

Assignment - 1

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Project Name	Project - Personal Expense Tracker App

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 at least 5 packages used from pypi.org.

- Packages used here: **wikipedia, quoters, randimage, phone numbers, 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 phonenumbers
- 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>
```

```
</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>
```

