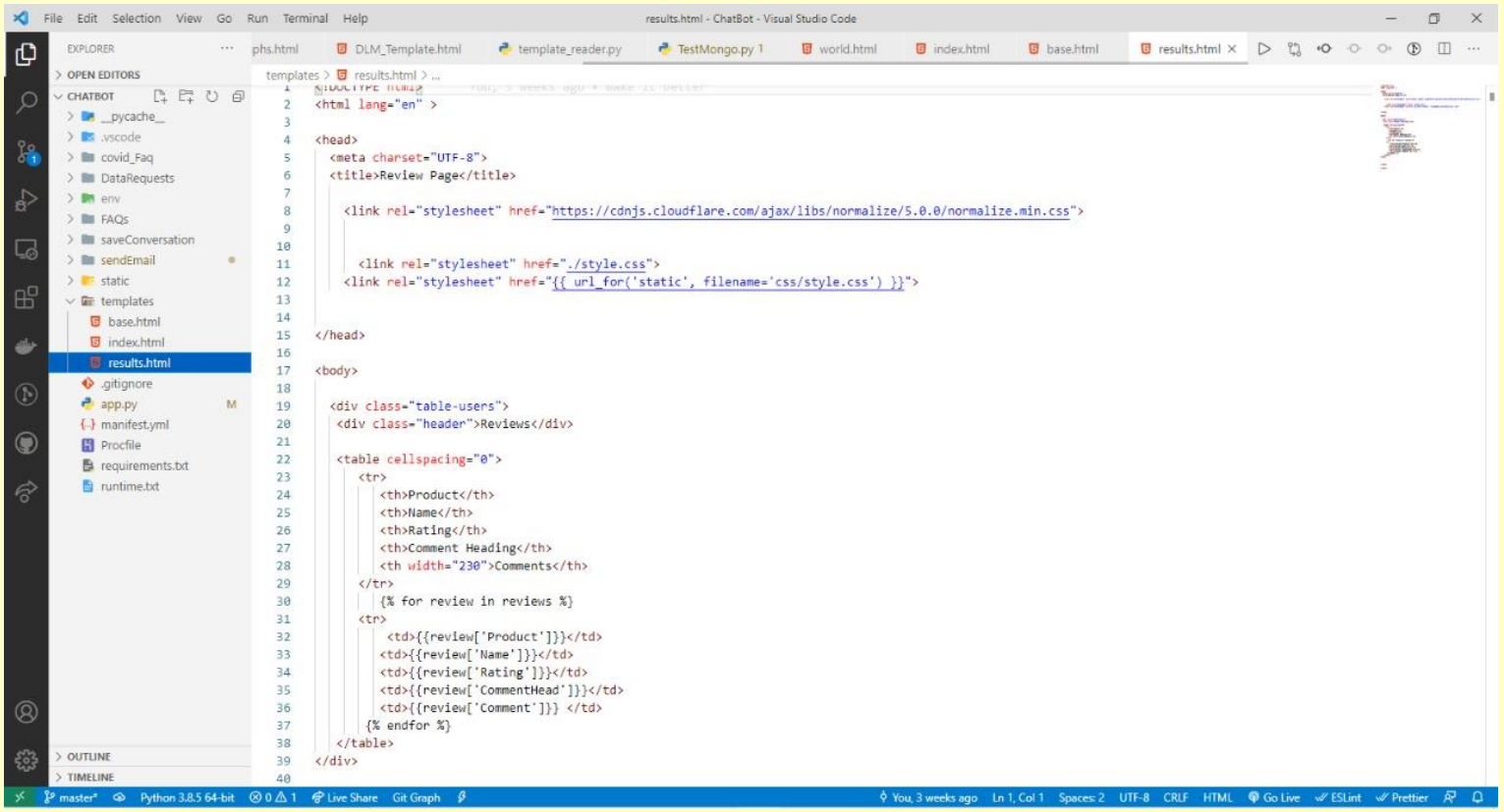

File Edit Selection View Go Run Terminal Help
app.py - ChatBot - Visual Studio Code
EXPLORER
app.py 3, M
index.html
base.html
MakeApiRequests.py
Conversations.py
results.html
app.py > processRequest
OPEN EDITORS
CHATBOT
__pycache__
.vscode
covid_Faq
DataRequests
env
FAQs
saveConversation
sendEmail
static
templates
.gitignore
app.py 3, M
manifest.yml
Procfile
requirements.txt
runtime.txt
OUTLINE
TIMELINE
def configureDataBase():
client = MongoClient("mongodb+srv://admin123:admin123@cluster0.kcwov.mongodb.net/myFirstDatabase?retryWrites=true&w=majority")
return client.get_database('covid19DB')
def makeAPIRequest(query):
api = MakeApiRequests.Api()
if query == "world":
return api.makeApiWorldwide()
if query == "state":
return api.makeApiRequestForPakistanStates()
else:
return api.makeApiRequestForCounrty(query)
def prepareEmail(contact_list):
mailclient = EMailClient.GMailClient()
mailclient.sendEmail(contact_list)
if __name__ == '__main__':
port = int(os.getenv('PORT'))
print("Starting app on port %d" % port)
app.run(debug=False, port=port, host='0.0.0.0')
'''if __name__ == "__main__":
app.run(port=5000, debug=True)''' # running the app on the local machine on port 8000
master*
Python 3.8.5 64-bit
0 3
Live Share
Git Graph
You, 3 weeks ago
Ln 63, Col 37
Spaces: 4
UTF-8
CRLF
Python
Go Live
ESLint

10.6. Make API Request:



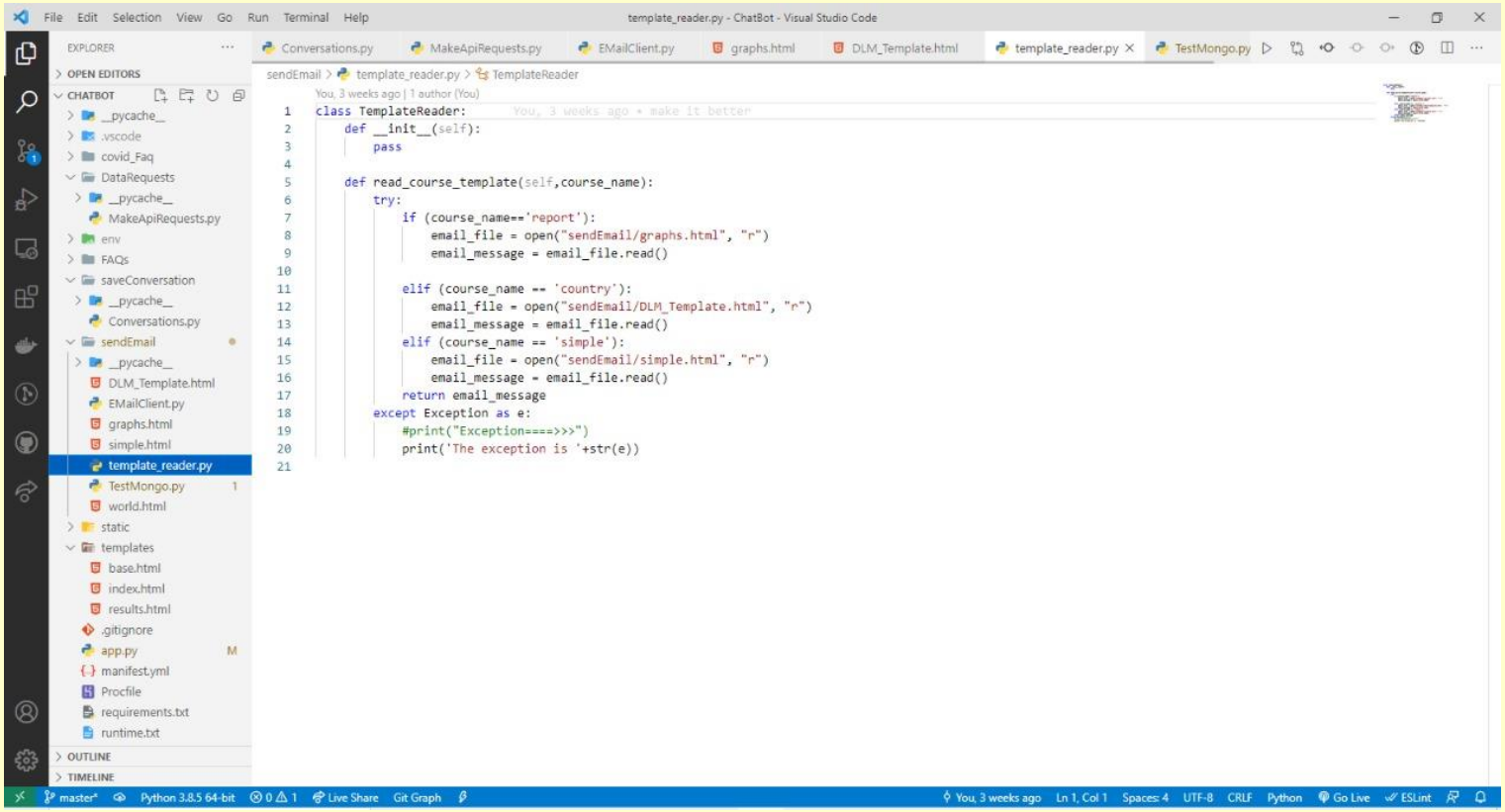
```python
import requests
import json
class Api:
    def __init__(self):
        pass

    def makeApiRequestForCounrty(self, country_name):
        url = "https://covid-193.p.rapidapi.com/statistics"
        querystring = {"country": country_name}
        headers = {
            'x-rapidapi-host': "covid-193.p.rapidapi.com",
            'x-rapidapi-key': "bfacd8b9b6msh67ec4b14fc2440ap1a2d33jsn27e3139fae9e"
        }
        response = requests.request("GET", url, headers=headers, params=querystring)
        # print(response.text)
        js = json.loads(response.text)
        print("******", js)
        result = js.get('response')[0]
        print(result.get('cases'))
        print("*" * 20)
        return result.get('cases') , result.get('deaths'),result.get('tests')


    def makeApiRequestForIndianStates(self):
        url = "https://covid19-data.p.rapidapi.com/pakistan"
        headers = {
            'x-rapidapi-host': "covid19-data.p.rapidapi.com",
            'x-rapidapi-key': "bfacd8b9b6msh67ec4b14fc2440ap1a2d33jsn27e3139fae9e"
        }
        response = requests.request("GET", url, headers=headers)
        # print(response.text)
        js = json.loads(response.text)
        print("*******", js)
        #result = js.get('list')
        return js
```

10.7. Result:

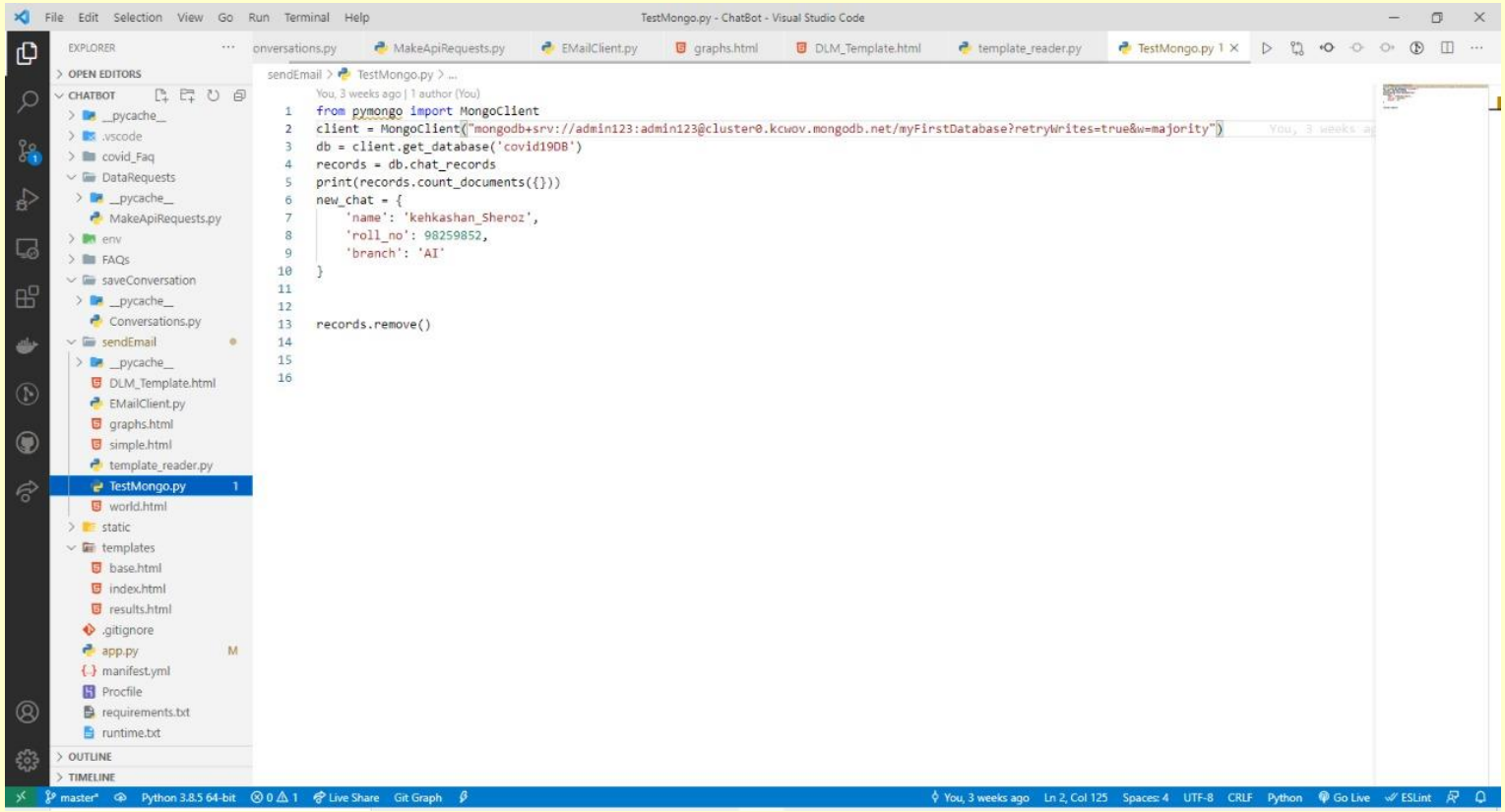


```html
<!DOCTYPE html>
<html lang="en" >

<head>
  <meta charset="UTF-8">
  <title>Review Page</title>

    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">


    <link rel="stylesheet" href="./style.css">
  <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">


</head>

<body>

  <div class="table-users">
   <div class="header">Reviews</div>

   <table cellspacing="0">
      <tr>
          <th>Product</th>
          <th>Name</th>
          <th>Rating</th>
          <th>Comment Heading</th>
          <th width="230">Comments</th>
      </tr>
          {% for review in reviews %}
      <tr>
          <td>{{review['Product']}}</td>
          <td>{{review['Name']}}</td>
          <td>{{review['Rating']}}</td>
          <td>{{review['CommentHead']}}</td>
          <td>{{review['Comment']}} </td>
        {% endfor %}
    </table>
</div>
```

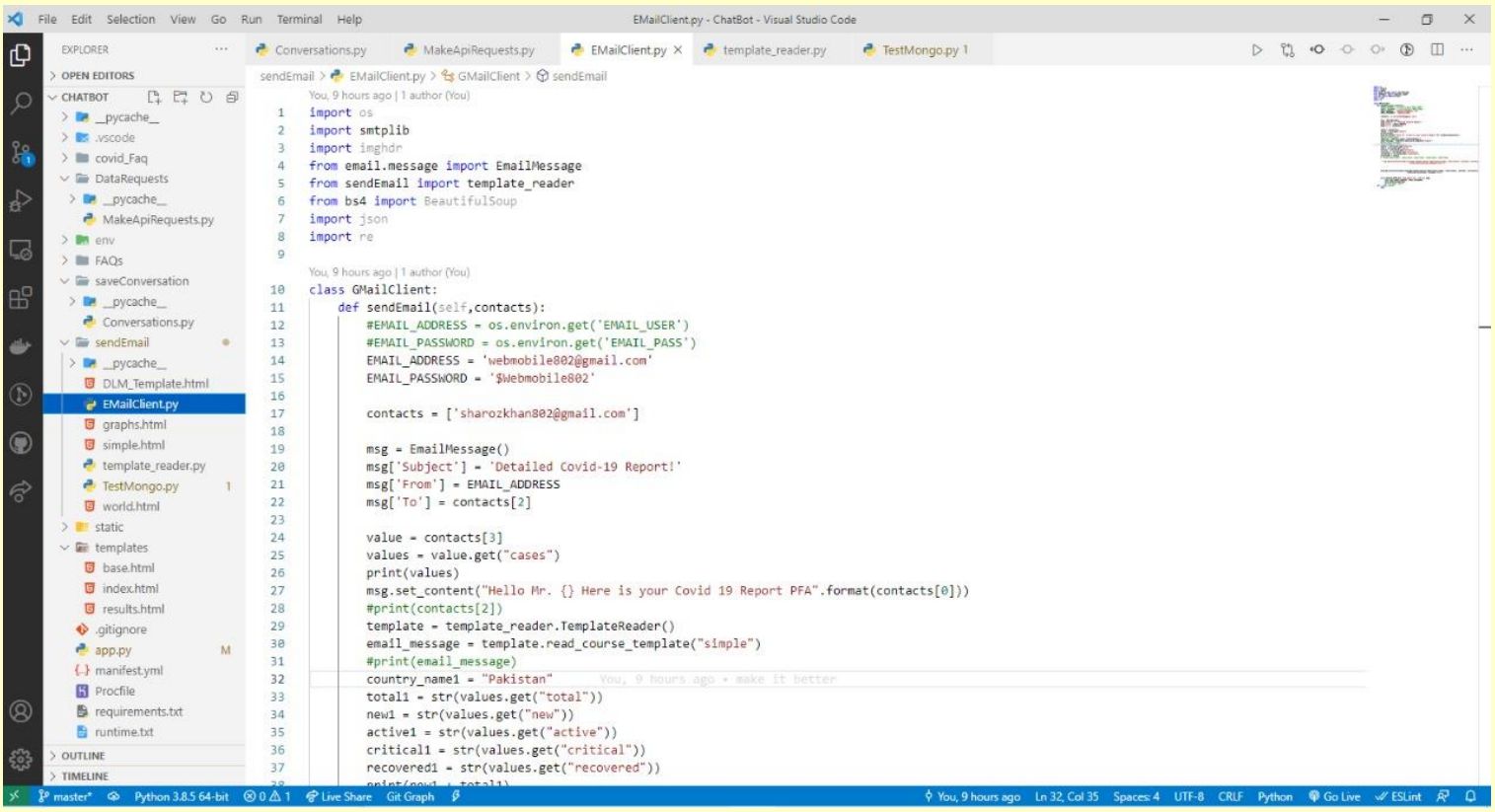
10.8. Template Reader:



