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## Assignment - 1

### Using HTML and Flask Packages

1. Create registration page in html with username, email and phone number and by using POST method display it in 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>
</body>
</html>

```

## login.html

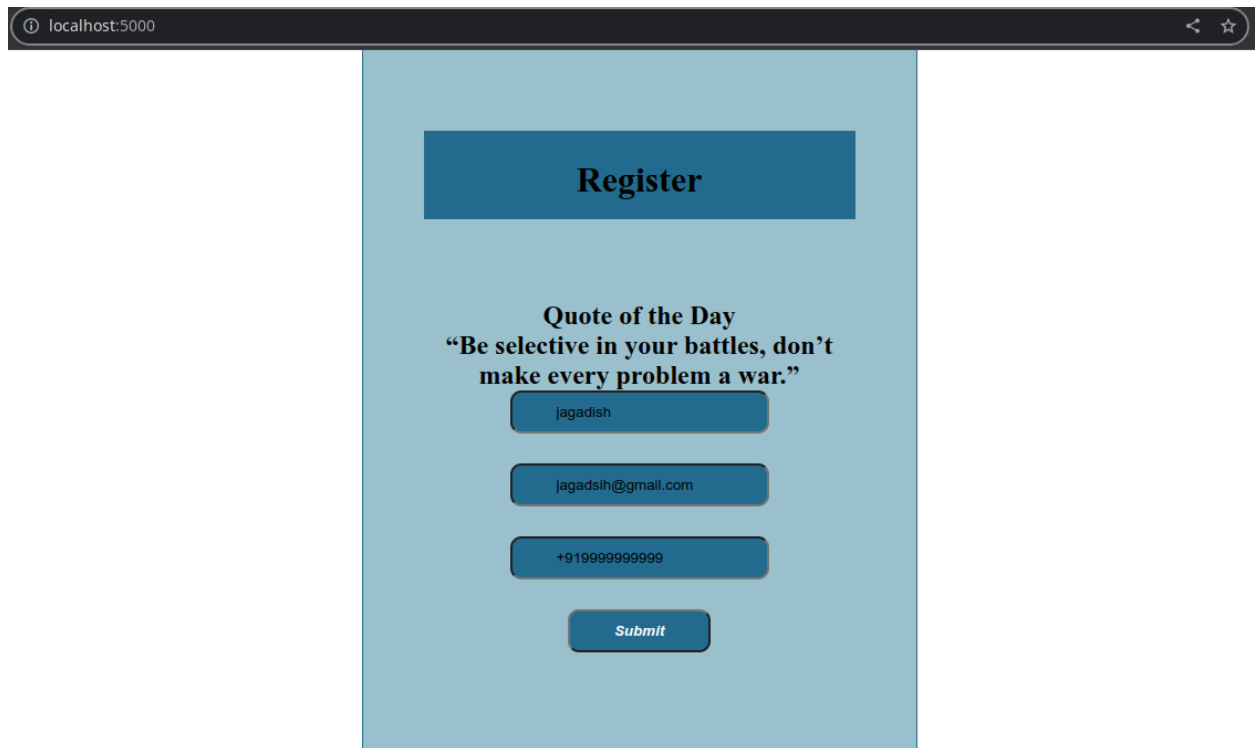
```

<!-- 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>

```

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

Output :



The screenshot shows a web browser window with the address bar displaying "localhost:5000". The main content area has a light blue background. At the top, there is a dark blue rectangular button with the text "Register" in white. Below this, the text "Quote of the Day" is centered, followed by a quote: "Be selective in your battles, don't make every problem a war." Underneath the quote, there are four input fields, each with a dark blue background and white text. The first field contains "jagadish", the second contains "jagadsih@gmail.com", and the third contains "+919999999999". Below these fields is a dark blue rectangular button with the text "Submit" in white.

localhost:5000

**Register**

**Quote of the Day**  
**"Be selective in your battles, don't make every problem a war."**

jagadish

jagadsih@gmail.com

+919999999999

**Submit**

## Profile



username

jagadish

email

jagadsih@gmail.com

phone

+919999999999

### About the username

P. V. Jagadish Kumar (born 12 June 1955) known mononymously as Jagadish, is an Indian actor, screenwriter, television presenter and former politician. He has starred in over 375 Malayalam films and 2 Hindi films. He is best known for his comic and character roles. Jagadish starred in over 50 films as the lead actor during the 1990s.

*Go to registration page [Register again](#)*