Experiment No. 5 Web X.0 Lab

Aim: Design using Flask1. A Contact Us Form2. A Portfolio Website

Contact Us Form Code:

forms.py

```
from flask_wtf import FlaskForm
from wtforms import StringField, BooleanField, TextAreaField, SubmitField

class ContactForm(FlaskForm):
    name = StringField("Name")
    email = StringField("Email")
    subject = StringField("Subject")
    message = TextAreaField("Message")
    submit = SubmitField("SUBMIT FORM")
```

main.py

```
from flask import Flask, render_template, request
from forms import ContactForm
import pandas as pd

app = Flask(__name__)
app.secret_key = "dev fao football app"

@app.route("/", methods=["GET", "POST"])
def get_contact():
    form = ContactForm()
    if request.method == "POST":
        name = request.form["name"]
        email = request.form["email"]
        subject = request.form["subject"]
```

contact.html

```
{% block content %}
<div class="contact">
  <h3>CONTACT US FORM</h3>
  <form action="{{ url_for('get_contact') }}" method="post">
   <div>
     >
       {{ form.name.label }} <br />
       {{ form.name(placeholder='Enter your Name') }}
     >
       {{ form.email.label }} <br />
       {{ form.email(placeholder='Enter your Email ID') }}
     >
       {{ form.subject.label }}<br />
       {{form.subject(placeholder='Enter the Subject')}}
     >
       {{ form.message.label }}<br />
       {{ form.message(placeholder='Enter your message') }}
     {{ form.submit }}
   </div>
  </form>
</div>
```

```
{% endblock %} {% block styles %}
link rel="stylesheet" href="{{url_for('.static', filename='styles.css')}}" />
{% endblock %}
```

Output:

CONTACT US FORM

Ninad Rao

ninadsrao@gmail.com

Hello World

Lorem Ipsum is simply a dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged. It was popularised in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages, and more recently with desktop publishing software like Aldus PageMaker including versions of Lorem Ipsum.

SUBMIT FORM

Portfolio Website Code:

