ASSIGNMENT-3

TEAM ID	PNT2022TMID49560
PROJECT NAME	CUSTOMER CARE REGISTRY
NAME	MAHESH.S
ROLL NO	950019104024

1. Create User table with user with email, username, password.

2. Perform UPDATE, DELETE Queries with user table

3. **Connect python code to db2**

   conn = ibm_db.connect("DATABASE=bludb;HOSTNAME= b1bc1829-6f45-4cd4-bef4-10cf081900bf.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID= "wTne@jfkc0ZbD4sN",;PWD= "txb82340","",")

   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 the database and navigate to the login page to authenticate user username and password. If the user is valid show the welcome page

   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'

```python
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b1bc1829-6f45-4cd4-
bef4-10cf081900bf.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=
32304;SECURITY=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=ldc2
9737;PWD=8chltNu9YvPRo0Sw","",")
@app.route('/')
def home():
    return render_template('register.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 accounts 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']
        password = request.form['password']
        email = request.form['email']
```

```python
            sql = "SELECT * FROM accounts 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 email:
                msg = 'Please fill out the form !'
            else:
                insert_sql = "INSERT INTO accounts VALUES (?, ?, ?)"
                stmt = ibm_db.prepare(conn,insert_sql)
                ibm_db.bind_param(stmt, 1, username)
                ibm_db.bind_param(stmt, 2, password)
                ibm_db.bind_param(stmt, 3, email)
                ibm_db.execute(stmt)
                msg = 'You have successfully registered !'
        elif request.method == 'POST':
            msg = 'Please fill out the form !'

        return render_template('register.html', msg = msg)
    if __name__ == '__main__':
        app.run(debug = True)
```

index.html

```html
<html>
    <head>
        <meta charset="UTF-8">
        <title> Index </title>
        <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
         <div align="center" class="border">
           <div class="header">
             <h1 class="word">Index</h1>
           </div></br></br></br>
             <h1 class="bottom">
```

```
            Hi {{session.username}}!!</br></br> Welcome to the index page...
        </h1></br></br></br>
        <a href="{{ url_for('logout') }}" class="btn">Logout</a>
      </div>
    </div>
  </body>
</html>
```

register.html

```
<html>
  <head>
    <meta charset="UTF-8">
    <title> Register </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
         <h1 class="word">Register</h1>
       </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('register') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your
Username" class="textbox"/></br></br>
          <input id="password" name="password" type="password" placeholder="Enter
Your Password" class="textbox"/></br></br>
          <input id="email" name="email" type="text" placeholder="Enter Your Email ID"
class="textbox"/></br></br>
          <input type="submit" class="btn" value="Sign Up"></br>
        </form>
      </h2>
      <p   class="bottom">Already   have   an   account?      <a   class="bottom"
href="{{url_for('login')}}"> Sign In here</a></p>
     </div>
    </div>
  </body>
</html>
```
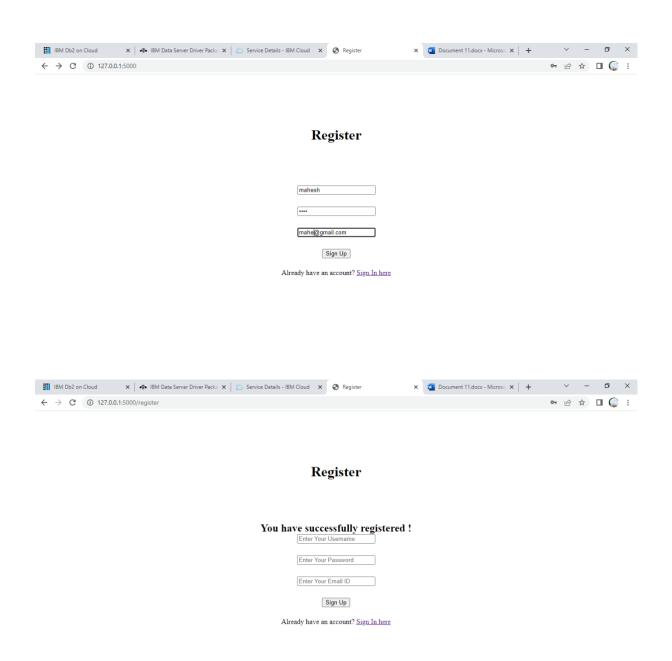
login.html

```
<html>
```

```html
  <head>
    <meta charset="UTF-8">
    <title> Login </title>
    <link rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
  </head>
  <body></br></br></br></br></br>
    <div align="center">
     <div align="center" class="border">
       <div class="header">
         <h1 class="word">Login</h1>
       </div></br></br></br>
      <h2 class="word">
        <form action="{{ url_for('login') }}" method="post">
         <div class="msg">{{ msg }}</div>
          <input id="username" name="username" type="text" placeholder="Enter Your Username" class="textbox"/></br></br>
           <input id="password" name="password" type="password" placeholder="Enter Your Password" class="textbox"/></br></br></br>
           <input type="submit" class="btn" value="Sign In"></br></br>
        </form>
      </h2>
      <p class="bottom">Don't have an account?        <a class="bottom" href="{{url_for('register')}}"> Sign Up here</a></p>
     </div>
    </div>
  </body>
</html>
```
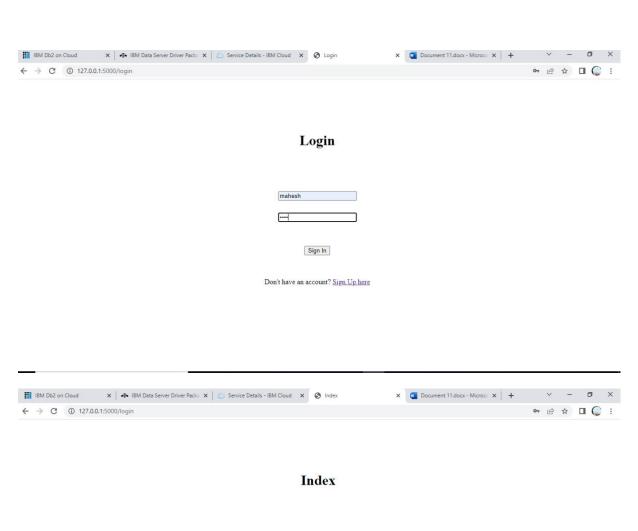
style.css

```css
.header{
       padding: 5px 120px;
       width: 150px;
       height: 70px;
       background-color: #236B8E;
     }

     .border{
       padding: 80px 50px;
       width: 400px;
       height: 450px;
       border: 1px solid #236B8E;
       border-radius: 0px;
```

```css
      background-color: #9AC0CD;
    }

    .btn {
      padding: 10px 40px;
      background-color: #236B8E;
      color: #FFFFFF;
      font-style: oblique;
      font-weight: bold;
      border-radius: 10px;
    }

    .textbox{
      padding: 10px 40px;
      background-color: #236B8E;
      text-color: #FFFFFF;
      border-radius: 10px;
    }

    ::placeholder {
      color: #FFFFFF;
      opacity: 1;
      font-style: oblique;
      font-weight: bold;
    }

    .word{
      color: #FFFFFF;
      font-style: oblique;
      font-weight: bold;
    }

    .bottom{
      color: #236B8E;
      font-style: oblique;
      font-weight: bold;
    }
```

OUTPUT

Register

mahesh

••••

mahe@gmail.com

Sign Up

Already have an account? Sign In here

Register

You have successfully registered !

Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

Already have an account? Sign In here

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← → C   ⓘ 127.0.0.1:5000/login

Login

mahesh

••••

Sign In

Don't have an account? Sign Up here

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← → C   ⓘ 127.0.0.1:5000/login

Index

Hi mahesh !!

Welcome to the index page...

Logout