

Performance Test Results

Translink

EIAM Performance Test Results

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This report provides a summary of the results of performance tests conducted for the EIAM on the Staging environment for Translink.

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# Terms and Acronyms

This section contains terminology used in this document.

|  |  |
| --- | --- |
| Term or abbreviation | Definition |
| Scenario | A scenario defines the events that occur during each testing session. For example, a scenario defines and controls the number of users to emulate, the actions that they perform, and the machines on which they run their emulations |
| Virtual Users (VU) | VU are used as a replacement for human users. When you run a scenario, VU emulate the actions of human users working with an application |
| Transaction | An action or a set of actions used to measure the performance of the server |
| Response Time | The time taken to perform a transaction |
| 95th percentile | The time which includes 95% of the fastest transactions |
| Hits | The number of HTTP requests made by VU to the Web server |
| Load Test | Tests a system's ability to handle a heavy workload. A load test simulates multiple transactions or users interacting with the computer at the same time |

# Performance Testing Objectives

* To ensure front end processing time /backend processing time of the all the in-scope transactions is within the threshold limit.
* Check if the system corresponds to its performance requirements.
* To evaluate and measure the performance of the in scope transactions.
* To evaluate the performance of the system when subjected to anticipated concurrent user load.
* Find possible bottlenecks in the system’s performance.

# Performance Testing Methodology

14 performance testing scripts were created to realistically simulate multiple users working with EIAM portal, all the scripts were developed via Apache JMeter performance testing tool. Several single user tests / load tests for the following scenarios were executed to achieve the above mentioned performance objectives.

**Single User Test (Sequential Vusers Test):** To evaluate single client performance (Scenarios 14, 15, 18, 21, 27.1, 28, 29.1, 30.1, 31.1 and 32.1). These scripts were launched for single virtual user achieving 10 iterations and then the average performance metrics was calculated.

**Load Test (Concurrent Vusers Test):** To evaluate the performance under concurrent load condition (Scenarios 3.1-4, 5, 6, 8.2, 27.2, 29.2, 30.2, 31.2 and 32.2). These scripts were launched for 10 or 50 concurrent users working with portal and then the average performance metrics was calculated.

To make scripts more realistic, all the users were waiting for several seconds after each action (5-10-15 seconds).

Detailed description of the test scenarios can be found in ‘Test Scenarios’ section.

In addition to the standard performance metrics (e.g., response times, hits per second, transactions per second) the following metrics were calculated (if applicable):

* **Back-end processing time** 
  + Start Time – When click ‘Submit’ button on any functionality
  + End Time – From the end time at the ‘AD’ or reported end time of task completion
* **Front-end user experience time** 
  + Start Time – When click ‘Submit’ button on any functionality
  + End Time – When ‘Task Completed’ or any other processing message appears on the application screen

# Test Scenarios

In this section you can find descriptions of the test scenarios.

**Scenario 3: EIAM Data Publishing to PS-EIAM Interface (Write Back)**

3.1 Modify 100 work emails of some employees

3.2 Modify 100 Work Phone (Landline) of some employees

3.3 Modify 100 Work Fax of some employees

3.4 Modify 100 Work Cell of some employees

**Scenario 5: Data Consumption by EIAM from PS-EIAM Interface (Forward) - Create 150 new employee records from the interface table**

**Scenario 6: Data Consumption by EIAM from PS-EIAM Interface (Forward) - Update 150 employee payroll status**

**Scenario 8: Creating New Employee Account - Create a new employee account via interface table (Employee is Hired, Payroll Status ="A")**

8.1 Create 10 employee accounts simultaneously

8.2 Create 10 employee accounts sequentially

**Scenario 14: Manual Disabling of an Employee Account - Update 10 employee accounts sequentially via interface table**

Steps:

1. Navigate to Home Page
2. Login
3. Click Manage Employees
4. Click Disable Employee
5. Apply filter by employee last name
6. Click Select for the employee
7. Type Reason in textbox 8. Click Submit
8. Click OK on Task Completed
9. Log out

**Scenario 15: Manual Terminating of an Employee Account - Update 10 employee accounts sequentially via interface table**

**Scenario 18: Creating Contractor Account - Create 10 Contractor accounts sequentially from EIAM**

Steps:

1. Navigate to Home Page
2. Login
3. Click Users
4. Click Manage Contractors
5. Click Create Contractor
6. Fill in all required fields
7. Click Submit
8. Click OK on Task Completed
9. Log out

**Scenario 21: Terminating Contractor Account Manually - Terminate 10 Contractor accounts sequentially from EIAM**

Steps:

1. Navigate to Home Page
2. Login
3. Click Users
4. Click Manage Contractors
5. Click Terminate Contractor
6. Fill in all required fields
7. Click Submit
8. Click OK on Task Completed
9. Log out

**Scenario 27: Changing Password through the EIAM portal**

27.1 10 sequential users are changing password through the EIAM portal

27.2 50 concurrent users are changing password through the EIAM portal

Steps:

1. Navigate to Home Page
2. Login
3. Click Change My Password
4. Enter and Submit new password
5. Click OK on Task Completed
6. Log out
7. Enter and Submit new password
8. Click OK on Task Completed
9. Log out

**Scenario 28: Reset Password - Self Serve – Internal - 10 sequential users are resetting password from Internal Password Reset Page**

Steps:

1. Navigate to Internal Password Reset Page
2. Enter and submit user id
3. Click Change My Password
4. Submit answer to security question 1
5. Submit answer to security question 2
6. Submit answer to security question 3
7. Enter and submit new password
8. Click OK on Task Completed

**Scenario 29: Reset Password - Self Serve – External**

29.1 10 sequential users are resetting password from External Password Reset Page

29.2 50 concurrent users are resetting password from External Password Reset Page

Steps:

1. Navigate to External Password Reset Page
2. Enter and submit user id
3. Click Change My Password
4. Submit answer to security question 1
5. Submit answer to security question 2
6. Submit answer to security question 3
7. Enter and submit new password
8. Click OK on Task Completed

**Scenario 30: Reset Password - Service Desk**

30.1 10 sequential service desks are resetting password through the EIAM portal

30.2 10 concurrent service desks are resetting password through the EIAM portal

Steps:

1. Navigate to Home Page
2. Login
3. Click Users
4. Click Change User Password
5. Search for user by id
6. Select user
7. Enter and Submit new password
8. Click OK on Task Completed
9. Log out

**Scenario 31: Unlock Account - Service Desk - unlock 1 user account that was previously locked**

31.1 10 sequential service desks are unlocking 1 user account

31.2 10 concurrent service desks are unlocking 1 user account

Steps:

1. Navigate to Home Page
2. Login
3. Click Users
4. Click Unlock Change User AD Password
5. Select user
6. Click on Active Directory account button
7. Click on Select <username> checkbox
8. Click on Unlock button
9. Click Yes
10. Click Submit
11. Click OK on Task Completed
12. Log out

**Scenario 32: Setting Security Q&A's - Users accessing Security Q and A screen, answering security questions then submit.**

32.1 10 sequential users are setting security Q&A's

32.2 50 concurrent users are setting security Q&A's

Steps:

1. Navigate to Home Page
2. Login
3. Click Users
4. Click Set My Security Q&A
5. Select 5 different questions from dropdowns
6. Enter 5 answers
7. Submit form
8. Click OK on Task Completed
9. Log out

**Scenario A: Explore & Correlate – Data Consumption by EIAM from AD-EIAM interface**

Modify 100 user accounts in Active Directory

1. Modify 80 employee accounts
2. Set 20 contractor accounts to expire overnight

# Testing Results

This section presents performance testing results.

14 Performance testing scenarios have been devised to realistically simulate users working with the EIAM Portal. These scenarios are intended to exercise the STG environment in order to determine the overall behavior and any thresholds for peak and maximum capacity.

All scenarios will use scripts developed with Apache JMeter (an open-source performance testing tool).

Each scenario contains general information with measured performance metrics, frontend processing time, backend processing time, transaction statistics and the list of UserId under test

Executive Summary Table

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Executive Summary Table | | | | Test Result | | | Thresholds (secs) |
| Scenario  No. | Test Scenarios | Test Condition | Performance metrics | Min (secs) | Avg (secs) | Max (secs) |
| 3.1 | Modify 100 work emails of some employees | Single user executing a bulk task | Frontend User Experience Time | - | 19.2 | - | 21-23 |
| Backend Processing Time | - | ~15 | - | ~3 min  34-39 secs |
| 3.2 | Modify 100 work phone of some employees | Single user executing a bulk task | Frontend User Experience Time | - | 17.6 | - | 21-23 |
| Backend Processing Time | - | ~15 | - | ~3 min  34-39 secs |
| 3.3 | Modify 100 work fax of some employees | Single user executing a bulk task | Frontend User Experience Time | - | 19 | - | 21-23 |
| Backend Processing Time | - | ~15 | - | ~3 min  34-39 secs |
| 3.4 | Modify 100 work cell of some employees | Single user executing a bulk task | Frontend User Experience Time | - | 18.8 | - | 21-23 |
| Backend Processing Time | - | ~15 | - | ~3 min  34-39 secs |
| 5 | Create 150 new employee records | Single user executing a bulk task | Backend Processing Time | - | ~7 min | - | 20 min 18 secs |
| Frontend User Experience Time | - | 22.7 | - | 22 |
| 6 | Modify 100 work emails of some employees | Single user executing a bulk task | Backend Processing Time | - | ~6 min | - | 20 min 18 secs |
| Frontend User Experience Time | - | 22.2 | - | 22 |
| 8.1 | Create a new employee account via interface table (Employee is Hired, Payroll Status ="A") | 10 Concurrent users (Single user executing a bulk task) | Backend Processing Time | - | ~1 min 15 secs | - | ~1 min 17 secs |
| Frontend User Experience Time | - | 21.2 | - | 22 |
| 8.2 | Create a new employee account via interface table (Employee is Hired, Payroll Status ="A") | 10 sequential users | Backend Processing Time | 4 | 4.4 | 6 | 7.8 – 8 |
| Frontend User Experience Time | 6.1 | 7.9 | 12.7 | 11.9 -14 |
| 14 | Disabling of an Employee Account | 10 sequential users | Backend Processing Time | 2 | 2.9 | 3 | 5.3 – 7 |
| Frontend User Experience Time | 4 | 4.9 | 5.8 | 6.7 - 9.9 |
| 15 | Terminating of an Employee Account via interface table | 10 sequential users | Backend Processing Time | 4 | 4.1 | 5 | 22.3-25 |
| Frontend User Experience Time | 5 | 5.9 | 7.1 | 21.9-25 |
| 18 | Creating Contractor Account | 10 sequential users | Backend Processing Time | 2 | 2.7 | 4 | 5.4-7 |
| Frontend User Experience Time | 4 | 4.4 | 5.3 | 7.3-9.5 |
| 21 | Terminate Contractor Account | 10 sequential users | Backend Processing Time | 5 | 5.4 | 6 | 7.6-12 |
| Frontend User Experience Time | 7.7 | 8 | 8.4 | 9.7-14.5 |
| 27.1 | Changing Password through the EIAM portal | 10 sequential users | Backend Processing Time | 1 | 1.2 | 2 | 1.4 - 2 |
| Frontend User Experience Time | 2.6 | 3.2 | 4.5 | 5.1 - 5.5 |
| 27.2 | Changing Password through the EIAM portal | 50 concurrent users | Backend Processing Time | 1 | 2.2 | 3 | 21.9-34 |
| Frontend User Experience Time | 2.2 | 2.6 | 3.7 | 20.3-29.7 |
| 28 | Reset Password - Self Serve - Internal | 10 sequential users | Backend Processing Time | 2 | 2.1 | 3 | 2.3 - 3 |
| Frontend User Experience Time | 3.4 | 3.8 | 4.4 | 5.7 – 6.3 |
| 29.1 | Reset Password - Self Serve - External | 10 sequential users | Backend Processing Time | 1 | 1.4 | 2 | 2.1 - 3 |
| Frontend User Experience Time | 0.6 | 3.3 | 4.7 | 6.1 – 9.3 |
| 29.2 | Reset Password - Self Serve - External | 50 concurrent users | Backend Processing Time | 1 | 1.6 | 3 | 1.4 - 2 |
| Frontend User Experience Time | 3.3 | 4.9 | 20 | 2.9 – 5 |
| 30.1 | Reset Password - Service Desk | 10 sequential users | Backend Processing Time | 2 | 2.1 | 3 | 3 – 5 |
| Frontend User Experience Time | 5 | 5.2 | 5.8 | 7.1 – 8.7 |
| 30.2 | Reset Password - Service Desk | 10 concurrent users | Backend Processing Time | 2 | 4 | 6 | 7.6 - 11.04 |
| Frontend User Experience Time | 5.7 | 9.7 | 13 | 7.4 – 11.3 |
| 31.1 | Unlock Account - Service Desk | 10 sequential users | Backend Processing Time | 1 | 1.4 | 2 | 1.8 - 2.0 |
| Frontend User Experience Time | 2.3 | 3 | 3.2 | 3.1 - 4.04 |
| 31.2 | Unlock Account - Service Desk | 10 concurrent users | Backend Processing Time | 1 | 2.5 | 5 | 6.2 - 7.04 |
| Frontend User Experience Time | 2.5 | 3.9 | 6.5 | 2.3 – 8.0 |
| 32.1 | Setting Security Q&A's | 10 sequential users | Time taken for the Set Security QA page to load | 0.9 | 1.1 | 1.8 | 2.0 - 5.0 |
| Time it takes from Submitting to save questions in User Store | 1.1 | 1.6 | 2.4 | 2.0 - 5.0 |
| 32.2 | Setting Security Q&A's | 50 concurrent users | Time taken for the Set Security QA page to load | 0.9 | 1.3 | 1.7 | 2.0 - 5.0 |
| Time it takes from Submitting to save questions in User Store | 1.2 | 2.1 | 4.2 | 2.0 - 5.0 |
| A | Explore & Correlate: Data Consumption by EIAM from AD-EIAM interface | Single user executing a bulk task | Backend Processing Time | - | ~ 6 min | - | Under 1 hour |
| Frontend User Experience Time | - | 21.8 | - | Not Available |

Scenario 3.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Modify 100 work emails of some employees |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 05:03:50 PM |
| End Time | 01/10/2019 05:04:30 PM |
| Backend Processing Time | ~15 secs |
| Frontend User Experience Time | 19.2 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~15 | ~3 min 34-39 secs |
| Frontend User Experience Time | 19.2 | 21-23 |

Scenario 3.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Modify 100 work phone of some employees |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 04:37:01 PM |
| End Time | 01/10/2019 04:37:37 PM |
| Backend Processing Time | ~15 secs |
| Frontend User Experience Time | 17.6 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~15 | ~3 min 34-39 secs |
| Frontend User Experience Time | 17.6 | 21-23 |

Scenario 3.3

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Modify 100 work fax of some employees |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 06:27:17 PM |
| End Time | 01/10/2019 06:27:56 PM |
| Backend Processing Time | ~15 secs |
| Frontend User Experience Time | 19.0 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~15 | ~3 min 34-39 secs |
| Frontend User Experience Time | 19.0 | 21-23 |

Scenario 3.4

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Modify 100 work cell of some employees |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 05:35:42 PM |
| End Time | 01/10/2019 05:36:20 PM |
| Backend Processing Time | ~15 secs |
| Frontend User Experience Time | 18.8 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~15 | ~3 min 34-39 secs |
| Frontend User Experience Time | 18.8 | 21-23 |

Scenario 5

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Create 150 new employee records |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 05:20:18 AM |
| End Time | 01/10/2019 05:27:05 AM |
| Backend Processing Time | ~7 mins |
| Frontend User Experience Time | 22.7 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~7 mins | 20’ 18” |
| Frontend User Experience Time | 22.7 | 22 |

Scenario 6

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Update 150 employee payroll status from the interface table |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Start Time | 01/10/2019 07:43:21 PM |
| End Time | 01/10/2019 07:49:03 PM |
| Backend Processing Time | ~6 min |
| Frontend User Experience Time | 22.2 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Backend Processing Time | ~6 min | 20’ 18” |
| Frontend User Experience Time | 22.2 | 22 |

Scenario 8.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Create a new employee account via interface table (Employee is Hired, Payroll Status ="A") |
| Conditions | 10 Concurrent users |
| Type of Test | Automatic |
| Start Time | 2/10/2019 11:58:34 AM |
| End Time | 2/10/2019 12:00:54 AM |
| Backend Processing Time | ~1 min 15 secs |
| Front-end User Experience Time | 21.2 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | ~1 min 15 secs | ~1 min 17 secs |
| Front-end User Experience Time | 21.2 | 22 |

**Transaction Statistics and Frontend Processing time**



Scenario 8.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Create a new employee account via interface table (Employee is Hired, Payroll Status ="A") |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 26/09/2019 17:03:57 |
| Test End Time | 26/09/2019 17:06:22 |
| Backend Processing Time | 4.4 secs |
| Frontend User Experience Time | 7.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 4.4 | 7.8 – 8 |
| Front-end User Experience Time | 7.9 | 11.9 -14 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Created  Employee IDs | Start Time | End Time | Backend Processing Time (secs) | Avg. (secs) |
| 1 | ppyrzqa | 17:03:57 | 17:04:03 | 6 | 4.4 |
| 2 | pqwtiqa | 17:04:16 | 17:04:21 | 5 |
| 3 | plvuxqa | 17:04:37 | 17:04:42 | 5 |
| 4 | prwcdqa | 17:04:52 | 17:04:56 | 4 |
| 5 | pbigiqa | 17:05:07 | 17:05:11 | 4 |
| 6 | puvglqa | 17:05:21 | 17:05:25 | 4 |
| 7 | purpmqa | 17:05:36 | 17:05:40 | 4 |
| 8 | pqoduqa | 17:05:51 | 17:05:55 | 4 |
| 9 | pzyczqa | 17:06:05 | 17:06:09 | 4 |
| 10 | plaewqa | 17:06:18 | 17:06:22 | 4 |

**Transaction Statistics and Frontend Processing time**



Scenario 14

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Disabling of an Employee Account |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 26/09/2019 17:29:37 |
| Test End Time | 26/09/2019 17:39:24 |
| Backend Processing Time | 2.9 secs |
| Frontend User Experience Time | 4.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.9 | 5.3 – 7 |
| Front-end User Experience Time | 4.9 | 6.7 - 9.9 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Disabled  Employee IDs | Start Time | End Time | Back-end processing Time (secs) | Avg. (secs) |
| 1 | Pswguqa | 17:29:37 | 17:29:40 | 3 | 2.9 |
| 2 | Ppyrzqa | 17:30:50 | 17:30:53 | 3 |
| 3 | Pqwtiqa | 17:31:49 | 17:31:52 | 3 |
| 4 | Plvuxqa | 17:32:45 | 17:32:48 | 3 |
| 5 | Prwcdqa | 17:33:45 | 17:33:48 | 3 |
| 6 | Pbigiqa | 17:34:43 | 17:34:46 | 3 |
| 7 | Puvglqa | 17:35:52 | 17:35:55 | 3 |
| 8 | Purpmqa | 17:36:59 | 17:37:02 | 3 |
| 9 | Pqoduqa | 17:38:09 | 17:38:12 | 3 |
| 10 | Pzyczqa | 17:39:22 | 17:39:24 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 15

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Terminating of an Employee Account via interface table |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 26/09/2019 18:07:02 |
| Test End Time | 26/09/2019 18:09:22 |
| Backend Processing Time | 4.1 secs |
| Frontend User Experience Time | 5.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 4.1 | 22.3-25 |
| Front-end User Experience Time | 5.9 | 21.9-25 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Terminated Employee IDs | Start Time | End Time | Back-end processing Time (secs) | Avg. (secs) |
| 1 | Laewqa | 18:07:12 | 18:07:16 | 4 | 4.1 |
| 2 | Gcgyqa | 18:07:28 | 18:07:33 | 5 |
| 3 | Bnekqa | 18:07:41 | 18:07:45 | 4 |
| 4 | Vtfrqa | 18:07:54 | 18:07:58 | 4 |
| 5 | Nfzdqa | 18:08:07 | 18:08:11 | 4 |
| 6 | Kzmnqa | 18:08:21 | 18:08:25 | 4 |
| 7 | Nkghqa | 18:08:34 | 18:08:38 | 4 |
| 8 | Voivqa | 18:08:48 | 18:08:55 | 4 |
| 9 | Tozzqa | 18:09:02 | 18:09:06 | 4 |
| 10 | Wgwrqa | 18:09:18 | 18:09:22 | 4 |

**Transaction Statistics and Frontend Processing time**



Scenario 18

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Creating Contractor Account |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 25/09/2019 15:08:46 |
| Test End Time | 25/09/2019 15:44:10 |
| Backend Processing Time | 2.7 secs |
| Frontend User Experience Time | 4.4 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.7 | 5.4-7 |
| Front-end User Experience Time | 4.4 | 7.3-9.5 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Created Contractor IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pqzgcqa | 15:08:46 | 15:08:50 | 4 | 2.7 |
| 2 | pktysqa | 15:16:54 | 15:16:57 | 3 |
| 3 | prawkqa | 15:20:19 | 15:20:21 | 2 |
| 4 | pvabvqa | 15:24:13 | 15:24:15 | 2 |
| 5 | pwgvoqa | 15:27:18 | 15:27:21 | 3 |
| 6 | prfodqa | 15:30:27 | 15:30:29 | 2 |
| 7 | pkhoqqa | 15:33:54 | 15:33:56 | 2 |
| 8 | pktdxqa | 15:37:11 | 15:37:14 | 3 |
| 9 | peymcqa | 15:40:46 | 15:40:49 | 3 |
| 10 | pdndeqa | 15:44:07 | 15:44:10 | 3 |

