Assignment -1

Flask Programming

Assignment Date	14 September 2022
Student Name	Mr. S. Vignesh
Student Roll Number	814619104022
Maximum Marks	2 Marks

Question-1:

Write a flask program which should display Name, Email, Phone and it should display the same details once we hit submit.

Solution:

```
from flask import Flask, redirect,url_for, request,render_template,json
import os
app = Flask(__name___)
team_member3 = {"1": "VIGNESH S","2": "vigneshsaravanakumar2001@gmail.com", "3":
"+912344378922"}
@app.route('/data', methods = ['POST','GET'])
def api():
if request.method == 'GET':
return team_member3
if request.method == 'POST':
data = request.json
team_member3.update(data)
return "Data is inserted"
@app.route("/data/<id>", methods=["PUT"])
def update(id):
data = request.form['member']
team_member3 [str(id)]=data
return "Data is updated"
@app.route("/data/<id>", methods=["DELETE"])
def delete(id):
team_member3.pop(str(id))
return "Data Deleted"
```

```
if __name__ == '__main__':
port = os.environ.get('FLASK_PORT') or 8080
port = int(port)
app.run(port=port,host='0.0.0.0')
```

```
Spyder (Python 3.9)
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          from flask import Flask, redirect,url_for, request,render_template,json
          import os
          app = Flask(__name_
         team_member3 = {"1" : "VIGNESH S" , "2" : "vigneshsaravanakumar2001@gmail.com" , "3" : "+912344.
@app.route('/data2', methods = ['POST','GET'])
         def api():
          if request.method == 'GET':
                return team_member3
           if request.method == 'POST':
                data = request.json
                team member3.update(data)
                return "Data is inserted"
         @app.route("/data2/<id>", methods=["PUT"])
def update(id):
                    data = request.form['member']
                    team_member3 [str(id)]=data
return "Data is updated"
         @app.route("/data2/<id>", methods=["DELETE"])
def delete(id):
          team_member3.pop(str(id))
   22
         return "Data Deleted"
if __name__ == '__main__':
              port = os.environ.get('FLASK_PORT') or 8080
              port = int(port)
              app.run(port=port,host='0.0.0.0')
```



Question-2:

Write a flask program which should cover cookies and session.

Solution:

Create cookie

```
@app.route('/')
Def index():
```

Return render_template('index.html')

This HTML page contains a text input.

```
<html>
<body>

<form action = "/setcookie" method = "POST">
        <h3>Enter userID</h3>
        <input type = 'text' name = 'nm'/>
        <input type = 'submit' value = 'Login'/>
        </form>

</body>
</html>
```

Set cookie

```
@app.route('/setcookie', methods = ['POST', 'GET'])
Def setcookie():
    If request.method == 'POST':
```

```
User = request.form['nm']

Resp = make_response(render_template('readcookie.html'))
Resp.set_cookie('userID', user)

Return resp

Get cookie

@app.route('/getcookie')

Def getcookie():
Name = request.cookies.get('userID')
Return '<h1>welcome ' + name + '</h1>'
```

Output



Enter userID

admin

Login

SESSION

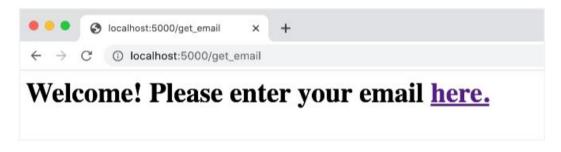
```
From flask import Flask, render_template_string, request, session, redirect, url_for @app.route('/set_email', methods=['GET', 'POST'])

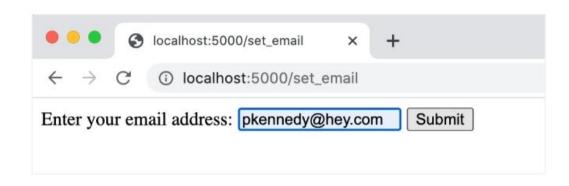
Def set_email():
    If request # Create the Flask application

App = Flask(__name__)

App.secret_key = 'BAD_SECRET_KEY'
.method == 'POST':
    # Save the form data to the session object
    Session['email'] = request.form['email_address']
    Return redirect(url_for('get_email'))
```

```
<form method="post">
      <label for="email">Enter your email address:</label>
      <input type="email" id="email" name="email_address" required />
      <button type="submit">Submit/button
    </form>
    w
@app.route('/get_email')
Def get email():
  Return render_template_string("""
      {% if session['email'] %}
        <h1>Welcome {{ session['email'] }}!</h1>
      {% else %}
        <h1>Welcome! Please enter your email <a href="{{ url_for('set_email') }}">here.</a></h1>
      {% endif %}
    """)
@app.route('/delete email')
Def delete_email():
  # Clear the email stored in the session objects
  Session.pop('email', default=None)
  Return '<h1>Session deleted!</h1>'
If __name__ == '__main__':
 App.run()
```





Question-3:

Write a flask program which should display resume details and also have upload resume option by using file uploading.

Solution:

Upload file html program:

Flask program:

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

@app.route('/upload')
def upload_file():
    return render_template('upload.html')

@app.route('/uploader', methods = ['GET', 'POST'])
def upload_file():
    if request.method == 'POST':
        f = request.files['file']
        f.save(secure_filename(f.filename))
        return 'file uploaded successfully'

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