index.html

```
<!DOCTYPE html>
<html lang="en-US">
    <head>
        <meta charset="UTF-8">
        <meta http-equiv="X-UA-Compatible" content="IE=edge">
        <meta name="viewport" content="width=device-width, initial-scale=1">
        </meta name="viewport" content="width=device-width, initial-scale=1">
</meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<title>Ninad Rao</title>
    <link rel="stylesheet"</pre>
href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.cs
s">
    <link href="https://fonts.googleapis.com/css?family=Montserrat:400,700,200"</pre>
rel="stylesheet">
   Ink
href="https://maxcdn.bootstrapcdn.com/font-awesome/latest/static/css/font-awesome.min.c
ss" rel="stylesheet">
    <link rel= "stylesheet" type= "text/css" href= "{{</pre>
url for('static',filename='css/aos.css') }}">
    <link rel= "stylesheet" type= "text/css" href= "{{</pre>
url for('static',filename='css/bootstrap.min.css') }}">
    <link rel= "stylesheet" type= "text/css" href= "{{</pre>
url_for('static',filename='css/main.css') }}">
    <noscript>
      <style type="text/css">
        [data-aos] {
           opacity: 1 !important;
           transform: translate(0) scale(1) !important;
      </style>
    </noscript>
  </head>
  <body id="top">
    <header>
      <div class="profile-page sidebar-collapse">
        <nav class="navbar navbar-expand-lg fixed-top navbar-transparent bg-primary"</pre>
color-on-scroll="400">
          <div class="container">
              <button class="navbar-toggler navbar-toggler" type="button"</pre>
data-toggle="collapse" data-target="#navigation" aria-controls="navigation"
aria-expanded="false" aria-label="Toggle navigation"><span class="navbar-toggler-bar</pre>
bar1"></span><span class="navbar-toggler-bar bar2"></span><span
class="navbar-toggler-bar bar3"></span></button>
           </div>
            <div class="collapse navbar-collapse justify-content-end" id="navigation">
              <a class="nav-link smooth-scroll"</pre>
href="#about">About</a>
                <a class="nav-link smooth-scroll"</pre>
```

```
href="#skill">Skills</a>
               <a class="nav-link smooth-scroll"</pre>
href="#experience">Experience</a>
               <a class="nav-link smooth-scroll"</pre>
href="#contact">Contact</a>
             </div>
         </div>
       </nav>
      </div>
    </header>
    <div class="page-content">
      <div>
<div class="profile-page">
  <div class="wrapper">
    <div class="page-header page-header-small" filter-color="green">
      <div class="page-header-image" data-parallax="true" style="background-image:</pre>
url('static/images/cc-bg-1.jpg')"></div>
      <div class="container">
        <div class="content-center">
          <div class="cc-profile-image"><a href="#"><img</pre>
src="static/images/profile_ninad.jpg" alt="Image"/></a></div>
         <div class="h2 title">Ninad Rao</div>
         Web Developer<a class="btn btn-primary">class="btn btn-primary
smooth-scroll mr-2" href="#contact" data-aos="zoom-in"
data-aos-anchor="data-aos-anchor">Hire Me</a><a class="btn btn-primary" target=" blank"</pre>
href="{{ url for('static',filename='Ninad Rao.pdf') }}" data-aos="zoom-in"
data-aos-anchor="data-aos-anchor">Download CV</a>
       </div>
     </div>
      <div class="section">
       <div class="container">
         <div class="button-container"><a class="btn btn-default btn-round btn-lg</pre>
btn-icon" target="_blank" href="https://twitter.com/nindiya_0707" rel="tooltip"
title="Follow me on Twitter"><i class="fa fa-twitter"></i></a><a class="btn btn-default
btn-round btn-lg btn-icon" target="_blank" href="https://github.com/NinadRao0707"
rel="tooltip" title="Follow me on Github"><i class="fa fa-github"></i></a><a class="btn"
btn-default btn-round btn-lg btn-icon" target="_blank"
href="https://www.linkedin.com/in/ninad-rao-04765b28/" rel="tooltip" title="Follow me
on LinkedIn"><i class="fa fa-linkedin"></i></div>
       </div>
      </div>
   </div>
```

```
</div>
</div>
<div class="section" id="about">
  <div class="container">
    <div class="card" data-aos="fade-up" data-aos-offset="10">
      <div class="row">
        <div class="col-lg-6 col-md-12">
          <div class="card-body">
            <div class="h4 mt-0 title">About</div>
            XI'm Ninad Rao, a senior student at VESIT Chembur. Seeking a role to
enhance my technical knowledge. Eager to join an organization where I can utilize my
knowledge and apply my leadership experience and abilities in order to achieve
goals.
            </div>
        </div>
        <div class="col-lg-6 col-md-12">
          <div class="card-body">
            <div class="h4 mt-0 title">Basic Information</div>
            <div class="row">
              <div class="col-sm-4"><strong class="text-uppercase">Age:</strong></div>
              <div class="col-sm-8">20</div>
            </div>
            <div class="row mt-3">
              <div class="col-sm-4"><strong</pre>
class="text-uppercase">Email:</strong></div>
              <div class="col-sm-8">2019ninad.rao@ves.ac.in</div>
            </div>
            <div class="row mt-3">
              <div class="col-sm-4"><strong</pre>
class="text-uppercase">Phone:</strong></div>
              <div class="col-sm-8">+91 8356852631</div>
            </div>
            <div class="row mt-3">
              <div class="col-sm-4"><strong</pre>
class="text-uppercase">Address:</strong></div>
              <div class="col-sm-8">Ghansoli, Navi Mumbai, Maharashtra, India</div>
            </div>
            <div class="row mt-3">
              <div class="col-sm-4"><strong</pre>
class="text-uppercase">Language:</strong></div>
              <div class="col-sm-8">English, Hindi</div>
            </div>
          </div>
```

```
</div>
               </div>
          </div>
     </div>
</div>
<div class="section" id="skill">
     <div class="container">
          <div class="h4 text-center mb-4 title">Professional Skills</div>
          <div class="card" data-aos="fade-up" data-aos-anchor-placement="top-bottom">
               <div class="card-body">
                    <b>Programming Languages:
Python, Java, SQL, JavaScript<br><br>
                    <br/>
Tools:</b> Scikit-Learn, NumPy, Pandas, Matplotlib, MS Excel<br/>
br><br>
                    <br/>
<b>Database Management Systems:</b> MySQL, Firebase<br/>
br><br/>
<br/>
<br/>
<br/>
Aproximation of the companies of th
                    <b>Internet Technologies: Flask, HTML5, CSS, NextJS, ReactJS
               </div>
          </div>
     </div>
</div>
<div class="section" id="experience">
     <div class="container cc-experience">
          <div class="h4 text-center mb-4 title">Work Experience</div>
          <div class="card">
               <div class="row">
                    <div class="col-md-3 bg-primary" data-aos="fade-right" data-aos-offset="50"</pre>
data-aos-duration="500">
                         <div class="card-body cc-experience-header">
                               >13th November, 2021 - Present
                               <div class="h5">OuestIT Cell</div>
                         </div>
                    </div>
                    <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"</pre>
data-aos-duration="500">
                         <div class="card-body">
                               <div class="h5">Deputy Secretary</div>
                                    Being a Deputy Secretary helped me to engage and coordinate amongst the
council members. I have ensured that the meetings are effectively organized and
minuted.
                              </div>
                    </div>
               </div>
```

```
</div>
    <div class="card">
      <div class="row">
        <div class="col-md-3 bg-primary" data-aos="fade-right" data-aos-offset="50"</pre>
data-aos-duration="500">
          <div class="card-body cc-experience-header">
            15th June, 2021 - 30th July, 2021
            <div class="h5">Ganit Lab</div>
          </div>
        </div>
        <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"</pre>
data-aos-duration="500">
          <div class="card-body">
            <div class="h5">Python Developer Intern</div>
              Worked on database generation and implementing new ways of generating
questions. Currently, working on making a webpage where students can attempt math
exams.
            </div>
        </div>
      </div>
    </div>
    <div class="card">
      <div class="row">
        <div class="col-md-3 bg-primary" data-aos="fade-right" data-aos-offset="50"</pre>
data-aos-duration="500">
          <div class="card-body cc-experience-header">
            29th August, 2020 - 28th August, 2021
            <div class="h5">VESIT</div>
          </div>
        </div>
        <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"</pre>
data-aos-duration="500">
          <div class="card-body">
            <div class="h5">Class Representative</div>
            >
              I have taken my time to become an effective class representative. I
always address and take student s opinions to the teachers and student council.
            </div>
        </div>
      </div>
```

```
</div>
 </div>
</div>
<div class="section">
  <div class="container cc-education">
    <div class="h4 text-center mb-4 title">Education</div>
    <div class="card">
     <div class="row">
       <div class="col-md-3 bg-primary" data-aos="fade-right" data-aos-offset="50"</pre>
data-aos-duration="500">
         <div class="card-body cc-education-header">
           2019 - 2023
           <div class="h5">Bachelor's Degree</div>
         </div>
       </div>
       <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"</pre>
data-aos-duration="500">
         <div class="card-body">
           <div class="h5">B.E. in Information Technology</div>
           Vivekanand Education Society's Institute Of Technology
(VESIT)
         </div>
       </div>
     </div>
   </div>
    <div class="card">
     <div class="row">
       <div class="col-md-3 bg-primary" data-aos="fade-right" data-aos-offset="50"</pre>
data-aos-duration="500">
         <div class="card-body cc-education-header">
           >2017 - 2019
           <div class="h5">11th/12th Degree</div>
         </div>
       <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"</pre>
data-aos-duration="500">
         <div class="card-body">
           <div class="h5">Math and Science</div>
           Fr. Agnels Multipurpose School and Jr. College
         </div>
       </div>
     </div>
```

```
</div>
  </div>
</div>
<div class="section" id="contact">
  <div class="cc-contact-information" style="background-image:</pre>
url('static/images/map.JPG')">
    <div class="container">
      <div class="cc-contact">
        <div class="row">
          <div class="col-md-9">
            <div class="card mb-0" data-aos="zoom-in">
              <div class="h4 text-center title">Contact Me</div>
              <div class="row">
                <div class="col-md-6">
                  <div class="card-body">
                     <form action="/sendemail/" method="POST">
                       <div class="p pb-3"><strong>Feel free to contact me
</strong></div>
                       <div class="row mb-3">
                         <div class="col">
                           <div class="input-group"><span class="input-group-addon"><i</pre>
class="fa fa-user-circle"></i></span>
                             <input class="form-control" type="text" name="name"</pre>
placeholder="Name" required="required"/>
                           </div>
                         </div>
                       </div>
                       <div class="row mb-3">
                         <div class="col">
                           <div class="input-group"><span class="input-group-addon"><i</pre>
class="fa fa-file-text"></i></span>
                             <input class="form-control" type="text" name="Subject"</pre>
placeholder="Subject" required="required"/>
                           </div>
                         </div>
                       </div>
                       <div class="row mb-3">
                         <div class="col">
                           <div class="input-group"><span class="input-group-addon"><i</pre>
class="fa fa-envelope"></i></span>
                             <input class="form-control" type="email" name="_replyto"</pre>
```

```
placeholder="E-mail" required="required"/>
                       </div>
                     </div>
                   </div>
                   <div class="row mb-3">
                     <div class="col">
                       <div class="form-group">
                        <textarea class="form-control" name="message"</pre>
placeholder="Your Message" required="required"></textarea>
                       </div>
                     </div>
                   </div>
                   <div class="row">
                     <div class="col">
                         <button class="btn btn-primary" type="submit">Send</button>
                     </div>
                   </div>
                 </form>
                </div>
              </div>
              <div class="col-md-6">
                <div class="card-body">
                 <strong>Address </strong>
                 A-102, Ayodhya Society, Plot No. 10, Sector 5,
Ghansoli
                 <strong>Phone</strong>
                 +91 8356852631
                 <strong>Email</strong>
                 >2019ninad.rao@ves.ac.in
               </div>
              </div>
            </div>
          </div>
        </div>
      </div>
     </div>
   </div>
 </div>
</div></div>
   </div>
```

```
<footer class="footer">
      <div class="container text-center"><a class="cc-twitter btn btn-link"</pre>
target=" blank" href="https://twitter.com/KallaAyush"><i class="fa fa-twitter fa-2x "</pre>
aria-hidden="true"></i></a><a class="cc-google-plus btn btn-link" target=" blank"</pre>
href="https://github.com/akalla123"><i class="fa fa-github fa-2x"</pre>
aria-hidden="true"></i></a><a class="cc-instagram btn btn-link" target="_blank"</pre>
href="https://www.linkedin.com/in/ayushkalla/"><i class="fa fa-linkedin fa-2x"</pre>
aria-hidden="true"></i></a></div>
      <div class="h4 title text-center">Ninad Rao</div>
    </footer>
    <script src="{{ url for('static',filename='js/core/jquery.3.2.1.min.js')</pre>
}}"></script>
    <script src="{{ url_for('static',filename='js/core/popper.min.js') }}"></script>
    <script src="{{ url for('static',filename='js/core/bootstrap.min.js') }}"></script>
    <script src="{{ url_for('static',filename='js/now-ui-kit.js') }}"></script>
    <script src="{{ url_for('static',filename='js/aos.js') }}"></script>
    <script src="{{ url for('static',filename='scripts/main.js') }}"></script>
  </body>
</html>
```

flask_app.py

```
from flask import Flask, render_template, request, url_for, redirect
from email.mime.text import MIMEText
import smtplib
from email.message import EmailMessage

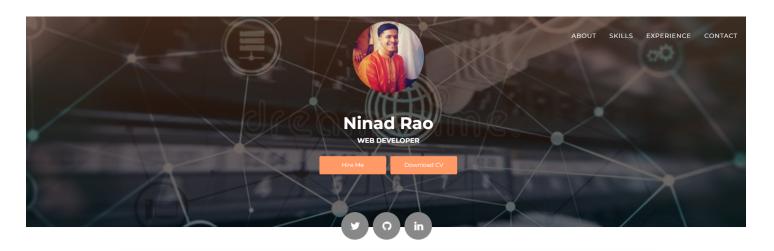
app = Flask(__name__)

@app.route("/")
def index():
    return render_template("index.html")

@app.route("/sendemail/", methods=["POST"])
def sendemail():
    if request.method == "POST":
        name = request.form["name"]
        subject = request.form["Subject"]
        email = request.form["_replyto"]
```

```
message = request.form["message"]
       your_name = "Ninad Rao"
       your email = "enter your email"
       your_password = "enter_your_password"
        server = smtplib.SMTP("smtp.gmail.com", 587)
        server.ehlo()
        server.starttls()
        server.login(your_email, your_password)
        sender_email = "enter_your_email"
        receiver_email = "enter_your_email"
        msg = EmailMessage()
        msg.set_content(
           "First Name : "
           + str(name)
           + "\nEmail : "
           + str(email)
           + "\nSubject : "
           + str(subject)
           + "\nMessage : "
           + str(message)
        msg["Subject"] = "New Response on Personal Website"
        msg["From"] = sender_email
       msg["To"] = receiver_email
       try:
            server.send_message(msg)
        except:
            pass
    return redirect("/")
if __name__ == "__main__":
    app.run(debug=True)
```

Output:



About

I'm Ninad Rao, a senior student at VESIT Chembur. Seeking a role to enhance my technical knowledge. Eager to join an organization where I can utilize my knowledge and apply my leadership experience and abilities in order to achieve goals.

Basic Information

AGE:

EMAIL: 2019ninad.rao@ves.ac.in

PHONE: +91 8356852631

ADDRESS: Ghansoli, Navi Mumbai, Maharashtra, India

LANGUAGE: English, Hindi

ABOUT SKILLS EXPERIENCE CONTACT

Work Experience

TH NOVEMBER, 2021 -PRESENT

QUESTIT CELL

Deputy Secretary

Being a Deputy Secretary helped me to engage and coordinate amongst the council members. I have ensured that the meetings are effectively organized and minuted.

5TH JUNE, 2021 - 30TH JULY, 2021

Python Developer Intern

Worked on database generation and implementing new ways of generating questions. Currently, working on making a webpage where students can attempt math exams.

29TH AUGUST, 2020 - 28TH

VESIT

Class Representative

I have taken my time to become an effective class representative. I always address and take students opinions to the teachers and student council.

