CZ3003 - Software System Analysis & Design

Load Test Report

Project Name: Food Wars

Group Name: Team 1

Lab group: TDDP3

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Tests Summary

```
INFO[0251] Preparing the end-of-test summary...           source
=console
    data_received..................: 21 MB  83 kB/s
    data_sent......................: 1.4 MB 5.5 kB/s
    http_req_blocked...............: avg=34.59µs  min=0s
med=0s      max=14.89ms p(90)=0s      p(95)=0s
    http_req_connecting............: avg=27.39µs  min=0s
med=0s      max=12.88ms p(90)=0s      p(95)=0s
    http_req_duration..............: avg=154.93ms min=83.81ms
med=159.76ms max=1.15s  p(90)=174.41ms p(95)=181.22ms
      { expected_response:true }...: avg=154.93ms min=83.81ms
med=159.76ms max=1.15s  p(90)=174.41ms p(95)=181.22ms
    http_req_failed................: 0.00% ✓ 0        ✗ 1440
2
    http_req_receiving.............: avg=145.08µs min=0s
med=0s      max=6.53ms  p(90)=706.63µs p(95)=999.1µs
    http_req_sending...............: avg=30.29µs  min=0s
med=0s      max=23.08ms p(90)=0s      p(95)=0s
    http_req_tls_handshaking.......: avg=0s       min=0s      med=0s      max=0s      p(90)=0s      p(95)=0s
    http_req_waiting...............: avg=154.76ms min=83.12ms med=159.61ms max=1.14s  p(90)=174.22ms p(95)=181.06ms
    http_reqs......................: 14402  57.441673/s
    iteration_duration.............: avg=1.16s    min=1.08s   med=1.16s   max=2.16s  p(90)=1.18s   p(95)=1.18s
    iterations.....................: 14402  57.441673/s
    vus............................: 1       min=1       max=100
    vus_max........................: 159     min=159     max=159
```

All Test Results

```
  scenarios: (100.00%) 5 scenarios, 159 max VUs, 4m40s max dura
tion (incl. graceful stop):
           * load_batches: 10 iterations for each of 50 VUs (ma
xDuration: 1m0s, gracefulStop: 30s)
           * load_stages: Up to 50 looping VUs for 2m0s over 6
stages (gracefulRampDown: 30s, gracefulStop: 30s)
           * smoke_1: 1 looping VUs for 1m0s (gracefulStop: 30s
)
           * smoke_2: 2 looping VUs for 1m0s (gracefulStop: 30s
)
           * stress_stages: Up to 90 looping VUs for 4m10s over
 8 stages (gracefulRampDown: 30s, gracefulStop: 30s)


running (4m10.7s), 000/159 VUs, 14402 complete and 0 interrupte
d iterations
load_batches √ [ 100% ] 50 VUs     0m12.7s/1m0s  500/500 iters
, 10 per VU
load_stages  √ [ 100% ] 00/50 VUs  2m0s
smoke_1      √ [ 100% ] 1 VUs      1m0s
smoke_2      √ [ 100% ] 2 VUs      1m0s
stress_stages √ [ 100% ] 00/90 VUs 4m10s
```

Summary of Load Test

As we are unable to upload the JSON file onto Mediawiki, we have included it here as text. For the json file, please access using https://github.com/DavidTaapy/CZ3003-TDDP3-Clowns/blob/main/Reports/Lab%204/Load%20Test%20Results/Summary.json

```json
{
  "root_group": {
    "checks": [],
    "name": "",
    "path": "",
    "id": "d41d8cd98f00b204e9800998ecf8427e",
    "groups": []
  },
  "options": {
    "summaryTrendStats": [
      "avg",
      "min",
      "med",
      "max",
      "p(90)",
      "p(95)"
    ],
    "summaryTimeUnit": "",
    "noColor": false
  },
  "state": {
    "isStdOutTTY": true,
    "isStdErrTTY": true,
    "testRunDurationMs": 250194.194
  },
  "metrics": {
    "http_reqs": {
      "values": {
        "count": 14254,
        "rate": 56.971745715250286
      },
      "type": "counter",
      "contains": "default"
    },
    "http_req_tls_handshaking": {
      "type": "trend",
      "contains": "time",
      "values": {
        "p(95)": 0,
        "avg": 0,
        "min": 0,
        "med": 0,
        "max": 0,
        "p(90)": 0
      }
```

```json
        },
        "http_req_sending": {
         "type": "trend",
         "contains": "time",
         "values": {
          "avg": 0.028600308685281323,
          "min": 0,
          "med": 0,
          "max": 11.8619,
          "p(90)": 0,
          "p(95)": 0.1669
         }
        },
        "http_req_blocked": {
         "type": "trend",
         "contains": "time",
         "values": {
          "p(95)": 0,
          "avg": 0.024457008559000983,
          "min": 0,
          "med": 0,
          "max": 13.4854,
          "p(90)": 0
         }
        },
        "iteration_duration": {
         "type": "trend",
         "contains": "time",
         "values": {
          "min": 1087.8171,
          "med": 1175.9911,
          "max": 2336.2778,
          "p(90)": 1202.7622,
          "p(95)": 1214.98867,
          "avg": 1173.60858036341
         }
        },
        "http_req_duration{expected_response:true}": {
         "type": "trend",
         "contains": "time",
         "values": {
          "avg": 167.88526984004477,
          "min": 86.6166,
          "med": 169.0083,
          "max": 1324.5617,
          "p(90)": 197.27727000000004,
          "p(95)": 210.42109
         }
        },
        "data_sent": {
         "type": "counter",
```

```
    "contains": "data",
   "values": {
     "count": 1354130,
     "rate": 5412.315842948778
    }
  },
  "vus": {
   "type": "gauge",
   "contains": "default",
   "values": {
    "value": 1,
    "min": 1,
    "max": 100
   }
  },
  "http_req_receiving": {
   "type": "trend",
   "contains": "time",
   "values": {
    "p(95)": 1.0005349999999997,
    "avg": 0.18874485056826124,
    "min": 0,
    "med": 0,
    "max": 3.4957,
    "p(90)": 0.95537
   }
  },
  "http_req_connecting": {
   "type": "trend",
   "contains": "time",
   "values": {
    "min": 0,
    "med": 0,
    "max": 13.4854,
    "p(90)": 0,
    "p(95)": 0,
    "avg": 0.01760298161919462
   }
  },
  "data_received": {
   "type": "counter",
   "contains": "data",
   "values": {
    "count": 20511506,
    "rate": 81982.34208424516
   }
  },
  "http_req_waiting": {
   "type": "trend",
   "contains": "time",
   "values": {
```

```json
      "p(90)": 197.12181,
      "p(95)": 210.233735,
      "avg": 167.6679246807916,
      "min": 85.6167,
      "med": 168.79135000000002,
      "max": 1323.5649
     }
    },
    "http_req_failed": {
     "type": "rate",
     "contains": "default",
     "values": {
      "passes": 0,
      "fails": 14254,
      "rate": 0
     }
    },
    "iterations": {
     "type": "counter",
     "contains": "default",
     "values": {
      "count": 14254,
      "rate": 56.971745715250286
     }
    },
    "vus_max": {
     "type": "gauge",
     "contains": "default",
     "values": {
      "min": 159,
      "max": 159,
      "value": 159
     }
    },
    "http_req_duration": {
     "type": "trend",
     "contains": "time",
     "values": {
      "avg": 167.88526984004477,
      "min": 86.6166,
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