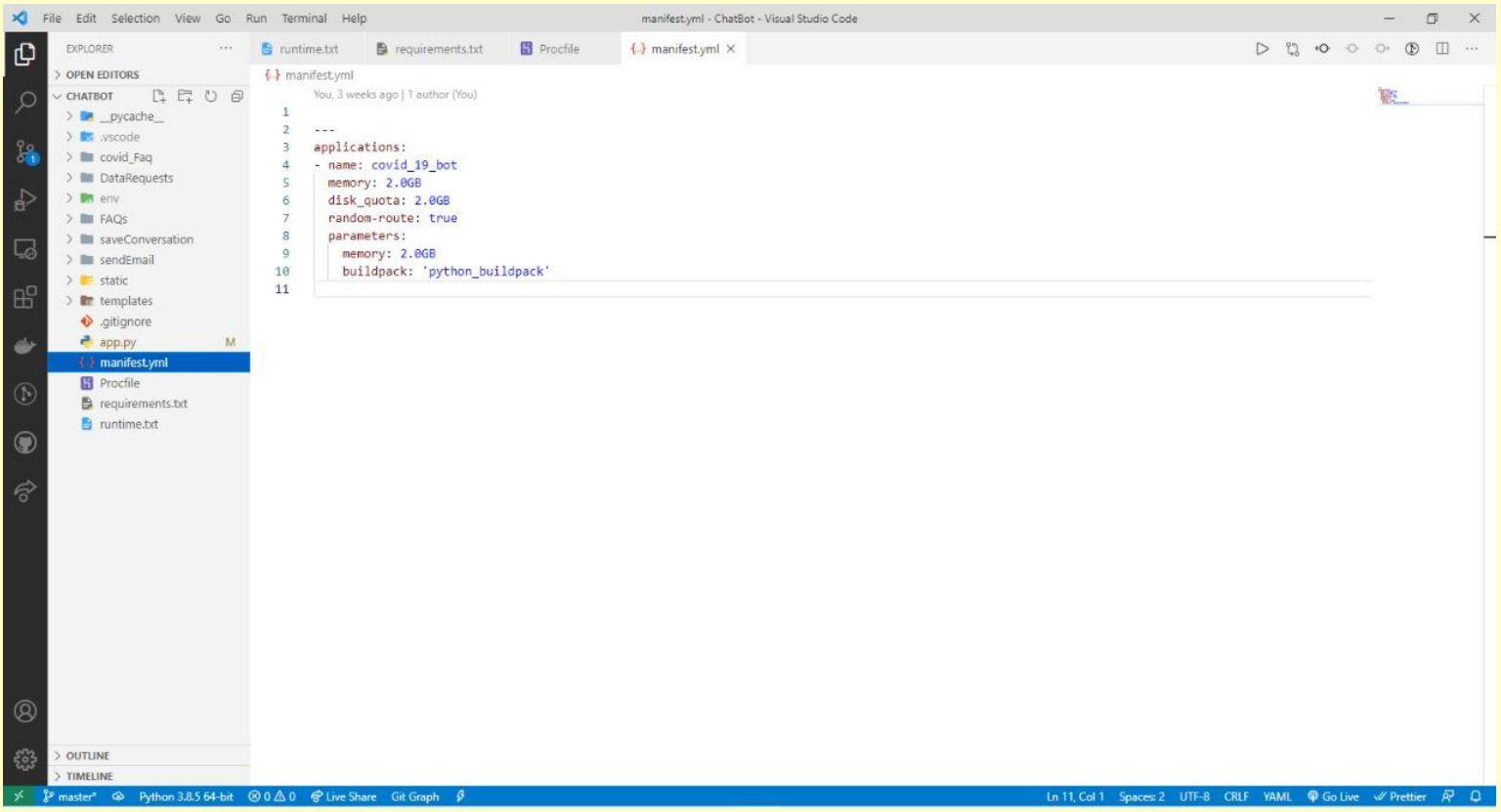
10.9. Test Mongo:



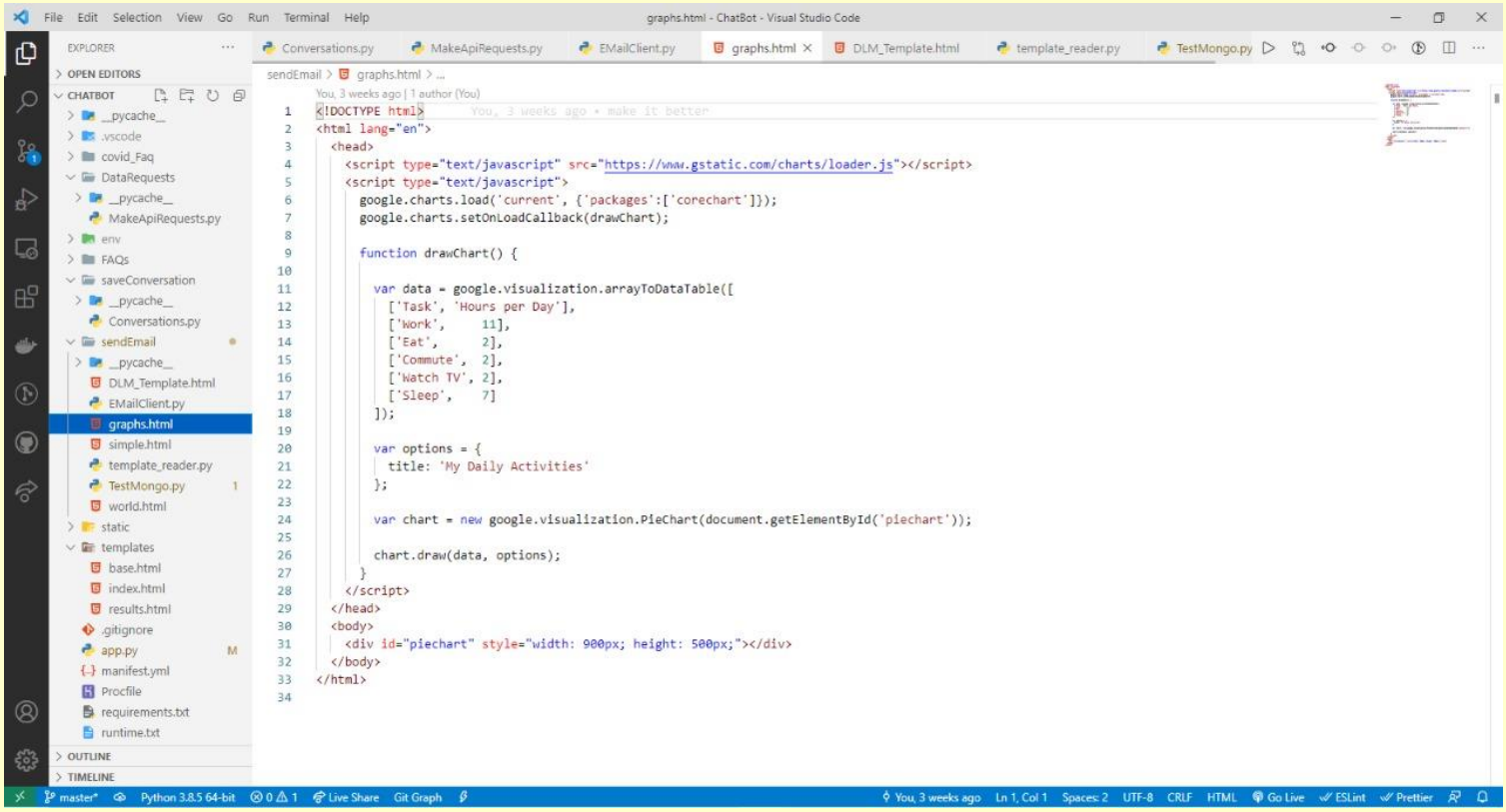
10.10. Email:



10.11. Mainfest:

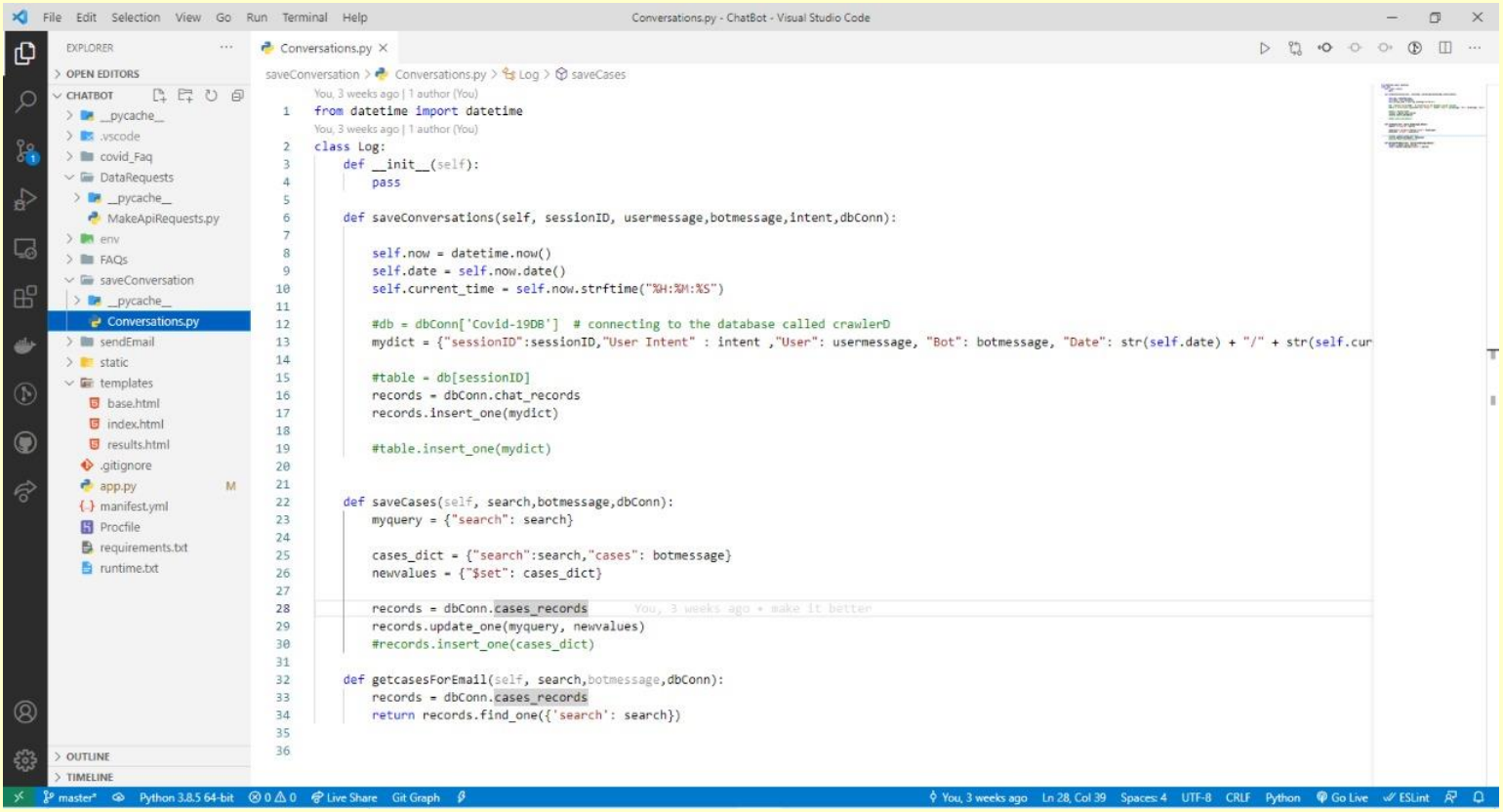


10.12. Graphs:



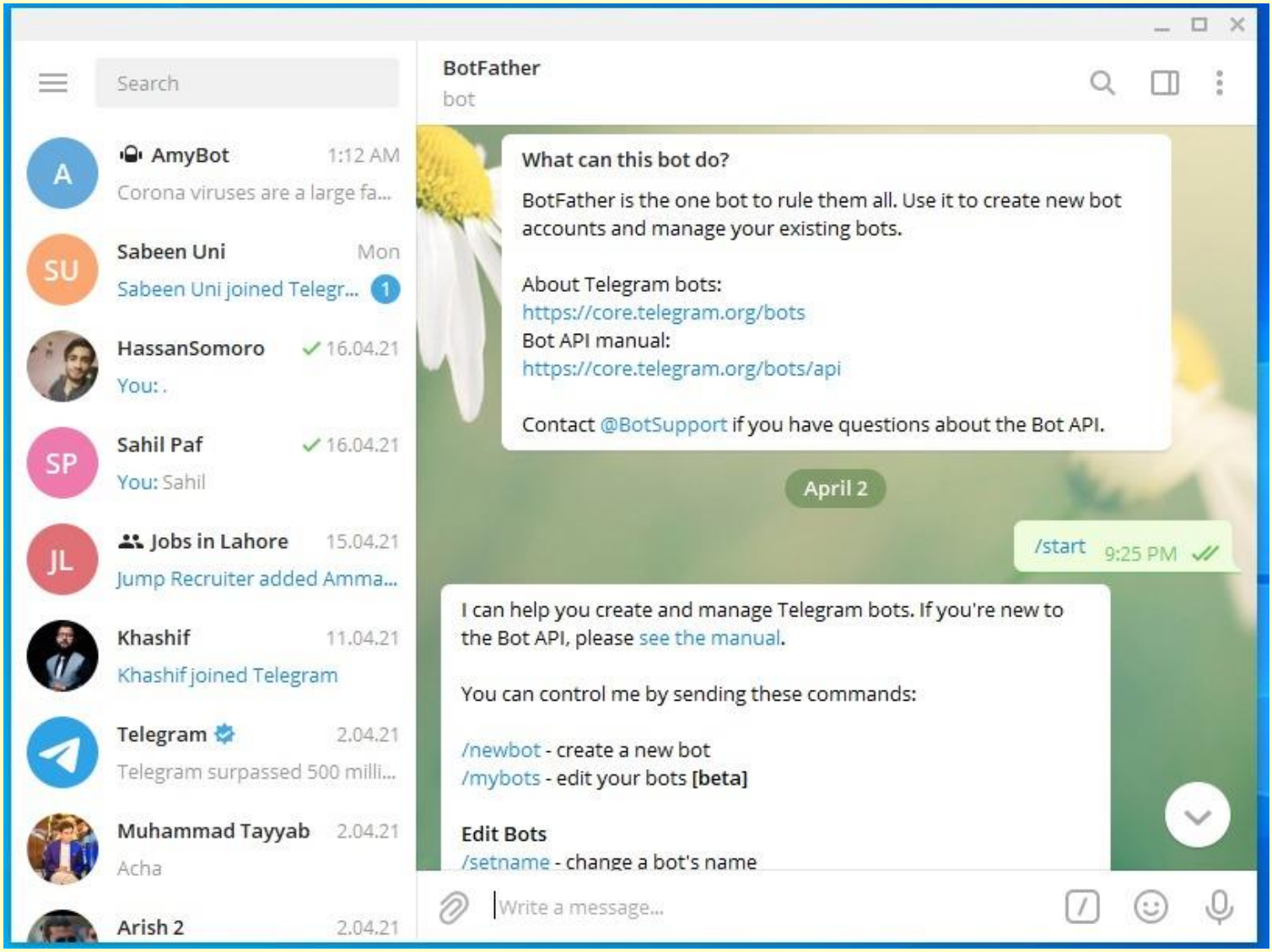
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <script type="text/javascript" src="https://www.gstatic.com/charts/loader.js"></script>
    <script type="text/javascript">
      google.charts.load('current', {'packages':['corechart']});
      google.charts.setOnLoadCallback(drawChart);

      function drawChart() {

        var data = google.visualization.arrayToDataTable([
          ['Task', 'Hours per Day'],
          ['Work',     11],
          ['Eat',      2],
          ['Commute',  2],
          ['Watch TV', 2],
          ['Sleep',    7]
        ]);

        var options = {
          title: 'My Daily Activities'
        };

        var chart = new google.visualization.PieChart(document.getElementById('piechart'));

        chart.draw(data, options);
      }
    </script>
  </head>
  <body>
    <div id="piechart" style="width: 900px; height: 500px;"></div>
  </body>
</html>
```

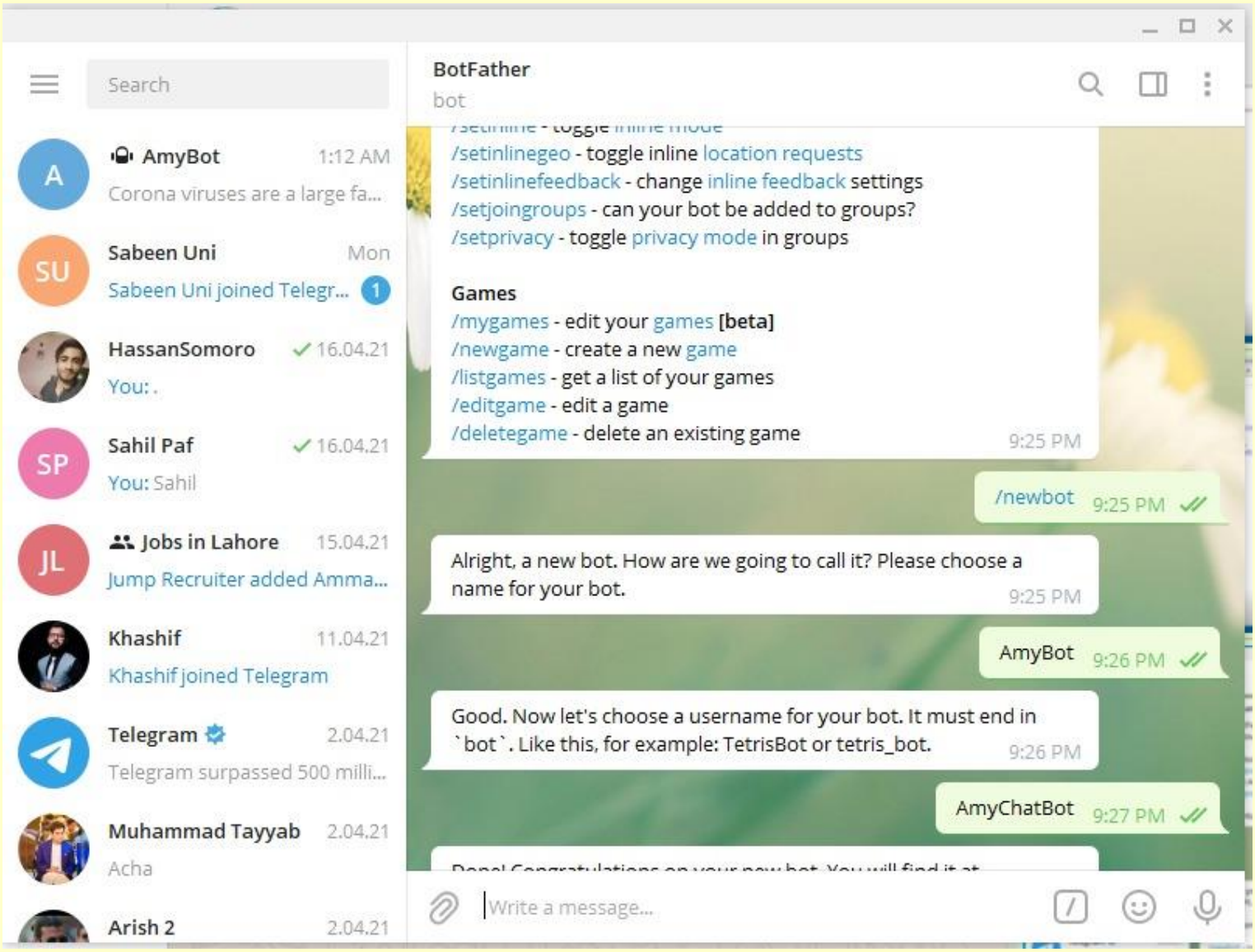
10.13. Conversation:

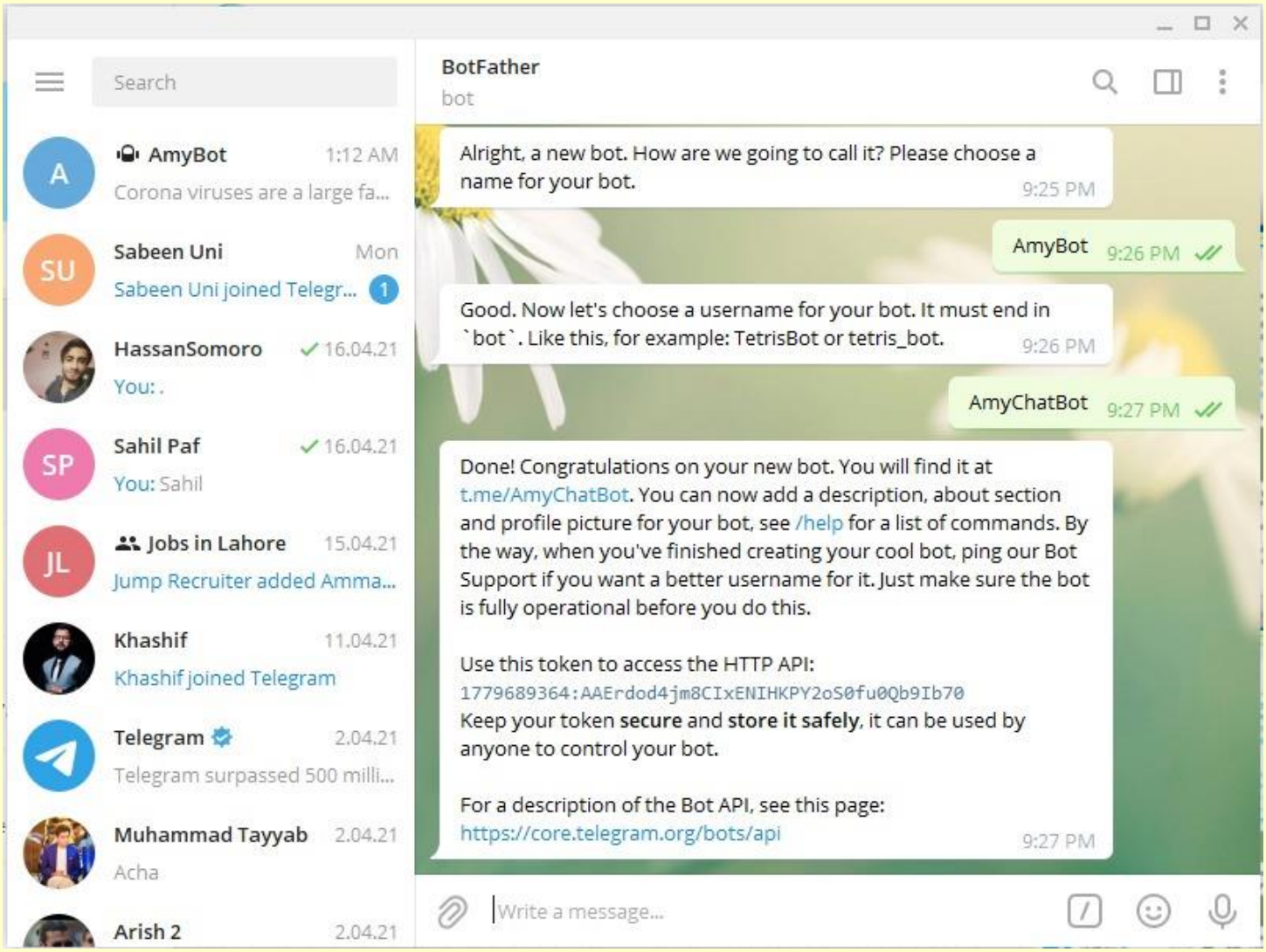


