SPRINT – *2*

Date	12 November 2022
Team ID	PNT2022TMID00943
Project name	Plasma Donor Application

FOCUS ELEMENTS:

USN 4: Create Registration form for the recipients
USN 5: Storing the data in the database
USN 6: Connecting IBM DB2

CODE:

Reg.html:

```
<!DOCTYPE html>
<html>
   <head>
      <title>Recipient Registration page</title>
      <link rel="stylesheet" href="style.css">
   </head>
        <style>
 body{
  background-image: url(https://images.pexels.com/photos/6074921/pexels-photo-6074921.jpeg?cs=srgb&dl=pexels-alena-shekhovtcova-6074921.jpg&fm=jpg&_gl=1*1jzc4xw*_ga*MTkxMDQwNjUxNS4xNjY3Mjk3NDk1*_ga_8JE65Q40S6*MTY2NzQ4NDI3MS4yLjEuMTY2NzQ4NTA4NC4wLjAuMA..);
background-repeat: no-repeat; }
  </style>
  <body>
<div class="wrap">
 <h2 class="head">RECIPIENT REGISTER FORM</h2>
<div class="sub-main">
  <form action="#" method="post">
```

```
 <input placeholder="Username" name="Username" type="text" required="">
 <br> <input placeholder="Age" name="Age" type="text" required="">
 <br><input placeholder="Gender" name="Gender" type="text" required="">
<br><input placeholder="Blood group" name="Blood group" type="text" required="">
 <br>
  <input placeholder="Phone Number" name="Number"type="text" required="">
   <br><input placeholder="Address" name="Address" type="text" required="">
   <br><input placeholder="Email" name="mail" type="text" required="">
  <br><input  placeholder="Password" name="Password" type="password" required="">
  <br><input  placeholder="Confirm Password" name="Password"type="password"required="">
  <br><input placeholder="Height" name="Height" type="text" required="">
   <br><input placeholder="Weight" name="Weight" type="text" required="">
   <br><br>
   <button><input type="submit" value="Register"></form></button>
   </form>
   </div>
   <div class="clear"></div>
</div></body>
</html>
```

Login.html:

```
<Html>
 <head>
  <title>Login form</title>
```

```
 <style>
  body {
    background-image: url(login.jpg);
    background-repeat: no-repeat;
    background-position: right;}
  .main {
    background-color: lightpink;
        position: absolute;
        top: 50%;
        right: 60%;
        transform: translate(-50%, -50%);
        background: #0aeff0;
        box-shadow: 0 0 5px rgba(0 0 0 /.5), 0 0 25px rgba(0 0 0 /.5), 0 0 50px rgba(0 0 0 /.5), 0
0 100px #03e9f4
width: 400px;
padding: 60px;
 background: rgba(0 0 0 /.9);
 box-sizing: border-box;
 border-radius: 10px;
  } .login{
    margin-left: auto;
    margin-right: auto;
   }
 </style></head>
<h1 class="word" style="padding:95px";> DONOR/RECIPIENT LOGIN</h1>
```

```
<body>
  <br><img src="{{url_for('static' , filename='login.jpg') }}" type=" " >
  <div class="main">
    <div class="login">
      <form action="{{ url_for('login') }}" method="post">
        <br>
        <center>
          <label style="color:#ffff;">Username:</label>
          <input type="text" name="Username" size="15" /> <br> <br>
          <label style="color:#ffff;"> Password: </label>
          <input type="text" name="Password" size="15" />
          <br> <br> <br>
          <button>
            <input type="submit" value="LOGIN" />
          </button>
        </center>
      </form>
    </div>
  </div>
</body>
</html>
```

