Assignment-2

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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('Hamthan','hamthan@gmail.com', '12345')

2. Perform UPDATE, DELETE Queries with user table

UPDATE user SET username='Hamthan' WHERE email= hamthan@gmail.com 'DELETE FROM user WHERE username = 'Hamthan'

3. Connect python code to db2.

conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=b70af05b-76e4-4bca-a1f523dbb4c6a74e.clogj3sd0tgtu0lqde00.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>
 k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
 </head>
 <body></br></br></br>
 <div align="center">
 <div align="center" class="border">
 <div class="header">
 <h1 class="word">Login</h1>
 </div></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>
<input id="password" name="password" type="password" placeholder="Enter Your
Password" class="textbox"/></br></br>
 <input type="submit" class="btn" value="Sign In"></br></br>
 </form>
 </h2>
 Don't have an account? <a class="bottom"</pre>
href="{{url_for('register')}}"> Sign Up here</a>
</div>
</div>
</body>
</html>
       register.html:
       <html>
       <head>
       <meta charset="UTF-8">
       <title> Register </title>
       k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
       </head>
       <body></br></br></br>
       <div align="center">
```

```
<div align="center" class="border">
       <div class="header">
       <h1 class="word">Register</h1>
       </div></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>
       <input id="password" name="password" type="password" placeholder="Enter Your
      Password" class="textbox"/></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>
       Already have an account? <a class="bottom"</pre>
      href="{{url_for('login')}}"> Sign In here</a>
       </div>
       </div>
       </body>
      </html>
index.html:
<html>
<head>
<meta charset="UTF-8">
<title> Index </title>
 k rel="stylesheet" href="{{ url_for('static', filename='style.css') }}">
</head>
<body></br></br></br>
<div align="center">
<div align="center" class="border">
<div class="header">
 <h1 class="word">Index</h1>
 </div></br></br>
<h1 class="bottom">
 Hi {{session.username}}!!</br>
Welcome to the index page...
```

</h1></br></br>

Logout	1>	

```
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.c1ogj3sd0tgtu0lqde00.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(prep_stmt, 1, username)
```

```
ibm_db.bind_param(prep_stmt, 2, email)
    ibm_db.bind_param(prep_stmt, 3, password)
    ibm_db.execute(prep_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)
```









