Assignment -1
Flask Programming

Assignment Date	14 September 2022
Student Name	Mr. S.Deva
Student Roll Number	814619104005
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_members = {“1” : “DEVA S ”,”2” : “trichydeva03@gmail.com”, “3” : “+911222377477”}

@app.route(‘/data’, methods = [‘POST’,’GET’])

Def api():

If request.method == ‘GET’:

Return  team_members

 If request.method == ‘POST’:

Data = request.json

Team_members.update(data)

Return “Data is inserted”

@app.route(“/data/<id>”, methods=[“PUT”])

Def update(id):

Data = request.form[‘member’]

Team_members[str(id)]=data

Return “Data is updated”

@app.route(“/data/<id>”, methods=[“DELETE”])

Def delete(id):

Team_members.pop(str(id))
```

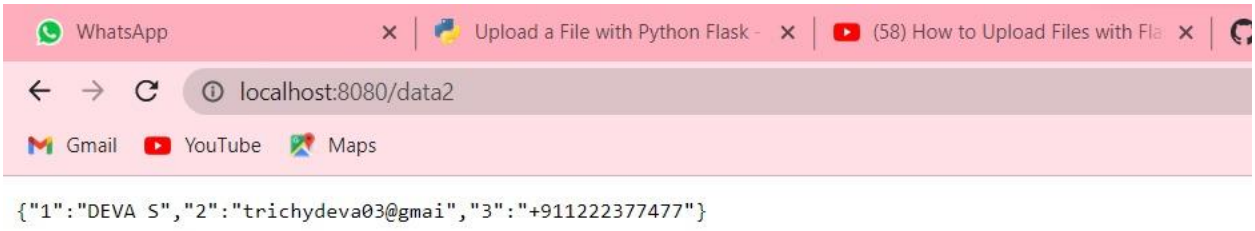
Return “Data Deleted”

If __name__ == ‘__main__’:

Port = os.environ.get(‘FLASK_PORT’) or 8080

Port = int(port)

App.run(port=port,host=’0.0.0.0’)



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

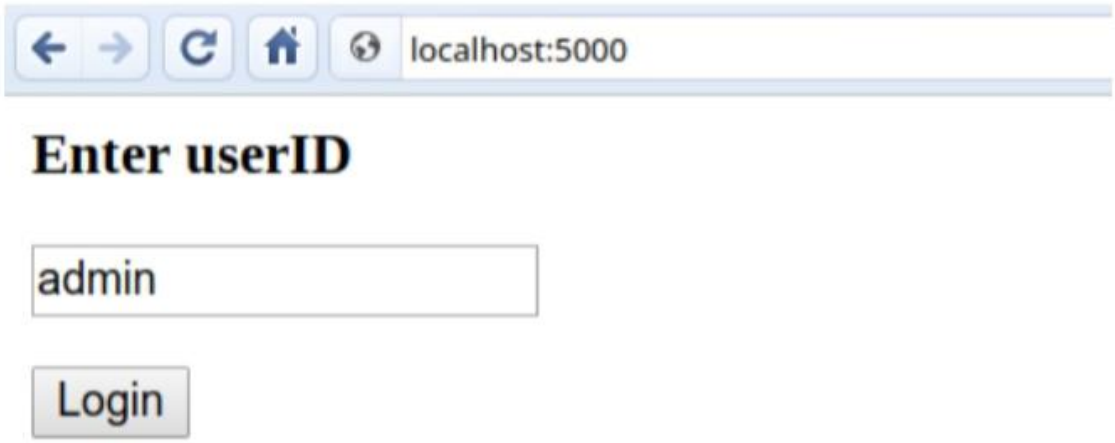
@app.route(‘/setcookie’, methods = [‘POST’, ‘GET’])
Def setcookie():

```
  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

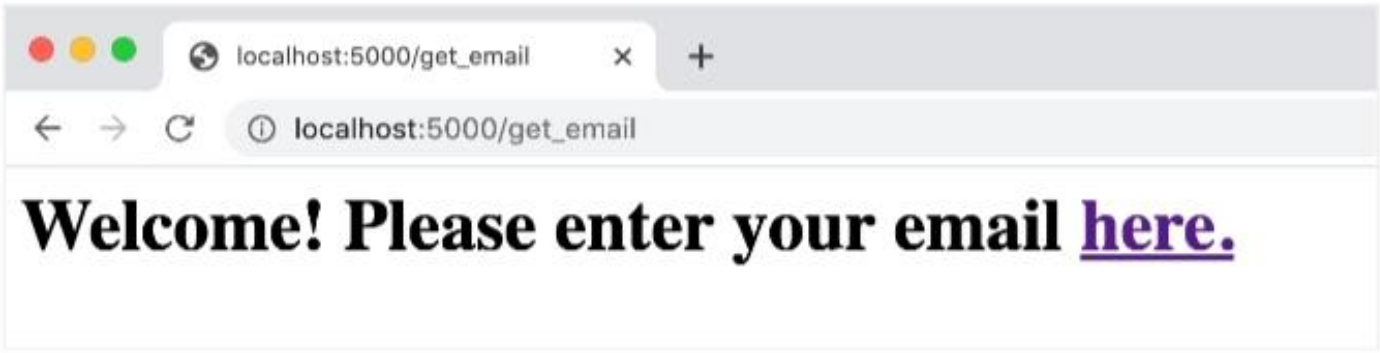


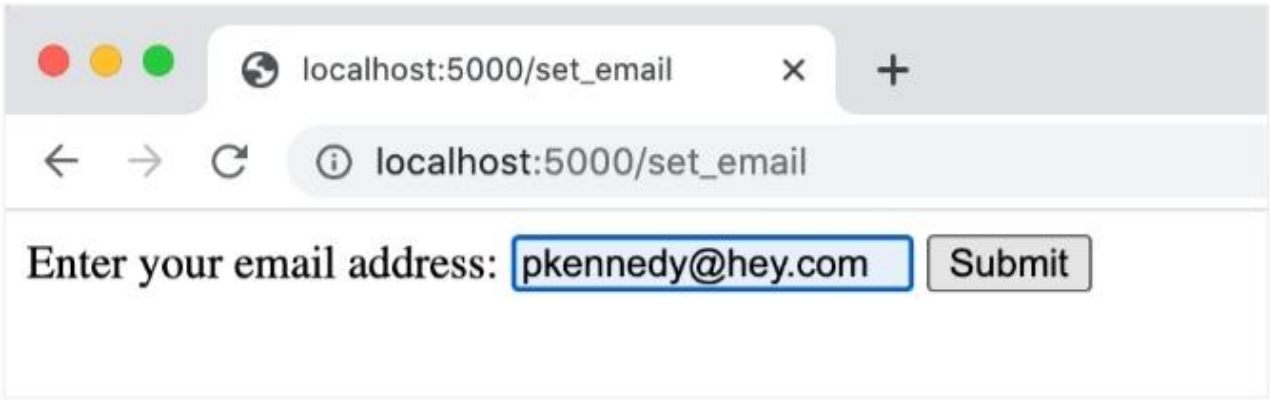
SESSION

```
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'))

   Return """
<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>
    """
@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.html

```
<html>
  <body>
    <form action = "http://localhost:5000/uploader" method = "POST"
      enctype = "multipart/form-data">
      <input type = "file" name = "file" />
      <input type = "submit"/>
    </form>
  </body>
</html>
```

upload.py

```
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)
```

output