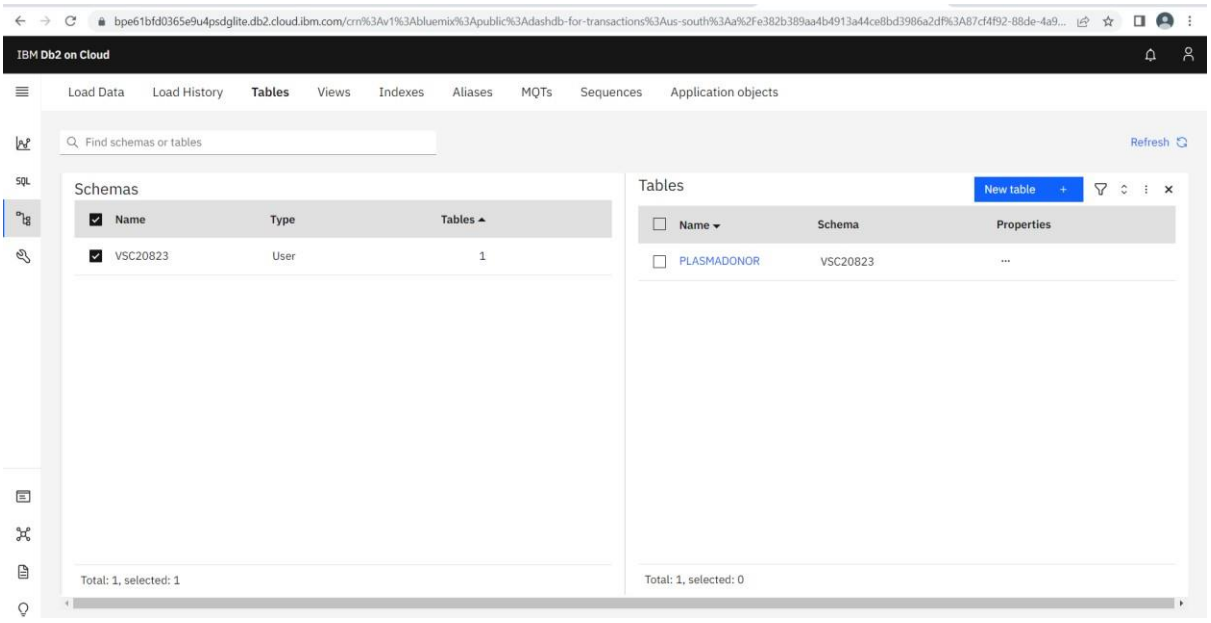
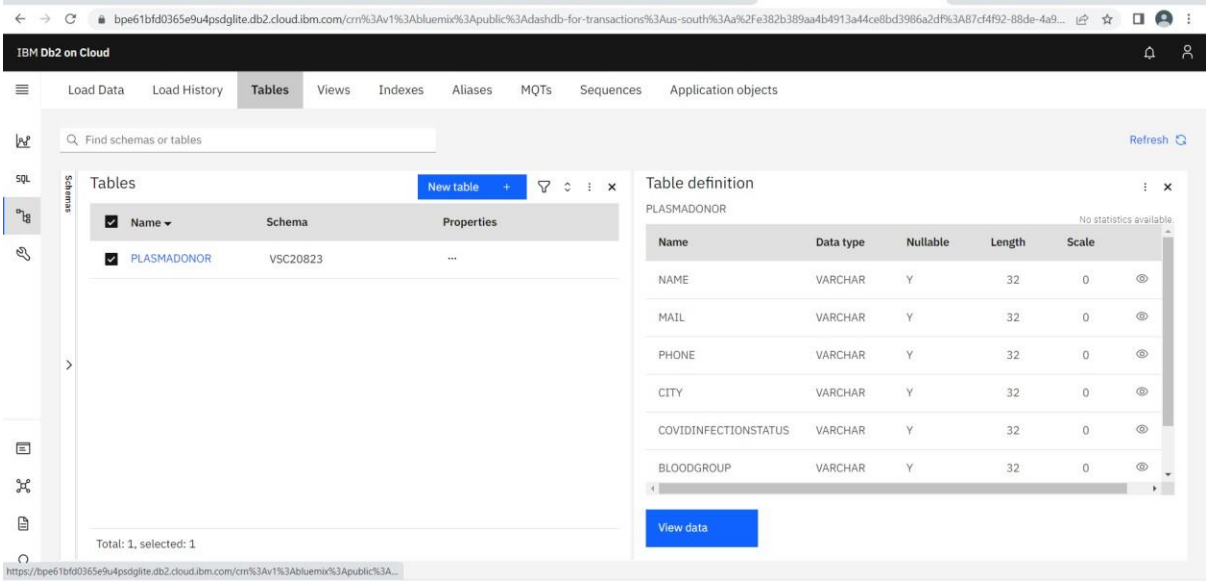
Assignment -2

Assignment Date	19 September 2022
Student Name	Sriram M
Student Roll Number	8204191040302
Maximum Marks	2 Marks

Question-1:

Create User table with user with email, username, roll number, password.



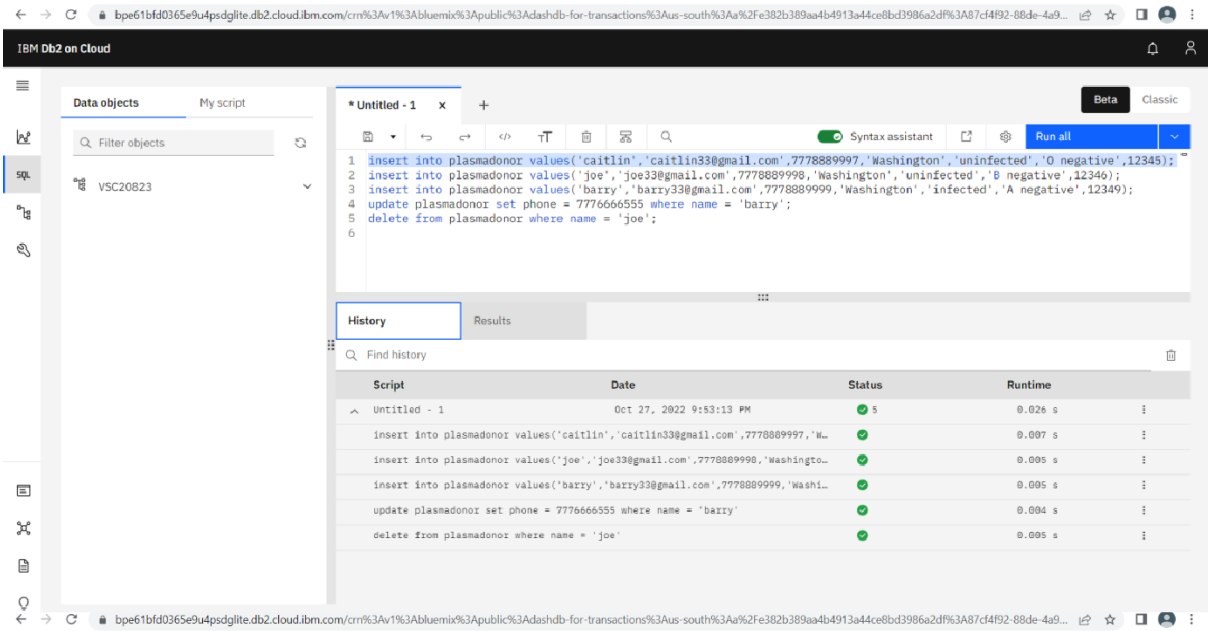


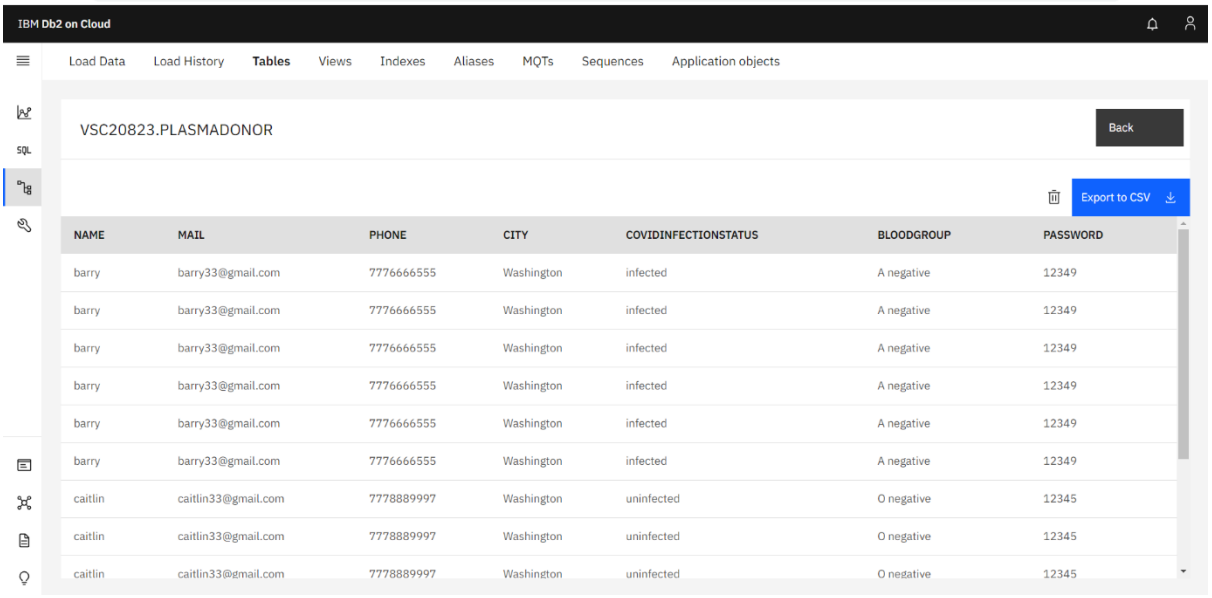
Question-2:

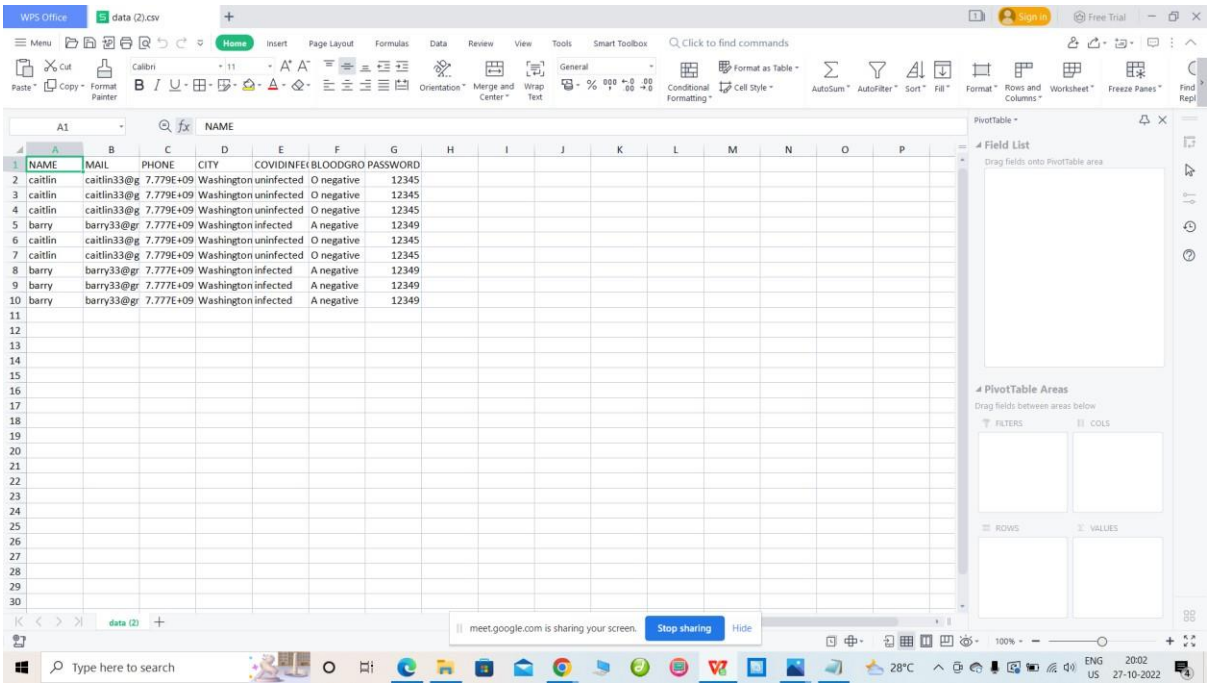
Perform UPDATE,DELETE Queries with user table

Solution:

```
insert into plasmadonor
values('caitlin','caitlin33@gmail.com','7778889997','Washington','uninfected','O negative','12345');

insert into plasmadonor values('joe','joe33@gmail.com','7778889998','Washington','uninfected','B negative','12346');

insert into plasmadonor values('barry','barry33@gmail.com','7778889999','Washington','infected','A negative','12349');

update plasmadonor set phone = '7776666555' where name = 'barry';

delete from plasmadonor where name = 'joe';
```





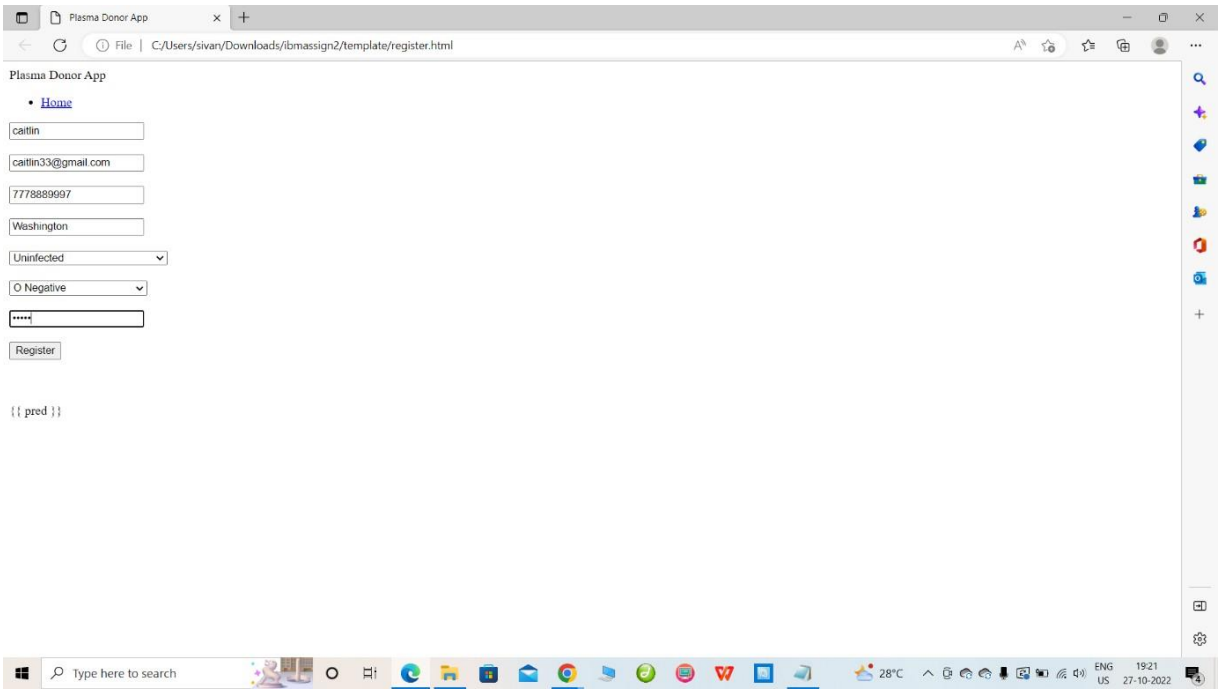


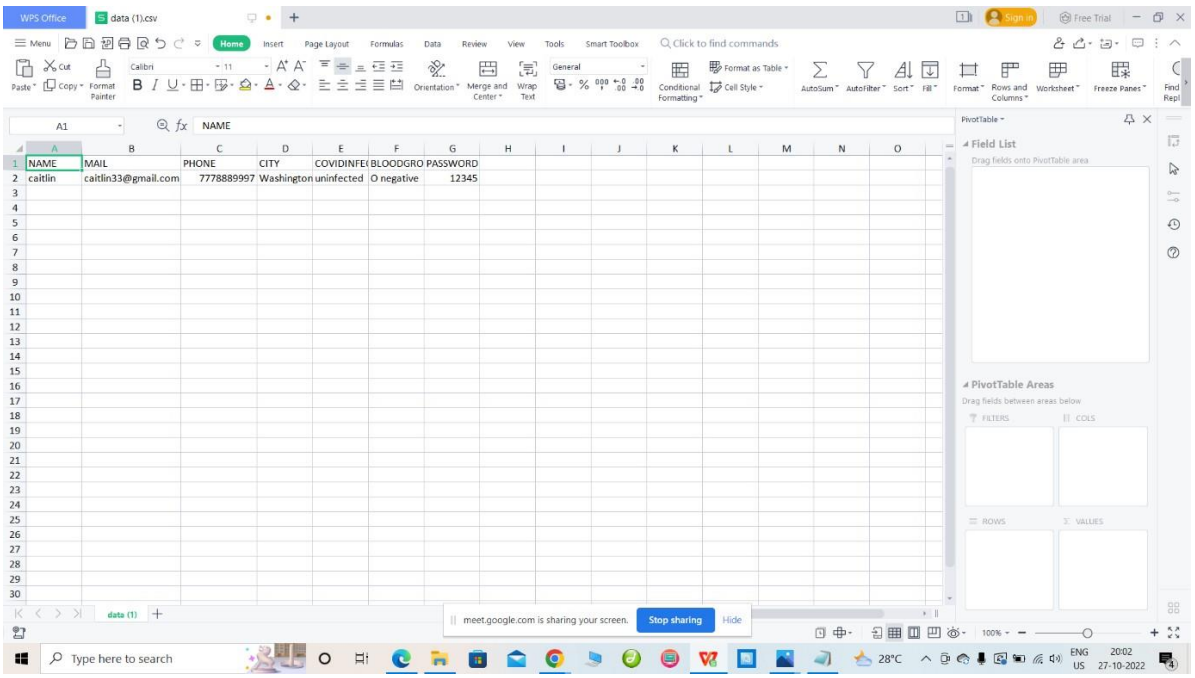
Question-3:

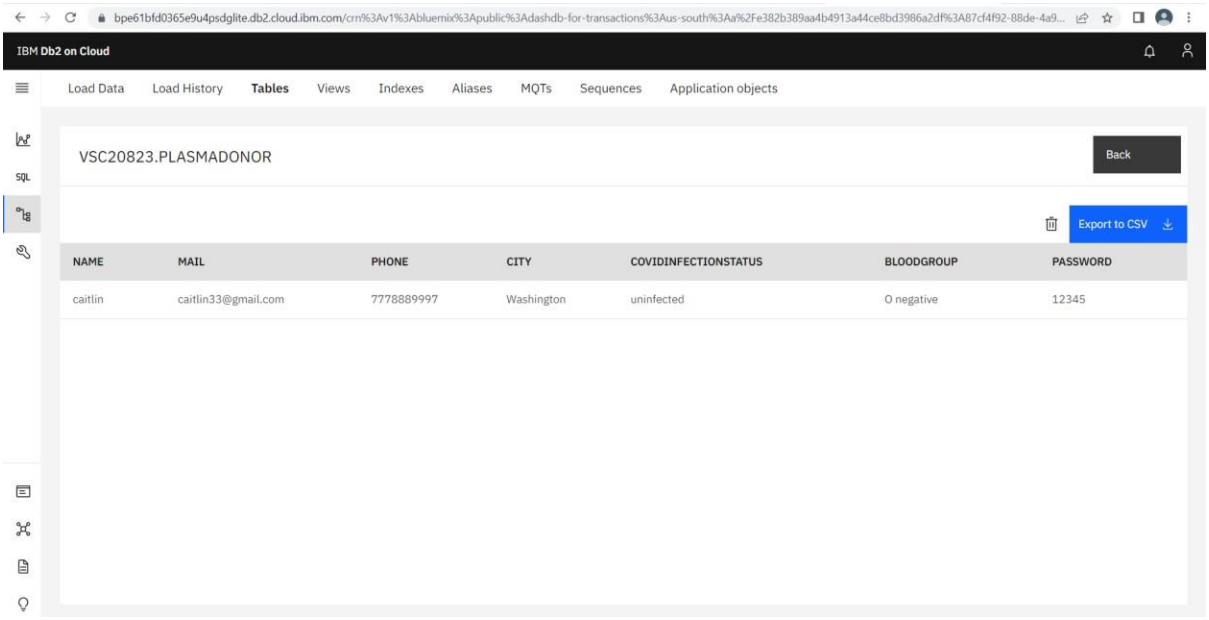
Connect python code to db2.

Solution:

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAtUGbPhns","","")


Plasma Donor App
File | C:/Users/sivan/Downloads/ibmassign2/template/register.html
Plasma Donor App
Home
caitlin
caitlin33@gmail.com
7778889997
Washington
Uninfected
O Negative
Register
{{ pred }}
Type here to search
28°C
ENG
US
19:21
27-10-2022


WPS Office
data (1).csv
Home
Insert
Page Layout
Formulas
Data
Review
View
Tools
Smart Toolbox
Click to find commands
A1
NAME
NAME MAIL PHONE CITY COVIDINFE BLOODGRO PASSWORD
caitlin caitlin33@gmail.com 7778889997 Washington uninfected O negative 12345
PivotTable
Field List
Drag fields onto PivotTable area
PivotTable Areas
Drag fields between areas below
FILTERS
COLS
ROWS
VALUES
data (1)
meet.google.com is sharing your screen.
Stop sharing
Hide
Type here to search
28°C
ENG
US
20:02
27-10-2022



Question-4:

Create a flask app with registration page, login page and welcome page. By default load the registration page once the user enters all the fields store the data in database and navigate to login page authenticate user username and password. If the user is valid show the welcome page

Solution:

register.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
        <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
        <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
        <!link rel="stylesheet" href="style.css">

<style>
.login{
top: 20%;
}
```

```
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
          <ul>
          <li><a class="active" href="/login">Home</a></li>
          </ul>
</div>
 <div class="login">
    <!-- Main Input For Receiving Query to our ML -->
   <form action="{{ url_for('register')}}"method="post">
          <input type="text" name="name" placeholder="Enter Your Name" required="required"
style="color:black"/>
      <input type="email" name="email" placeholder="Enter Email" required="required"
style="color:black"/>
                  <input type="text" name="phone" placeholder="Enter 10-digit mobile number"
required="required" style="color:black"/>
      <input type="city" name="city" placeholder="Enter Your City Name" required="required"
style="color:black"/>
                  <select name="infect">

  <option value="select" selected>Select COVID infection status</option><option
value="infected">Infected</option>
  <option value="uninfected">Uninfected</option>
                  </select>
      <select name="blood">
<option value="select" selected>Choose your blood group</option>
 <option value="O Positive">O Positive</option>
 <option value="A Positive">A Positive</option>
<option value="B Positive">B Positive</option>
 <option value="AB Positive">AB Positive</option>
 <option value="O Negative">O Negative</option>
 <option value="A Negative">A Negative</option>
 <option value="B Negative">B Negative</option>
  <option value="AB Negative">AB Negative</option>
                  </select>
      <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black"/>
      <button type="submit" class="btn btn-primary btn-block btn-large">Register</button>
   </form>
 <br><br>
<div style="color:black">
 {{ pred }}</div>
 </div>
```

```
</body>
</html>
```

login.html

```
<!DOCTYPE html>
<html >
<!--From https://codepen.io/frytyler/pen/EGdtg-->
<head>
  <meta charset="UTF-8">
  <title>Plasma Donor App</title>
        <link href='https://fonts.googleapis.com/css?family=Pacifico' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Arimo' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet'
type='text/css'>
        <link href='https://fonts.googleapis.com/css?family=Open+Sans+Condensed:300'
rel='stylesheet' type='text/css'>
        <link rel="stylesheet" href="{{ url_for('static', filename='style1.css') }}">
        <!link rel="stylesheet" href="style.css">

<style>
.login{
top: 20%;
}
</style>
</head>

<body>
<div class="header">
<div>Plasma Donor App</div>
        <ul>



                <li><a href="/registration">Register</a></li>
                <li><a class="active" href="/login">Home</a></li>
        </ul>
</div>
 <div class="login" >
                <div>
                </div>

    <!-- Main Input For Receiving Query to our ML -->
```

```
   <form action="{{ url_for('loginpage')}}"method="post">
          <input type="text" name="user" placeholder="Enter UserName" required="required"
style="color:black" />
      <input type="password" name="passw" placeholder="Enter Password" required="required"
style="color:black" />
      <button type="submit" class="btn btn-primary btn-block btn-large">Login</button>

   </form>
<br><br>
<div style="color :black">
 {{ pred }}</div>
 </div>

</body>
</html>
```

style.css

```
@import url(https://fonts.googleapis.com/css?family=Open+Sans);
.btn {
          display: inline-block;
          *display: inline;
          *zoom: 1; padding:
          4px 10px 4px;
          margin-bottom: 0;
          font-size: 13px;
          line-height: 18px;
          color: #333333;
          text-align: center;
          text-shadow: 0 1px 1px rgba(255, 255, 255, 0.75);
          vertical-align: middle;
          background-color: #f5f5f5;
          background-image: -moz-linear-gradient(top, #ffffff, #e6e6e6);
          background-image: -ms-linear-gradient(top, #ffffff, #e6e6e6);
          background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#ffffff), to(#e6e6e6));
          background-image: -webkit-linear-gradient(top, #ffffff, #e6e6e6);
          background-image: -o-linear-gradient(top, #ffffff, #e6e6e6);
          background-image: linear-gradient(top, #ffffff, #e6e6e6);
          background-repeat: repeat-x;
          filter: progid:dximagetransform.microsoft.gradient(startColorstr=#ffffff,
endColorstr=#e6e6e6, GradientType=0);
          border-color: #e6e6e6 #e6e6e6 #e6e6e6;
          border-color: rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.1) rgba(0, 0, 0, 0.25);
          border: 1px solid #e6e6e6;
          -webkit-border-radius: 4px;
```

```
        -moz-border-radius: 4px;
        border-radius: 4px;
        -webkit-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        -moz-box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.05);
        cursor: pointer; *margin-left: .3em;
        }

.btn:hover, .btn:active, .btn.active, .btn.disabled, .btn[disabled] { background-color: #e6e6e6; }

.btn-large {
        padding: 9px 14px;
        font-size: 15px;
        line-height: normal;
        -webkit-border-radius: 5px;
        -moz-border-radius: 5px;
        border-radius: 5px;
        }

.btn:hover {
        color: #333333;
        text-decoration: none;
        background-color: #e6e6e6;
        background-position: 0 -15px;
        -webkit-transition: background-position 0.1s linear;
        -moz-transition: background-position 0.1s linear;
        -ms-transition: background-position 0.1s linear;
        -o-transition: background-position 0.1s linear;
        transition: background-position 0.1s linear;
        }

.btn-primary, .btn-primary:hover {
        text-shadow: 0 -1px 0 rgba(0, 0, 0, 0.25);
        color: #ffffff;
        }

.btn-primary.active { color: rgba(255, 255, 255, 0.75); }

.btn-primary {
        background-color: #4a77d4;
        background-image: -moz-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -ms-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -webkit-gradient(linear, 0 0, 0 100%, from(#6eb6de), to(#4a77d4));
        background-image: -webkit-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: -o-linear-gradient(top, #6eb6de, #4a77d4);
        background-image: linear-gradient(top, #6eb6de, #4a77d4);
```

```
        background-repeat: repeat-x;
        filter: progid:dximagetransform.microsoft.gradient(startColorstr=#6eb6de,
endColorstr=#4a77d4, GradientType=0);
        border: 1px solid #3762bc;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.4);
        box-shadow: inset 0 1px 0 rgba(255, 255, 255, 0.2), 0 1px 2px rgba(0, 0, 0, 0.5);
        }

.btn-primary:hover, .btn-primary:active, .btn-primary.active, .btn-primary.disabled, .btn-
primary[disabled] {
        filter: none;
        background-color: #4a77d4;
        }

.btn-block { width: 100%; display:block; }

* { -webkit-box-sizing:border-box; -moz-box-sizing:border-box; -ms-box-sizing:border-box; -o-box-
sizing:border-box; box-sizing:border-box; }

html { width: 100%; height:100%; overflow:hidden; }

body {
        width: 100%;
        height:100%;
        font-family: 'Open Sans', sans-serif;
        background: #fffff;
        color: #000000;

        font-size: 18px;
        text-align:center;
        letter-spacing:1.2px;


}
.header {
                        top:0;
                        margin:0px;
                        left: 0px;
                        right: 0px;
                        position: fixed;
                        background: #4a77d4;
                        color: white;
                        box-shadow: 0px 8px 4px grey;
                        overflow: hidden;
                        padding: 15px;
                        font-size: 1.5vw;
```

```
                        width: 100%;
                        text-align: center;
                }
.login {
        position: absolute;
        top: 70%;
        left: 50%;
        margin: -25px 0 0 -150px;
        width:400px;
        height:400px;
}

.header div { color: #fff; text-shadow: 0 0 10px rgba(0,0,0,0.3); letter-spacing:1px; text-
align:center; float:left; padding-left:150px;}

ul {
  list-style-type: none;
  margin: 0;
  padding: 0;
  padding-right:150px;
  overflow: hidden;
 }


li {
  float: right;
}

li a {
  display: block;
  color: white;
  text-align: center;
  padding: 0px 15px;
  text-decoration: none;
}


input {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: black;
```

```
        text-shadow: black;
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
}
input:focus { box-shadow: inset 0 -5px 45px rgba(100,100,100,0.4), 0 1px 1px
rgba(255,255,255,0.2); }


select {
        width: 100%;
        margin-bottom: 10px;
        background: rgba(255,255,255,255);
        border: none;
        outline: none;
        padding: 10px;
        font-size: 13px;
        color: #000000;
        text-shadow: 1px 1px 1px rgba(0,0,0,0.3);
        border: 1px solid rgba(0,0,0,0.3);
        border-radius: 4px;
        box-shadow: inset 0 -5px 45px rgba(100,100,100,0.2), 0 1px 1px rgba(255,255,255,0.2);
        -webkit-transition: box-shadow .5s ease;
        -moz-transition: box-shadow .5s ease;
        -o-transition: box-shadow .5s ease;
        -ms-transition: box-shadow .5s ease;
        transition: box-shadow .5s ease;
}
```

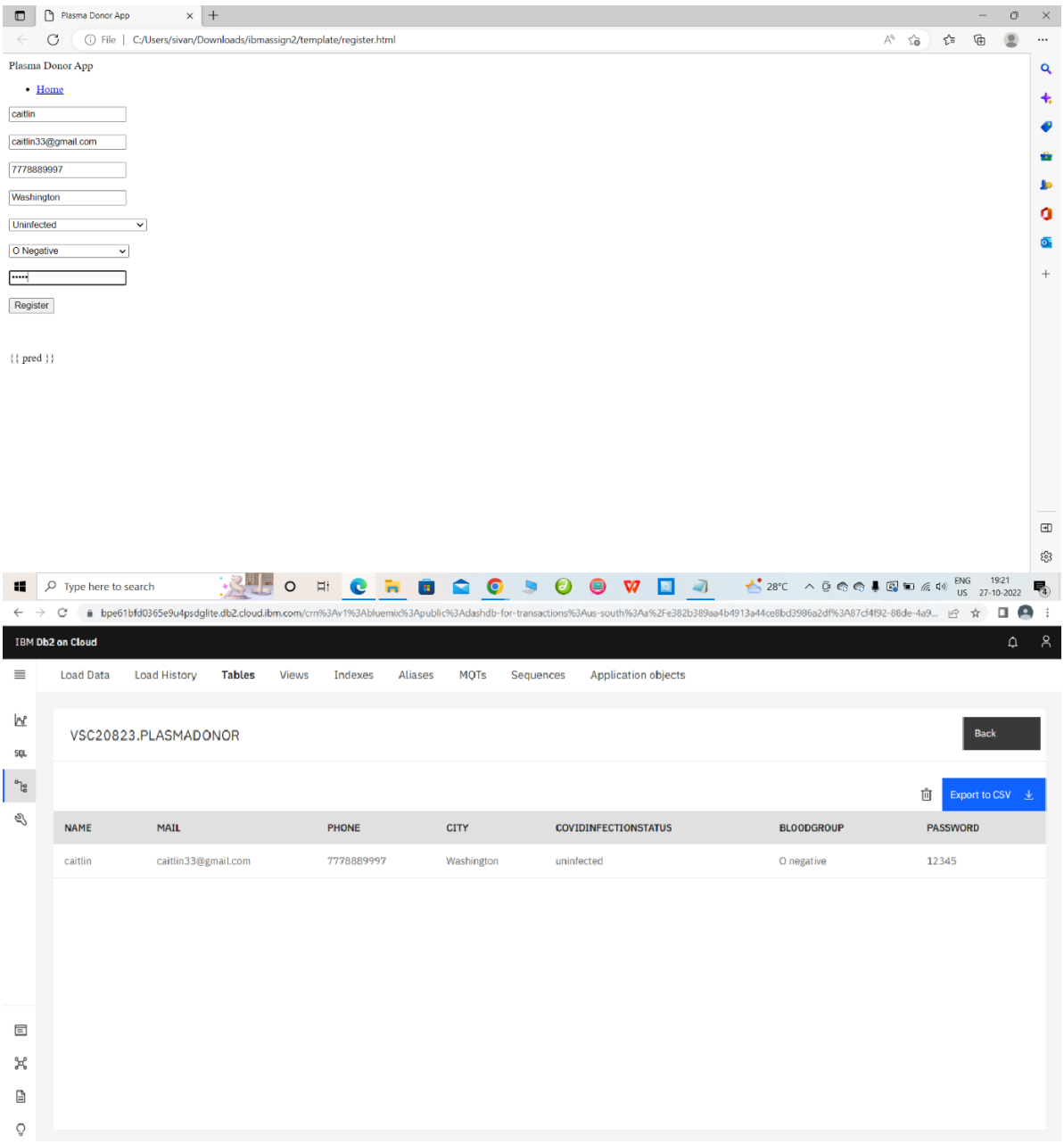
app.py

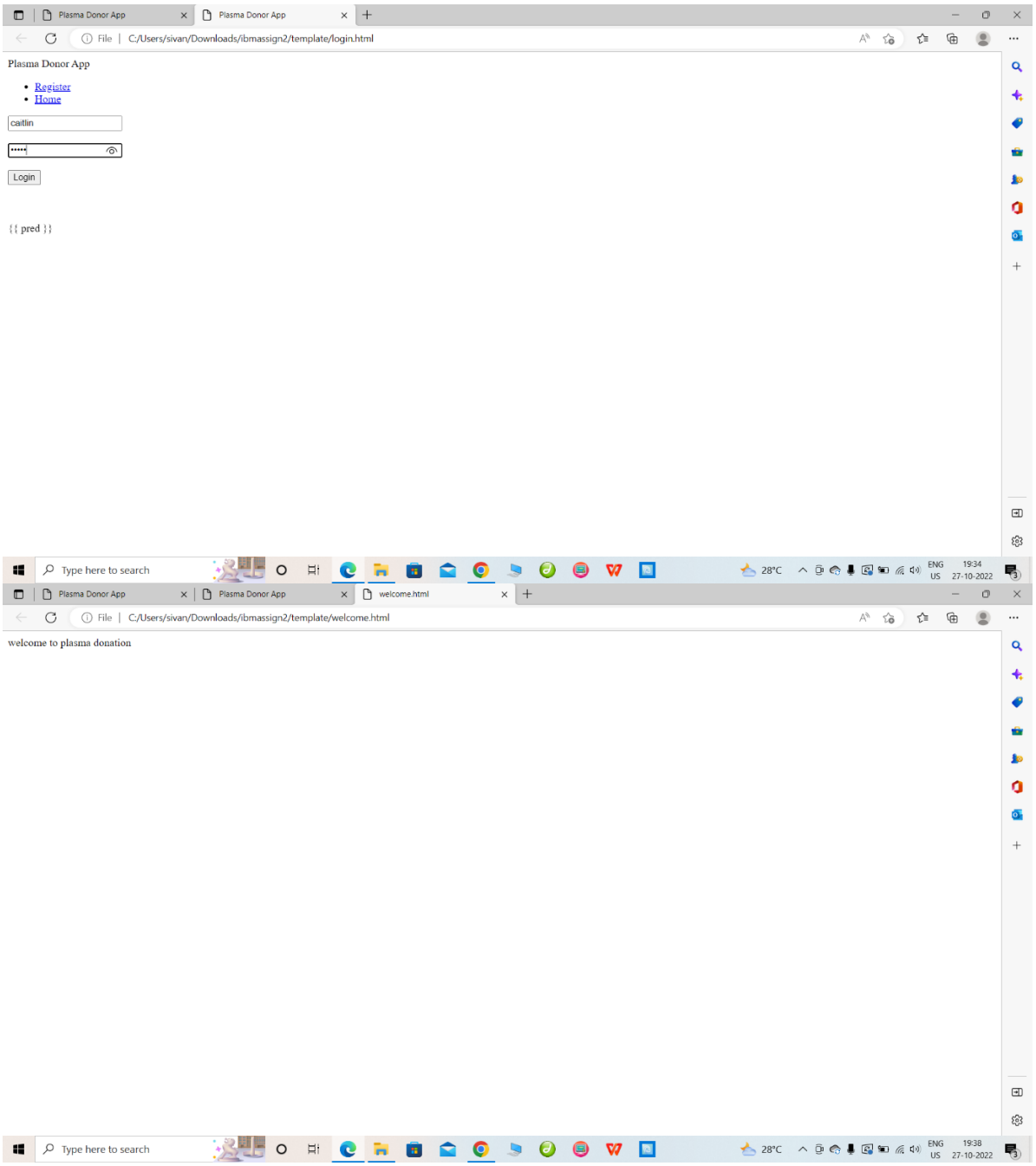
```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import json
import requests
app = Flask(__name__)

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=3883e7e4-18f5-4afe-be8c-
fa31c41761d2.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=31498;SECURITY=SSL;SSL
ServerCertificate=DigiCertGlobalRootCA.crt;UID=sch83401;PWD=j7QZUHGAtUGbPhns",'','')
```

```
@app.route('/registration')
def home():
    return render_template('register.html')

@app.route('/register',methods=['POST'])
def register():
    x = [x for x in request.form.values()]
    print(x)
    name=x[0]
    email=x[1]
    phone=x[2]
    city=x[3]
    infect=x[4]
    blood=x[5]
    password=x[6]
    sql = "SELECT * FROM plasmadonor WHERE email =?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,email)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print(account)
    if account:
        return render_template('register.html', pred="You are already a member, please login using
your details")
    else:
        insert_sql = "INSERT INTO plasmadonor VALUES (?, ?, ?, ?, ?, ?, ?)"
        prep_stmt = ibm_db.prepare(conn, insert_sql)
        ibm_db.bind_param(prep_stmt, 1, name)
        ibm_db.bind_param(prep_stmt, 2, email)
        ibm_db.bind_param(prep_stmt, 3, phone)
        ibm_db.bind_param(prep_stmt, 4, city)
        ibm_db.bind_param(prep_stmt, 5, infect)
        ibm_db.bind_param(prep_stmt, 6, blood)
        ibm_db.bind_param(prep_stmt, 7, password)
        ibm_db.execute(prep_stmt)
        return render_template('register.html', pred="Registration Successful, please login using your
details")



@app.route('/')
@app.route('/login')
def login():
    return render_template('login.html')
```

```
@app.route('/loginpage',methods=['POST'])
def loginpage():
    user = request.form['user']
    passw = request.form['passw']
    sql = "SELECT * FROM plasmadonor WHERE email =? AND password=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,user)
    ibm_db.bind_param(stmt,2,passw)
    ibm_db.execute(stmt)
    account = ibm_db.fetch_assoc(stmt)
    print (account)
    print(user,passw)
    if account:
          return redirect(url_for('stats'))
    else:
       return render_template('login.html', pred="Login unsuccessful. Incorrect username /
password !")


@app.route('/stats')
def stats():
    '''sql = "SELECT blood FROM user group by blood"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.execute(stmt)
    count = ibm_db.fetch_assoc(stmt)
    print(count)'''
    return render_template('stats.html',b=5,b1=2,b2=3,b3=4,b4=2,b5=1,b6=2,b7=1,b8=1)

@app.route('/requester')
def requester():
    return render_template('request.html')


@app.route('/requested',methods=['POST'])
def requested():
    bloodgrp = request.form['bloodgrp']
    address = request.form['address']
    print(address)
    sql = "SELECT * FROM plasmadonor WHERE blood=?"
    stmt = ibm_db.prepare(conn, sql)
    ibm_db.bind_param(stmt,1,bloodgrp)
    ibm_db.execute(stmt)
    data = ibm_db.fetch_assoc(stmt)
    msg = "Need Plasma of your blood group for: "+address
    while data != False:
       print ("The Phone is : ", data["PHONE"])
```

```
url="https://www.fast2sms.com/dev/bulk?authorization=xCXuwWTzyjOD2ARd1EngbH3a7tKIq5PklJ8YSf0Lh4FQZecs9iNI1dSvuqprxFwCKYJXA5amQkBE36Rl&sender_id=FSTSMS&message="+msg+"&language=english&route=p&numbers="+str(data["PHONE"])
        result=requests.request("GET",url)
        print(result)
        data = ibm_db.fetch_assoc(stmt)
    return render_template('request.html', pred="Your request is sent to the concerned people.")


if __name__== "_main_":
    app.run(host='0.0.0.0', port=8080)
```




Plasma Donor App
Plasma Donor App
File | C:/Users/sivan/Downloads/ibmassign2/template/login.html
Plasma Donor App
Register
Home
caitlin
Login
{{ pred }}
Type here to search
28°C
ENG
US
19:34
27-10-2022
Plasma Donor App
Plasma Donor App
welcome.html
File | C:/Users/sivan/Downloads/ibmassign2/template/welcome.html
welcome to plasma donation
Type here to search
28°C
ENG
US
19:38
27-10-2022