

Experiment No. 5

Web X.0 Lab

Aim: Design using Flask

1. A Contact Us Form
2. 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"]
```

```
message = request.form["message"]
res = pd.DataFrame(
    {"name": name, "email": email, "subject": subject, "message": message},
    index=[0],
)
res.to_csv("./contactusMessage.csv")
return render_template("contact.html", form=form)
else:
    return render_template("contact.html", form=form)

if __name__ == "__main__":
    app.run(debug=True)
```

contact.html

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

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

Output:

CONTACT US FORM

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.

Contact Us Form >  contactusMessage.csv

```
1 ,name,email,subject,message
2 0,Ninad Rao,ninadsrao@gmail.com,Hello World,Lorem Ipsum is simply a dummy text of the printing and typesetting industry. Lorem Ipsum has been
3
```

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">
```

```
<title>Ninad Rao</title>
<link rel="stylesheet"
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"
rel="stylesheet">
<link
href="https://maxcdn.bootstrapcdn.com/font-awesome/latest/static/css/font-awesome.min.c
ss" rel="stylesheet">
<link rel= "stylesheet" type= "text/css" href= "{{
url_for('static',filename='css/aos.css') }}">
<link rel= "stylesheet" type= "text/css" href= "{{
url_for('static',filename='css/bootstrap.min.css') }}">
<link rel= "stylesheet" type= "text/css" href= "{{
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"
color-on-scroll="400">
        <div class="container">

            <button class="navbar-toggler navbar-toggler" type="button"
data-toggle="collapse" data-target="#navigation" aria-controls="navigation"
aria-expanded="false" aria-label="Toggle navigation"><span class="navbar-toggler-bar
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">
            <ul class="navbar-nav">
                <li class="nav-item"><a class="nav-link smooth-scroll"
href="#about">About</a></li>
                <li class="nav-item"><a class="nav-link smooth-scroll"
```

```

href="#skill">Skills</a></li>
    <li class="nav-item"><a class="nav-link smooth-scroll"
href="#experience">Experience</a></li>
    <li class="nav-item"><a class="nav-link smooth-scroll"
href="#contact">Contact</a></li>
  </ul>
</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:
url('static/images/cc-bg-1.jpg')"></div>
      <div class="container">
        <div class="content-center">
          <div class="cc-profile-image"><a href="#"></a></div>
          <div class="h2 title">Ninad Rao</div>
          <p class="category text-white">Web Developer</p><a 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"
href="{ { url_for('static',filename='Ninad Rao.pdf') } }" data-aos="zoom-in"
data-aos-anchor="data-aos-anchor">Download CV</a>
        </div>
      </div>
    </div>
    <div class="section">
      <div class="container">
        <div class="button-container"><a class="btn btn-default btn-round btn-lg
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></a></div>
      </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>
            <p>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.</p>
          </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
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
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
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
class="text-uppercase">Language:</strong></div>
              <div class="col-sm-8">English, Hindi</div>
            </div>
          </div>
        </div>
      </div>
    </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:</b> Python, Java, SQL, JavaScript<br><br>
                <b>Tools:</b> Scikit-Learn, NumPy, Pandas, Matplotlib, MS Excel<br><br>
                <b>Database Management Systems:</b> MySQL, Firebase<br><br>
                <b>Internet Technologies:</b> Flask, HTML5, CSS, NextJS, ReactJS
            </div>
        </div>
    </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"
data-aos-duration="500">
                    <div class="card-body cc-experience-header">
                        <p>13th November, 2021 - Present</p>
                        <div class="h5">QuestIT Cell</div>
                    </div>
                </div>
                <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"
data-aos-duration="500">
                    <div class="card-body">
                        <div class="h5">Deputy Secretary</div>
                        <p>
                            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.
                        </p>
                    </div>
                </div>
            </div>
        </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"
data-aos-duration="500">
      <div class="card-body cc-experience-header">
        <p>15th June, 2021 - 30th July, 2021</p>
        <div class="h5">Ganit Lab</div>
      </div>
    </div>
    <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"
data-aos-duration="500">
      <div class="card-body">
        <div class="h5">Python Developer Intern</div>
        <p>
          Worked on database generation and implementing new ways of generating
          questions. Currently, working on making a webpage where students can attempt math
          exams.
        </p>
      </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"
data-aos-duration="500">
      <div class="card-body cc-experience-header">
        <p>29th August, 2020 - 28th August, 2021</p>
        <div class="h5">VESIT</div>
      </div>
    </div>
    <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"
data-aos-duration="500">
      <div class="card-body">
        <div class="h5">Class Representative</div>
        <p>
          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.
        </p>
      </div>
    </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"
data-aos-duration="500">
          <div class="card-body cc-education-header">
            <p>2019 - 2023</p>
            <div class="h5">Bachelor's Degree</div>
          </div>
        </div>
        <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"
data-aos-duration="500">
          <div class="card-body">
            <div class="h5">B.E. in Information Technology</div>
            <p class="category">Vivekanand Education Society's Institute Of Technology
(VESIT)</p>
          </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"
data-aos-duration="500">
          <div class="card-body cc-education-header">
            <p>2017 - 2019</p>
            <div class="h5">11th/12th Degree</div>
          </div>
        </div>
        <div class="col-md-9" data-aos="fade-left" data-aos-offset="50"
data-aos-duration="500">
          <div class="card-body">
            <div class="h5">Math and Science</div>
            <p class="category">Fr. Agnells Multipurpose School and Jr. College</p>
          </div>
        </div>
      </div>
    </div>
  </div>
</div>
```

```

    </div>
  </div>
</div>

<div class="section" id="contact">
  <div class="cc-contact-information" style="background-image:
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
class="fa fa-user-circle"></i></span>
                            <input class="form-control" type="text" name="name"
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
class="fa fa-file-text"></i></span>
                            <input class="form-control" type="text" name="Subject"
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
class="fa fa-envelope"></i></span>
                            <input class="form-control" type="email" name="_replyto"

```

[illegible]

```

<footer class="footer">
  <div class="container text-center"><a class="cc-twitter btn btn-link "
target="_blank" href="https://twitter.com/KallaAyush"><i class="fa fa-twitter fa-2x "
aria-hidden="true"></i></a><a class="cc-google-plus btn btn-link" target="_blank"
href="https://github.com/akalla123"><i class="fa fa-github fa-2x"
aria-hidden="true"></i></a><a class="cc-instagram btn btn-link" target="_blank"
href="https://www.linkedin.com/in/ayushkalla/"><i class="fa fa-linkedin fa-2x "
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')
}"}"></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"]

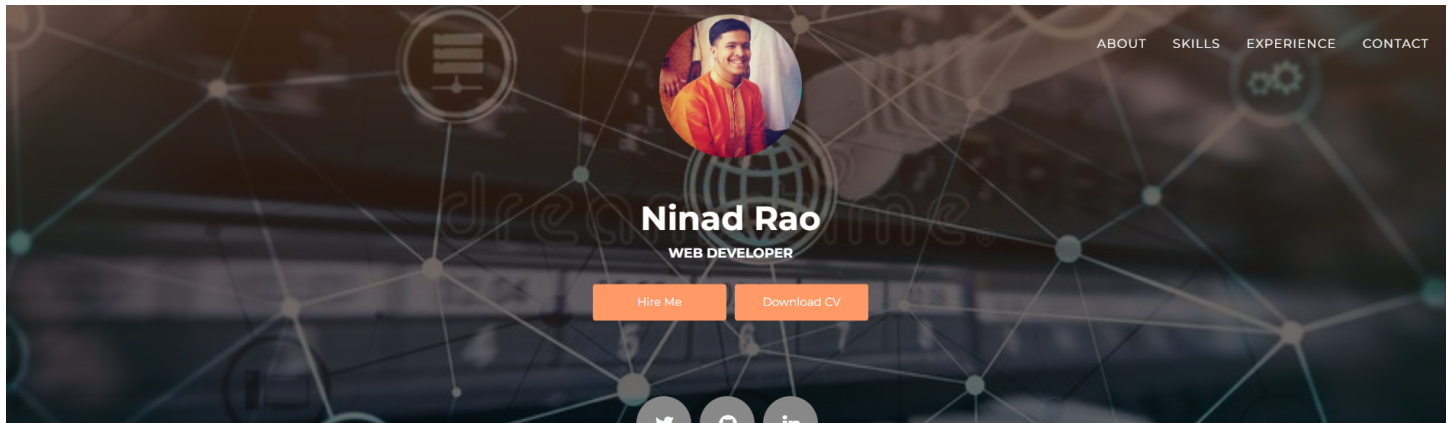
your_name = "Ninad Rao"
your_email = "enter_your_email"
your_password = "enter_your_password"

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:	20
EMAIL:	2019ninad.rao@ves.ac.in
PHONE:	+91 8356852631
ADDRESS:	Ghansoli, Navi Mumbai, Maharashtra, India
LANGUAGE:	English, Hindi

[ABOUT](#) [SKILLS](#) [EXPERIENCE](#) [CONTACT](#)**Work Experience**

13TH 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.

15TH JUNE, 2021 - 30TH JULY, 2021

GANIT LAB

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.

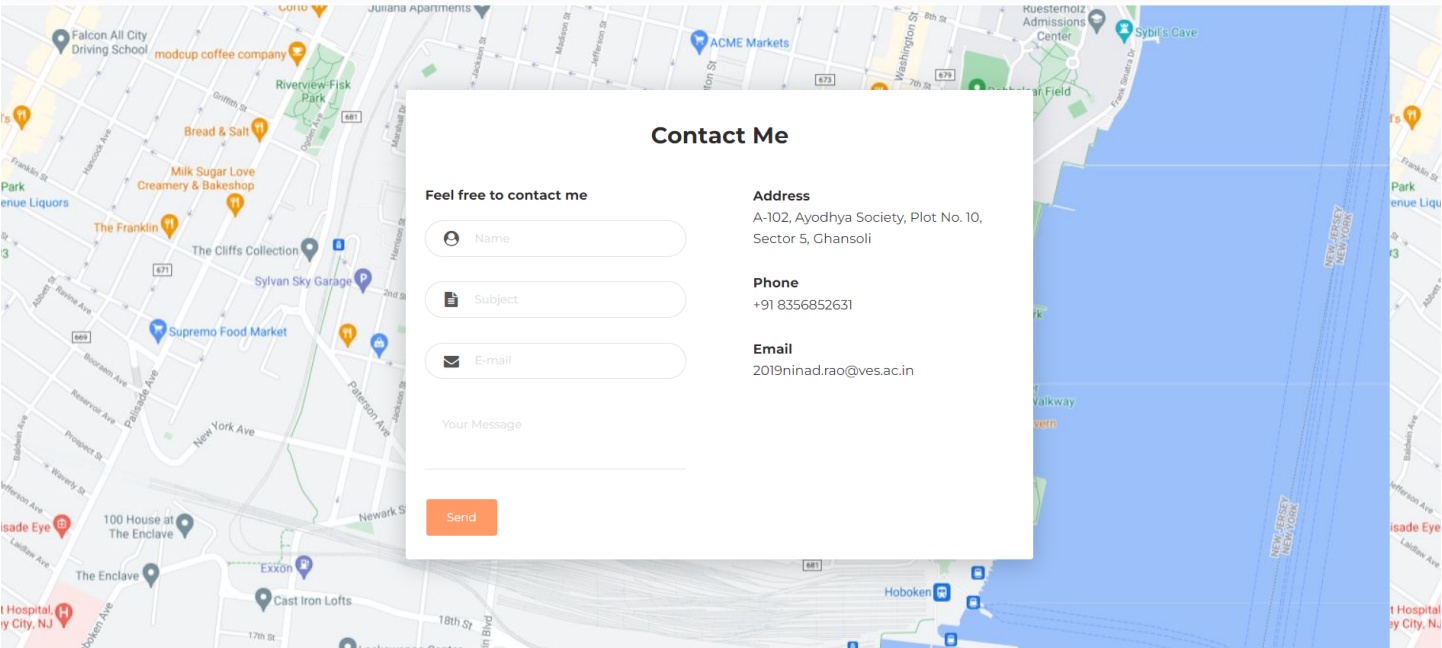
29TH AUGUST, 2020 - 28TH
AUGUST, 2021

VESIT

Class Representative


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.


ABOUT SKILLS EXPERIENCE CONTACT




Contact Me

Feel free to contact me

 Name

 Subject

 E-mail

Your Message

Send

Address
A-102, Ayodhya Society, Plot No. 10,
Sector 5, Ghansoli

Phone
+91 8356852631

Email
2019ninad.rao@ves.ac.in