```
from datetime import datetime
class Log:
    def __init__(self):
        pass

    def saveConversations(self, sessionID, usermessage,botmessage,intent,dbConn):

        self.now = datetime.now()
        self.date = self.now.date()
        self.current_time = self.now.strftime("%H:%M:%S")

        #db = dbConn['Covid-19DB']  # connecting to the database called crawlerD
        mydict = {"sessionID":sessionID,"User Intent" : intent ,"User": usermessage, "Bot": botmessage, "Date": str(self.date) + "/" + str(self.cur

        #table = db[sessionID]
        records = dbConn.chat_records
        records.insert_one(mydict)

        #table.insert_one(mydict)


    def saveCases(self, search,botmessage,dbConn):
        myquery = {"search": search}

        cases_dict = {"search":search,"cases": botmessage}
        newvalues = {"$set": cases_dict}

        records = dbConn.cases_records
        records.update_one(myquery, newvalues)
        #records.insert_one(cases_dict)

    def getcasesForEmail(self, search,botmessage,dbConn):
        records = dbConn.cases_records
        return records.find_one({'search': search})
```

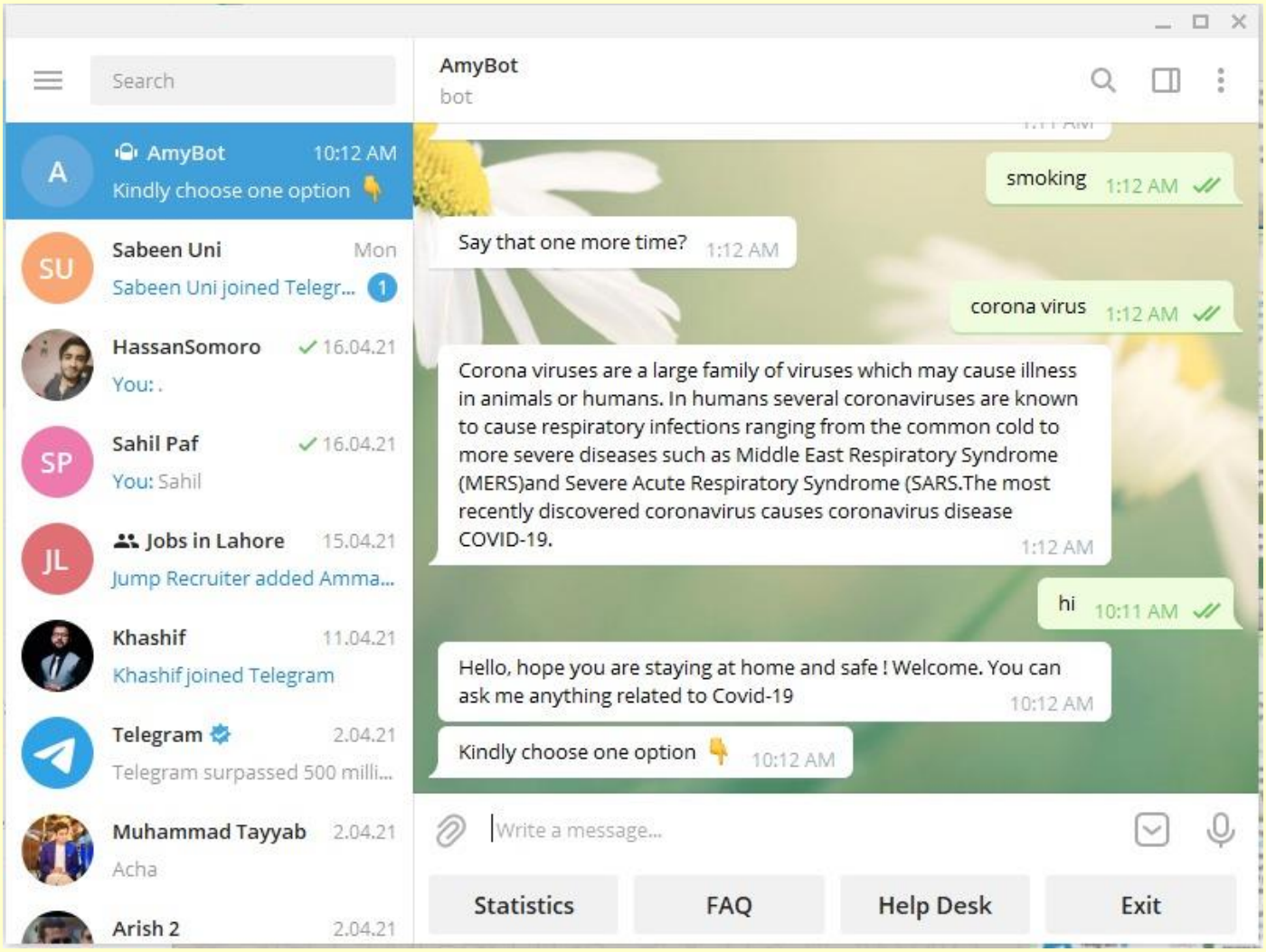
11.0. Creating Chatbot:

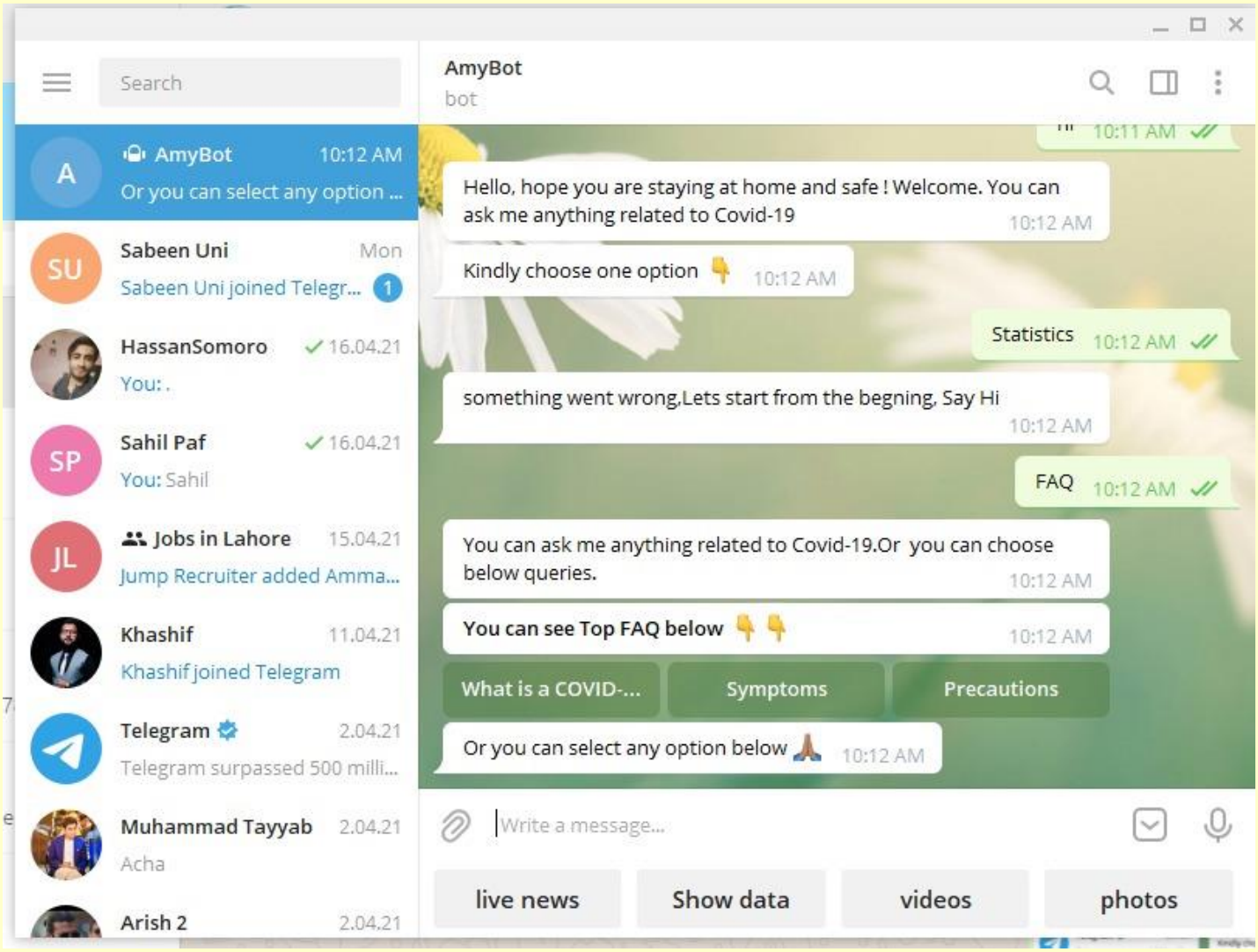


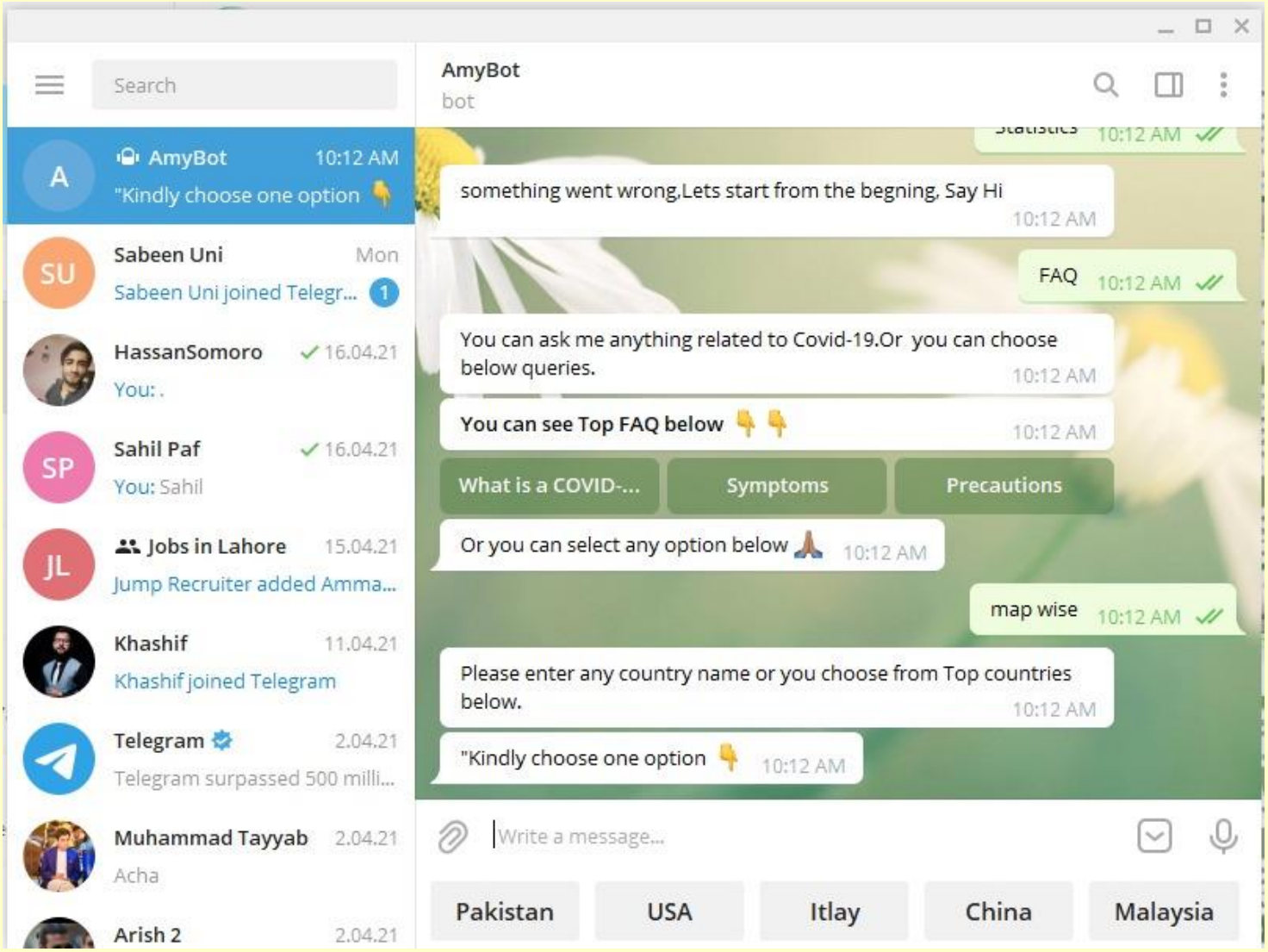

Search
AmyBot 1:12 AM
Corona viruses are a large fa...
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
BotFather
bot
/setinlinegeo - toggle inline location requests
/setinlinefeedback - change inline feedback settings
/setjoingroups - can your bot be added to groups?
/setprivacy - toggle privacy mode in groups
Games
/mygames - edit your games [beta]
/newgame - create a new game
/listgames - get a list of your games
/editgame - edit a game
/deletegame - delete an existing game
9:25 PM
/newbot 9:25 PM
Alright, a new bot. How are we going to call it? Please choose a name for your bot. 9:25 PM
AmyBot 9:26 PM
Good. Now let's choose a username for your bot. It must end in `bot`. Like this, for example: TetrisBot or tetris_bot. 9:26 PM
AmyChatBot 9:27 PM
Write a message...

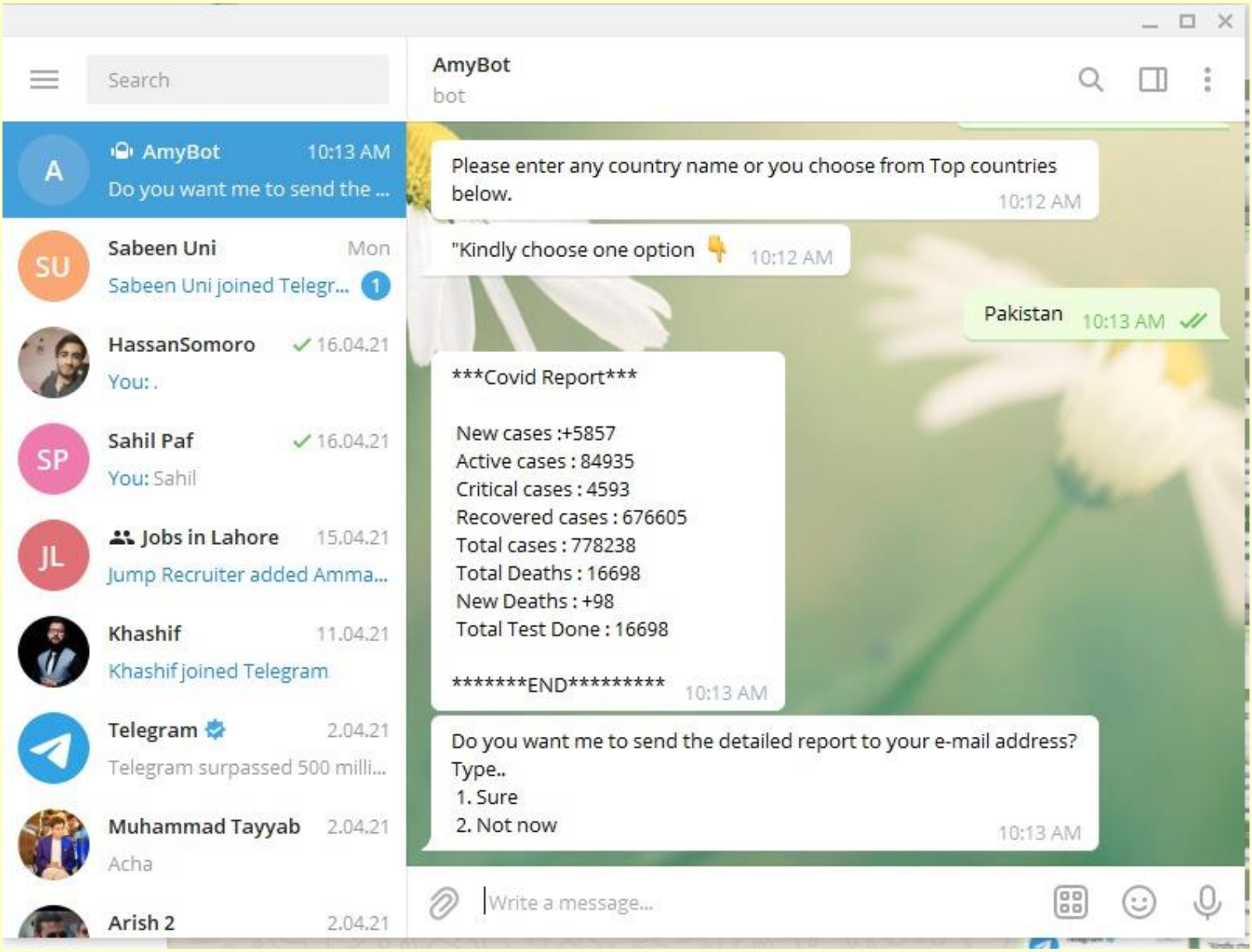

Search
AmyBot 1:12 AM
Corona viruses are a large fa...
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
