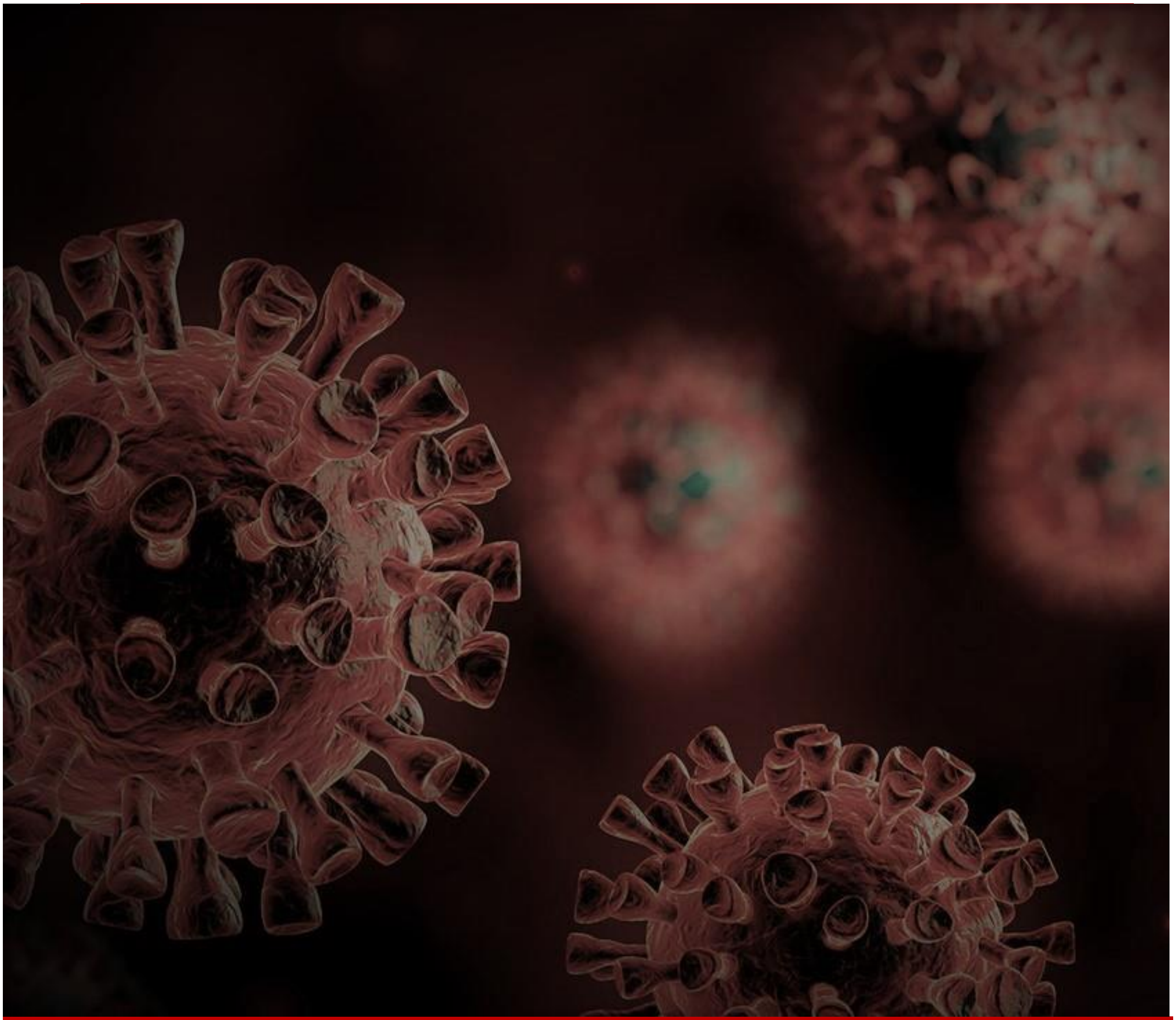


Fighting CORONA

The Pandemic of 2020

[Name] XII F [Rollno] Bal Bhavan International School

CERTIFICATE

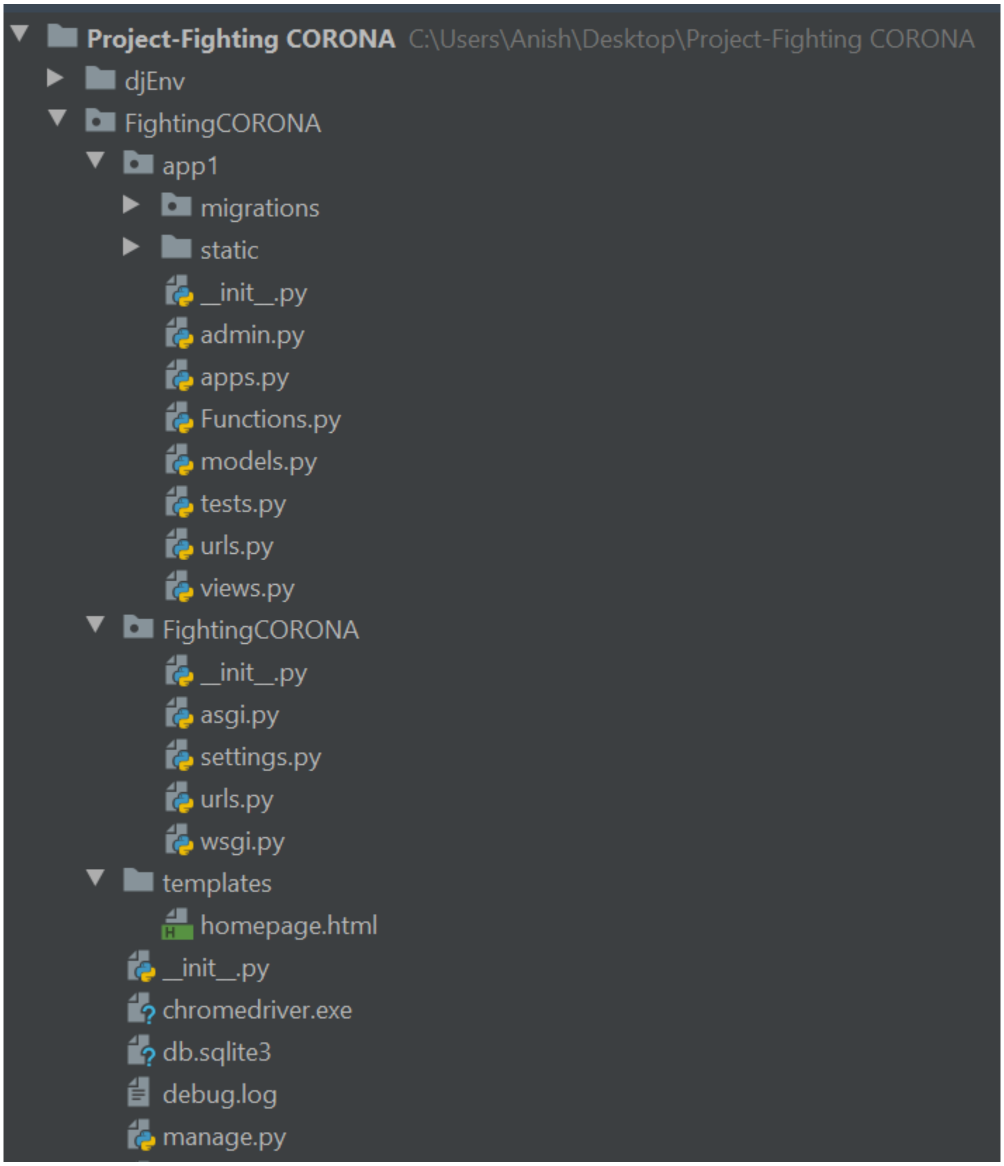
This is to certify that the content of this project entitled, 'FightingCORONA' has been completed successfully by [Name] of class XII Science of Bal Bhavan International School under my guidance in the academic year 2020-21. The project is a result of his efforts and endeavors. The project is found worthy of acceptance as final project report for the subject Computer Science of Class XII.

Reema Chaudhary

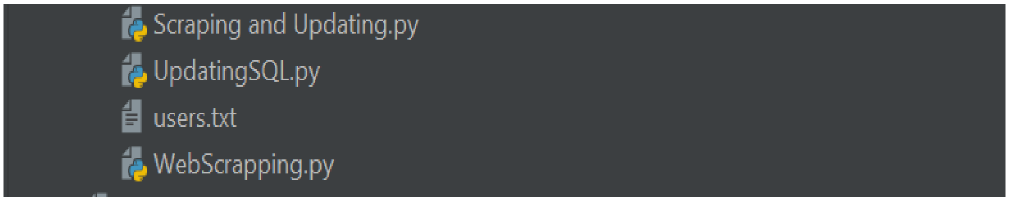
P.G.T. Computer Science

Bal Bhavan International School

Directory structure

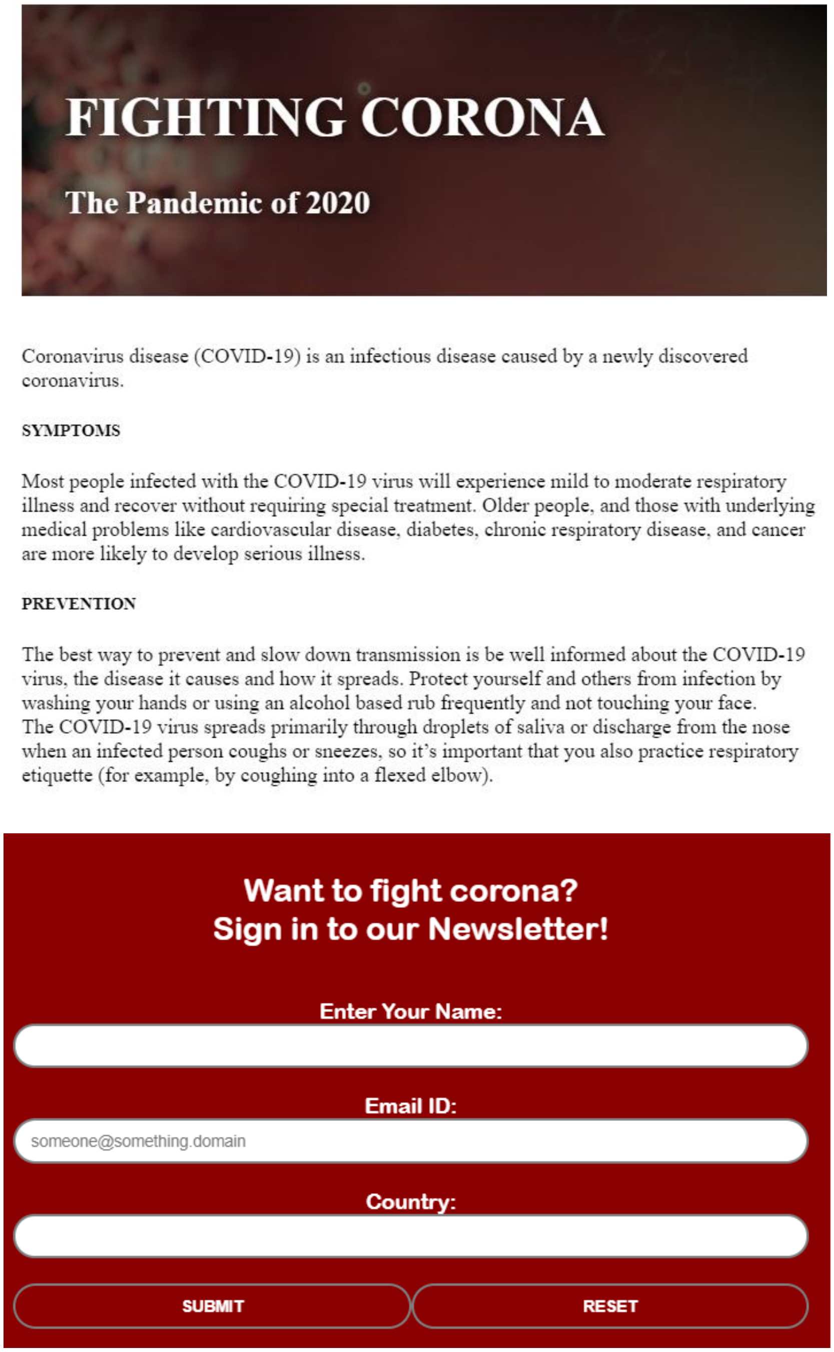


```
▼ Project-Fighting CORONA  C:\Users\Anish\Desktop\Project-Fighting CORONA
  ▶ djEnv
  ▼ FightingCORONA
    ▼ app1
      ▶ migrations
      ▶ static
        __init__.py
        admin.py
        apps.py
        Functions.py
        models.py
        tests.py
        urls.py
        views.py
    ▼ FightingCORONA
        __init__.py
        asgi.py
        settings.py
        urls.py
        wsgi.py
    ▼ templates
        homepage.html
      __init__.py
      chromedriver.exe
      db.sqlite3
      debug.log
      manage.py
```



```
      Scraping and Updating.py
      UpdatingSQL.py
      users.txt
      WebScrapping.py
```

HTML and CSS



FIGHTING CORONA

The Pandemic of 2020

Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered coronavirus.

SYMPTOMS

Most people infected with the COVID-19 virus will experience mild to moderate respiratory illness and recover without requiring special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness.

PREVENTION

The best way to prevent and slow down transmission is be well informed about the COVID-19 virus, the disease it causes and how it spreads. Protect yourself and others from infection by washing your hands or using an alcohol based rub frequently and not touching your face.
The COVID-19 virus spreads primarily through droplets of saliva or discharge from the nose when an infected person coughs or sneezes, so it's important that you also practice respiratory etiquette (for example, by coughing into a flexed elbow).

**Want to fight corona?
Sign in to our Newsletter!**

Enter Your Name:

Email ID: someone@something.domain

Country:

Home page

Source Code:

```
{% load static %}
<!DOCTYPE html>
<html>
    <head>
        <title>FIGHTING CORONA</title>
        <link rel=”stylesheet” href=”{% static ’general.css’ %}”>
    </head>
    <body>
    <header style=”background-image:url(’{% static ’corona back 2.jpg’ %}’); height:100%”>
        <h1>FIGHTING CORONA</h1>
        <h3>The Pandemic of 2020</h3>
    </header>
    <content style=”margin:1em;”>
        <br><br>
        Coronavirus disease (COVID-19) is an infectious disease caused by a newly discovered
coronavirus.
        <br>
        <h5>SYMPTOMS</h5>
        Most people infected with the COVID-19 virus will experience mild to moderate respiratory
illness and recover without requiring special treatment.  Older people, and those with underlying
medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer
are more likely to develop serious illness.
        <br>
        <h5>PREVENTION</h5>
        The best way to prevent and slow down transmission is be well informed about the COVID-19
virus, the disease it causes and how it spreads. Protect yourself and others from infection by
washing your hands or using an alcohol based rub frequently and not touching your face.
        <br>
        The COVID-19 virus spreads primarily through droplets of saliva or discharge from the
nose when an infected person coughs or sneezes, so it’s important that you also practice
respiratory etiquette (for example, by coughing into a flexed elbow).
        <br><br>
    </content>
        <div id=form>
            <h2>Want to fight corona?<br>
            Sign in to our Newsletter!
            </h2>
            <br>
                <form action=# method=”post”>
                    {% csrf_token %}
                    <label>Enter Your Name:</label><br>
                    <input type=text name=”Name:” required><br><br>
                    <label>Email ID:</label><br>
                    <input type= email name=”Email:” title=”someone@something.com” required
pattern=”[a-z0-9._%+-]+@[a-z0-9.-]+\.[a-z]{2,}$” placeholder=”someone@something.domain”><br><br>
                    <label>Country:</label><br>
                    <input list=”Country:” name=”Country:” id=”Country” required>
                    <datalist id=”Country:” name=”Country:”>
                        <option value= ”Afghanistan” > Afghanistan</option>
                        <option value= ”Albania” > Albania</option>
                        <option value= ”Algeria” > Algeria</option>
                        <option value= ”Andorra” > Andorra</option>
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                        <option value= ”Anguilla” > Anguilla</option>
                        <option value= ”Antigua and Barbuda” > Antigua and Barbuda</option>
                        <option value= ”Argentina” > Argentina</option>
                        <option value= ”Armenia” > Armenia</option>
                        <option value= ”Aruba” > Aruba</option>
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                        <option value= ”Austria” > Austria</option>
                        <option value= ”Azerbaijan” > Azerbaijan</option>
                         <option value= ”Bahamas” > Bahamas</option>
```

```
<option value= ”Bahrain” > Bahrain</option>
<option value= ”Bangladesh” > Bangladesh</option>
<option value= ”Barbados” > Barbados</option>
<option value= ”Belarus” > Belarus</option>
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<option value= ”Belize” > Belize</option>
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<option value= ”Bermuda” > Bermuda</option>
<option value= ”Bhutan” > Bhutan</option>
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<option value= ”Canada” > Canada</option>
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<option value= ”Djibouti” > Djibouti</option>
<option value= ”Dominica” > Dominica</option>
<option value= ”Dominican Republic” > Dominican Republic</option>
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<option value= ”Eritrea” > Eritrea</option>
<option value= ”Estonia” > Estonia</option>
<option value= ”Eswatini” > Eswatini</option>
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<option value= ”Ghana” > Ghana</option>
<option value= ”Gibraltar” > Gibraltar</option>
```

```
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<option value= ”Grenada” > Grenada</option>
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<option value= ”Iraq” > Iraq</option>
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<option value= ”Isle of Man” > Isle of Man</option>
<option value= ”Israel” > Israel</option>
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<option value= ”Japan” > Japan</option>
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<option value= ”Kazakhstan” > Kazakhstan</option>
<option value= ”Kenya” > Kenya</option>
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<option value= ”Kyrgyzstan” > Kyrgyzstan</option>
<option value= ”Laos” > Laos</option>
<option value= ”Latvia” > Latvia</option>
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<option value= ”Libya” > Libya</option>
<option value= ”Liechtenstein” > Liechtenstein</option>
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<option value= ”MS Zaandam” > MS Zaandam</option>
<option value= ”Macao” > Macao</option>
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<option value= ”Malawi” > Malawi</option>
<option value= ”Malaysia” > Malaysia</option>
<option value= ”Maldives” > Maldives</option>
<option value= ”Mali” > Mali</option>
<option value= ”Malta” > Malta</option>
<option value= ”Martinique” > Martinique</option>
<option value= ”Mauritania” > Mauritania</option>
<option value= ”Mauritius” > Mauritius</option>
<option value= ”Mayotte” > Mayotte</option>
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<option value= ”Mongolia” > Mongolia</option>
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<option value= ”Montserrat” > Montserrat</option>
<option value= ”Morocco” > Morocco</option>
<option value= ”Mozambique” > Mozambique</option>
<option value= ”Myanmar” > Myanmar</option>
<option value= ”Namibia” > Namibia</option>
<option value= ”Nepal” > Nepal</option>
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<option value= ”New Caledonia” > New Caledonia</option>
<option value= ”New Zealand” > New Zealand</option>
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```

```
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<option value= ”Nigeria” > Nigeria</option>
<option value= ”North Macedonia” > North Macedonia</option>
<option value= ”Norway” > Norway</option>
<option value= ”Oman” > Oman</option>
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<option value= ”Paraguay” > Paraguay</option>
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<option value= ”Philippines” > Philippines</option>
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<option value= ”Portugal” > Portugal</option>
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<option value= ”S. Korea” > S. Korea</option>
<option value= ”Saint Kitts and Nevis” > Saint Kitts and Nevis</option>
<option value= ”Saint Lucia” > Saint Lucia</option>
<option value= ”Saint Martin” > Saint Martin</option>
<option value= ”Saint Pierre Miquelon” > Saint Pierre Miquelon</option>
<option value= ”San Marino” > San Marino</option>
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<option value= ”Saudi Arabia” > Saudi Arabia</option>
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<option value= ”Sint Maarten” > Sint Maarten</option>
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<option value= ”Somalia” > Somalia</option>
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<option value= ”Sri Lanka” > Sri Lanka</option>
<option value= ”St. Barth” > St. Barth</option>
<option value= ”St. Vincent Grenadines” > St. Vincent Grenadines</option>
<option value= ”Sudan” > Sudan</option>
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<option value= ”Taiwan” > Taiwan</option>
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<option value= ”Thailand” > Thailand</option>
<option value= ”Timor-Leste” > Timor-Leste</option>
<option value= ”Togo” > Togo</option>
<option value= ”Trinidad and Tobago” > Trinidad and Tobago</option>
<option value= ”Tunisia” > Tunisia</option>
<option value= ”Turkey” > Turkey</option>
<option value= ”Turks and Caicos” > Turks and Caicos</option>
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<option value= ”Uganda” > Uganda</option>
<option value= ”Ukraine” > Ukraine</option>
<option value= ”Uruguay” > Uruguay</option>
<option value= ”Uzbekistan” > Uzbekistan</option>
<option value= ”Vatican City” > Vatican City</option>
```

```
                        <option value= ”Venezuela” > Venezuela</option>
                        <option value= ”Vietnam” > Vietnam</option>
                        <option value= ”Western Sahara” > Western Sahara</option>
                        <option value= ”World” > World</option>
                        <option value= ”Yemen” > Yemen</option>
                        <option value= ”Zambia” > Zambia</option>
                        <option value= ”Zimbabwe” > Zimbabwe</option>
                    </datalist>
                    <br><br>
                    <input type=submit value=SUBMIT><input type=reset value=RESET>
                </form>
        </div>
    </body>
</html>
```

CSS

```
*{
    box-sizing:border-box;
}
body{
     margin:1em;
     padding:0;
}
header{
    height:100%;
    margin:auto;
    width:fill-parent;
    background-attachment: fixed;
    background-repeat: no-repeat;
    background-position:right top;
    background-size: cover;
    background-color: #760202;
    color:white;
    text-shadow: 2px 2px 15px black;
    font-size: 2em;
    padding:50px;
}
content{
        margin:2em;
        padding:1em;
        font-size:1.5em;
}
#form{
    width: fill-parent;
    padding:1em;
    text-align:center;
    color:white;
    font-weight: 1000;
    font-family: ”Arial Rounded MT”,sans-serif;
    font-size: 1.5em;
}
#form:h2{font-size:2em;}
input{
    margin:auto;
    padding:1em;
    width:100%;
    height:50px;
    border-radius:50px;
    border:2px solid gray;
    font-size: 0.75em;

}
input:hover{border-color:blue}
input[type=submit],input[type=reset]{
    padding:1px;
    width:50%;
    background-color:#e00000;
    color:white;
    border-color:white:
    font-size:1em;
    font-weight: bold;
}
input[type=submit]:hover,input[type=reset]:hover{
    background-color:#ff4500;
    color:darkred;
    border-color:darkred:
    font-size:1em;
```

DJANGO Web framework

Functions.py

```
import smtplib
import ssl
import random


def mail(receiver_email, message):
    port = 465  # For SSL
    smtp_server = "smtp.gmail.com"
    sender_email = "fightingcorona2021@gmail.com"  # Enter your address
    password = "pxfvucsampcosost"
    context = ssl.create_default_context()
    with smtplib.SMTP_SSL(smtp_server, port, context=context) as server:
        server.login(sender_email, password)
        server.sendmail(sender_email, receiver_email, message)

# define a function to get tips
def getTip():
    tips = [
        "Wash milk bags the moment we take it & wash your hands while you are at
it.",
        "Consider cancelling newspapers",
        "Keep a separate tray for couriers. Courier person can place the envelope/pkg
in the tray and courier may be left untouched for at least 24 hours.",
        "Instruct maids not to touch main door. On entering the home, she has to
immediatly wash hands thoroughly, before touching other things . After that, wipe the
calling-bell switch with a cleaning fluid :)",
        "Avoid getting swiggy, amazon etc as far as possible.",
        "Wash all fruits and vegitables once we bring them home"
        "Remote, phone and keyboards are the most highly contaminated elements in our
house. Clean them at least once a day using cleaning fluid.",
        "Wash hands frequently when in house or in office. Once every hour at
least.",
        "Avoid public transport as far as possible. Even Ola and Uber may be used
when absolutely unavoidable.",
        "Avoid gyms, swimming pool and other exercise areas, where surface contact or
air - borne contamination is inevitable",
        "Cancel tuitions, dance/music classes, etc.",
        "When you return home from office, shopping, etc. discard your clothes and
wash your hands and feet thoroughly.",
        "Most importantly do not touch hands anywhere on face. Inform children and
parents.",
        "Ask senior citizens to stop going for the routine walking exercise."
    ]
    return (tips[random.randint(0, len(tips) - 1)])
```

views.py

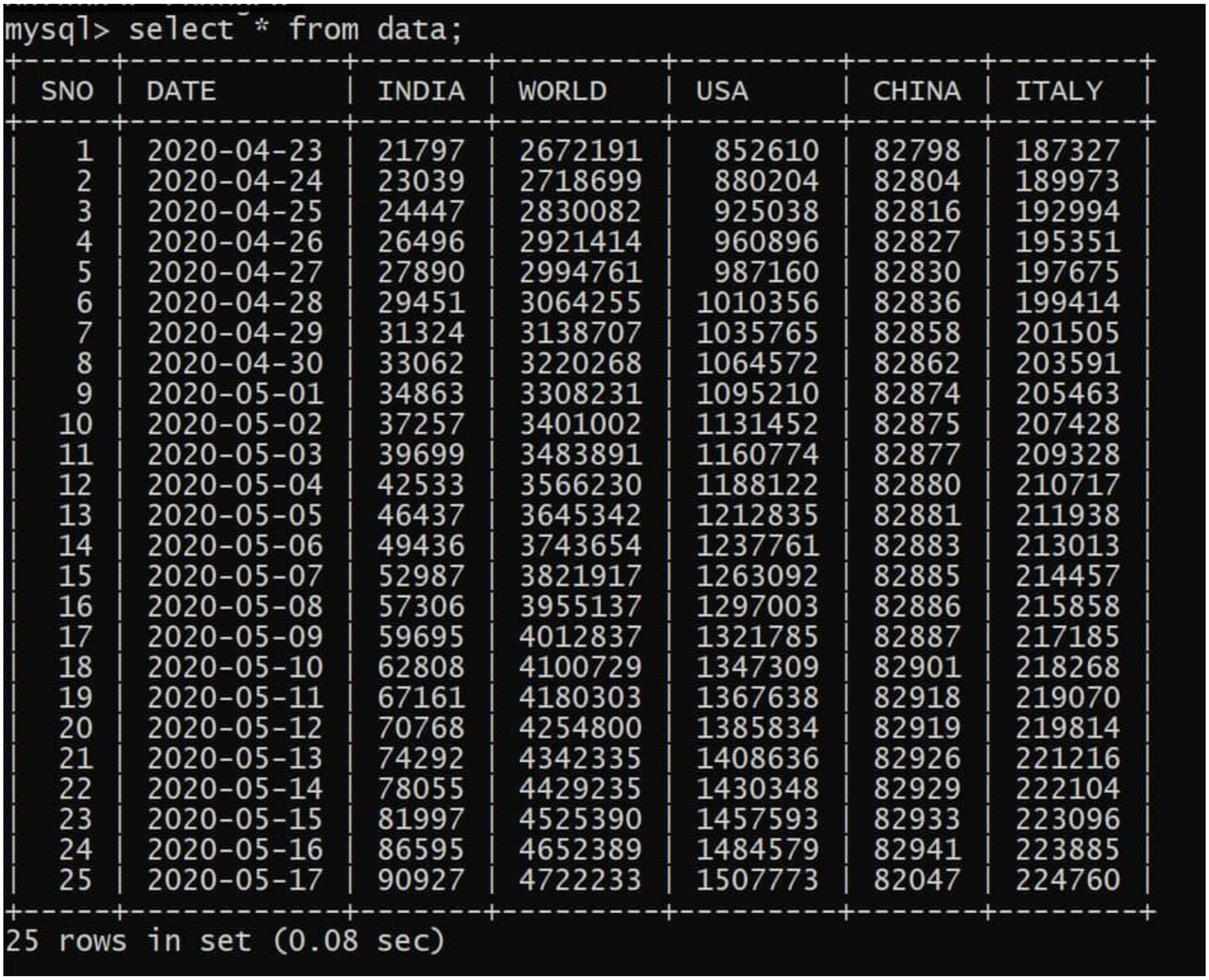
```
from django.shortcuts import render
from django.core.files import File
from . import Functions
import smtplib,ssl

def home(request):
    if request.method =="POST":
        port = 465  # For SSL
        smtp_server = "smtp.gmail.com"
        sender_email = "fightingcorona2021@gmail.com"  # Enter your address
        receiver_email = "anishbanerjee2002@gmail.com"  # Enter receiver address
        password = "pxfvucsampcosost"
        mydata = request.POST
        with open('users.txt','w') as f:
            wrt = File(f)
            for key,value in mydata.items():
                wrt.write(key)
                wrt.write(value)
                wrt.write("\n")
        f=open("users.txt","r")
        strg=f.read()
        message = f"Subject: New login\n\nNew login!\n Details:{strg}"
        f.close()
        context = ssl.create_default_context()
        with smtplib.SMTP_SSL(smtp_server, port, context=context) as server:
            server.login(sender_email, password)
            server.sendmail(sender_email, receiver_email, message)


    return render(request,"homepage.html")

# Create your views here.
```

urls.py

```
from django.contrib import admin
from django.urls import path, include
from app1 import views
urlpatterns = [
    path('admin/', admin.site.urls),
    path('home/', include('app1.urls'))
]
```

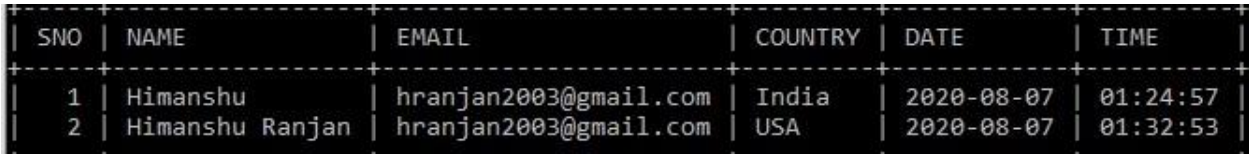
MySQL Tables

SQL table: data



```
mysql> select * from data;
+-----+-------------+--------+---------+---------+--------+--------+
| SNO | DATE        | INDIA  | WORLD   | USA     | CHINA  | ITALY  |
+-----+-------------+--------+---------+---------+--------+--------+
|   1 | 2020-04-23  | 21797  | 2672191 |  852610 | 82798  | 187327 |
|   2 | 2020-04-24  | 23039  | 2718699 |  880204 | 82804  | 189973 |
|   3 | 2020-04-25  | 24447  | 2830082 |  925038 | 82816  | 192994 |
|   4 | 2020-04-26  | 26496  | 2921414 |  960896 | 82827  | 195351 |
|   5 | 2020-04-27  | 27890  | 2994761 |  987160 | 82830  | 197675 |
|   6 | 2020-04-28  | 29451  | 3064255 | 1010356 | 82836  | 199414 |
|   7 | 2020-04-29  | 31324  | 3138707 | 1035765 | 82858  | 201505 |
|   8 | 2020-04-30  | 33062  | 3220268 | 1064572 | 82862  | 203591 |
|   9 | 2020-05-01  | 34863  | 3308231 | 1095210 | 82874  | 205463 |
|  10 | 2020-05-02  | 37257  | 3401002 | 1131452 | 82875  | 207428 |
|  11 | 2020-05-03  | 39699  | 3483891 | 1160774 | 82877  | 209328 |
|  12 | 2020-05-04  | 42533  | 3566230 | 1188122 | 82880  | 210717 |
|  13 | 2020-05-05  | 46437  | 3645342 | 1212835 | 82881  | 211938 |
|  14 | 2020-05-06  | 49436  | 3743654 | 1237761 | 82883  | 213013 |
|  15 | 2020-05-07  | 52987  | 3821917 | 1263092 | 82885  | 214457 |
|  16 | 2020-05-08  | 57306  | 3955137 | 1297003 | 82886  | 215858 |
|  17 | 2020-05-09  | 59695  | 4012837 | 1321785 | 82887  | 217185 |
|  18 | 2020-05-10  | 62808  | 4100729 | 1347309 | 82901  | 218268 |
|  19 | 2020-05-11  | 67161  | 4180303 | 1367638 | 82918  | 219070 |
|  20 | 2020-05-12  | 70768  | 4254800 | 1385834 | 82919  | 219814 |
|  21 | 2020-05-13  | 74292  | 4342335 | 1408636 | 82926  | 221216 |
|  22 | 2020-05-14  | 78055  | 4429235 | 1430348 | 82929  | 222104 |
|  23 | 2020-05-15  | 81997  | 4525390 | 1457593 | 82933  | 223096 |
|  24 | 2020-05-16  | 86595  | 4652389 | 1484579 | 82941  | 223885 |
|  25 | 2020-05-17  | 90927  | 4722233 | 1507773 | 82047  | 224760 |
+-----+-------------+--------+---------+---------+--------+--------+
25 rows in set (0.08 sec)
```

SQL table: record



```
+-----+-----------------+-----------------------+---------+------------+----------+
| SNO | NAME            | EMAIL                 | COUNTRY | DATE       | TIME     |
+-----+-----------------+-----------------------+---------+------------+----------+
|   1 | Himanshu        | hranjan2003@gmail.com | India   | 2020-08-07 | 01:24:57 |
|   2 | Himanshu Ranjan | hranjan2003@gmail.com | USA     | 2020-08-07 | 01:32:53 |
```

Web Scrapping with Selenium and MySQL Connectivity

Scrapping and Updating.py

```
from selenium import webdriver
import unittest
import mysql.connector as mycon
import datetime

#Establish connection with database

con = mycon.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="users"
)
cursor = con.cursor()
cursor.execute("Select * from data")

data = cursor.fetchall()
try:sno=data[len(data)-1][0]+1
except:sno=1

#Get current date

def get_day():
    a=datetime.datetime.now()
    day=a.day
    month=a.month
    year=a.year
    day=f"{str(year)}-{str(month)}-{str(day)}"
    return day

#Scrapping


class WebTable:
    def __init__(self, webtable):
        self.table = webtable

    def column_data(self, column_number):
        col = self.table.find_elements_by_xpath("//tbody[1]/tr/td[" +
str(column_number) + "]")
        rData = []
        for webElement in col:
            rData.append(webElement.text)
        return rData


class Test(unittest.TestCase):

    def test_web_table(self):
        driver = webdriver.Chrome(executable_path=r".\chromedriver.exe")
        driver.implicitly_wait(30)

        driver.get("https://www.worldometers.info/coronavirus/")
        w =
WebTable(driver.find_element_by_xpath('//table[@id="main_table_countries_today"]/tbod
y[1]'))

        country=w.column_data(2)
        n_coun=country.count('')
        for i in range(n_coun):
            country.remove('')


        total_cases=w.column_data(3)
        n_total_cases=total_cases.count('')
        for i in range(n_total_cases):
            total_cases.remove('')


        # Scrap the required details

        b=[]
        for k in ["India","World","USA","China","Italy"]:

            index_coun = country.index(k)

            cases = total_cases[index_coun]
            temp=cases.split(',')
            j=""
            for i in temp:
                j+=i
            cases=int(j)
            b.append(cases)

        #Insert into database

        cursor.execute(f'insert into data
values({sno},"{get_day()}",{b[0]},{b[1]},{b[2]},{b[3]},{b[4]});')
        con.commit()
        con.close()
        print("work successful")

        driver.close()


if __name__ == "__main__":
    unittest.main()
```

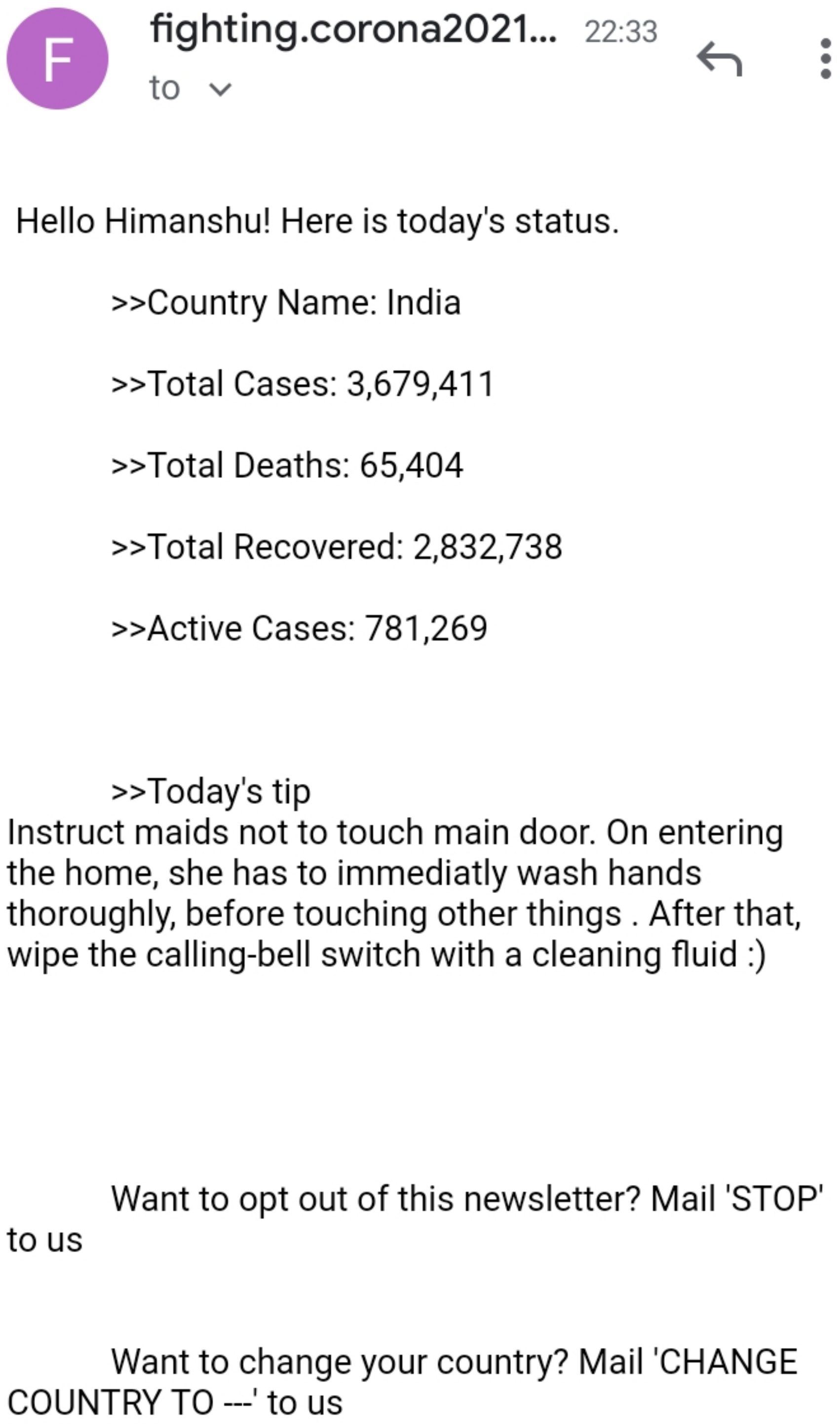
UpdatingSQL.py

```
import mysql.connector as mycon
import datetime
#Get current date

def get_day():
    a=datetime.datetime.now()
    day=a.day
    month=a.month
    year=a.year
    day1=f"{str(year)}-{str(month)}-{str(day)}"
    return day1
def get_time():
    a=datetime.datetime.now()
    hour=a.hour
    minute=a.minute
    second=a.second
    time1=f"{str(hour)}:{str(minute)}:{str(second)}"
    return time1

#file
def upload():
    try:
        with open("users.txt","r") as f:
            l=f.readlines()
        l.pop(0)

        name=l[0][5:-1]
        email=l[1][6:-1]
        country=l[2][8:-1]
        print(name,email,country)

        #connect

        con=mycon.connect(
            host="localhost",
            user="root",
            passwd="1234",
            database="users"
            )


        if con.is_connected():
            print("Connected")

        cursor=con.cursor()
        cursor.execute("Select * from record")

        data=cursor.fetchall()

        try:sno=data[len(data)-1][0]+1
        except:sno=1
        print(f'insert into record values({sno}, "{name}"
,"{email}","{country}","{get_day()}","{get_time()}");')
        cursor.execute(f"insert into record values({sno},'{name}'
,'{email}','{country}','{get_day()}','{get_time()}');")
        con.commit()
        con.close()
        print("Work Successful")

        with open("users.txt","w") as f:
            f.write("")


    except Exception as e:
        print(e)
        print("Nothing to update")

upload()
```

WebScrapping.py

```
from selenium import webdriver
import unittest
from app1 import Functions
import mysql.connector as mycon
import updatingsql as SQL
SQL.upload()

#Establish connection with database

con = mycon.connect(
    host="localhost",
    user="root",
    passwd="1234",
    database="users"
)
cursor = con.cursor()
cursor.execute("Select * from record ORDER BY SNO DESC LIMIT 1")

data = cursor.fetchall()
n = len(data)
countries= []
for i in range(n):
    countries.append(data[i][3])



class WebTable:
    def __init__(self, webtable):
        self.table = webtable

    def column_data(self, column_number):
        col = self.table.find_elements_by_xpath("//tbody[1]/tr/td[" +
str(column_number) + "]")
        rData = []
        for webElement in col:
            rData.append(webElement.text)
        return rData


class Test(unittest.TestCase):
    def test_web_table(self):
        driver = webdriver.Chrome(executable_path=r".\chromedriver.exe")
        driver.implicitly_wait(30)

        driver.get("https://www.worldometers.info/coronavirus/")
        w =
WebTable(driver.find_element_by_xpath('//table[@id="main_table_countries_today"]/tbod
y[1]'))

        country = w.column_data(2)
        n_coun = country.count('')
        for i in range(n_coun):
            country.remove('')

        total_cases = w.column_data(3)
        n_total_cases = total_cases.count('')
        for i in range(n_total_cases):
            total_cases.remove('')

        total_deaths = w.column_data(5)
        n_total_deaths = total_deaths.count('')
        for i in range(n_total_deaths):
            total_deaths.remove('')

        total_recover = w.column_data(7)
        n_total_recover = total_recover.count('')
        for i in range(n_total_recover):
            total_recover.remove('')

        total_active = w.column_data(8)
        n_total_active = total_active.count('')
        for i in range(n_total_active):
            total_active.remove('')

        for k in countries:

            index_coun = country.index(k)

            # Variables:

            cases = total_cases[index_coun]
            deaths = total_deaths[index_coun]
            recovered = total_recover[index_coun]
            active = total_active[index_coun]
            print(cases,deaths,recovered,active)


            msg = f'''Subject: Coronavirus\n\n Hello {data[countries.index(k)][1]}!
Here is today's status.\n
            >>Country Name: {k}\n
            >>Total Cases: {cases}\n
            >>Total Deaths: {deaths}\n
            >>Total Recovered: {recovered}\n
            >>Active Cases: {active}\n\n\n
            >>Today's tip\n{Functions.getTip()}\n
            '''
            print(msg)

            Functions.mail(data[countries.index(k)][2], msg)
        driver.close()


if __name__ == "__main__":
    unittest.main()
```

Some Output Emails



fighting.corona2021... 22:33

to

Hello Himanshu! Here is today's status.

>>Country Name: India

>>Total Cases: 3,679,411

>>Total Deaths: 65,404

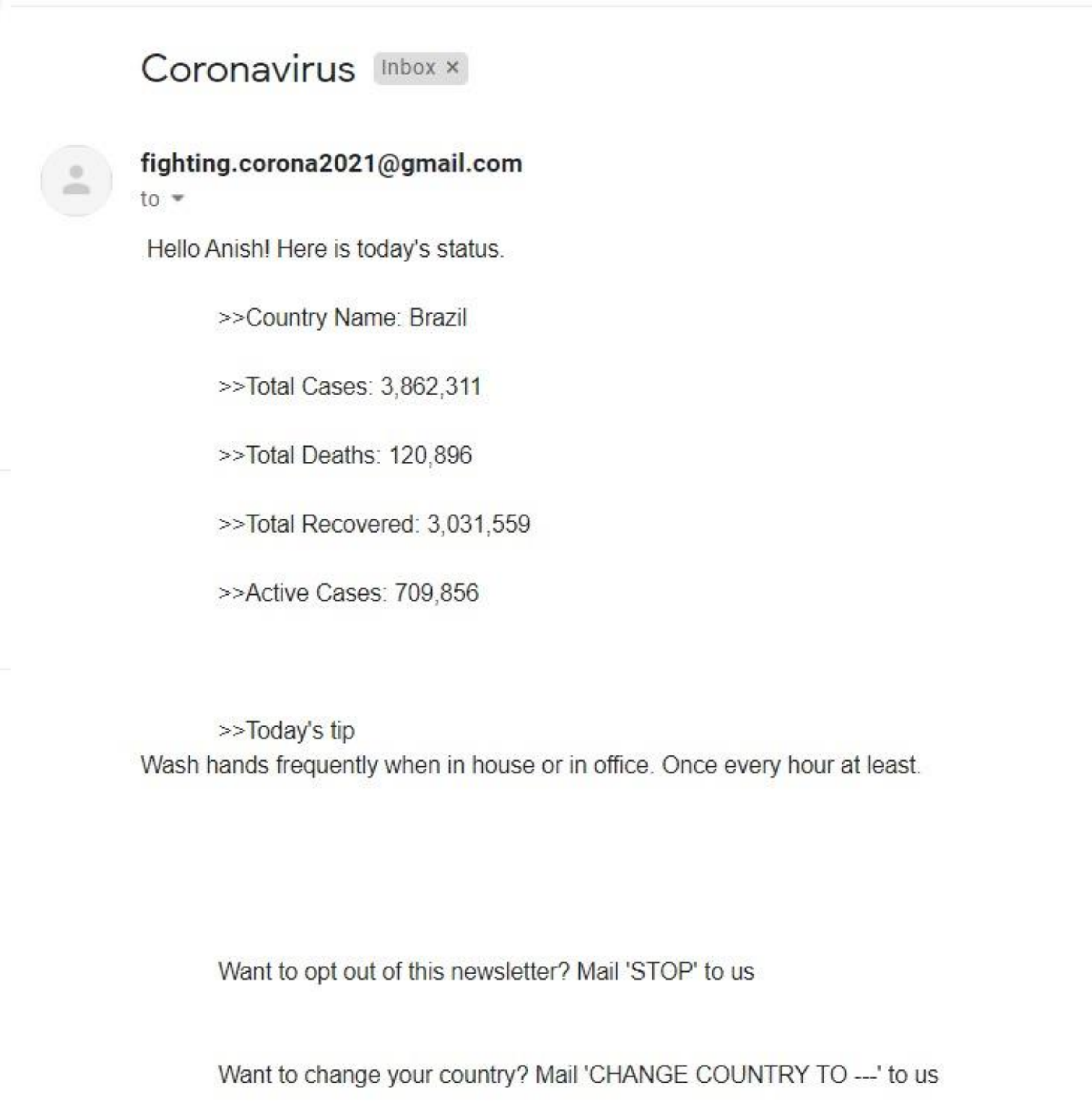
>>Total Recovered: 2,832,738

>>Active Cases: 781,269

>>Today's tip
Instruct maids not to touch main door. On entering the home, she has to immediatly wash hands thoroughly, before touching other things . After that, wipe the calling-bell switch with a cleaning fluid :)

Want to opt out of this newsletter? Mail 'STOP' to us

Want to change your country? Mail 'CHANGE COUNTRY TO ---' to us



Coronavirus

fighting.corona2021@gmail.com

Hello Anish! Here is today's status.

>>Country Name: Brazil

>>Total Cases: 3,862,311

>>Total Deaths: 120,896

>>Total Recovered: 3,031,559

>>Active Cases: 709,856

>>Today's tip
Wash hands frequently when in house or in office. Once every hour at least.

Want to opt out of this newsletter? Mail 'STOP' to us

Want to change your country? Mail 'CHANGE COUNTRY TO ---' to us

Acknowledgements

I would like to take this opportunity to express my deep sense of gratitude to all those people without whom this project could never have been completed. First and foremost, I would like to thank my parents for their inexhaustible source of inspiration.

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[Name]