TEST DOCUMENT

COMPSCI-677

LAB 2 - PYGMY.COM

Overview

- All the tests are written in python scripts within their respective sub-directories
- A central 'run client.sh' bash script calls all the test python scripts sequentially
- The tests spin up a varying number of clients with each client creating its own respective output file of the format 'client_<client_number>_output.txt' and 'client_<client_number>_metrics.txt' for each test within its own sub - directory on the local machine
- All the clients run a fixed number of requests (varying across tests) which are randomly generated from the available services (search/lookup/buy)

There are 5 tests included within the test directory titled test 1 through test 5:

Test 1:

- Spins up a single client, picks a set number of requests and generates them randomly, and saves its output and metrics to file

Test 2:

- Uses python multithreading to spin up 2 clients simultaneously, each executing independently and saving their outputs to file

Test 3:

 Uses python multithreading to spin up 5 clients simultaneously, each executing independently and saving their outputs to file

Test 4:

 Spins up a single client, runs 1000 sequential requests and generates them randomly, and saves its output and metrics to file

Test 5:

 Uses python multithreading to spin up 2 clients simultaneously, each running 1000 sequential requests independently and saving their outputs to file

Directions to run

- The tests themselves can be executed individually or all together by executing run_client.sh on their local machines
- Additionally, graders can execute run_pygmy.sh on their local machines which is the
 master script that handles remote login into all the edlab machines, spinning up of all the
 servers on each machine and execution of all tests (i.e, calling run_client.sh) through a
 single command