ASSIGNMENT – 2

TEAM ID : PNT2022TMID21818

PROJECT NAME : NUTRITION ASSISTANT APPLICATION

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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(‘ashwinkumar@gmail.com’,’ashwin17’,’4006’,’ashwin’)
```

2.Perform UPDATE,DELETE Queries with user table

```
UPDATE user SET username='ashwin17' WHERE email='ashwinkumar@gmail.com'
DELETE FROM user WHERE username = 'ashwin'
```

3.Connect python code to db2.

```
conn = ibm_db.connect("DATABASE=bludb;HOSTNAME=824dfd4d-99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;Security=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lbs14903;PWD=1N4walQ5ywwi
```

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

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/fontawesome/
4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css')
}}">
<title>Login Form</title>
</head>
<body>
<div class="container">
<form action="{{ url_for('login') }}" method="POST"
class="login-email">
<p class="login-text" style="font-size: 2rem; fontweight:
800;">Login</p>
<div class="input-group">
<input id="username" type="text"
placeholder="Enter username" name="username">
</div>
<div class="input-group">
<input id="password" type="password"
placeholder="Password" name="password">wP7c;",'',")
```

```
</div>
<div class="input-group">
<button name="submit"
class="btn">Login</button>
</div>
<p class="login-register-text">Don't have an account?
<a href="{{url_for('register')}}">Register Here</a>.</p>
</form>
</div>
</body>
</html>
```

register.html:

```
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/fontawesome/
4.7.0/css/font-awesome.min.css">
<link rel="stylesheet" type="text/css" href="{{ url_for('static', filename='style.css')
}}">
<title>Register Form</title>
</head>
<body>
<div class="container" >
<form action="{{url_for('register')}}" method="POST" class="login-email">
<p class="login-text" style="font-size: 2rem; font-weight: 800;">Register</p>
<div class="msg">{{ msg }}</div>
<div class="input-group">
<input type="text" placeholder="Username"
name="username">
</div>
<div class="input-group">
```

```
<input type="email" placeholder="Email" name="email">
</div>
<div class="input-group">
<input type="password" placeholder="Password"
name="password">
</div>
<div class="input-group">
<button type="submit" class="btn">Register</button>
</div>
<p class="login-register-text">Have an account? <a
href="{{url_for('login')}}">Login Here</a>.</p>
</form>
</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 Our
page...
</h1></br></br></br>
<a href="{{ url_for('logout') }}" class="btn">Logout</a>
</div>
```

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

style.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;
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;
}
```

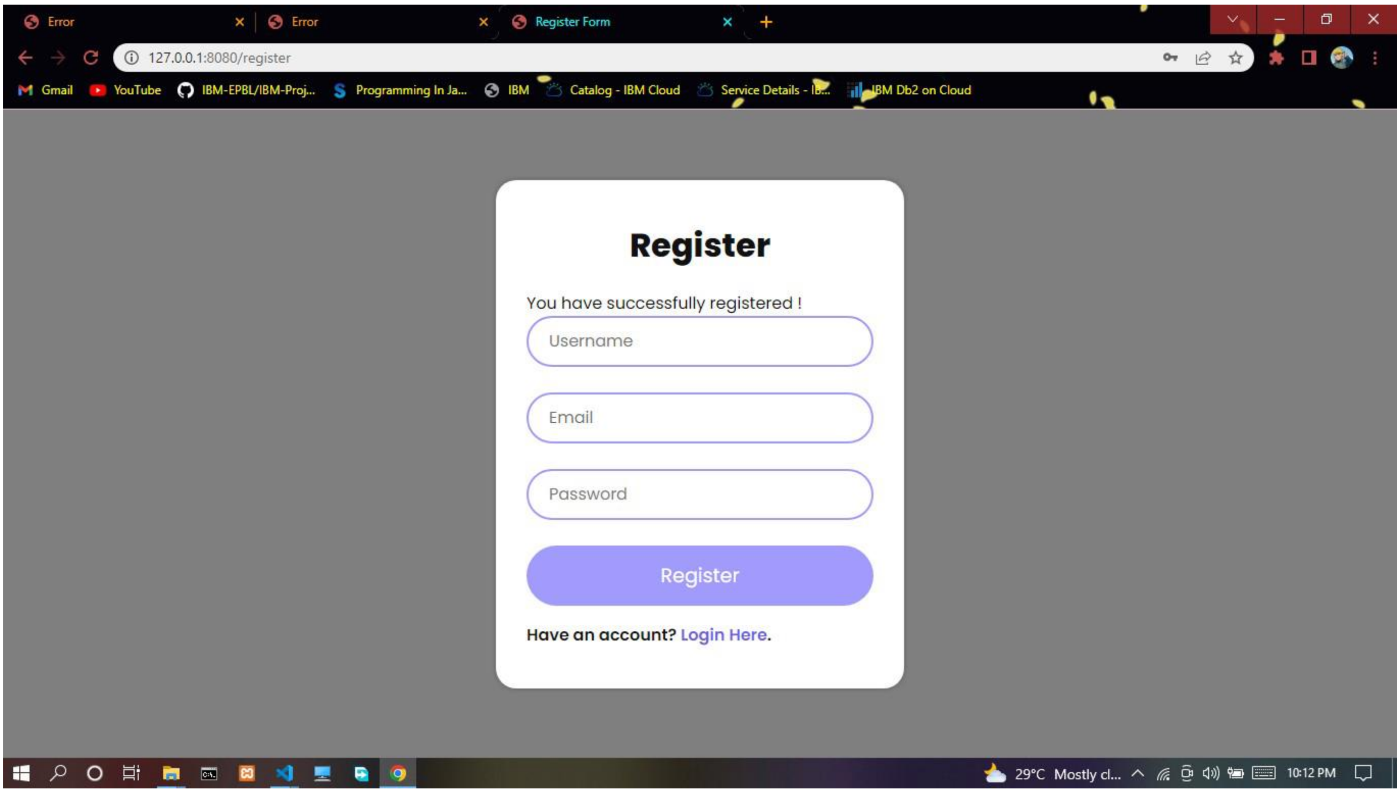
app.py:

```
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=824dfd4d-99de-440d-9991-
629c01b3832d.bs2io90l08kqb1od8lcg.databases.appdomain.cloud;PORT=30119;Security=S
SL;SSLServerCertificate=DigiCertGlobalRootCA.crt;UID=lbs14903;PWD=1N4walQ5ywwi
wP7c;",'','')
@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(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)
```

Output:



127.0.0.1:8080/register

Register

You have successfully registered !

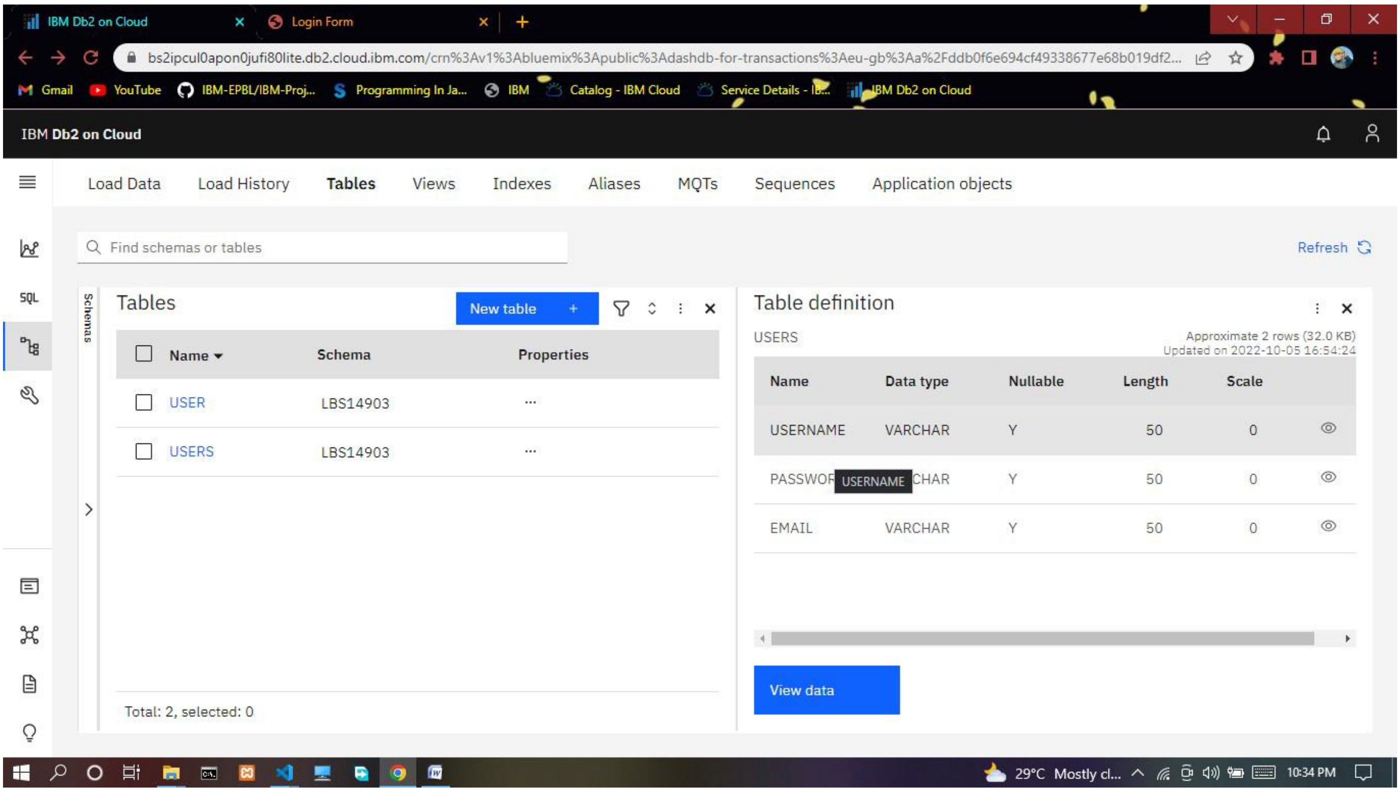
Username

Email

Password

Register

Have an account? Login Here.



Tables

□	Name ▾	Schema	Properties
□	USER	LBS14903	···
□	USERS	LBS14903	···

Total: 2, selected: 0

Table definition

USERS

Approximate 2 rows (32.0 KB)
Updated on 2022-10-05 16:54:24

Name	Data type	Nullable	Length	Scale
USERNAME	VARCHAR	Y	50	0
PASSWOR USERNAME	CHAR	Y	50	0
EMAIL	VARCHAR	Y	50	0