

Assignment -1
Python Programming

Assignment Date	19 September 2022
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Student Roll Number	311519205030
Maximum Marks	2 Marks

Question-1:

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

register.html

```
<html>

<head>

    <title>Registration page</title>

    <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">

</head>

<body>

    <div class="center"> <br /><br />

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

        <h1>Register</h1> <br /><br />

        <p> Enter username:</p>

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

        <p> Enter email:</p>

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

        <p> Enter Phone number:</p>

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

        </br></br></br>

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

    </form>

    </div>

</body>
```

```
</html>
```

register.css

```
.center{  
margin: auto;  
width: 10%;  
}  
h1{  
text-align:center;  
}  
input{  
border-radius:5px;  
padding:7px;  
}
```

home.html

```
<html>  
<head>  
  <title>Home</title>  
</head>  
<body style="text-align:center">  
  <h2>Welcome {{username}} </h2><br/><br/>  
  <b>Username</b> - {{username}}<br/><br/>  
  <b>Email Address</b> - {{email}}<br/><br/>  
  <b>Phone number</b> - {{phone}}<br/><br/>  
</body>  
</html>
```

Register.py

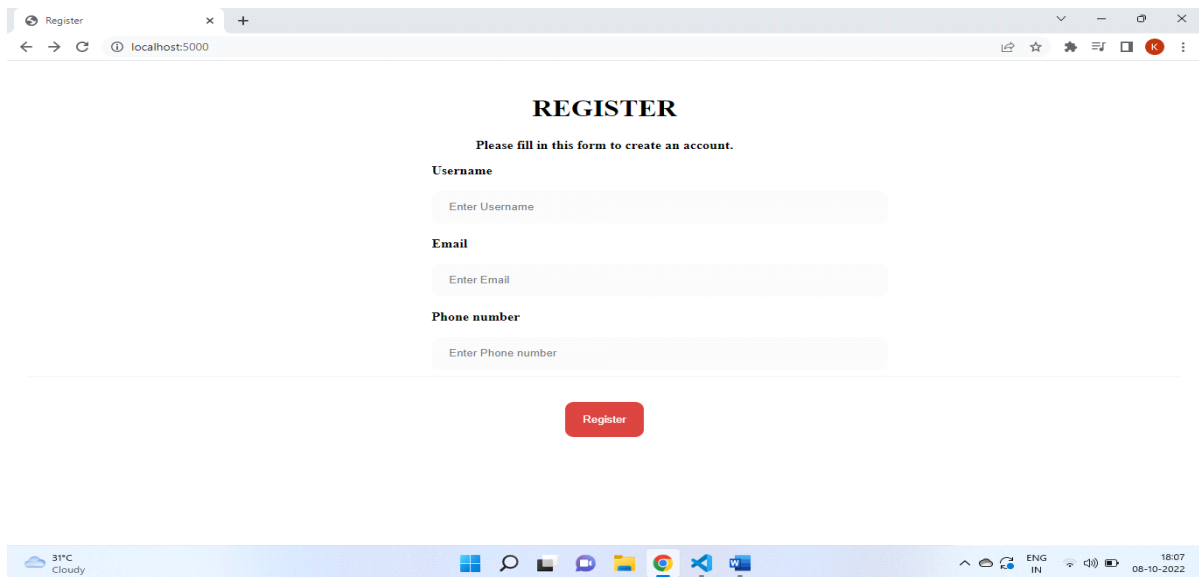
```
from flask import Flask,render_template,request  
app=Flask(__name__)
```

```
@app.route("/")
def home():
    return render_template("register.html")

@app.route("/register",methods=["POST","GET"])
def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phone=request.form.get('phone')
        return render_template("home.html",username=username,email=email,phone=phone)

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

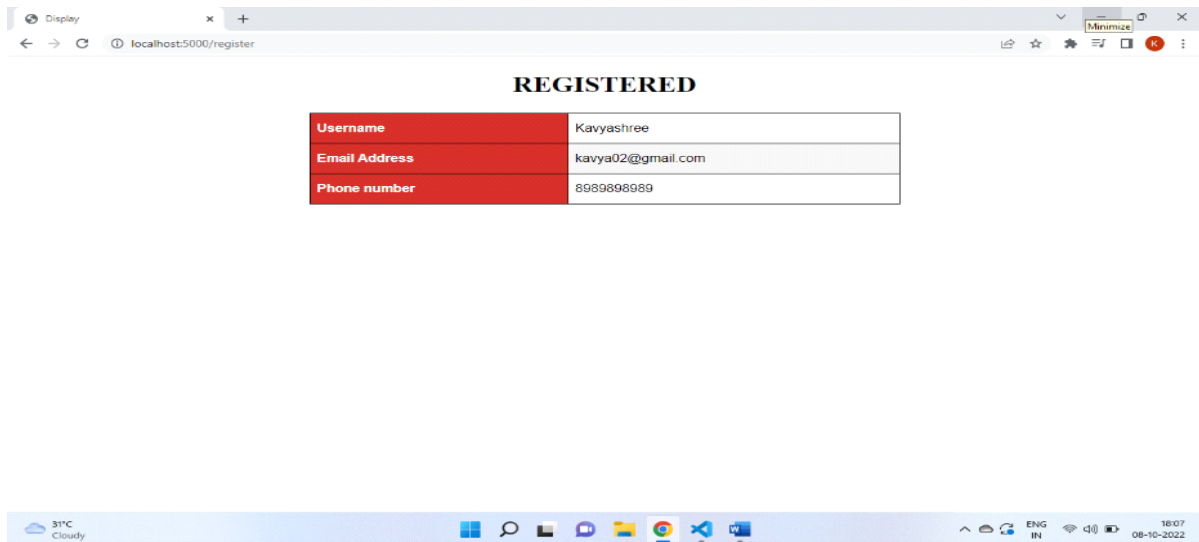
Output:



The screenshot shows a web browser window with the title 'Register' and the address bar displaying 'localhost:5000'. The page content is a registration form with the following elements:

- REGISTER** (Section Header)
- Please fill in this form to create an account.** (Instructional text)
- Username** (Label) with a text input field containing the placeholder 'Enter Username'.
- Email** (Label) with a text input field containing the placeholder 'Enter Email'.
- Phone number** (Label) with a text input field containing the placeholder 'Enter Phone number'.
- Register** (Red button)

The Windows taskbar at the bottom shows the system clock as 18:07 on 08-10-2022, with a temperature of 31°C and a cloudy weather condition.



Question-2:

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

Packages used:

- render_template
- url_for
- redirect
- request
- abort

Program :

python_packages.py

```
from flask import Flask,render_template,request,redirect,url_for,abort
```

```
app=Flask(__name__)
```

```
@app.route("/")
```

```
def home():
```

```
    return render_template("register.html")
```

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

```

def register():
    if request.method=="POST":
        username=request.form.get('username')
        email=request.form.get('email')
        phone=request.form.get('phone')
        if username=="admin":
            return redirect(url_for("admin_page"))
        return render_template("home.html",username=username,email=email,phone=phone)

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

@app.route("/validate",methods=["POST","GET"])
def validate_admin():
    if request.method=="POST":
        password=request.form.get('password')
        if(password=="abcd"):
            return render_template("admindashboard.html")
        else:
            abort(403)

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

```

register.html

```

<html>

<head>
    <title>Registration page</title>

```

```
<link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">
</head>
<body>
    <div class="center"> <br /><br />
    <form action="/register" method="POST">
        <h1>Register</h1> <br /><br />
        <p> Enter username:</p>
        <input type="text" name="username" />
        <p> Enter email:</p>
        <input type="email" name="email"/>
        <p> Enter Phone number:</p>
        <input type="text" name="phone"/>
        </br></br></br>
        <input type="submit" value="submit" />

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

home.html

```
<!DOCTYPE html>
<html>
<head>
    <title>Home</title>
</head>
<body style="text-align:center">
    <h2>Welcome {{username}} </h2><br/><br/>
    <b>Username</b> - {{username}}<br/><br/>
    <b>Email Address</b> - {{email}}<br/><br/>
```

```
        <b>Phone number</b> - {{phone}}<br/><br/>
    </body>
</html>
```

admin.html

```
<html>

    <head>

        <title>Admin Login</title>

        <link rel="stylesheet" href="{{url_for('static', filename='register.css')}}">

    </head>

    <body>

        <div class="center"> <br /><br />

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

            <h2 style="text-align:center">Admin login</h2> <br /><br />

            <p> Enter password:</p>

            <input type="text" name="password"/>

            <br><br><br>

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

        </form>

        </div>

    </body>
</html>
```

admindashboard.html

```
<html>

<head>

    <title>Admin</title>

</head>

<body>

    <h2 style="text-align:center">Welcome Administartor </h2><br/><br/>
```

<p>Who is an administrator?</p></br>

<p>Web administrators design, develop, maintain and troubleshoot websites. Most importantly, they ensure a safe and efficient user experience. This may include implementing security protocols, modifying programs, creating backups, resolving software problems, updating content and more. They may work with many clients or for one organization to design, program and monitor websites. Specific responsibilities include:</p>

Coding websites – the most popular languages include HTML and JavaScript

Collaborating with development teams to program websites

Setting up tools to monitor website traffic

Analyzing website traffic to inform design decisions

</body>

</html>

Output:

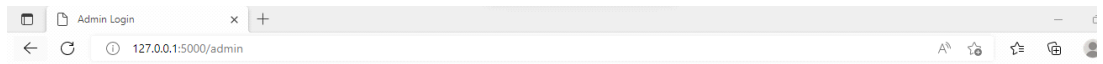


Register

Enter username:

Enter email:

Enter Phone number:



Admin login

Enter password:



Welcome Administartor

Hi administrator

