Assignment -1
Flask Programming

Assignment Date	14 September 2022
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Student Roll Number	814619104303
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” : “Kanmani”,”2” : “Anitha”, “3” : “Mathu Mitha”, “4” : “Vijayalakshmi”}

@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))
```

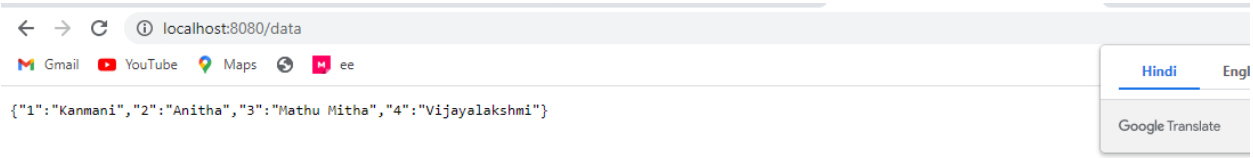
return “Data Deleted”

if __name__ == ‘__main__’:

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

port = int(port)

app.run(port=port,host=’0.0.0.0’)



Email

from flask import Flask, redirect,url_for, request,render_template,json

import osapp = Flask(__name__)

team_members = {“1” : kanmani07@gmail.com,”2” : anitha01@gmail.com, “3” : mathumitha13@gmail.com, “4” : vijayalakshmi303@gmail.com}

@app.route(‘/data1’, 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(“/data1/<id>”, methods=[“PUT”])

def update(id):

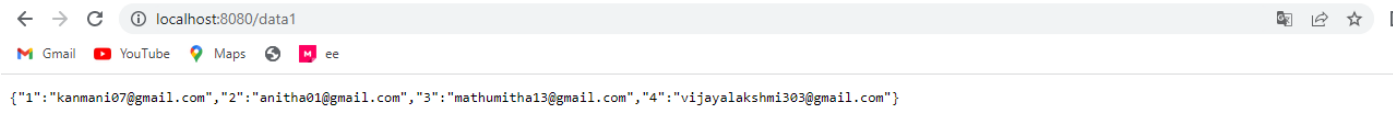
Data = request.form[‘member’]

team_members[str(id)]=data

return “Data is updated”

```
@app.route("/data1/<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')
```

Output

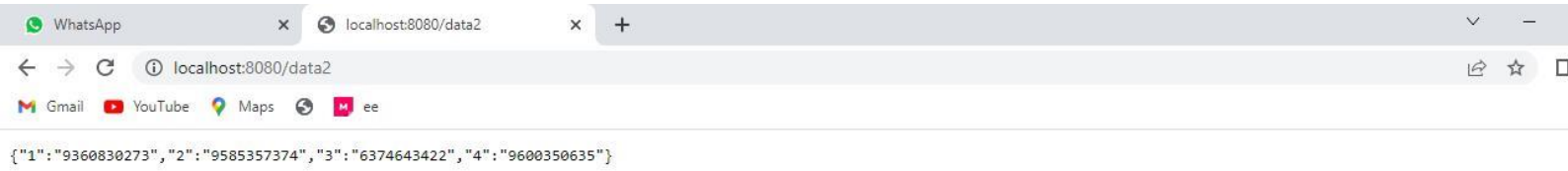


Phone

```
from flask import Flask, redirect,url_for, request,render_template,json
import os
app = Flask(__name__)
team_members = {"1" : "9360830273","2" : "9585357374", "3" : "6374643422", "4" : "9600350635"}

@app.route('/data2', 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(“/data2/<id>”, methods=[“PUT”])
def update(id):
    data = request.form[‘member’]
team_members[str(id)]=data
    return “Data is updated”

@app.route(“/data2/<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’)
sk import Flask, redirect,url_for, request,render_template,json
```

Output



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">
<p><h3>Enter userID</h3></p>
<p><input type = 'text' name = 'nm'/></p>
<p><input type = 'submit' value = 'Login'/></p>
</form>
</body>
</html>
```

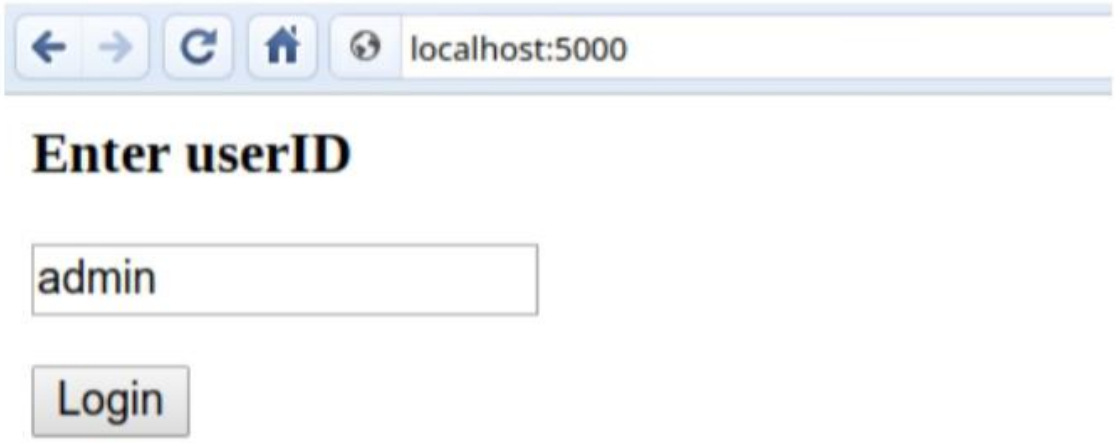
Set cookie

```
@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>'
```

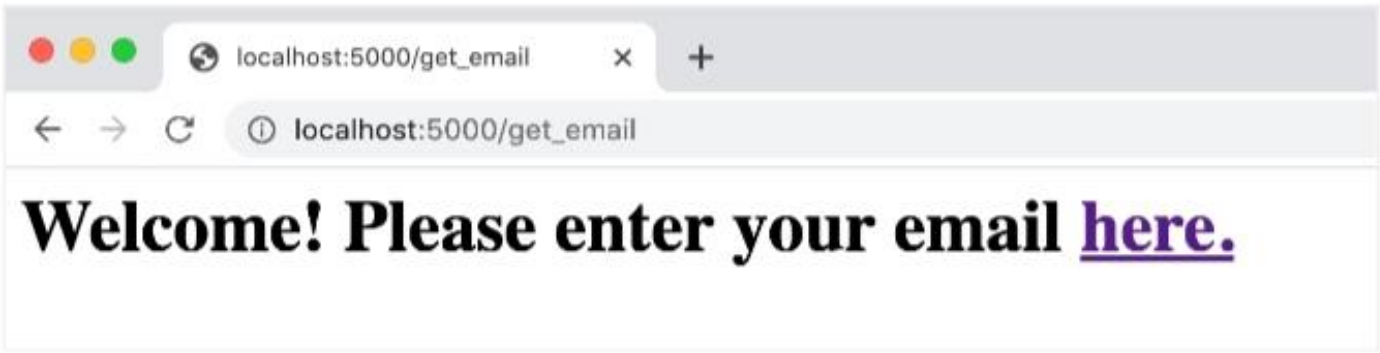
Output

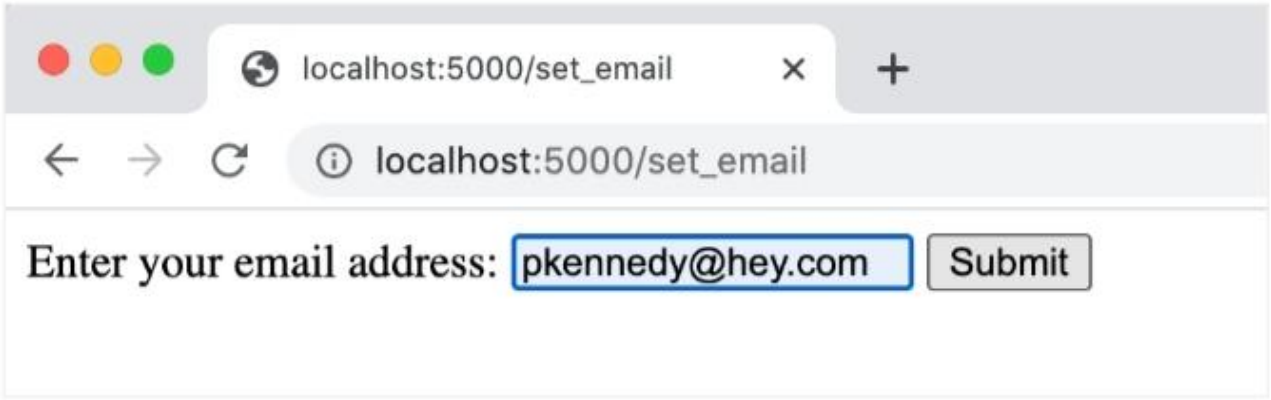


SESSION

```
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