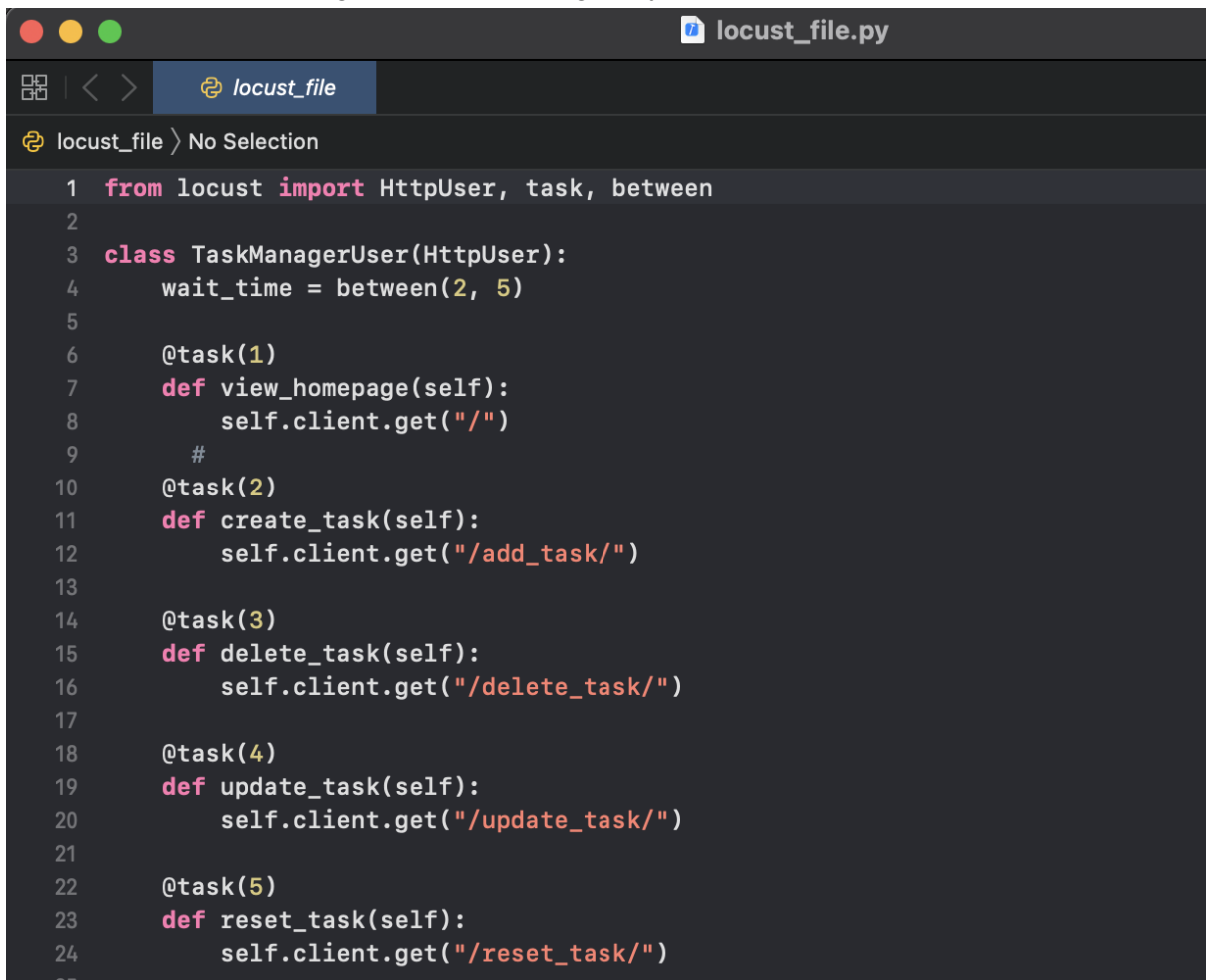


Stress testing

I decided to use Locust for stress testing, the reasons for choosing:

- Open Source: Locust is freely available.
- Python-Based: Uses Python, a widely adopted language.
- Distributed Testing: Supports distributed load testing.
- Ease of Use: Straightforward scripting in Python.

A screenshot of a code editor window titled 'locust_file.py'. The editor shows a Python script for a Locust stress test. The script imports 'HttpUser', 'task', and 'between' from the 'locust' module. It defines a 'TaskManagerUser' class that inherits from 'HttpUser'. Inside the class, there are five tasks defined with '@task' decorators: 'view_homepage' (1 instance), 'create_task' (2 instances), 'delete_task' (3 instances), 'update_task' (4 instances), and 'reset_task' (5 instances). Each task calls 'self.client.get()' with a specific URL. The 'view_homepage' task has a comment '#'. The 'create_task' task calls '/add_task/'. The 'delete_task' task calls '/delete_task/'. The 'update_task' task calls '/update_task/'. The 'reset_task' task calls '/reset_task/'. The script is line-numbered from 1 to 25.

```
1 from locust import HttpUser, task, between
2
3 class TaskManagerUser(HttpUser):
4     wait_time = between(2, 5)
5
6     @task(1)
7     def view_homepage(self):
8         self.client.get("/")
9         #
10    @task(2)
11    def create_task(self):
12        self.client.get("/add_task/")
13
14    @task(3)
15    def delete_task(self):
16        self.client.get("/delete_task/")
17
18    @task(4)
19    def update_task(self):
20        self.client.get("/update_task/")
21
22    @task(5)
23    def reset_task(self):
24        self.client.get("/reset_task/")
25
```

Web project handled 40 users.

Failure percentage: 0%



LOCUST

HOST
http://localhost:8080

STATUS
RUNNING
40 users
[Edit](#)

RPS
36.1

FAILURES
0%



Statistics Charts Failures Exceptions Current ratio Download Data

Type	Name	# Requests	# Fails	Median (ms)	90%ile (ms)	99%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/add_task/	8	0	14	64	64	20	10	64	2809	0.5	0
GET	/delete_task/	19	0	14	63	65	20	9	65	3063	1.2	0
GET	/update_task/	13	0	11	42	46	16	6	46	2223	0.7	0
GET	/modify_task/	31	0	8	54	67	19	3	67	2357	1.4	0
GET	/reset_task/	35	0	13	55	66	21	7	66	2841	1.5	0
Aggregated		106	0	13	54	66	20	3	67	2661	5.3	0