App.py:

```
from flask import Flask, render_template, request, redirect, url_for, session
import ibm_db
import re
```

```
app = Flask(_name_)
app.secret_key = 'a'
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=125f9f61-9715-46f9-9399-
c8177b21803b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=30426;SECURITY=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=thy82883;PWD=DtTOZYv3UCHUf
P15","","")
@app.route('/')
def home():
    return render_template('index.html')
@app.route('/login', methods =['GET', 'POST'])
def login():
    global userid
    msg = ''
    if request.method == 'POST'and 'username' in request.form and 'password' in request.form:
        username = request.form['username']
        password = request.form['password']
        stmt = ibm_db.prepare(conn,'SELECT * FROM donor WHERE username = ? AND
password = ?')
        ibm_db.bind_param(stmt,1,username)
        ibm_db.bind_param(stmt,2,password)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        if account:
            session['loggedin'] = True
            session['username'] = account['USERNAME']
            msg = 'Logged in successfully !'
            return render_template('index.html', msg = msg)
        else:
            msg = 'Incorrect username / password !'
    return render_template('login.html', msg = msg)

@app.route('/logout')
def logout():
    session.pop('loggedin', None)
    session.pop('id', None)
    session.pop('username', None)
    return redirect(url_for('login'))

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

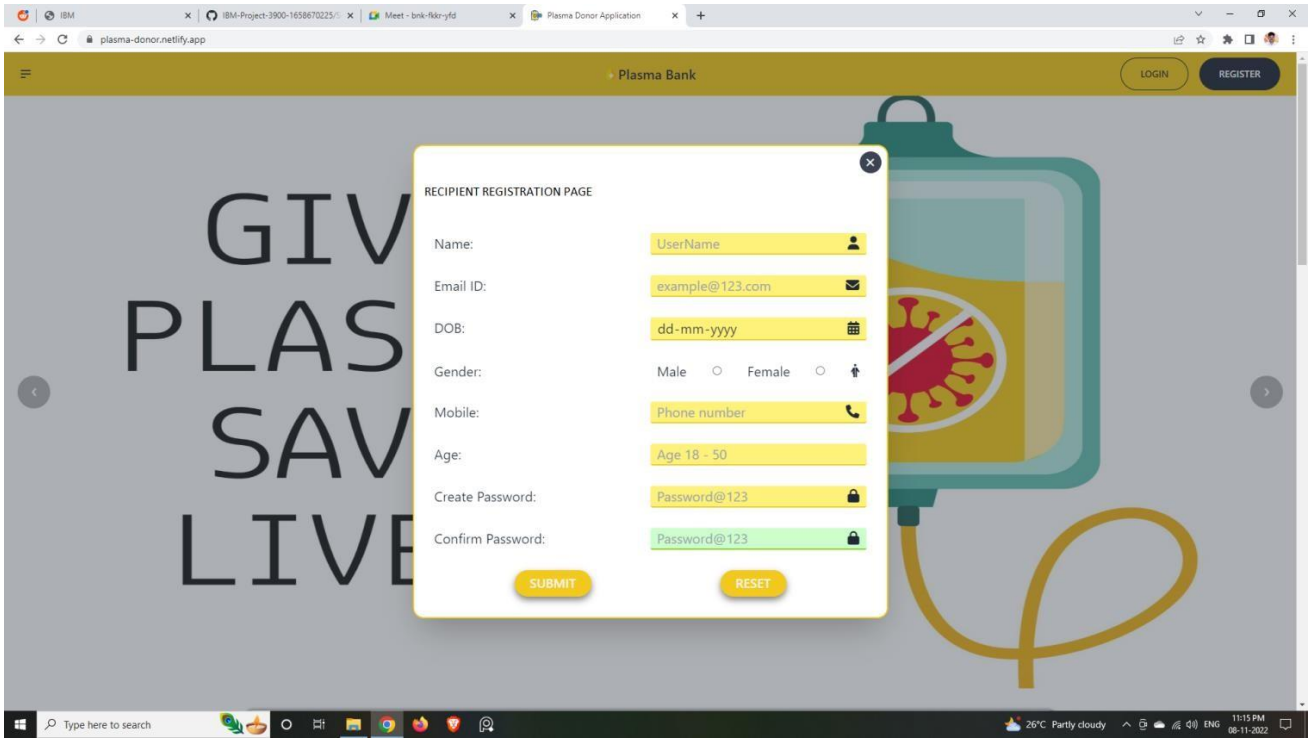
```
def register():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        age = request.form['age']
        bloodgroup = request.form['bloodgroup']
        lastdonatedate= request.form['lastdonatedate']
        gender = request.form['gender']
        phone= request.form['phone']
        address= request.form['address']
        email = request.form['email']
        password = request.form['password']
        confirmpassword = request.form['confirmpassword']
        height= request.form['height']
        weight = request.form['weight']
        sql = "SELECT * FROM donor WHERE username = ? "
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'Username must contain only characters and numbers !'
        elif not username or not password or not username:
            msg = 'Please fill out the form !'
        else:
            insert_sql = "INSERT INTO donor VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username )
            ibm_db.bind_param(stmt, 2, age)
            ibm_db.bind_param(stmt, 3, bloodgroup)
            ibm_db.bind_param(stmt, 4, lastdonatedate )
            ibm_db.bind_param(stmt, 5, gender )
            ibm_db.bind_param(stmt, 6, phone )
            ibm_db.bind_param(stmt, 7, address )
            ibm_db.bind_param(stmt, 8, email )
```

```
            ibm_db.bind_param(stmt, 9, password )
            ibm_db.bind_param(stmt, 10, confirmpassword )
            ibm_db.bind_param(stmt, 11, height)
            ibm_db.bind_param(stmt, 12, weight )
            ibm_db.execute(stmt)

            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'

    return render_template('donor.html', msg = msg)
@app.route('/registers', methods =['GET', 'POST'])
def registers():
    msg = ''
    if request.method == 'POST':
        username = request.form['username']
        age = request.form['age']
        bloodgroup = request.form['bloodgroup']
        gender = request.form['gender']
        phone= request.form['phone']
        address= request.form['address']
        email = request.form['email']
        password = request.form['password']
        confirmpassword = request.form['confirmpassword']
        height= request.form['height']
        weight = request.form['weight']
        sql = "SELECT * FROM recipient WHERE username = ? "
        stmt = ibm_db.prepare(conn,sql)
        ibm_db.bind_param(stmt,1,username)
        ibm_db.execute(stmt)
        account = ibm_db.fetch_assoc(stmt)
        print(account)
        if account:
            msg = 'Account already exists !'
        elif not re.match(r'[^@]+@[^@]+\.[^@]+', email):
            msg = 'Invalid email address !'
        elif not re.match(r'[A-Za-z0-9]+', username):
            msg = 'Username must contain only characters and numbers !'
        elif not username or not password or not username:
            msg = 'Please fill out the form !'
```

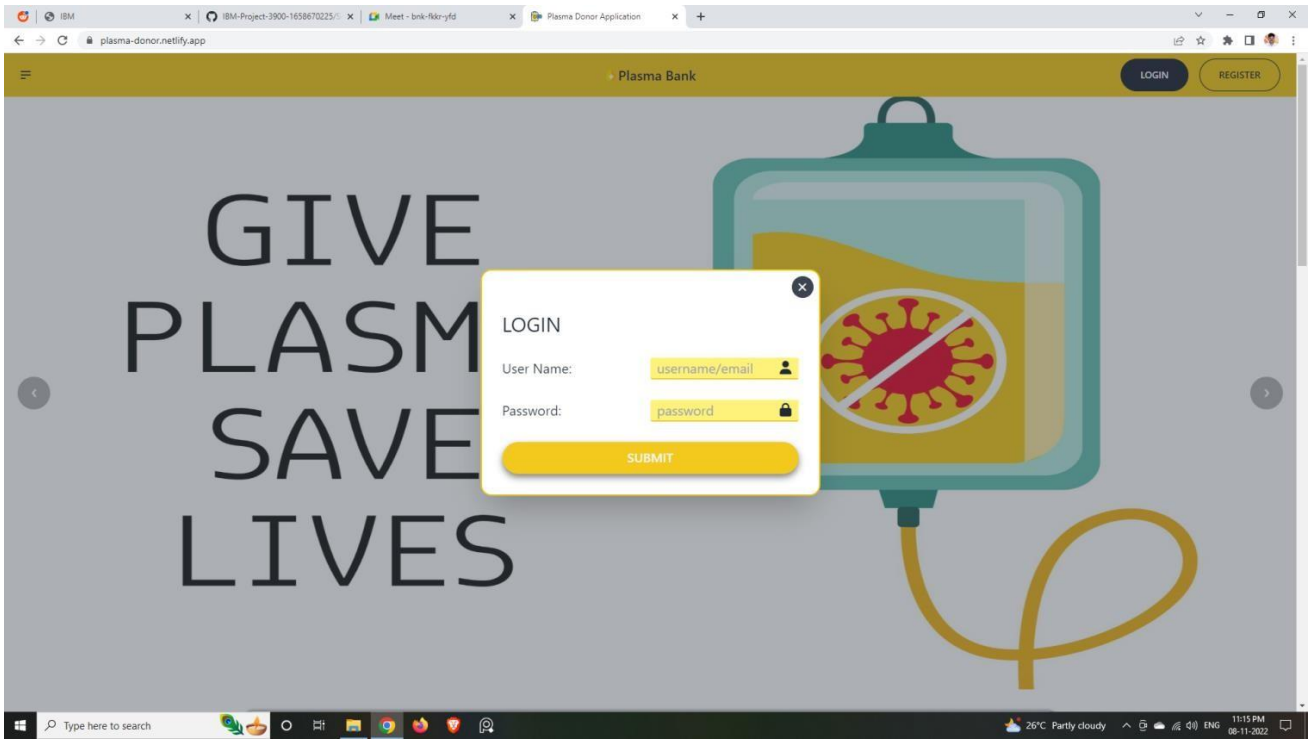
```
        else:
            insert_sql = "INSERT INTO recipient VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)"
            stmt = ibm_db.prepare(conn,insert_sql)
            ibm_db.bind_param(stmt, 1, username )
            ibm_db.bind_param(stmt, 2, age)
            ibm_db.bind_param(stmt, 3, bloodgroup)
            ibm_db.bind_param(stmt, 4, gender )
            ibm_db.bind_param(stmt, 5, phone )
            ibm_db.bind_param(stmt, 6, address )
            ibm_db.bind_param(stmt, 7, email )
            ibm_db.bind_param(stmt, 8, password )
            ibm_db.bind_param(stmt, 9, confirmpassword )
            ibm_db.bind_param(stmt, 10, height)
            ibm_db.bind_param(stmt, 11, weight )
            ibm_db.execute(stmt)

            msg = 'You have successfully registered !'
    elif request.method == 'POST':
        msg = 'Please fill out the form !'

    return render_template('recipient.html', msg = msg)
if__name__== '_main_':
    app.run(debug = True)
```

OUTPUT

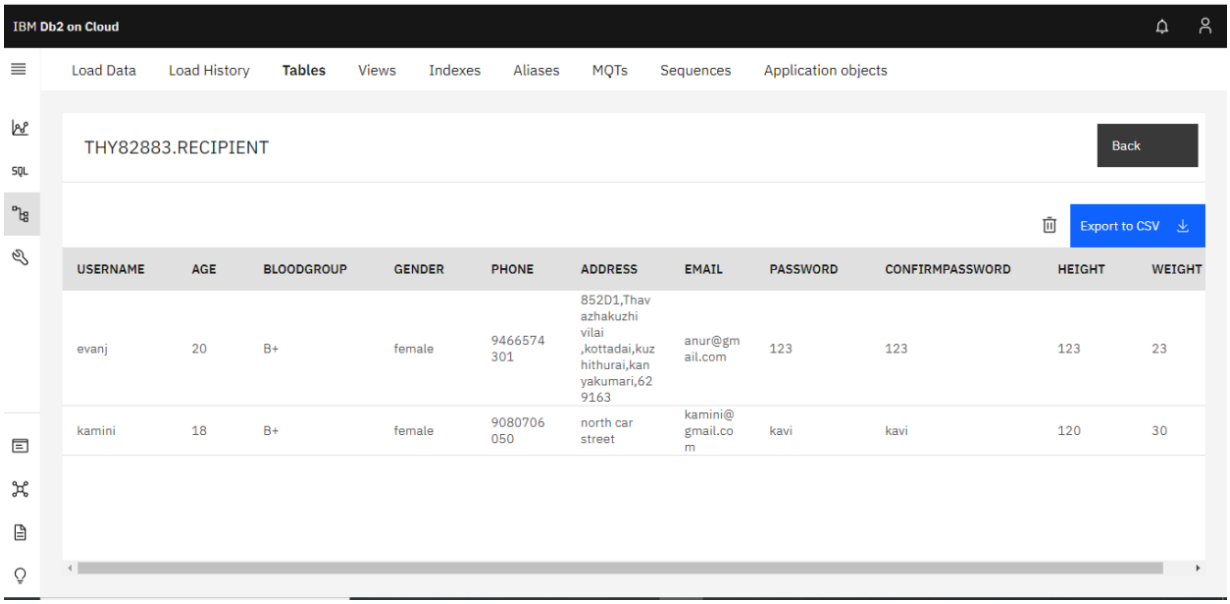
Recipient registration page:



Recipient login page:



DATEBASE for Recipient:



USERNAME	AGE	BLOODGROUP	GENDER	PHONE	ADDRESS	EMAIL	PASSWORD	CONFIRMPASSWORD	HEIGHT	WEIGHT
evanj	20	B+	female	9466574301	852D1,Thavazhakuzhi vilai ,kottadai,kuzhithurai,kanyakumari,629163	anur@gmail.com	123	123	123	23
kamini	18	B+	female	9080706050	north car street	kamini@gmail.com	kavi	kavi	120	30

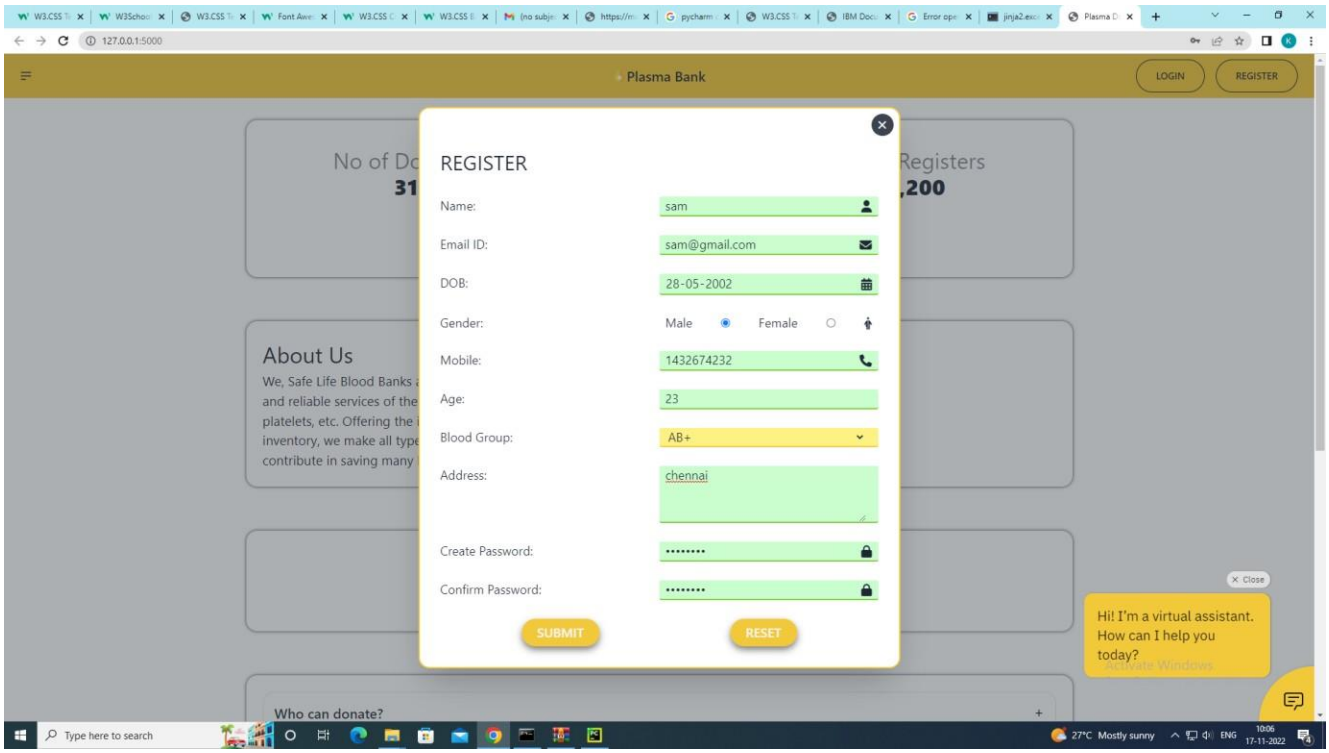
Sprint-2 EMAIL ALERT CONFIRMATION TO DONOR

Mail.py:

```
# importing libraries
from flask import Flask
from flask_mail import Mail, Message
app = Flask(__name__)
mail = Mail(app) # instantiate the mail class
# configuration of mail
app.config['MAIL_SERVER']='smtp.gmail.com'
app.config['MAIL_PORT'] = 465
app.config['MAIL_USERNAME'] = 'godsonrajr@gmail.com'
app.config['MAIL_PASSWORD'] = 'fsgdfhgtdyhtdh'
app.config['MAIL_USE_TLS'] = False
app.config['MAIL_USE_SSL'] = True
mail = Mail(app)
# message object mapped to a particular URL ‘/’
@app.route("/")
def index():
   msg = Message(
               'you have registered sucessfully',
               sender =' godsonrajr@gmail.com',recipients =
               [' sam@gmail.com']
              )
```

```
msg.body = 'welcome !! to plasma donor web application'
mail.send(msg)
return'Sent'
if__name__== '__main__':
 app.run(debug = True)
```

DONOR Registration page:



Database donor table: