Assignment-2

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| **Assignment Date** | 13 October 2022 |
| **Student Name** | Keerthivasan R |
| **Student Roll Number** | 820419106024 |
| **Maximum Marks** | 2 Marks |

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](mailto:ashwinkumar@gmail.com)’,’ashwin17’,’4006’,’ashwin’)

1. Perform UPDATE,DELETE Queries with user table

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

1. 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 wP7c;",'','')

1. 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/font- awesome/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"> weight: 800;">Login</p>

<p class="login-text" style="font-size: 2rem; font-

<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">

class="btn">Login</button>

</div>

<div class="input-group">

<button name="submit"

</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/font- awesome/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">

name="password">

</div>

</div>

<div class="input-group">

<input type="password" placeholder="Password"

<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>

page...

<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

</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:





