

Assignment-2

Team id	PNT2022TMID49642
PROJECT NAME	NUTRITION ASSISTANT APPLICATION
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1. Create User table with user with email, username, roll number, password.

```
CREATE TABLE user(  
    username varchar(20) not null,  
    email varchar(50) not null,  
    password varchar(20) not null)  
  
INSERT INTO user(username, email, password)  
VALUES('sumithsj02', 'sumithsj321@gmail.com', 'sumith321')
```

2. Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username=' sumithsj02' WHERE email= sumithsj321@gmail.com  
DELETE FROM user WHERE username = ' sumithsj02'
```

3. Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f5-  
23dbb4c6a74e.c1ogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=  
SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pbv90190;PWD=pEihUI0HD05igFYt;",'', '')
```

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>

</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></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>
```

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=b70af05b-76e4-4bca-a1f5-
23dbb4c6a74e.clogj3sd0tgtu0lqde00.databases.appdomain.cloud;PORT=32716;Security=
SSL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=pbv90190;PWD=pEihUI0HD05igFYt;",'', '')

@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 user 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 user 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 user 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:

The screenshot shows a web browser window with the following tabs: "an - sumithsudhakaranl@gm...", "IBM", "Service Details - IBM Cloud", "IBM Db2 on Cloud", and "Register". The address bar displays "127.0.0.1:8080/register". The browser's taskbar at the bottom includes icons for Gmail, YouTube, IBM, and IBM-EPBL/IBM-Proj....

The registration form is centered on a light blue background. It features a pink header with the word "Register" in white. Below the header, there are four input fields: a username field containing "sumithsj02", a password field with masked characters "*****", an email field containing "sumithsj321@gmail.com", and a "Sign Up" button. At the bottom of the form, a link reads "Already have an account? [Sign In here](#)".

On the right side of the browser window, a Windows activation watermark is visible, stating "Activate Windows" and "Go to Settings to activate Windows."

Register

You have successfully registered !

Enter Your Username

Enter Your Password

Enter Your Email ID

Sign Up

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

Activate Windows
Go to Settings to activate Windows.

Login

sumithsj02

Sign In

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

Activate Windows
Go to Settings to activate Windows.

Index

Hi sumithsj02!!

Welcome to the index page...

[Logout](#)

Activate Windows
Go to Settings to activate Windows.

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

🔍 SQL 🗑️

PBV90190.USER Back

🗑️ Export to CSV ⬇️

USERNAME	EMAIL	PASSWORD
sumith	asdf@gmail.com	12345
sumithjubin	sumithsj@gmail.com	asdfg
sumithsj	sumithsj@gmail.com	SUMITH
sumithsj02	sumithsj321@gmail.com	sumith321
sumithsjsj	sjsmith@gmail.com	654321

DigiCertGlobalRoot....crt ^

Activate Windows
Go to Settings to activate Windows.
Show all x

