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Project Name	Project - Cloud Application Development

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

```
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__)
```

```

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

```

<!-- 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>
        </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>
          
        </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:



Register

Quote of the Day
"The better you feel about yourself, The less you feel the need to show off."

Ronaldo


jeetgolecha@gmail.com

+918667249401


Submit




Profile



Your username is Ronaldo



Your email is jeetgolecha@



Your phone is +918667249

About the username
Ronaldo is a masculine given name derived from the Old Norse Rögnvaldr, or possibly from Old English Regenweald. In some cases Ronald is an Anglicised form of the Gaelic Ragnall, a name likewise derived from Rögnvaldr. The latter name is composed of the Old Norse elements regin ("advice", "decision") and valdr ("ruler"). Ronald was originally used in England and Scotland, where Scandinavian influences were once substantial, although now the name is common throughout the English-speaking world.

Go to registration page [Register again](#)