## Assignment -2

Python Programming

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Question 1.

Create registration page in html with username, email and phone number and by using POST method display it in next html page.

Program:

## register.html

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Registration form</title>

</head>

<body>

<center>

<form action="{{ url\_for("register")}}" method="post"> Name : <input type="text" name="user"><br><br> Email id : <input type="text" name="email"><br><br>

Phone Number : <input type="text" name="phone"><br><br>

<input type="submit" value="Submit"><br>

</form>

</center>

</body>

</html>

## app.py:

from flask import Flask, request, render\_template app = Flask( name )

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

def register():

if request.method == "POST":

name = request.form.get("user") email = request.form.get("email") phone = request.form.get("phone")

return "Name is : " + name + ", Email is : " + email + ", Mobile Number is : "+ phone

return render\_template("register.html") if name ==' main ':

app.debug=True app.run()

Question 2.

Develop a flask program which should contain atleast 5 packages used from pypi.org

## base.html:

<!DOCTYPE html>

<html>

<head>

<title>Page Title</title>

{% block head %} {% endblock %}

<link href=["https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/css/bootstrap.min.css](https://cdn.jsdelivr.net/npm/bootstrap%405.2.1/dist/css/bootstrap.min.css)"

rel="stylesheet" integrity="sha384- iYQeCzEYFbKjA/T2uDLTpkwGzCiq6soy8tYaI1GyVh/UjpbCx/TYkiZhlZB6+fzT" crossorigin="anonymous">

<script src=["https://cdn.jsdelivr.net/npm/bootstrap@5.2.1/dist/js/bootstrap.bundle.min.js](https://cdn.jsdelivr.net/npm/bootstrap%405.2.1/dist/js/bootstrap.bundle.min.js) "

integrity="sha384- u1OknCvxWvY5kfmNBILK2hRnQC3Pr17a+RTT6rIHI7NnikvbZlHgTPOOmMi466C8" crossorigin="anonymous">

</script>

</head>

<body>

<a href="/">HOME</a>

<a href="/Blog">BLOG</a>

<a href="/Signin">SIGN IN</a>

<a href="/Signup">SIGN UP</a>

<hr><br>

<div class="container">

{% block body %} {% endblock %}

</div>

</body>

</html>

## blog.html:

{% extends 'base.html' %}

{% block head %}

<title>Blog Page</title>

{% endblock %}

{% block body %}

<h1>This is Jeffrey Blog</h1>

<h2><p>Hello, from Jeffrey</p></h2>

{% endblock %}

## index.html:

{% extends 'base.html' %}

{% block head %}

<title>Home Page</title>

{% endblock %}

{% block body %}

<h1>Hello everyone,</h1>

<div class="p-5 mb-4 bg-light rounded-3">

<div class="container-fluid py-5">

<h1 class="dispay-5 fw-bold">WIFI TECHNOLOGY<h1>

<p class="col-md-8 fs-4"> Wi-Fi is a wireless networking technology that allows

devices such as computers (laptops and desktops), mobile devices (smart phones

and wearables), and other equipment (printers and video cameras) to interface with

the Internet.

</p>

</div>

</div>

{% endblock %}

## signup.html:

{% extends 'base.html' %}

{% block head %}

<title>Signup Page</title>

{% endblock %}

{% block body %}

<h1>Signup Page</h1>

<form action="Signup" method="POST">

<label>Name</label><br>

<input type="text" name="name"><br><br>

<label>Email</label><br>

<input type="email" name="email"><br><br>

<label>Phone</label><br>

<input type="text" name="phone"><br><br>

<label>Password</label><br>

<input type="password" name="name"><br><br>

<label>Retype Password</label><br>

<input type="password" name="name"><br><br><br>

<input type="submit" class="btn btn-primary">

</form>

{% endblock %}

## signin.html:

{% extends 'base.html' %}

{% block head %}

<title>Signin Page</title>

{% endblock %}

{% block body %}

<h1>Signin Page</h1>

<form action="/Signin" method="POST">

<label>Email</label><br>

<input type="email" name="email"><br><br>

<label>password</label><br>

<input type="password" name="name"><br><br>

<input type="submit" class="btn btn-primary">

</form>

{% endblock %}

## app.py:

from flask import Flask, render\_template app = Flask( name )

@app.route('/', methods =["GET", "POST"]) def Index():

return render\_template('index.html') @app.route('/Blog')

def Blog():

return render\_template('blog.html') @app.route('/Signup')

def Signup():

return render\_template('signup.html') @app.route('/Signin')

def Signin():

return render\_template('signin.html') if name ==' main ':

app.debug = True app.run()

## Question-3:

1. Create a User table with Username, email, roll number, password
2. Perform UPDATE and DELETE queries
3. Connect python code to database
4. Create Flask app for a User registration and User login

## Solution:

**App.py**

from flask import Flask, render\_template, request, redirect

import sqlite3 as sql import models as dbHandler

app = Flask( name ) app.secret\_key = 'fasdgfdgdfg'

@app.route('/') def home():

return render\_template('home.html')

@app.route('/adduser') def new\_user():

return render\_template('add\_user.html')

@app.route('/addrec',methods = ['POST', 'GET']) def addrec():

if request.method == 'POST': try:

email = request.form['email'] un = request.form['username'] rn = request.form['rollnumber'] pin = request.form['pin']

with sql.connect("User\_database.db") as con: cur = con.cursor()

cur.execute("INSERT INTO users (email,username,rollnumber,pin) VALUES (?,?,?,?)",(email,un,rn,pin) )

con.commit()

msg = "Record successfully added!" except:

con.rollback()

msg = "error in insert operation"

finally:

return render\_template("list.html",msg = msg) con.close()

@app.route('/list') def list():

con = sql.connect("User\_database.db") con.row\_factory = sql.Row

cur = con.cursor() cur.execute("select \* from users")

users = cur.fetchall()

return render\_template("list.html", users = users)

if name == ' main ': app.run(debug = True)

@app.route("/delete") def delete():

return render\_template("delete.html")

@app.route('/deleterecord',methods = ["POST"]) def deleterecord():

un = request.form['username']

with sql.connect("User\_database.db") as con: try:

cur = con.cursor()

cur.execute("DELETE FROM users WHERE username = ?",[un]) con.commit()

msg = "Record successfully deleted" except:

msg = "can't be deleted" finally:

return render\_template("home1.html",msg = msg)

if name == ' main ': app.run(debug = True)

@app.route('/deldb', methods = ["POST"]) def deldb():

con = sql.connect('User\_database.db') cur = con.cursor() cur.execute('DELETE FROM users;') con.commit()

con.close()

msg = 'All the data has been deleted'

return render\_template("home1.html",msg = msg)

@app.route("/log") def log():

return render\_template("login.html")

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

un = request.form['username'] if request.method=='POST':

users = dbHandler.retrieveUsers() msg = 'Logged in successfully!'

return render\_template('welcome.html', users=un, msg=msg) else:

msg = 'You are not registered, would you like to be registered' return render\_template('home1.html', msg=msg)

if name == ' main ': app.run(debug=False, host='0.0.0.0')

# Models.py

**import sqlite3 as sql**

def retrieveUsers():

con = sql.connect("User\_database.db") cur = con.cursor()

cur.execute("SELECT username, pin FROM users") users = cur.fetchone()

con.close() return users

# sqlite\_db\_setup.py

**import sqlite3**

conn = sqlite3.connect('User\_database.db') print("Opened database successfully")

conn.execute('CREATE TABLE users (email TEXT, username TEXT, rollnumber INTEGER, pin INTEGER)')

print("Table created successfully") conn.close()

# Home.html

**<h1>Welcome to User DB APP</h1><br><br>**

<a href="/">HOME</a><br><br>

<a href="/adduser">User Registration</a><br><br>

<a href="/list">List User</a><br><br>

<a href="/log">Log in</a><br><br>

<a href="/delete">Remove a User</a>

# Add\_user.html

**<form action = "{{ url\_for('addrec') }}" method = "POST">**

<h3>User Information</h3> E-mail<br>

<input type = "email" name = "email" /></br>

Username<br>

<input type = "text" name = "username" /></br>

Rollnumber<br>

<input type = "text" name = "rollnumber" /><br>

PIN<br>

<input type = "password" name = "pin" min="4" max="8" /><br><br>

<input type = "submit" value = "submit" /><p> </p>

<input type = "reset"/>

</form>

# list.html

**<!doctype html>**

<html>

<body>

<a href="/">HOME</a><br><br>

<a href="/adduser">Add New Student</a><br><br>

<a href="/list">List Student</a><br><br>

<br><hr>

{{ msg }}

<table border = 1>

<thead>

<td> Email </td>

<td> Username </td>

<td> Roll Number </td>

<td> Pin </td>

</thead>

{% for row in users %}

<tr>

<td>{{row["email"]}}</td>

<td>{{row["username"]}}</td>

<td> {{ row["rollnumber"]}}</td>

<td>{{row['pin']}}</td>

</tr>

{% endfor %}

</table>

</body>

</html>

Output: