

## SPRINT-2

Team ID	PNT2022TMID07636
Project name	Plasma donor web application

### 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>

<div class="main">

    <div class="login">

        <form action="{{ url_for('login') }}" method="post">

            <br>

            <center>

                <label style="color:#fff;">Username:</label>

                <input type="text" name="Username" size="15" /> <br> <br>

                <label style="color:#fff;"> 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 confirmpassword:
            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 confirmpassword:
            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)
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=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=thy82883;PWD=DtTOZYv3UCHUfP15";",")
@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 confirmpassword:
        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)

```

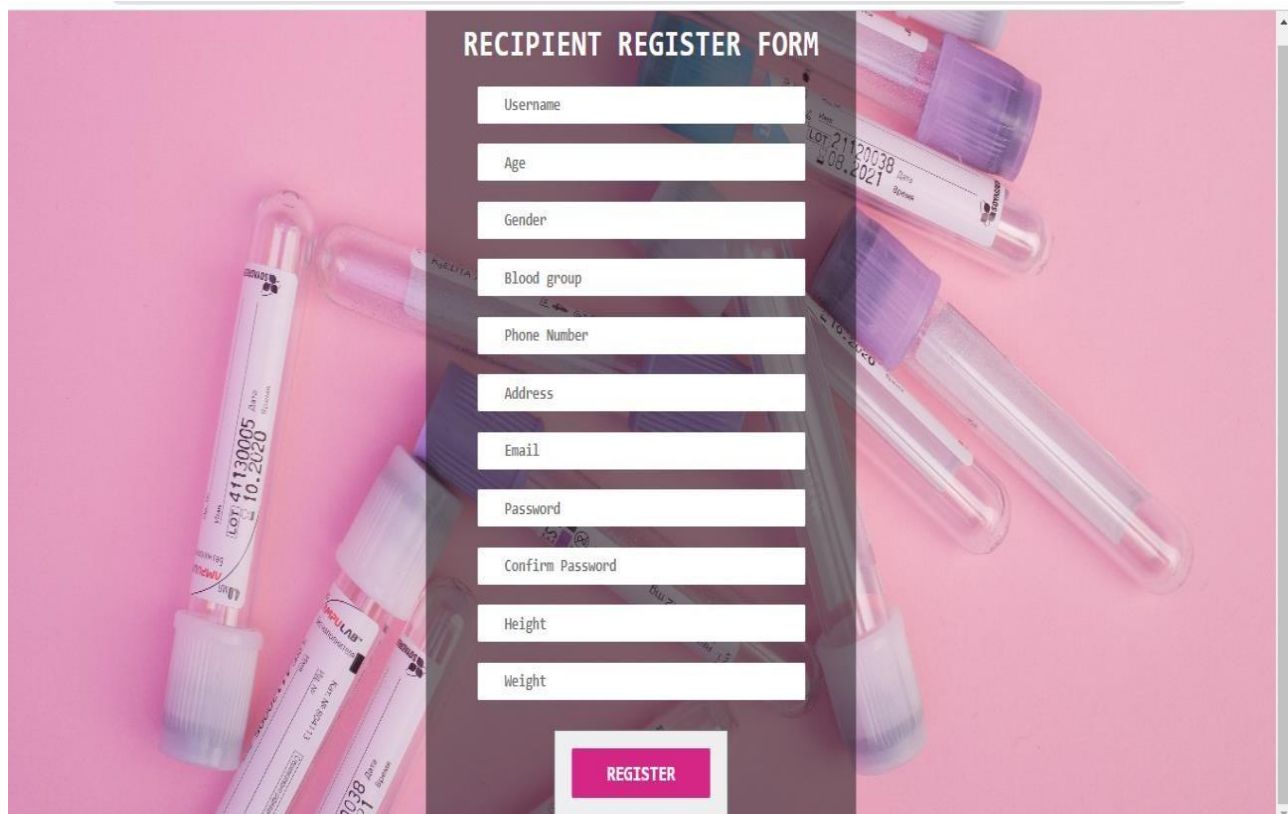
```
ibm_db.bind_param(stmt, 11, weight )
ibm_db.execute(stmt)

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:

A screenshot of a web application showing a registration form titled "RECIPIENT REGISTER FORM". The form is overlaid on a background image of several medical test tubes. The form contains the following fields: Username, Age, Gender, Blood group, Phone Number, Address, Email, Password, Confirm Password, Height, and Weight. At the bottom of the form is a pink button labeled "REGISTER".

**RECIPIENT REGISTER FORM**

Username

Age

Gender

Blood group

Phone Number

Address

Email

Password

Confirm Password

Height


Weight

**REGISTER**

**RECIPIENT REGISTER FORM**

**Recipient login page:**

**DONOR/RECIPIENT LOGIN**



DATEBASE for Recipient:

IBM Db2 on Cloud

Load Data

Load History

Tables

Views

Indexes

Aliases

MQTs

Sequences

Application objects

SQL

Export to CSV

THY82883.RECIPIENT

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

**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'] = 'karpagamboothanathan@gmail.com'

app.config['MAIL_PASSWORD'] = 'nmydiidhksvvojid'

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',

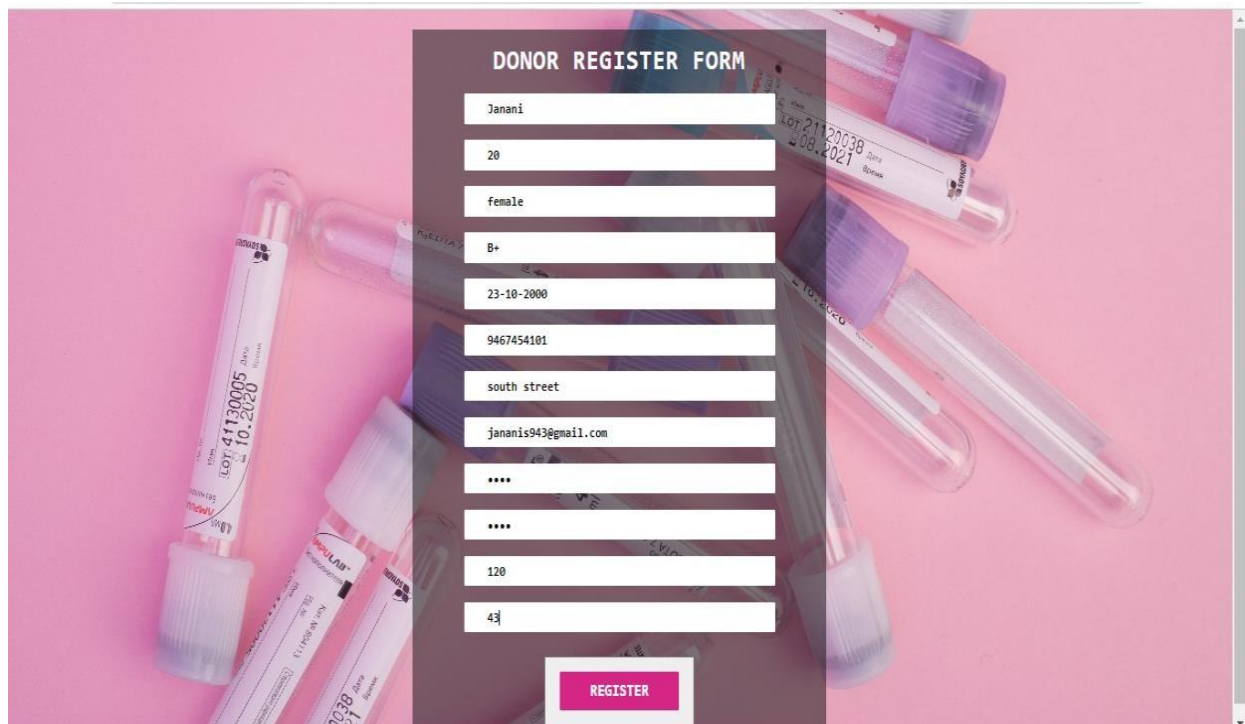
        sender='karpagamboothanathan@gmail.com',

        recipients = ['jananis943@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:



The image shows a web application interface for donor registration. The background is a pink surface with several blood test tubes. Overlaid on this is a dark grey rectangular form titled "DONOR REGISTER FORM". The form contains the following fields and values:

Field	Value
Name	Janani
Age	20
Gender	female
Blood Type	B+
Phone Number	23-10-2000
Address	9467454101
City	south street
Email	jananis943@gmail.com
Password	****
Confirm Password	****
Height	120
Weight	43

At the bottom of the form is a pink button labeled "REGISTER".



