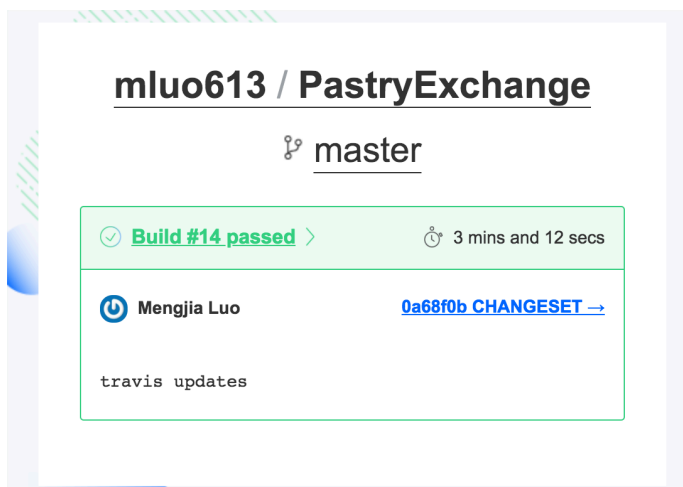


## Project 6 Write Up

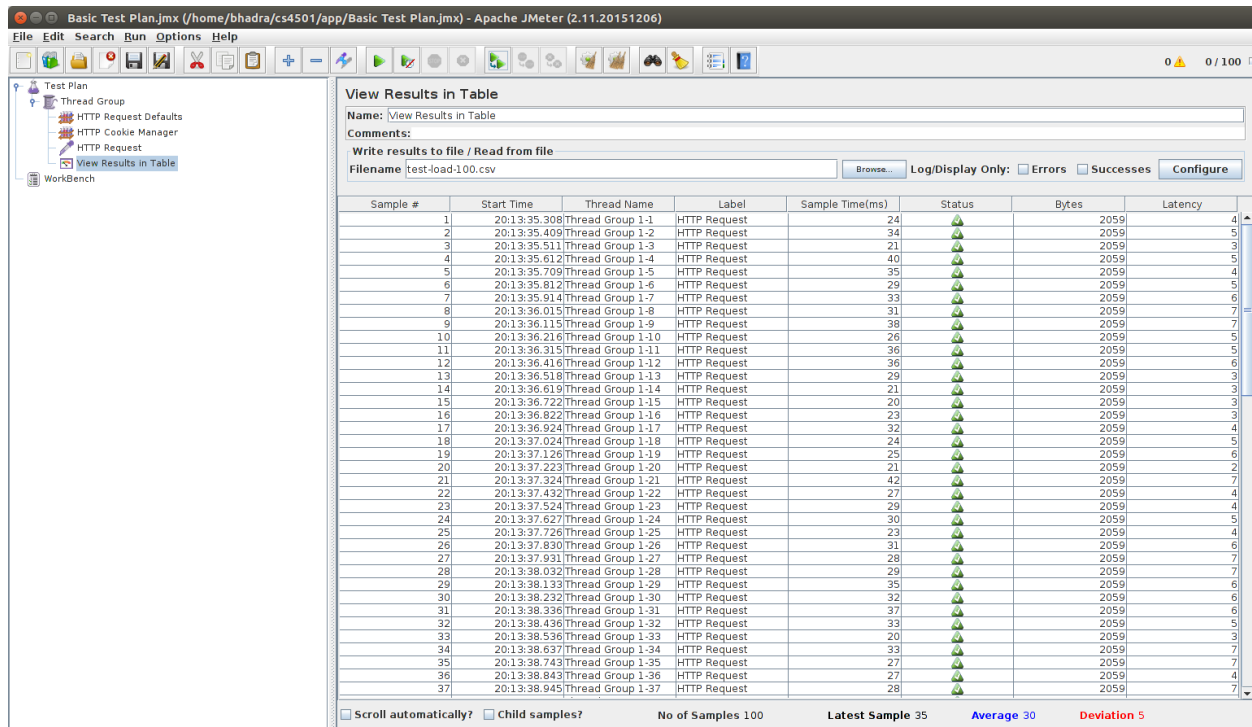
1. What we did: HaProxy, Travis CI, Selenium, and JMeter
  - Notes on Selenium tests: Only two of the tests were functional because when the link clicked to view the 'Create New Item' was clicked, it kept going to the 'Log in' page instead. We couldn't figure out the problem in office hours, so you said having the first 2 tests was enough. Most of the 3<sup>rd</sup> test is commented out so it will pass, but you can still see the code.
2. The updated docker-compose.yml can be accessed through the GitHub link.
3. The GitHub link for the release is included in the email body. (It's the same as the Project 7 link.)
4. Sample output
  1. HaProxy:

```
0 sessions requested, 0 total in queue.
May 03 03:46:19 5742528e14de haproxy: Proxy http started.
May 03 03:46:19 5742528e14de haproxy: Proxy http started.
May 03 03:46:19 5742528e14de haproxy: Proxy web_backend started.
May 03 03:46:19 5742528e14de haproxy: Proxy web_backend started.
May 03 03:46:19 5742528e14de haproxy: Server web_backend/web1 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 1
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 03:46:19 5742528e14de haproxy: Server web_backend/web1 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 1
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 03:46:20 5742528e14de haproxy: Server web_backend/web2 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 0
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 03:46:20 5742528e14de haproxy: Server web_backend/web2 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 0
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 03:46:20 5742528e14de haproxy: backend web_backend has no server available!
May 03 03:46:20 5742528e14de haproxy: backend web_backend has no server available!
May 03 03:46:39 5742528e14de haproxy: Server web_backend/web1 is UP, reason: Layer4 check passed, check duration: 0ms. 1 active and 0 backup servers online.
0 sessions requested, 0 total in queue.
May 03 03:46:39 5742528e14de haproxy: Server web_backend/web1 is UP, reason: Layer4 check passed, check duration: 0ms. 1 active and 0 backup servers online.
0 sessions requested, 0 total in queue.
May 03 04:18:16 5742528e14de haproxy: Proxy http started.
May 03 04:18:16 5742528e14de haproxy: Proxy http started.
May 03 04:18:16 5742528e14de haproxy: Proxy web_backend started.
May 03 04:18:16 5742528e14de haproxy: Proxy web_backend started.
May 03 04:18:16 5742528e14de haproxy: Server web_backend/web1 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 1
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 04:18:16 5742528e14de haproxy: Server web_backend/web1 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 1
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 04:18:18 5742528e14de haproxy: Server web_backend/web2 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 0
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 04:18:18 5742528e14de haproxy: Server web_backend/web2 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 0
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
May 03 04:18:18 5742528e14de haproxy: backend web_backend has no server available!
May 03 04:18:18 5742528e14de haproxy: backend web_backend has no server available!
May 03 04:18:47 5742528e14de haproxy: Proxy http started.
May 03 04:18:47 5742528e14de haproxy: Proxy http started.
May 03 04:18:47 5742528e14de haproxy: Proxy web_backend started.
May 03 04:18:47 5742528e14de haproxy: Proxy web_backend started.
May 03 04:18:47 5742528e14de haproxy: Server web_backend/web1 is DOWN, reason: Layer4 connection problem, info: "Connection refused", check duration: 0ms. 1
active and 0 backup servers left. 0 sessions active, 0 requested, 0 remaining in queue.
```

2. Travis CI:



### 3. JMeter:



Basic Test Plan.jmx (/home/bhadra/cs4501/app/Basic Test Plan.jmx) - Apache JMeter (2.11.20151206)

File Edit Search Run Options Help

Test Plan

- Thread Group
  - HTTP Request Defaults
  - HTTP Cookie Manager
  - HTTP Request
  - View Results in Table
- WorkBench

View Results in Table

Name: View Results in Table

Comments:

Write results to file / Read from file

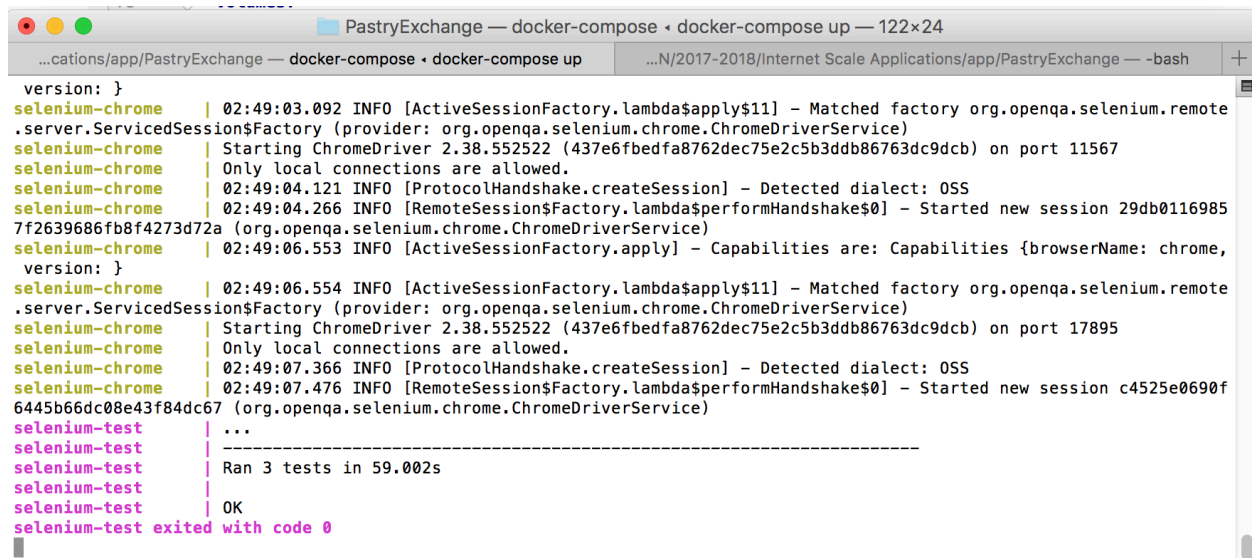
Filename: test-load-100.csv

Log/Display Only: ☐ Errors ☐ Successes

Sample #	Start Time	Thread Name	Label	Sample Time(ms)	Status	Bytes	Latency
1	20:13:35.308	Thread Group 1-1	HTTP Request	24	Success	2059	4
2	20:13:35.409	Thread Group 1-2	HTTP Request	34	Success	2059	5
3	20:13:35.511	Thread Group 1-3	HTTP Request	21	Success	2059	3
4	20:13:35.612	Thread Group 1-4	HTTP Request	40	Success	2059	5
5	20:13:35.709	Thread Group 1-5	HTTP Request	35	Success	2059	4
6	20:13:35.812	Thread Group 1-6	HTTP Request	29	Success	2059	5
7	20:13:35.914	Thread Group 1-7	HTTP Request	33	Success	2059	6
8	20:13:36.015	Thread Group 1-8	HTTP Request	31	Success	2059	7
9	20:13:36.115	Thread Group 1-9	HTTP Request	38	Success	2059	7
10	20:13:36.216	Thread Group 1-10	HTTP Request	26	Success	2059	5
11	20:13:36.315	Thread Group 1-11	HTTP Request	36	Success	2059	5
12	20:13:36.416	Thread Group 1-12	HTTP Request	36	Success	2059	6
13	20:13:36.518	Thread Group 1-13	HTTP Request	29	Success	2059	3
14	20:13:36.619	Thread Group 1-14	HTTP Request	21	Success	2059	3
15	20:13:36.722	Thread Group 1-15	HTTP Request	20	Success	2059	3
16	20:13:36.822	Thread Group 1-16	HTTP Request	23	Success	2059	3
17	20:13:36.924	Thread Group 1-17	HTTP Request	32	Success	2059	4
18	20:13:37.024	Thread Group 1-18	HTTP Request	24	Success	2059	5
19	20:13:37.126	Thread Group 1-19	HTTP Request	25	Success	2059	6
20	20:13:37.223	Thread Group 1-20	HTTP Request	21	Success	2059	2
21	20:13:37.324	Thread Group 1-21	HTTP Request	42	Success	2059	7
22	20:13:37.432	Thread Group 1-22	HTTP Request	27	Success	2059	4
23	20:13:37.524	Thread Group 1-23	HTTP Request	29	Success	2059	4
24	20:13:37.627	Thread Group 1-24	HTTP Request	30	Success	2059	5
25	20:13:37.726	Thread Group 1-25	HTTP Request	23	Success	2059	4
26	20:13:37.830	Thread Group 1-26	HTTP Request	31	Success	2059	6
27	20:13:37.931	Thread Group 1-27	HTTP Request	28	Success	2059	7
28	20:13:38.032	Thread Group 1-28	HTTP Request	29	Success	2059	7
29	20:13:38.133	Thread Group 1-29	HTTP Request	35	Success	2059	6
30	20:13:38.232	Thread Group 1-30	HTTP Request	32	Success	2059	6
31	20:13:38.336	Thread Group 1-31	HTTP Request	37	Success	2059	6
32	20:13:38.436	Thread Group 1-32	HTTP Request	33	Success	2059	5
33	20:13:38.536	Thread Group 1-33	HTTP Request	20	Success	2059	3
34	20:13:38.637	Thread Group 1-34	HTTP Request	33	Success	2059	7
35	20:13:38.743	Thread Group 1-35	HTTP Request	27	Success	2059	7
36	20:13:38.843	Thread Group 1-36	HTTP Request	27	Success	2059	4
37	20:13:38.945	Thread Group 1-37	HTTP Request	28	Success	2059	7

☐ Scroll automatically? ☐ Child samples? No of Samples 100 Latest Sample 35 Average 30 Deviation 5

### 4. Selenium:



```
version: }
selenium-chrome | 02:49:03.092 INFO [ActiveSessionFactory.lambda$apply$11] - Matched factory org.openqa.selenium.remote
.server.ServiceSession$Factory (provider: org.openqa.selenium.chrome.ChromeDriverService)
selenium-chrome | Starting ChromeDriver 2.38.552522 (437e6fbdf8a762dec75e2c5b3ddb86763dc9dcb) on port 11567
selenium-chrome | Only local connections are allowed.
selenium-chrome | 02:49:04.121 INFO [ProtocolHandshake.createSession] - Detected dialect: OSS
selenium-chrome | 02:49:04.266 INFO [RemoteSession$Factory.lambda$performHandshake$0] - Started new session 29db0116985
7f2639686fb8f4273d72a (org.openqa.selenium.chrome.ChromeDriverService)
selenium-chrome | 02:49:06.553 INFO [ActiveSessionFactory.apply] - Capabilities are: Capabilities {browserName: chrome,
version: }
selenium-chrome | 02:49:06.554 INFO [ActiveSessionFactory.lambda$apply$11] - Matched factory org.openqa.selenium.remote
.server.ServiceSession$Factory (provider: org.openqa.selenium.chrome.ChromeDriverService)
selenium-chrome | Starting ChromeDriver 2.38.552522 (437e6fbdf8a762dec75e2c5b3ddb86763dc9dcb) on port 17895
selenium-chrome | Only local connections are allowed.
selenium-chrome | 02:49:07.366 INFO [ProtocolHandshake.createSession] - Detected dialect: OSS
selenium-chrome | 02:49:07.476 INFO [RemoteSession$Factory.lambda$performHandshake$0] - Started new session c4525e0690f
6445b66dc08e43f84dc67 (org.openqa.selenium.chrome.ChromeDriverService)
selenium-test | ...
selenium-test | -----
selenium-test | Ran 3 tests in 59.002s
selenium-test | OK
selenium-test | selenium-test exited with code 0
```

### 5. No command lines