**PERFORMANCE TEST REPORT FOR ICTAK ALUMNI JOB PORTAL**

[**https://blush-harp-seal-hose.cyclic.app/**](https://blush-harp-seal-hose.cyclic.app/)

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**Table of Contents**

| **Sl NO** | **TITLE** | **PAGE NO** |
| --- | --- | --- |
| 1. | Performance Test Context | 3 |
| 2. | Description of the Application | 3 |
| 3. | Performance Test Goals and Requirements | 3 |
| 3.1 Business Transactions | 3 |
| 3.2 Transaction Steps(Timing Points) | 3 |
| 4. | Performance Test Results | 4 |
| 4.1 Overall Transactional Summary | 6 |
| 4.2. Transactional Steps and Http Requests Transactions Summary | 8 |
| 5 | Summary | 13 |

**1.Performance Test Context**

A performance Test was conducted for ICTAK Alumni Job Portal (https://blush-harp-seal-hose.cyclic.app/) website with few dynamic as well as static pages. The basic functionality of the website is to enable ICTAK Alumnis to apply for various jobs posted in the site which are posted by different users like admin, employers or faculties.

**2. Description of the application**

**ICTAK Alumni Job Portal** is a website for the ICTAK Alumnis to register for different job openings posted on the site. Four types of users are allowed in the system called Admin, Employer, Faculty and Alumni. These four modules are integrated to fulfil the entire system functionalities. The system test of the ICTAK Alumni Job Portal website will include Sign Up and Login Modules for Alumni, Faculty, Employers, Admin. Admin can Add Alumni, Faculty and Employer and Create new post, View all posts, can approve requests from alumni and can approve jobs. The Employer can post job details, view and edit new job details and view resumes of approved posts. The faculty can view and create new posts. Students have to create a profile for themselves as Alumni.

**3.Performance Test Goals and Requirements**

The goal of the performance testing is to verify whether the website is meeting the minimum performance requirements or not. The performance requirements are listed below:

The performance testing for the website <https://blush-harp-seal-hose.cyclic.app/> is planned to verify the response times and throughput of the transactions with a maximum load of 10 concurrent users.

The business transactions and its associated steps with expected response time requirements are listed below.

**3.1 Business Transactions**

| **Sl No.** | **Transaction Name** | **Description** |
| --- | --- | --- |
| 1 | Launch | Navigate to home page |
| 2 | Employer Signup | Navigate to employer signup page from home page |
| 3 | Employer Login | Navigate to employer login page from signup page |
| 4 | Employer Create Post and Logout | Navigate to employer dashboard, enter the job post details and navigate to home page after clicking logout |
| 5 | Alumni SignUp | Navigate to alumni signup page from home page |
| 6 | Alumni LogIn | Navigate to alumni login page from signup page |
| 7 | Alumni Apply Job and Logout | Navigate to alumni dashboard, click ‘apply job’ button and navigate to home page after clicking logout |
| 8 | Faculty Signup | Navigate to faculty signup page from home page |
| 9 | Faculty Login and Logout | Navigate to faculty login page from signup page, enter the faculty dashboard, click ‘Create New Post’ button, click faculty logout and navigate to home page |

**3.2 Transaction Steps(Timing Points)**

**3.2.1 Lunch**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Launch the home page | Navigate to https://blush-harp-seal-hose.cyclic.app/ | <1500ms |

**3.2.2 Employer Signup**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load SignUp Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Employer and Click signup | <1500ms |

**3.2.3 Employer Login**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load Login Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Employer and Click signup then navigate to login page | <1500ms |

**3.2.4 Employer Create Post and Logout**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load create post | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Employer, login to employer dashboard and click on create post | <1500ms |
| Logout | Click on logout | <1500ms |

**3.2.5 Alumni Signup**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load SignUp Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Alumni and Click signup | <1500ms |

**3.2.6 Alumni Login**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load Login Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Alumni and Click signup then navigate to login page | <1500ms |

**3.2.7 Alumni Apply Job and Logout**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load apply post | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Employer, login to alumni dashboard and click on apply for a post | <1500ms |
| Logout | Click on logout | <1500ms |

**3.2.8 Faculty Signup**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load SignUp Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as Faculty and Click signup | <1500ms |

**3.2.9 Faculty Login and Logout**

| Step Name | Description | Response time requirement |
| --- | --- | --- |
| Load Login Page | Navigate to <https://blush-harp-seal-hose.cyclic.app/> ,click on Login as faculty and Click signup then navigate to login page | <1500ms |
| Logout | Click on logout | <1500ms |

**4. Performance Test Results**

Performance test was conducted on ICTAK Alumni Job Portal with loads 5 and 10 users.

4.1 **Overall Transactional Summary**

With load 5 Users:

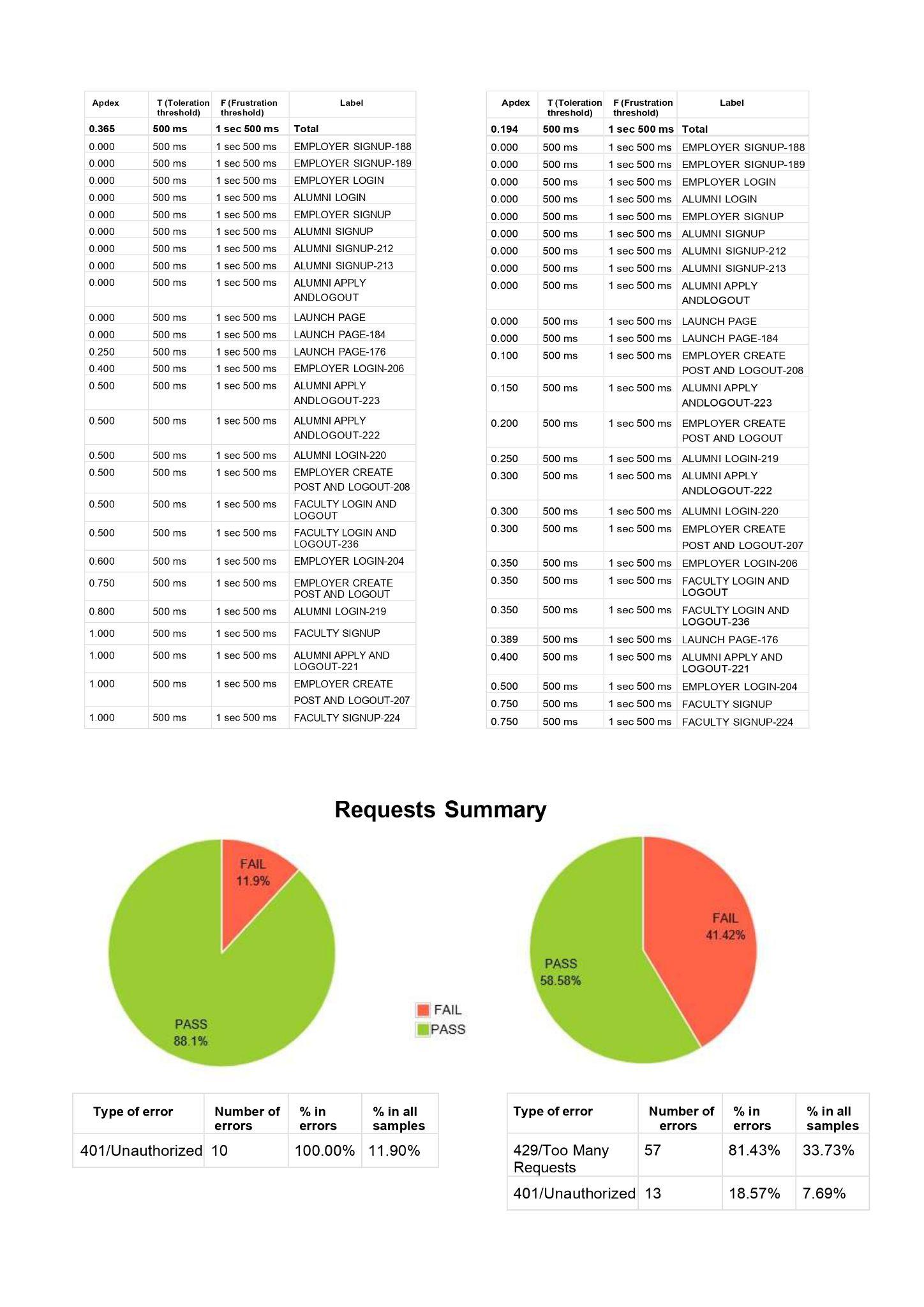
| **Sl No.** | **Business Transaction Name** | **Total Transactions** | **Passed Transactions** | **Failed Transactions** | **%Failed** |
| --- | --- | --- | --- | --- | --- |
| 1 | Launch | 14 | 14 | 0 | 0 |
| 2 | Employer Signup | 20 | 10 | 10 | 50 |
| 3 | Employer Login | 15 | 15 | 0 | 0 |
| 4 | Employer Create Post and Logout | 20 | 20 | 0 | 0 |
| 5 | Alumni SignUp | 20 | 10 | 10 | 50 |
| 6 | Alumni LogIn | 15 | 15 | 0 | 0 |
| 7 | Alumni Apply Job and Logout | 15 | 15 | 0 | 0 |
| 8 | Faculty Signup | 10 | 10 | 0 | 0 |
| 9 | Faculty Login and Logout | 10 | 10 | 0 | 0 |

With Load 10 Users:

| **Sl No.** | **Business Transaction Name** | **Total Transactions** | **Passed Transactions** | **Failed Transactions** | **%Failed** |
| --- | --- | --- | --- | --- | --- |
| 1 | Launch | 29 | 29 | 0 | 0 |
| 2 | Employer Signup | 40 | 20 | 20 | 50 |
| 3 | Employer Login | 30 | 20 | 10 | 33.33 |
| 4 | Employer Create Post and Logout | 40 | 16 | 24 | 60 |
| 5 | Alumni SignUp | 40 | 10 | 30 | 75 |
| 6 | Alumni LogIn | 30 | 15 | 15 | 50 |
| 7 | Alumni Apply Job and Logout | 40 | 16 | 24 | 60 |
| 8 | Faculty Signup | 20 | 20 | 0 | 0 |
| 9 | Faculty Login and Logout | 20 | 14 | 6 | 30 |

**4.2.** **Transactional Steps and Http Requests Transactions Summary**

The data such as tables and graphs shown below gives the comparison between two thread groups having users 5 and 10 respectively. During the performance test we get the pass percentage as 88.10% with five users and 58.58% with ten users.



**STATISTICS FOR THREAD GROUP OF 10 USERS**

| **Statistics** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Requests** | **Executions** | | | **Response Times (ms)** | | | | | | | **Throughput** | **Network (KB/sec)** | |
| **Label** | **#Samples** | **FAIL** | **Error %** | **Average** | **Min** | **Max** | **Median** | **90th pct** | **95th pct** | **99th pct** | **Transactions/s** | **Received** | **Sent** |
| **Total** | **169** | **70** | **41.42%** | **1121.03** | **148** | **5781** | **871** | **2480** | **3482.5** | **5775.4** | **7.28** | **285.31** | **4.13** |
| ALUMNI APPLY AND LOGOUT | 10 | 9 | 90.00% | 2230 | 1087 | 3362 | 2249 | 3290.5 | 3362 | 3362 | 1.29 | 184.78 | 1.78 |
| ALUMNI APPLY AND LOGOUT-221 | 10 | 5 | 50.00% | 461.7 | 309 | 580 | 437 | 579.9 | 580 | 580 | 1.82 | 0.76 | 0.87 |
| ALUMNI APPLY AND LOGOUT-222 | 10 | 3 | 30.00% | 1050.6 | 355 | 1525 | 1215 | 1521.3 | 1525 | 1525 | 1.63 | 163.53 | 0.75 |
| ALUMNI APPLY AND LOGOUT-223 | 10 | 7 | 70.00% | 717.7 | 223 | 1692 | 417.5 | 1643.7 | 1692 | 1692 | 1.75 | 75.22 | 0.78 |
| ALUMNI LOGIN | 10 | 6 | 60.00% | 1637 | 436 | 2641 | 1802 | 2638.9 | 2641 | 2641 | 1.38 | 118.99 | 1.46 |
| ALUMNI LOGIN-219 | 10 | 5 | 50.00% | 685.8 | 181 | 1206 | 555 | 1204.6 | 1206 | 1206 | 1.43 | 0.5 | 0.86 |
| ALUMNI LOGIN-220 | 10 | 4 | 40.00% | 951.2 | 223 | 1467 | 1325 | 1465.2 | 1467 | 1467 | 1.65 | 141.91 | 0.76 |
| ALUMNI SIGNUP | 20 | 15 | 75.00% | 1518.15 | 317 | 4300 | 1168 | 3487.7 | 4259.45 | 4300 | 2.11 | 0.55 | 1.38 |
| ALUMNI SIGNUP-212 | 10 | 5 | 50.00% | 1818.6 | 317 | 3489 | 1708 | 3487.7 | 3489 | 3489 | 1.45 | 0.38 | 0.85 |
| ALUMNI SIGNUP-213 | 10 | 10 | 100.00% | 1217.7 | 391 | 4300 | 1168 | 3996.6 | 4300 | 4300 | 1.25 | 0.32 | 0.9 |
| EMPLOYER CREATE POST AND LOGOUT | 20 | 12 | 60.00% | 807.15 | 174 | 2540 | 357.5 | 2412.5 | 2533.65 | 2540 | 3.76 | 134.97 | 2.78 |
| EMPLOYER CREATE POST AND LOGOUT-207 | 10 | 7 | 70.00% | 452.3 | 176 | 971 | 348.5 | 961 | 971 | 971 | 3.6 | 0.83 | 3.71 |
| EMPLOYER CREATE POST AND LOGOUT-208 | 10 | 5 | 50.00% | 1162 | 174 | 2540 | 1054 | 2527.3 | 2540 | 2540 | 2.01 | 143.99 | 0.9 |
| EMPLOYER LOGIN | 10 | 4 | 40.00% | 1503.3 | 344 | 2003 | 1657.5 | 2000.8 | 2003 | 2003 | 2.57 | 293.82 | 3.33 |
| EMPLOYER LOGIN-204 | 10 | 4 | 40.00% | 396.2 | 170 | 640 | 439.5 | 626.3 | 640 | 640 | 2.92 | 1.22 | 1.77 |
| EMPLOYER LOGIN-206 | 10 | 2 | 20.00% | 1107.1 | 174 | 1554 | 1262 | 1544.5 | 1554 | 1554 | 3.08 | 350.47 | 2.12 |
| EMPLOYER SIGNUP | 20 | 10 | 50.00% | 2171.6 | 168 | 5781 | 1494 | 5668.5 | 5780.6 | 5781 | 3.25 | 0.97 | 2.1 |
| EMPLOYER SIGNUP-188 | 10 | 0 | 0.00% | 4015.3 | 2563 | 5781 | 4103 | 5780.2 | 5781 | 5781 | 1.68 | 0.52 | 0.98 |
| EMPLOYER SIGNUP-189 | 10 | 10 | 100.00% | 327.9 | 168 | 425 | 335.5 | 424.8 | 425 | 425 | 2.8 | 0.81 | 1.98 |
| FACULTY LOGIN AND LOGOUT | 10 | 3 | 30.00% | 961.4 | 173 | 1381 | 1197 | 1380.7 | 1381 | 1381 | 1.86 | 186.34 | 0.83 |
| FACULTY LOGIN AND LOGOUT-236 | 10 | 3 | 30.00% | 961.4 | 173 | 1381 | 1197 | 1380.7 | 1381 | 1381 | 1.86 | 186.3 | 0.83 |
| FACULTY SIGNUP | 10 | 0 | 0.00% | 593.6 | 148 | 1400 | 394.5 | 1389.4 | 1400 | 1400 | 1.79 | 0.48 | 0.83 |
| FACULTY SIGNUP-224 | 10 | 0 | 0.00% | 593.6 | 148 | 1400 | 394.5 | 1389.4 | 1400 | 1400 | 1.79 | 0.48 | 0.83 |
| LAUNCH PAGE | 10 | 0 | 0.00% | 3132.5 | 2861 | 3442 | 3128 | 3435.4 | 3442 | 3442 | 2.62 | 380.85 | 2.36 |
| LAUNCH PAGE-176 | 9 | 0 | 0.00% | 1245.56 | 867 | 1598 | 1242 | 1598 | 1598 | 1598 | 4.74 | 16.76 | 2.14 |
| LAUNCH PAGE-184 | 10 | 0 | 0.00% | 1905.3 | 1828 | 1994 | 1895.5 | 1991.7 | 1994 | 1994 | 4.97 | 705.1 | 2.22 |

**STATISTICS FOR THREAD GROUP OF 10 USERS**

| **Statistics** | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Requests** | **Executions** | | | **Response Times (ms)** | | | | | | | **Throughput** | **Network (KB/sec)** | |
| **Label** | **#Samples** | **FAIL** | **Error %** | **Average** | **Min** | **Max** | **Median** | **90th pct** | **95th pct** | **99th pct** | **Transactions/s** | **Received** | **Sent** |
| **Total** | **84** | **10** | **11.90%** | **1104.82** | **136** | **4472** | **1019** | **2601.5** | **2992.25** | **4472** | **4.11** | **248.05** | **2.33** |
| ALUMNI APPLY AND LOGOUT | 5 | 0 | 0.00% | 2319.4 | 2167 | 2469 | 2336 | 2469 | 2469 | 2469 | 1.21 | 350.86 | 1.67 |
| ALUMNI APPLY AND LOGOUT-221 | 5 | 0 | 0.00% | 341 | 315 | 363 | 350 | 363 | 363 | 363 | 2.19 | 1.39 | 1.05 |
| ALUMNI APPLY AND LOGOUT-222 | 5 | 0 | 0.00% | 1070.6 | 985 | 1204 | 1059 | 1204 | 1204 | 1204 | 1.69 | 244.55 | 0.77 |
| ALUMNI APPLY AND LOGOUT-223 | 5 | 0 | 0.00% | 907.8 | 824 | 1029 | 845 | 1029 | 1029 | 1029 | 1.79 | 258.63 | 0.8 |
| ALUMNI LOGIN | 5 | 0 | 0.00% | 1805.8 | 1614 | 2026 | 1766 | 2026 | 2026 | 2026 | 1.25 | 181.89 | 1.33 |
| ALUMNI LOGIN-219 | 5 | 0 | 0.00% | 488.6 | 445 | 570 | 466 | 570 | 570 | 570 | 1.76 | 0.86 | 1.06 |
| ALUMNI LOGIN-220 | 5 | 0 | 0.00% | 1317.2 | 1148 | 1456 | 1321 | 1456 | 1456 | 1456 | 1.46 | 211.38 | 0.67 |
| ALUMNI SIGNUP | 10 | 5 | 50.00% | 1649.3 | 327 | 3665 | 1535 | 3619 | 3665 | 3665 | 1.9 | 0.59 | 1.24 |
| ALUMNI SIGNUP-212 | 5 | 0 | 0.00% | 2917.6 | 2515 | 3665 | 2642 | 3665 | 3665 | 3665 | 1.06 | 0.33 | 0.62 |
| ALUMNI SIGNUP-213 | 5 | 5 | 100.00% | 381 | 327 | 555 | 341 | 555 | 555 | 555 | 1.85 | 0.57 | 1.34 |
| EMPLOYER CREATE POST AND LOGOUT | 10 | 0 | 0.00% | 792 | 364 | 1189 | 815.5 | 1188.4 | 1189 | 1189 | 3.19 | 230.51 | 2.36 |
| EMPLOYER CREATE POST AND LOGOUT-207 | 5 | 0 | 0.00% | 415.4 | 364 | 488 | 409 | 488 | 488 | 488 | 2.56 | 0.72 | 2.64 |
| EMPLOYER CREATE POST AND LOGOUT-208 | 5 | 0 | 0.00% | 1168.6 | 1143 | 1189 | 1183 | 1189 | 1189 | 1189 | 1.89 | 272.65 | 0.84 |
| EMPLOYER LOGIN | 5 | 0 | 0.00% | 1814.2 | 1597 | 2041 | 1758 | 2041 | 2041 | 2041 | 1.49 | 214.73 | 1.93 |
| EMPLOYER LOGIN-204 | 5 | 0 | 0.00% | 492 | 431 | 509 | 507 | 509 | 509 | 509 | 2.22 | 1.24 | 1.34 |
| EMPLOYER LOGIN-206 | 5 | 0 | 0.00% | 1322.2 | 1092 | 1534 | 1303 | 1534 | 1534 | 1534 | 1.76 | 252.18 | 1.21 |
| EMPLOYER SIGNUP | 10 | 5 | 50.00% | 1822.2 | 406 | 4472 | 1675 | 4327.6 | 4472 | 4472 | 1.99 | 0.62 | 1.29 |
| EMPLOYER SIGNUP-188 | 5 | 0 | 0.00% | 3213.8 | 2831 | 4472 | 2885 | 4472 | 4472 | 4472 | 1.11 | 0.34 | 0.65 |
| EMPLOYER SIGNUP-189 | 5 | 5 | 100.00% | 430.4 | 406 | 518 | 410 | 518 | 518 | 518 | 2.32 | 0.72 | 1.64 |
| FACULTY LOGIN AND LOGOUT | 5 | 0 | 0.00% | 1088.6 | 990 | 1244 | 1035 | 1244 | 1244 | 1244 | 1.68 | 243.31 | 0.75 |
| FACULTY LOGIN AND LOGOUT-236 | 5 | 0 | 0.00% | 1088.6 | 990 | 1244 | 1035 | 1244 | 1244 | 1244 | 1.68 | 243.31 | 0.75 |
| FACULTY SIGNUP | 5 | 0 | 0.00% | 165 | 136 | 219 | 157 | 219 | 219 | 219 | 2.57 | 0.68 | 1.19 |
| FACULTY SIGNUP-224 | 5 | 0 | 0.00% | 165 | 136 | 219 | 157 | 219 | 219 | 219 | 2.57 | 0.68 | 1.19 |
| LAUNCH PAGE | 5 | 0 | 0.00% | 3036.4 | 2621 | 3401 | 3143 | 3401 | 3401 | 3401 | 1.41 | 206.07 | 1.27 |
| LAUNCH PAGE-176 | 4 | 0 | 0.00% | 1464.75 | 1173 | 1708 | 1489 | 1708 | 1708 | 1708 | 2.29 | 8.09 | 1.03 |
| LAUNCH PAGE-184 | 5 | 0 | 0.00% | 1669.4 | 1622 | 1739 | 1648 | 1739 | 1739 | 1739 | 2.84 | 405.84 | 1.27 |

While doing the test, we got around 90% error as ‘429/Too many requests’ and remaining as ‘401/unauthorised’.

**5. Summary**

The performance test team has found issues related to performance of the website during preliminary steps. The issue faced in the SignUp module is related to OTP verification and the major issue while doing performance testing is ‘Too many requests’.