

### Assignment-3

<b>Team id</b>	PNT2022TMID49581
<b>PROJECT NAME</b>	CUSTOMER CARE REGISTRY
<b>NAME</b>	ANANTHA KRISHNAN P
<b>ROLL NO</b>	950019104001

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

```
CREATE TABLE user(email varchar(50) not null,  
                    username varchar(20) not null,  
                    roll_number int not null, password  
                    varchar(20) not null)  
  
INSERT INTO user(email, username, roll_number, password)  
VALUES('pananthakrishnan939@gmail.com','krishnan','4001','krishna')
```

2.Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username='ananthakrishnan' WHERE  
email='pananthakrishnan939@gmail.com'  
  
DELETE FROM user WHERE username = 'ananthakrishnan'
```

3.Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=fbd88901-ebdb-4a4f-  
a32e-9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;  
PORT=32731;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=  
nhq66223;PWD=N7VIA2j9QpmYNHzJ;","")
```

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.

**login.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>
```

### 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>
```

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

### **index.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>
        <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 Our
page...
                </h1></br></br></br>
                <a href="{{ url_for('logout') }}" class="btn">Logout</a>
            </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=fbd88901-ebdb-4a4f-a32e-
9822b9fb237b.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32731;Security=SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=nhq66223;PWD=N7V1A2j9Qpm
YNHzJ;","")

@app.route('/')

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

def login():    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 users 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' and 'username' in request.form and 'password' in request.form
    and 'email' in request.form :

        username = request.form['username']
password = request.form['password']
email = request.form['email']

        stmt = ibm_db.prepare(conn,'SELECT * FROM users WHERE username = ?')
ibm_db.bind_param(stmt,1,username)    ibm_db.execute(stmt)

        account = ibm_db.fetch_assoc(stmt)
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:

            prep_stmt = ibm_db.prepare(conn,"INSERT INTO users VALUES(?, ?, ?)")
ibm_db.bind_param(prepare_stmt, 1, username)
ibm_db.bind_param(prepare_stmt, 2, email)    ibm_db.bind_param(prepare_stmt, 3,
password)    ibm_db.execute(prepare_stmt)

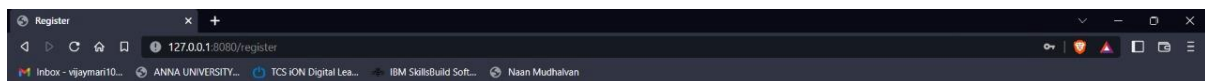
            msg = 'You have successfully registered !'
elif request.method == 'POST':    msg =
'Please fill out the form !'

    return render_template('register.html', msg = msg)

```

```
if __name__ == '__main__':  
    app.debug = True  
    app.run(host='0.0.0.0',port=8080)
```

## Output:

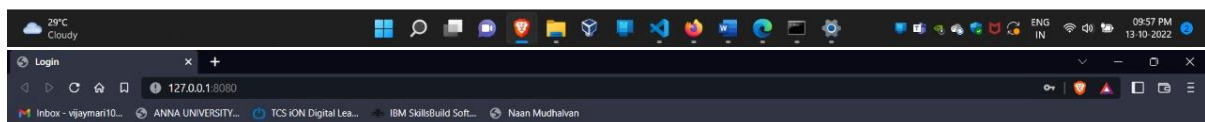


### Register

You have successfully registered !

Sign Up

Already have an account? [Sign In here](#)

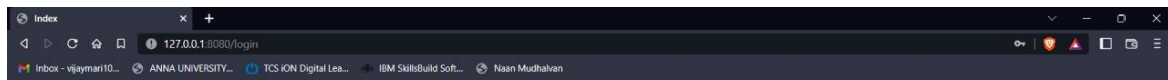


### Login

Sign In

Don't have an account? [Sign Up here](#)





Index

Hi Krish123!!

Welcome to Our page...

[Logout](#)

IBM Db2 on Cloud

Load Data Load History **Tables** Views Indexes Aliases MQTs Sequences Application objects

NHQ66223.USERS

Back

Export to CSV

USERNAME	EMAIL	PASSWORD
Krish123	pananthakrishnan939@gmail.com	Krish123