BotFather
bot
Alright, a new bot. How are we going to call it? Please choose a name for your bot. 9:25 PM
AmyBot 9:26 PM
Good. Now let's choose a username for your bot. It must end in `bot`. Like this, for example: TetrisBot or tetris_bot. 9:26 PM
AmyChatBot 9:27 PM
Done! Congratulations on your new bot. You will find it at t.me/AmyChatBot. You can now add a description, about section and profile picture for your bot, see /help for a list of commands. By the way, when you've finished creating your cool bot, ping our Bot Support if you want a better username for it. Just make sure the bot is fully operational before you do this.
Use this token to access the HTTP API:
1779689364:AAErdod4jm8CIxENIHKPY2oS0fu0Qb9Ib70
Keep your token secure and store it safely, it can be used by anyone to control your bot.
For a description of the Bot API, see this page:
https://core.telegram.org/bots/api 9:27 PM
Write a message...

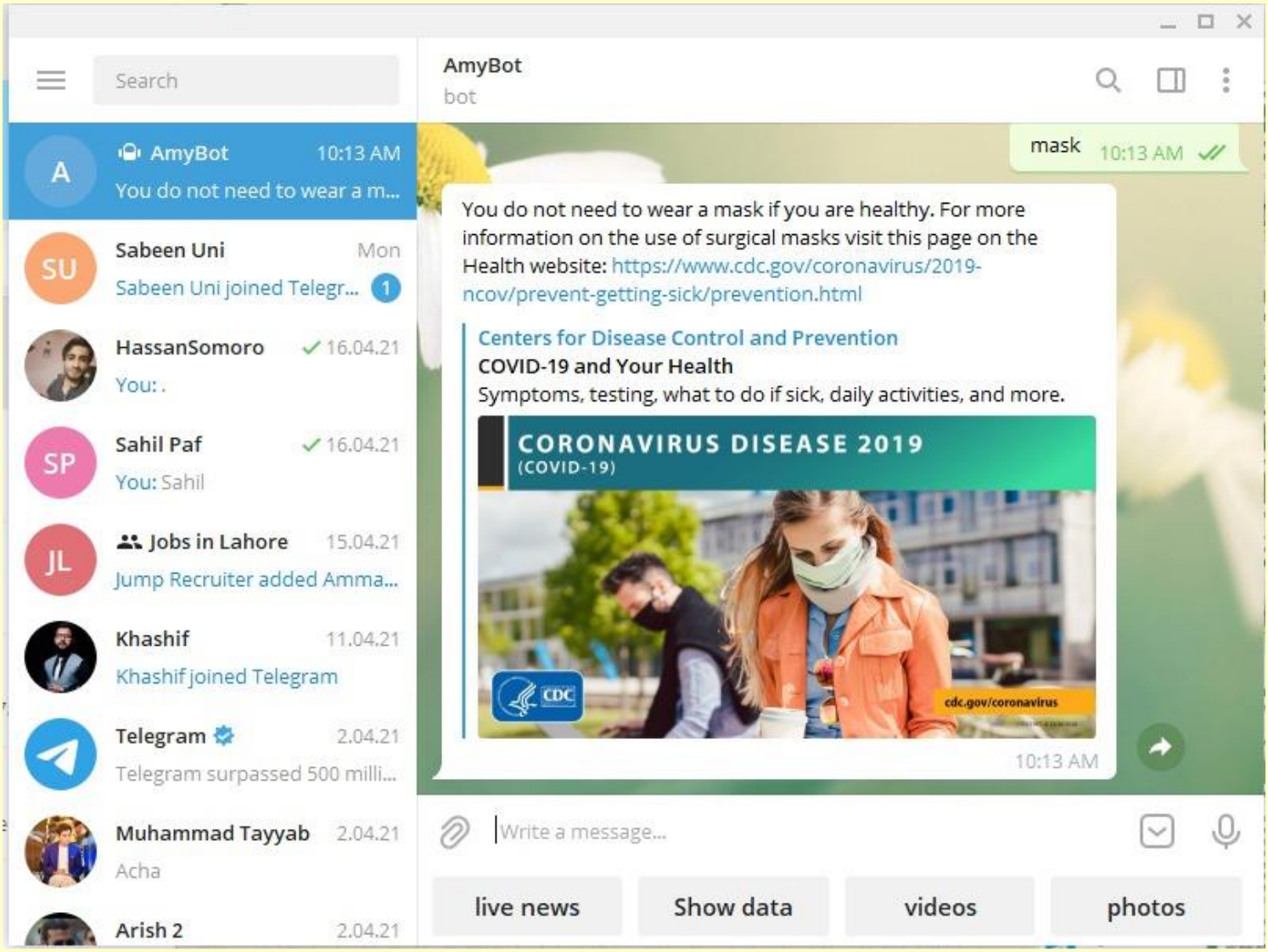
12.0. Output of our project:

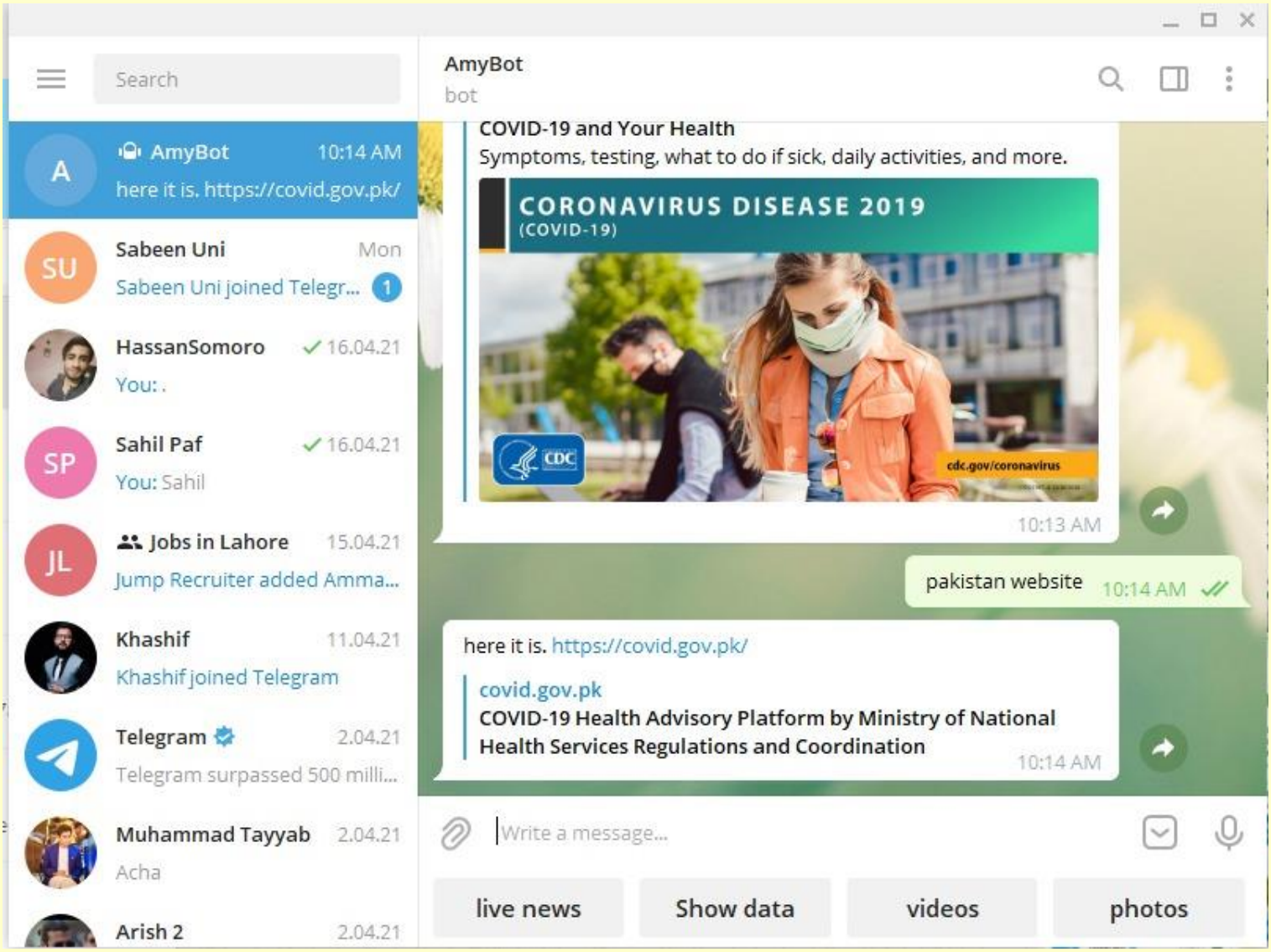


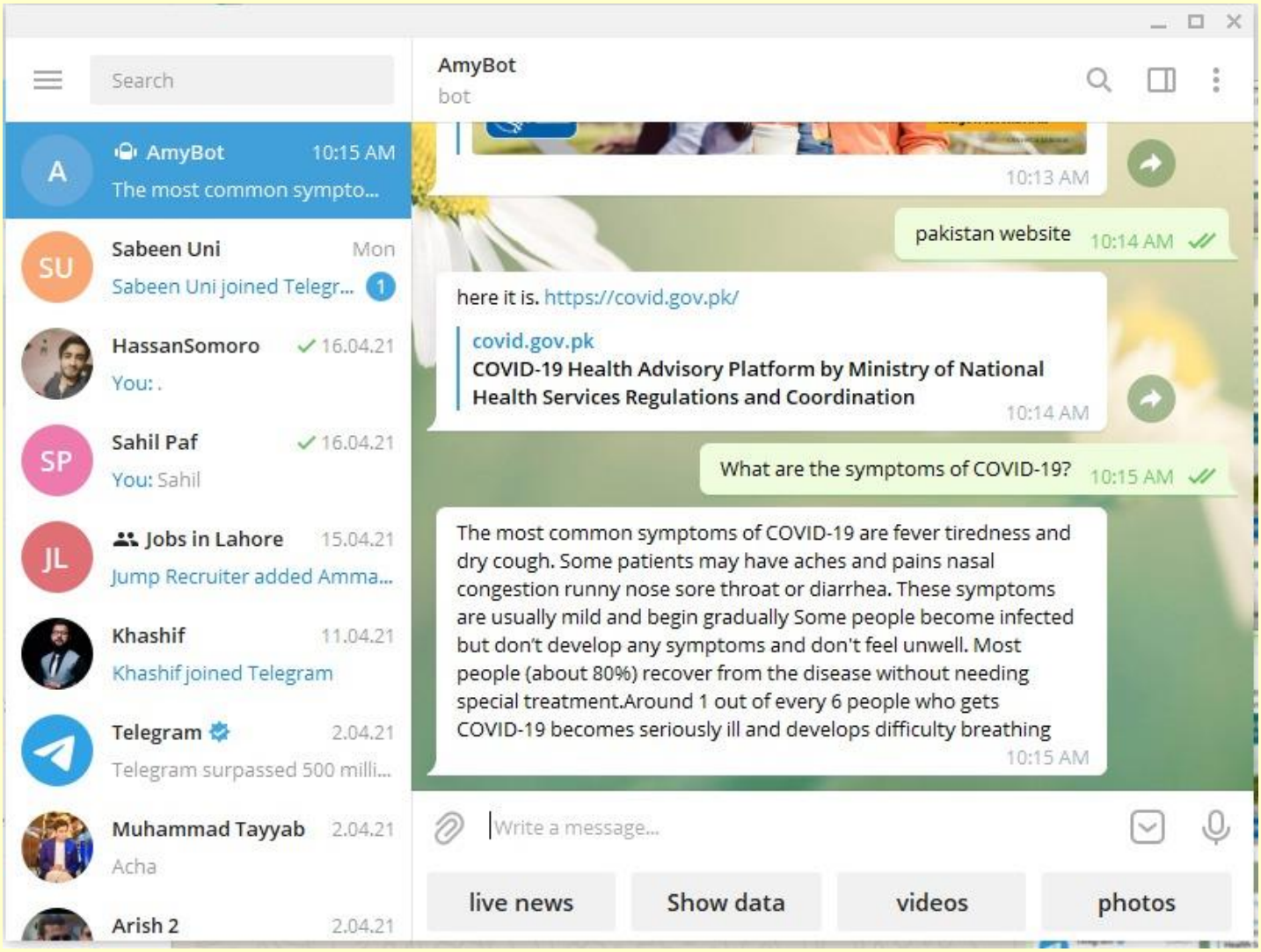

Search
AmyBot
bot
A
AmyBot 10:12 AM
Or you can select any option ...
SU
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
SP
Sahil Paf 16.04.21
You: Sahil
JL
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
10:11 AM
Hello, hope you are staying at home and safe ! Welcome. You can ask me anything related to Covid-19 10:12 AM
Kindly choose one option 👇 10:12 AM
Statistics 10:12 AM
something went wrong,Lets start from the begning, Say Hi 10:12 AM
FAQ 10:12 AM
You can ask me anything related to Covid-19.Or you can choose below queries. 10:12 AM
You can see Top FAQ below 👇👇 10:12 AM
What is a COVID-...
Symptoms
Precautions
Or you can select any option below 🙏 10:12 AM
Write a message...
live news
Show data
videos
photos

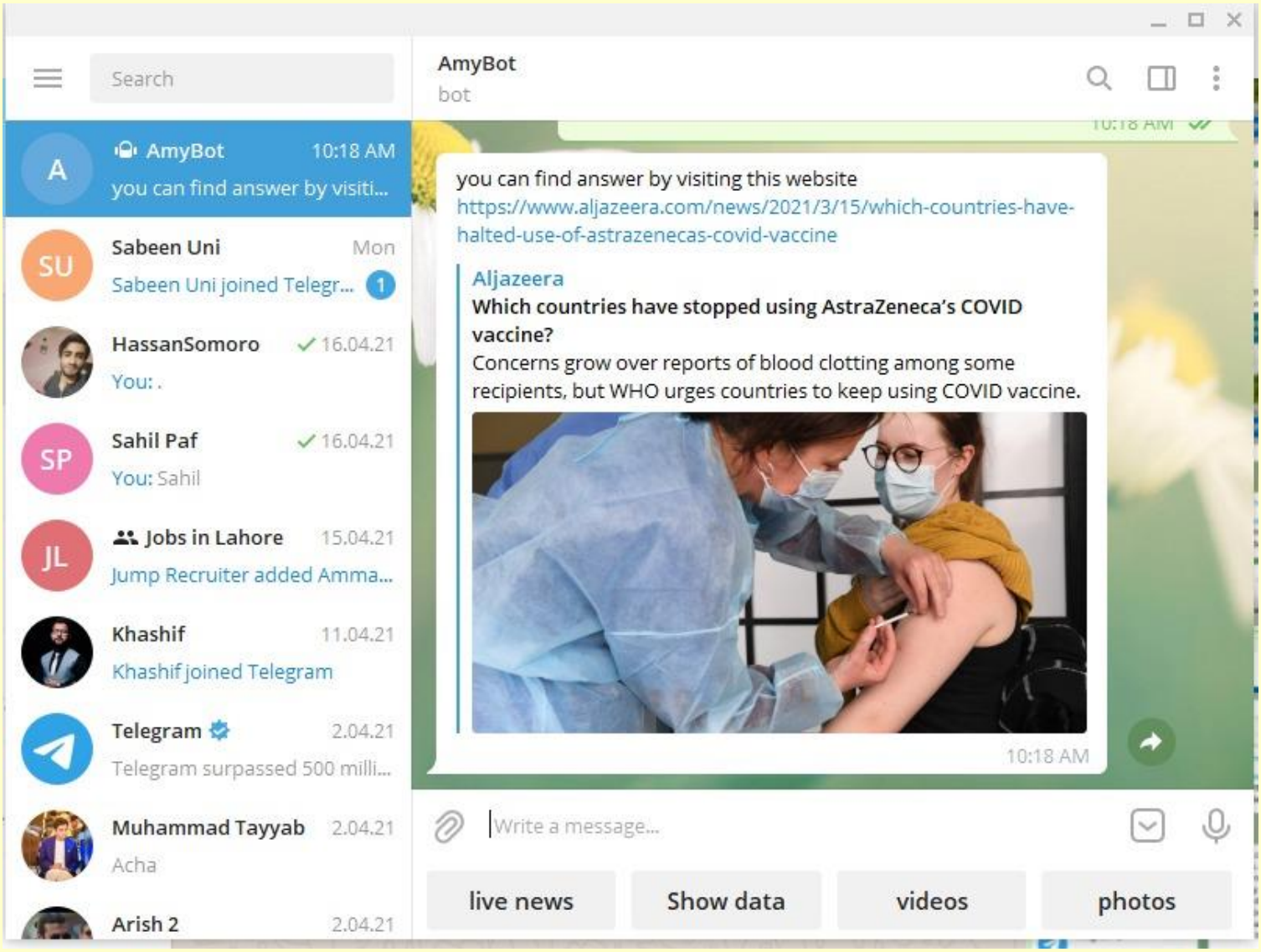

Search
AmyBot
bot
A
AmyBot 10:12 AM
"Kindly choose one option
SU
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
SP
Sahil Paf 16.04.21
You: Sahil
JL
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
10:12 AM
something went wrong.Lets start from the begning, Say Hi 10:12 AM
FAQ 10:12 AM
You can ask me anything related to Covid-19.Or you can choose below queries. 10:12 AM
You can see Top FAQ below 10:12 AM
What is a COVID-...
Symptoms
Precautions
Or you can select any option below 10:12 AM
map wise 10:12 AM
Please enter any country name or you choose from Top countries below. 10:12 AM
"Kindly choose one option 10:12 AM
Write a message...
Pakistan
USA
Itlay
China
Malaysia


Search
AmyBot
bot
AmyBot 10:13 AM
Do you want me to send the ...
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
Please enter any country name or you choose from Top countries below. 10:12 AM
"Kindly choose one option 10:12 AM
Pakistan 10:13 AM
Covid Report
New cases :+5857
Active cases : 84935
Critical cases : 4593
Recovered cases : 676605
Total cases : 778238
Total Deaths : 16698
New Deaths : +98
Total Test Done : 16698
*******END********* 10:13 AM
Do you want me to send the detailed report to your e-mail address?
Type..
1. Sure
2. Not now
10:13 AM
Write a message...


Search
AmyBot
bot
A
AmyBot 10:13 AM
You do not need to wear a m...
SU
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
SP
Sahil Paf 16.04.21
You: Sahil
JL
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
mask 10:13 AM
You do not need to wear a mask if you are healthy. For more information on the use of surgical masks visit this page on the Health website: https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/prevention.html
Centers for Disease Control and Prevention
COVID-19 and Your Health
Symptoms, testing, what to do if sick, daily activities, and more.
CORONAVIRUS DISEASE 2019
(COVID-19)
CDC
cdc.gov/coronavirus
10:13 AM
Write a message...
live news
Show data
videos
photos


Search
AmyBot
bot
AmyBot 10:14 AM
here it is. https://covid.gov.pk/
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
COVID-19 and Your Health
Symptoms, testing, what to do if sick, daily activities, and more.
CORONAVIRUS DISEASE 2019
(COVID-19)
CDC
cdc.gov/coronavirus
10:13 AM
pakistan website 10:14 AM
here it is. https://covid.gov.pk/
covid.gov.pk
COVID-19 Health Advisory Platform by Ministry of National Health Services Regulations and Coordination
10:14 AM
Write a message...
live news
Show data
videos
photos


Search
AmyBot
bot
AmyBot 10:15 AM
The most common sympto...
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
10:13 AM
pakistan website 10:14 AM
here it is. https://covid.gov.pk/
covid.gov.pk
COVID-19 Health Advisory Platform by Ministry of National Health Services Regulations and Coordination
10:14 AM
What are the symptoms of COVID-19? 10:15 AM
The most common symptoms of COVID-19 are fever tiredness and dry cough. Some patients may have aches and pains nasal congestion runny nose sore throat or diarrhea. These symptoms are usually mild and begin gradually Some people become infected but don't develop any symptoms and don't feel unwell. Most people (about 80%) recover from the disease without needing special treatment.Around 1 out of every 6 people who gets COVID-19 becomes seriously ill and develops difficulty breathing
10:15 AM
Write a message...
live news
Show data
videos
photos


Search
AmyBot
bot
AmyBot 10:18 AM
you can find answer by visiti...
Sabeen Uni Mon
Sabeen Uni joined Telegr... 1
HassanSomoro 16.04.21
You: .
Sahil Paf 16.04.21
You: Sahil
Jobs in Lahore 15.04.21
Jump Recruiter added Amma...
Khashif 11.04.21
Khashif joined Telegram
Telegram 2.04.21
Telegram surpassed 500 milli...
Muhammad Tayyab 2.04.21
Acha
Arish 2 2.04.21
you can find answer by visiting this website
https://www.aljazeera.com/news/2021/3/15/which-countries-have-halted-use-of-astrazenecas-covid-vaccine
Aljazeera
Which countries have stopped using AstraZeneca's COVID vaccine?
Concerns grow over reports of blood clotting among some recipients, but WHO urges countries to keep using COVID vaccine.
10:18 AM
Write a message...
live news
Show data
videos
photos

13.0 Conclusion:

We are all together in a fight against the COVID-19 pandemic. Chatbots, if effectively designed and deployed, could help us by sharing up-to-date information quickly, encouraging desired health impacting behaviours, and lessening the psychological damage caused by fear and isolation. Despite this potential, the risk of amplifying misinformation and the lack of prior effectiveness research is cause for concern. Immediate collaborations between healthcare workers, companies, academics and governments are merited and may aid future pandemic preparedness efforts

Date: 22 April 2021