**Transaction Statistics and Frontend Processing time**



Scenario 21

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Terminate Contractor Account |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 25/09/2019 16:00:05 |
| Test End Time | 25/09/2019 16:26:43 |
| Backend Processing Time | 5.4 secs |
| Frontend User Experience Time | 8.0 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 5.4 | 7.6-12 |
| Front-end User Experience Time | 8.0 | 9.7-14.5 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Terminated Contractor IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pqzgcqa | 16:00:50 | 16:00:55 | 5 | 5.4 |
| 2 | prawkqa | 16:03:19 | 16:03:25 | 6 |
| 3 | pvabvqa | 16:06:04 | 16:06:10 | 6 |
| 4 | pwgvoqa | 16:08:55 | 16:09:00 | 5 |
| 5 | Prfodqa | 16:12:00 | 16:12:05 | 5 |
| 6 | pkhoqqa | 16:14:56 | 16:15:01 | 5 |
| 7 | Pktdxqa | 16:17:56 | 16:18:01 | 6 |
| 8 | peymcqa | 16:20:34 | 16:20:39 | 5 |
| 9 | pdndeqa | 16:23:32 | 16:23:38 | 6 |
| 10 | Pjzmiqa | 16:26:38 | 16:26:43 | 5 |

**Transaction Statistics and Frontend Processing time**



Scenario 27.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Changing Password through the EIAM portal |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 15:39:35 |
| Test End Time | 27/09/2019 15:48:56 |
| Backend Processing Time | 1.2 secs |
| Frontend User Experience Time | 3.2 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 1.2 | 1.4 - 2 |
| Front-end User Experience Time | 3.2 | 5.1 - 5.5 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | Users IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pmilbqa | 15:39:35 | 15:39:37 | 2 | 1.2 |
| 2 | pgimpqa | 15:40:25 | 15:40:26 | 1 |
| 3 | pgxvyqa | 15:41:35 | 15:41:36 | 1 |
| 4 | piodeqa | 15:42:47 | 15:42:48 | 1 |
| 5 | psjgtqa | 15:43:54 | 15:43:55 | 1 |
| 6 | ptjnmqa | 15:44:57 | 15:44:58 | 1 |
| 7 | pxvxrqa | 15:46:07 | 15:46:08 | 1 |
| 8 | plpgzqa | 15:47:12 | 15:47:13 | 1 |
| 9 | paxwqqa | 15:48:01 | 15:48:02 | 1 |
| 10 | pldcbqa | 15:48:54 | 15:48:56 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 27.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Changing Password through the EIAM portal |
| Conditions | 50 concurrent users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 15:56:28 |
| Test End Time | 27/09/2019 15:58:29 |
| Backend Processing Time | 2.2 secs |
| Frontend User Experience Time | 2.6 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.2 | 21.9-34 |
| Front-end User Experience Time | 2.6 | 20.3-29.7 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | ptebjqa | 15:56:28 | 15:56:30 | 2 | 2.2 |
| 2 | pmwouqa | 15:56:36 | 15:56:38 | 2 |
| 3 | ptrjjqa | 15:56:28 | 15:56:31 | 3 |
| 4 | phlziqa | 15:56:27 | 15:56:29 | 2 |
| 5 | poupnqa | 15:56:34 | 15:56:36 | 2 |
| 6 | pqdijqa | 15:56:39 | 15:56:41 | 2 |
| 7 | pebvdqa | 15:56:27 | 15:56:29 | 2 |
| 8 | pbmsgqa | 15:56:33 | 15:56:36 | 3 |
| 9 | pafbkqa | 15:56:32 | 15:56:35 | 3 |
| 10 | pgolkqa | 15:56:27 | 15:56:30 | 3 |
| 11 | plscqqa | 15:56:27 | 15:56:28 | 1 |
| 12 | pyjldqa | 15:56:36 | 15:56:37 | 1 |
| 13 | phlzrqa | 15:56:28 | 15:56:29 | 1 |
| 14 | pmuvfqa | 15:56:35 | 15:56:36 | 1 |
| 15 | prxjoqa | 15:56:37 | 15:56:38 | 1 |
| 16 | prjefqa | 15:56:33 | 15:56:34 | 1 |
| 17 | pkbgfqa | 15:56:24 | 15:56:26 | 2 |
| 18 | pvynwqa | 15:56:35 | 15:56:37 | 2 |
| 19 | pxdpcqa | 15:56:31 | 15:56:34 | 3 |
| 20 | plkqsqa | 15:56:40 | 15:56:43 | 2 |
| 21 | pzdlbqa | 15:56:36 | 15:56:38 | 2 |
| 22 | pekhdqa | 15:56:43 | 15:56:45 | 2 |
| 23 | paxlmqa | 15:56:31 | 15:56:33 | 2 |
| 24 | peupvqa | 15:56:35 | 15:56:37 | 2 |
| 25 | pdeglqa | 15:56:44 | 15:56:46 | 2 |
| 26 | pajoaqa | 15:56:40 | 15:56:41 | 1 |
| 27 | pzeqfqa | 15:56:31 | 15:56:34 | 3 |
| 28 | pzowpqa | 15:56:31 | 15:56:33 | 2 |
| 29 | pyhtkqa | 15:56:43 | 15:56:46 | 3 |
| 30 | pzxtdqa | 15:56:47 | 15:56:50 | 3 |
| 31 | pebwcqa | 15:56:38 | 15:56:41 | 3 |
| 32 | pnqqkqa | 15:56:40 | 15:56:43 | 3 |
| 33 | pytcdqa | 15:56:24 | 15:56:27 | 3 |
| 34 | plzsnqa | 15:56:43 | 15:56:46 | 3 |
| 35 | pyjzeqa | 15:56:43 | 15:56:45 | 2 |
| 36 | pfujiqa | 15:56:33 | 15:56:35 | 2 |
| 37 | pdfqyqa | 15:56:45 | 15:56:47 | 2 |
| 38 | pijwoqa | 15:56:31 | 15:56:34 | 3 |
| 39 | pmzljqa | 15:56:50 | 15:56:53 | 3 |
| 40 | pjsouqa | 15:56:41 | 15:56:44 | 3 |
| 41 | pylxtqa | 15:56:48 | 15:56:51 | 3 |
| 42 | pjalbqa | 15:56:35 | 15:56:36 | 1 |
| 43 | perufqa | 15:56:55 | 15:56:57 | 2 |
| 44 | pmlvbqa | 15:56:39 | 15:56:42 | 3 |
| 45 | pljqfqa | 15:56:55 | 15:56:56 | 1 |
| 46 | pnrvfqa | 15:56:34 | 15:56:36 | 2 |
| 47 | pywedqa | 15:56:47 | 15:56:50 | 3 |
| 48 | pbklgqa | 15:56:49 | 15:56:51 | 2 |
| 49 | pzrdzqa | 15:56:56 | 15:56:59 | 3 |
| 50 | phcgwqa | 15:56:44 | 15:56:46 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 28

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Reset Password - Self Serve - Internal |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 15:02:17 |
| Test End Time | 27/09/2019 15:13:58 |
| Backend Processing Time | 2.1 secs |
| Frontend User Experience Time | 3.8 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.1 | 2.3 - 3 |
| Front-end User Experience Time | 3.8 | 5.7 – 6.3 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | psvegqa | 15:02:17 | 15:02:20 | 3 | 2.1 |
| 2 | phqktqa | 15:03:38 | 15:03:40 | 2 |
| 3 | psqyrqa | 15:04:49 | 15:04:51 | 2 |
| 4 | pmhwjqa | 15:06:01 | 15:06:03 | 2 |
| 5 | pnamgqa | 15:07:18 | 15:07:20 | 2 |
| 6 | plzdbqa | 15:08:44 | 15:08:46 | 2 |
| 7 | pewguqa | 15:10:12 | 15:10:14 | 2 |
| 8 | psfysqa | 15:11:14 | 15:11:16 | 2 |
| 9 | pvohdqa | 15:12:42 | 15:12:44 | 2 |
| 10 | pnbpmqa | 15:13:56 | 15:13:58 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 29.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Reset Password - Self Serve - External |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 11:24:04 |
| Test End Time | 27/09/2019 11:26:06 |
| Backend Processing Time | 1.4 secs |
| Frontend User Experience Time | 3.3 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 1.4 | 2.1 - 3 |
| Front-end User Experience Time | 3.3 | 6.1 – 9.3 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | ptatnqa | 11:24:04 | 11:24:05 | 1 | 1.4 |
| 2 | pgycrqa | 11:24:12 | 11:24:13 | 1 |
| 3 | pgycrqa | 11:24:17 | 11:24:19 | 2 |
| 4 | plvywqa | 11:24:22 | 11:24:23 | 1 |
| 5 | pxjizqa | 11:24:29 | 11:24:30 | 1 |
| 6 | pzqeqqa | 11:24:36 | 11:24:37 | 1 |
| 7 | pmxrcqa | 11:24:43 | 11:24:44 | 1 |
| 8 | pkcseqa | 11:24:49 | 11:24:51 | 2 |
| 9 | pwkdcqa | 11:24:56 | 11:24:58 | 2 |
| 10 | podjjqa | 11:25:02 | 11:25:04 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 29.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Reset Password - Self Serve - External |
| Conditions | 50 concurrent users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 11:39:16 |
| Test End Time | 27/09/2019 11:39:43 |
| Backend Processing Time | 1.6 secs |
| Frontend User Experience Time | 4.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 1.6 | 1.4 - 2 |
| Front-end User Experience Time | 4.9 | 2.9 – 5 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pzrzpqa | 11:39:16 | 11:39:17 | 1 | 1.6 |
| 2 | pxcugqa | 11:39:21 | 11:39:22 | 1 |
| 3 | pojnqqa | 11:39:20 | 11:39:21 | 1 |
| 4 | phckeqa | 11:39:17 | 11:39:19 | 2 |
| 5 | pnygmqa | 11:39:19 | 11:39:21 | 2 |
| 6 | pcwfdqa | 11:39:18 | 11:39:21 | 3 |
| 7 | pbkfgqa | 11:39:27 | 11:39:30 | 3 |
| 8 | pvsrbqa | 11:39:21 | 11:39:24 | 3 |
| 9 | pkpycqa | 11:39:22 | 11:39:23 | 1 |
| 10 | pjrqbqa | 11:39:18 | 11:39:20 | 2 |
| 11 | pkzfxqa | 11:39:22 | 11:39:23 | 1 |
| 12 | ppdhuqa | 11:39:21 | 11:39:22 | 1 |
| 13 | plqnsqa | 11:39:12 | 11:39:13 | 1 |
| 14 | prmbvqa | 11:39:31 | 11:39:32 | 1 |
| 15 | prczgqa | 11:39:18 | 11:39:20 | 2 |
| 16 | plqcdqa | 11:39:33 | 11:39:35 | 2 |
| 17 | ppzsfqa | 11:39:31 | 11:39:34 | 3 |
| 18 | punzyqa | 11:39:22 | 11:39:25 | 3 |
| 19 | pnhqgqa | 11:39:28 | 11:39:31 | 3 |
| 20 | pkeftqa | 11:39:26 | 11:39:27 | 1 |
| 21 | pahrxqa | 11:39:37 | 11:39:38 | 1 |
| 22 | pxkrjqa | 11:39:30 | 11:39:31 | 1 |
| 23 | psmpbqa | 11:39:32 | 11:39:33 | 1 |
| 24 | peykmqa | 11:39:24 | 11:39:25 | 1 |
| 25 | puhjgqa | 11:39:27 | 11:39:29 | 2 |
| 26 | pvyuvqa | 11:39:20 | 11:39:22 | 2 |
| 27 | pwrhmqa | 11:39:40 | 11:39:41 | 1 |
| 28 | pqipaqa | 11:39:33 | 11:39:34 | 1 |
| 29 | ppglcqa | 11:39:27 | 11:39:28 | 1 |
| 30 | pysyfqa | 11:39:34 | 11:39:35 | 1 |
| 31 | ptfosqa | 11:39:44 | 11:39:46 | 2 |
| 32 | pkyeaqa | 11:39:36 | 11:39:38 | 2 |
| 33 | prsicqa | 11:39:37 | 11:39:39 | 2 |
| 34 | poanwqa | 11:39:41 | 11:39:42 | 1 |
| 35 | psknnqa | 11:39:32 | 11:39:33 | 1 |
| 36 | pgpelqa | 11:39:43 | 11:39:44 | 1 |
| 37 | piljiqa | 11:39:34 | 11:39:36 | 2 |
| 38 | pecmoqa | 11:39:31 | 11:39:33 | 2 |
| 39 | pmtbvqa | 11:39:35 | 11:39:37 | 2 |
| 40 | pwcmbqa | 11:39:42 | 11:39:44 | 2 |
| 41 | pfdodqa | 11:39:34 | 11:39:36 | 2 |
| 42 | prqbwqa | 11:39:31 | 11:39:32 | 1 |
| 43 | ppuinqa | 11:39:36 | 11:39:37 | 1 |
| 44 | prbjjqa | 11:39:40 | 11:39:42 | 2 |
| 45 | pzqyiqa | 11:39:44 | 11:39:46 | 2 |
| 46 | ptbnyqa | 11:39:50 | 11:39:52 | 2 |
| 47 | pyxndqa | 11:39:37 | 11:39:38 | 1 |
| 48 | puzqyqa | 11:39:46 | 11:39:47 | 1 |
| 49 | psvfzqa | 11:39:44 | 11:39:45 | 1 |
| 50 | pyzzmqa | 11:39:40 | 11:39:41 | 1 |

**Transaction Statistics and Frontend Processing time**



Scenario 30.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Reset Password - Service Desk |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 17:09:08 |
| Test End Time | 27/09/2019 17:10:43 |
| Backend Processing Time | 2.1 secs |
| Frontend User Experience Time | 5.2 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.1 | 3 – 5 |
| Front-end User Experience Time | 5.2 | 7.1 – 8.7 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pmohgqa | 17:09:08 | 17:09:10 | 2 | 2.1 |
| 2 | phvkmqa | 17:09:18 | 17:09:20 | 2 |
| 3 | pdkuwqa | 17:09:28 | 17:09:30 | 2 |
| 4 | pwszrqa | 17:09:40 | 17:09:42 | 2 |
| 5 | pedtsqa | 17:09:51 | 17:09:53 | 2 |
| 6 | pavcdqa | 17:10:02 | 17:10:04 | 2 |
| 7 | prpipqa | 17:10:11 | 17:10:15 | 2 |
| 8 | psmgyqa | 17:10:20 | 17:10:22 | 2 |
| 9 | pmjspqa | 17:10:30 | 17:10:32 | 2 |
| 10 | pvvbgqa | 17:10:40 | 17:10:43 | 3 |

**Transaction Statistics and Frontend Processing time**



Scenario 30.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Reset Password - Service Desk |
| Conditions | 10 concurrent service desks |
| Type of Test | Automatic |
| Test Start Time | 30/09/2019 11:15:47 |
| Test End Time | 30/09/2019 11:16:04 |
| Backend Processing Time | 4 secs |
| Frontend User Experience Time | 9.7 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 4 | 7.6 - 11 |
| Front-end User Experience Time | 9.7 | 7.4 – 11.3 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | posasqa | 11:15:47 | 11:15:50 | 3 | 4 |
| 2 | pktvxqa | 11:15:50 | 11:15:52 | 2 |
| 3 | phxzvqa | 11:15:51 | 11:15:53 | 2 |
| 4 | pyvgeqa | 11:15:51 | 11:15:54 | 3 |
| 5 | palvoqa | 11:15:51 | 11:15:55 | 4 |
| 6 | pkuukqa | 11:15:54 | 11:15:58 | 4 |
| 7 | pkrulqa | 11:15:53 | 11:15:58 | 5 |
| 8 | pgwglqa | 11:15:56 | 11:16:02 | 6 |
| 9 | pcitcqa | 11:15:56 | 11:16:02 | 6 |
| 10 | pzrsgqa | 11:15:59 | 11:16:04 | 5 |

**Transaction Statistics and Frontend Processing time**



Scenario 31.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Unlock Account - Service Desk |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 18:10:17 |
| Test End Time | 27/09/2019 18:30:55 |
| Backend Processing Time | 1.4 secs |
| Frontend User Experience Time | 3.0 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 1.4 | 1.8 - 2 |
| Front-end User Experience Time | 3.0 | 3.1 - 4 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | poupnqa | 18:10:17 | 18:10:19 | 2 | 1.4 |
| 2 | pljqfqa | 18:12:23 | 18:12:24 | 1 |
| 3 | pdeglqa | 18:14:46 | 18:14:48 | 2 |
| 4 | pywedqa | 18:16:43 | 18:16:44 | 1 |
| 5 | pmlvbqa | 18:18:47 | 18:18:48 | 1 |
| 6 | pekhdqa | 18:21:28 | 18:21:29 | 1 |
| 7 | pzrdzqa | 18:23:34 | 18:23:35 | 1 |
| 8 | prjefqa | 18:25:57 | 18:25:58 | 1 |
| 9 | perufqa | 18:28:35 | 18:28:37 | 2 |
| 10 | pvtkbqa | 18:30:53 | 18:30:55 | 2 |

**Transaction Statistics and Frontend Processing time**



Scenario 31.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Unlock Account - Service Desk |
| Conditions | 10 concurrent service desks |
| Type of Test | Automatic |
| Test Start Time | 30/09/2019 12:10:31 |
| Test End Time | 30/09/2019 12:10:53 |
| Backend Processing Time | 2.5 secs |
| Frontend User Experience Time | 3.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Back-end Processing Time | 2.5 | 6.2 - 7 |
| Front-end User Experience Time | 3.9 | 2.3 – 8 |

**List of Users and Backend Processing time**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| User No | User IDs | Start Time | End Time | Back-end processing Time (secs) | Avg (secs) |
| 1 | pahtrqa | 12:10:31 | 12:10:33 | 2 | 2.5 |
| 2 | pajoaqa | 12:10:34 | 12:10:37 | 3 |
| 3 | pafbkqa | 12:10:37 | 12:10:39 | 2 |
| 4 | pavcdqa | 12:10:38 | 12:10:40 | 2 |
| 5 | pahrxqa | 12:10:42 | 12:10:46 | 4 |
| 6 | paomqqa | 12:10:44 | 12:10:49 | 5 |
| 7 | pacmjqa | 12:10:48 | 12:10:50 | 2 |
| 8 | panpbqa | 12:10:50 | 12:10:52 | 2 |
| 9 | paxlmqa | 12:10:49 | 12:10:51 | 2 |
| 10 | patdxqa | 12:10:52 | 12:10:53 | 1 |

**Transaction Statistics and Frontend Processing time**



Scenario 32.1

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Setting Security Q&A's |
| Conditions | 10 sequential users |
| Type of Test | Automatic |
| Test Start Time | 27/09/2019 11:01:02 |
| Test End Time | 27/09/2019 11:11:07 |
| Time taken for the Set Security QA page to load | 1.1 secs |
| Time it takes from Submitting to save questions in User Store | 1.6 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Time taken for the Set Security QA page to load | 1.1 | 2-5 |
| Time it takes from Submitting to save questions in User Store | 1.6 | 2-5 |

**Transaction Statistics and Frontend Processing time**



Scenario 32.2

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Setting Security Q&A's |
| Conditions | 50 concurrent users |
| Type of Test | Automatic |
| Test Start Time | 3/10/2019 08:47:05 |
| Test End Time | 3/10/2019 08:48:57 |
| Time taken for the Set Security QA page to load | 1.3 secs |
| Time it takes from Submitting to save questions in User Store | 2.1 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result  (secs) | Thresholds  (secs) |
| Time taken for the Set Security QA page to load | 1.3 | 2-5 |
| Time it takes from Submitting to save questions in User Store | 2.1 | 2-5 |

**Transaction Statistics and Frontend Processing time**



Scenario A

**General Information**

|  |  |
| --- | --- |
| Scenario Name | Explore & Correlate: Data Consumption by EIAM from AD-EIAM interface |
| Conditions | Single user executing a bulk task |
| Type of Test | Automatic |
| Test Start Time | 1/10/2019 06:55:05 PM |
| Test End Time | 1/10/2019 07:01:15 PM |
| Back-end Processing Time | ~ 6 mins |
| Front-end User Experience Time | 21.9 secs |

**Performance metrics and its comparison with the threshold value**

|  |  |  |
| --- | --- | --- |
| Metrics | Test Result | Thresholds |
| Back-end Processing Time | ~ 6 mins | under 1 hour |

**Transaction Statistics and Frontend Processing time**



# Summary

1. No major errors observed during the performance tests.
2. Avg. response time (Frontend and Backend processing time) of all the scenarios is within the threshold limit.
3. Hence EIAM application corresponds to the defined performance requirements.