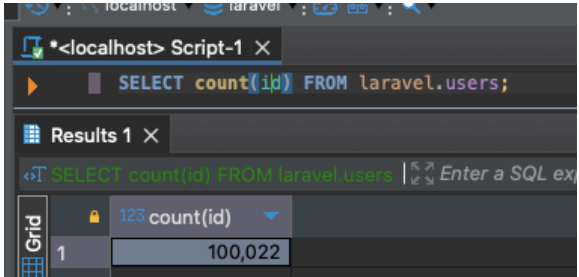


Stress Test and Load Test PHP Filament

Env	Local
Specification	vCPU 2Core, 4GB Mem
Host	http://localhost:8000
Version	1
Testing date	2024-05-08
Prepared data test	>10000 rows, at users table
Query Count	

1. Search and pagination test

- a. endpoint: /admin/i-a-m/users
- b. total data: data>100000 rows
- c. VUs: 1
- d. Iteration: 10
- e. results:

```
→ stresstest K6_BROWSER_HEADLESS=false K6_BROWSER_ARGS='show-property-changed-rects' k6 run index-test.js
```

```
      /\_/\
     /  _  \
    /_____\ \   .io
   /  _  \__\
  /_____\__\

execution: local
script: index-test.js
output: -

scenarios: (100.00%) 1 scenario, 1 max VUs, 40s max duration (incl. graceful stop):
  * ui: 1 looping VUs for 10s (gracefulStop: 30s)

browser_data_received.....: 13 MB 1.0 MB/s
browser_data_sent.....: 88 kB 7.1 kB/s
browser_http_req_duration...: avg=46.61ms min=17µs med=7.52ms max=506.15ms p(90)=166.25ms p(95)=324.8ms
browser_http_req_failed....: 0.00% ✓ 0 ✗ 219
browser_web_vital_cls.....: avg=0.000564 min=0 med=0 max=0.006205 p(90)=0 p(95)=0.003103
browser_web_vital_fcp.....: avg=441.69ms min=405.2ms med=418.25ms max=612.19ms p(90)=526.43ms p(95)=571.38ms
browser_web_vital_fid.....: avg=199.99µs min=199.99µs med=199.99µs max=199.99µs p(90)=199.99µs p(95)=199.99µs
browser_web_vital_inp.....: avg=0s min=0s med=0s max=0s p(90)=0s p(95)=0s
browser_web_vital_lcp.....: avg=470.3ms min=433.09ms med=446.6ms max=659.79ms p(90)=538ms p(95)=598.89ms
browser_web_vital_ttfb.....: avg=335.43ms min=277.19ms med=329.65ms max=469.39ms p(90)=333ms p(95)=394.37ms
✓ checks.....: 0.00% ✓ 0 ✗ 0
data_received.....: 0 B 0 B/s
data_sent.....: 0 B 0 B/s
iteration_duration.....: avg=11.92s min=11.92s med=11.92s max=11.92s p(90)=11.92s p(95)=11.92s
iterations.....: 1 0.000949/s
vus.....: 1 min=1 max=1
vus_max.....: 1 min=1 max=1

running (12.4s), 0/1 VUs, 1 complete and 0 interrupted iterations
ui ✓ [=====] 1 VUs 10s
```

- f. scenario: loop call endpoint `/admin/i-a-m/users` with combination query params `page` and `tableSearch`
- g. code:

```
for (let j = 0; j < 10; j++) {  
    await page.goto('http://localhost:8080/admin/i-a-m/users?tableSearch='+j+'&page='+j)  
    page.waitForLoadState();  
}
```

2. Inserting test

- a. endpoint: /admin/i-a-m/users/create
- b. total data: data>100000 rows
- c. VUs: 1
- d. Iteration: 10
- e. results:

```
➡ stresstest K6_BROWSER_HEADLESS=false K6_BROWSER_ARGS='show-property-changed-rects' k6 run create-test.js
```

```
.io  
  
execution: local  
script: create-test.js  
output: -  
  
scenarios: (100.00%) 1 scenario, 1 max VUs, 40s max duration (incl. graceful stop):  
    * ui: 1 looping VUs for 10s (gracefulStop: 30s)  
  
browser_data_received.....: 17 MB   537 kB/s  
browser_data_sent.....: 128 kB   4.0 kB/s  
browser_http_req_duration...: avg=178.34ms min=16µs      med=181.31ms max=513.68ms p(90)=355.39ms p(95)=362.42ms  
browser_http_failed.....: 0.00% ✓ 0 x 238  
browser_web_vital_cls.....: avg=0.00394s min=0.00360s med=0.00360s max=0.00620s p(90)=0.00456s p(95)=0.00538s  
browser_web_vital_fcp.....: avg=558.53ms min=430.9ms med=575.89ms max=601.09ms p(90)=600ms p(95)=600.54ms  
browser_web_vital_fid.....: avg=1.19ms min=99.99µs med=2ms max=2.2ms p(90)=2.19ms p(95)=2.2ms  
browser_web_vital_inp.....: avg=12.8ms min=0s med=12ms max=24ms p(90)=24ms p(95)=24ms  
browser_web_vital_lcp.....: avg=576.44ms min=430.9ms med=602.3ms max=623.5ms p(90)=613ms p(95)=618.25ms  
browser_web_vital_ttfb.....: avg=202.53ms min=177.4ms med=189.5ms max=338.79ms p(90)=197.09ms p(95)=267.94ms  
✓ checks.....: 0.00% ✓ 0 x 0  
data_received.....: 0 B   0 B/s  
data_sent.....: 0 B   0 B/s  
iteration_duration.....: avg=31.76s min=31.76s med=31.76s max=31.76s p(90)=31.76s p(95)=31.76s  
iterations.....: 1 0.031103/s  
vus.....: 1 min=1 max=1  
vus_max.....: 1 min=1 max=1  
  
running (32.2s), 0/1 VUs, 1 complete and 0 interrupted iterations  
ui ✓ [=====] 1 VUs 10s
```

- f. scenario: loop call endpoint `/admin/i-a-m/users/create` with combination insert per field
- g. code:

```
for (let i = 0; i < 10; i++) {
  await page.goto('http://localhost:8080/admin/i-a-m/users/create');

  page.waitForLoadState();

  const mathRandom = Math.random();
  const name = mathRandom + "name-" + i+1;
  const email = mathRandom + "email-" + i+1 + "@mail.com";
  const password = "password-" + i+1;

  page.locator('input[id="data.name"]').type(email)
  page.locator('input[id="data.email"]').type(email)
  page.locator('input[id="data.password"]').type(password)
  page.locator('input[id="data.password_confirmation"]').type(password)

  sleep(2)


  await page.click('.fi-ac-btn-action');

  page.waitForLoadState();
}
```

3. Updating test

- a. endpoint: /admin/i-a-m/users/{id}/edit
- b. total data: data>100000 rows
- c. VUs: 1
- d. Iteration: 10
- e. results:

```
● → stresstest K6_BROWSER_HEADLESS=false K6_BROWSER_ARGS='show-property-changed-rects' k6 run update-test.js
```



```
execution: local  
script: update-test.js  
output: -  
  
scenarios: (100.00%) 1 scenario, 1 max VUs, 40s max duration (incl. graceful stop):  
    * ui: 1 looping VUs for 10s (gracefulStop: 30s)  
  
browser_data_received.....: 28 MB   852 kB/s  
browser_data_sent.....:     237 kB   7.2 kB/s  
browser_http_req_duration...: avg=73.42ms min=17µs med=18.37ms max=491.56ms p(90)=183.67ms p(95)=191.28ms  
browser_http_req_failed....: 0.00% ✓ 0 x 409  
browser_web_vital_cls.....: avg=0.000338 min=0 med=0.000055 max=0.006205 p(90)=0.000055 p(95)=0.000362  
browser_web_vital_fcp.....: avg=337.78ms min=231.9ms med=373.65ms max=460.1ms p(90)=412.86ms p(95)=437.11ms  
browser_web_vital_fid.....: avg=72.72µs min=0s med=99.99µs max=200µs p(90)=100µs p(95)=150µs  
browser_web_vital_inp.....: avg=10.18ms min=0s med=8ms max=16ms p(90)=16ms p(95)=16ms  
browser_web_vital_lcp.....: avg=352.64ms min=248.69ms med=388.95ms max=485.9ms p(90)=424.83ms p(95)=438.4ms  
browser_web_vital_ttfb.....: avg=196.35ms min=165.1ms med=187.74ms max=343.4ms p(90)=215.05ms p(95)=290.29ms  
✓ checks.....: 0.00% ✓ 0 x 0  
data_received.....: 0 B   0 B/s  
data_sent.....: 0 B   0 B/s  
iteration_duration.....: avg=32.74s min=32.74s med=32.74s max=32.74s p(90)=32.74s p(95)=32.74s  
iterations.....: 1 0.030274/s  
vus.....: 1 min=1 max=1  
vus_max.....: 1 min=1 max=1  
  
running (33.0s), 0/1 VUs, 1 complete and 0 interrupted iterations  
ui ✓ [=====] 1 VUs 10s
```

- f. scenario: loop call endpoint `/admin/i-a-m/users/{id}/edit` with combination update per field
- g. code:

```
for (let i = 0; i < 10; i++) {
  await page.goto('http://localhost:8080/admin/i-a-m/users/' + (i+90000) + '/edit')

  page.waitForLoadState();

  const mathRandom = Math.random();
  const name = mathRandom + "name-" + i+1;
  const email = mathRandom + "email-" + i+1 + "@mail.com";
  const password = "password-" + i+1;

  page.locator('input[id="data.name"]').type(email)
  page.locator('input[id="data.email"]').type(email)
  page.locator('input[id="data.password"]').type(password)
  page.locator('input[id="data.password_confirmation"]').type(password)

  sleep(2)

  await page.click('.fi-ac-btn-action');

  page.waitForLoadState();
}
```