COMP1531

5.3 HTTP Testing

Practicing

Write a flask server that:

- Can have it's state reset via POST
- Can have a first/last name stored via POST
- Can get the first/last name via GET
    - Can pass in an optional parameter to get results as uppercase

Write a system test that ensures the server is behaving as necessary.

GET Requests

```python
BASE_URL = 'https://google.com'
queryString = urllib.parse.urlencode({
    'hello': 'world',
})
response = urllib.request.urlopen(f"{BASE_URL}/info?{queryString}")
payload = json.load(response)
print(payload)
```

POST|PUT|DELETE Requests

```python
data = json.dumps({
    'hello' : 'world'
}).encode('utf-8')

req = urllib.request.Request(
    f"{BASE_URL}/set",
    data=data,
    headers={'Content-Type': 'application/json'}
)

payload = json.load(urllib.request.urlopen(req))
```

Full Sample Code

Full sample code can be found in week 5 lectures:

- server.py
- server_test.py