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Assignment - 1
Using HTML and Flask Packages

1.   Create a registration page in html with username, email and phone number and by using POST method display it in the next html page.
   -    We have used **Flask** server to accept the post request from the client and display it in the next html page
2.   Develop a flask program which should contain atleast 5 packages used from pypi.org.
   -    Packages used here: **wikipedia, quoters, randimage, phoneumbers, email-validator**
      ● wikipedia - makes it easy to access and parse data from Wikipedia
      ● quoters - gives beautiful quotes randomly
      ● randimage - create random images in python
      ● phonenumbers - validates the phonenumber
      ● email-validator - checks that an email address has the correct syntax

Code:

app.py

```python
from flask import Flask, render_template, request, redirect, url_for, session
from randimage import get_random_image, show_array
import matplotlib
from email_validator import validate_email, EmailNotValidError
import phonenumbers
import wikipedia
from quoters import Quote


app = Flask(__name__)
```

```python
app.secret_key = 'IBM'


@app.route('/')
@app.route('/register', methods =['GET', 'POST'])
def register():
    msg = ''
    if(request.method=='GET'):
        img_size = (128,128)
        img = get_random_image(img_size)  #returns numpy array
        matplotlib.image.imsave("static//profile.png", img)
        text=Quote.print()
        return render_template('register.html',quote=text)

    if request.method == 'POST' and 'username' in request.form  and 'email'
in request.form and 'phone' in request.form :
        msg={}
        username = request.form['username']
        email = request.form['email']
        phone = request.form['phone']
        msg['username']=username
        msg['email']=email
        msg['phone']=phone
        desc=wikipedia.summary(username,sentences=4)
        is_new_account = True # False for login pages
        try:
            z = phonenumbers.parse(phone, None)
        except:
            return render_template('register.html', msg = "Phone number not
valid")
        try:
            validation = validate_email(email,
check_deliverability=is_new_account)
            email = validation.email
        except EmailNotValidError as e:
            return render_template('register.html', msg = "Email id not
valid")

        return render_template('login.html', msg = msg,desc=desc)

    elif request.method == 'POST':
```

```
        msg = 'Please fill out the form !'
        return render_template('register.html', msg = msg)



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

register.html

```html
<!-- Store this code in 'register.html' file inside the 'templates' folder
-->

<html>
    <head>
        <meta charset="UTF-8">
        <title> Register </title>
        <link rel="stylesheet" href="{{ url_for('static',
filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
        <div align="center" class="border">
            <div class="header">
                <h1 class="word">Register</h1>
            </div></br></br></br>
            <h2 class="word">
                <div class="quote"><b>Quote of the Day</b><br/>{{ quote
}}</div>
                <form action="{{ url_for('register') }}" method="post">
                <div class="msg">{{ msg }}</div>
                    <input id="username" name="username" type="text"
placeholder="Enter Your Username" class="textbox"/></br></br>
                    <input id="email" name="email" type="text"
placeholder="Enter Your Email ID" class="textbox"/></br></br>
                    <input id="phone" name="phone" type="text"
placeholder="Enter Your Phone number" class="textbox"/></br></br>
                    <input type="submit" class="btn" value="Submit"></br>
                </form>
            </h2>
        </div>
        </div>
```

```
    </body>
</html>
```

login.html

```
<!-- Store this code in 'login.html' file inside the 'templates' folder
-->
<html>
    <head>
        <meta charset="UTF-8">
        <title> Profile</title>
        <link rel="stylesheet" href="{{ url_for('static',
filename='style.css') }}">
    </head>
    <body></br></br></br></br></br>
        <div align="center">
        <div align="center" class="border">
            <div class="header">
                <h1 class="word">Profile</h1>
                <img src="static/profile.png" alt="profile picture"/>
            </div></br></br></br>
            <h2 class="word">
                <form action="" method="post">
                {% for key,value in msg.items() %}
                <label>{{key}}</label>
                <input id={{key}} name={{key}} type="text"  placeholder='{{
value }}' class="textbox" readonly/></br></br>
                {% endfor %}
                </form>
            </h2>
            <div class="description"><b>About the username</b>
<br>{{desc}}</div>
            <p class="bottom">Go to registration page<a class="bottom"
href="{{url_for('register')}}"> Register again</a></p>
        </div>
        </div>
    </body>
</html>
```

Output: