# Performance Test Report

# For

# Execution of

# Slot availability Batch Job– 150 users

Date: 11 Sep 2019

Author: Anand Babaleshwar

## Summary

This report presents the observations and findings of the 4 months slot availability batch job and load test conducted for a load of 150 users, which will make booking appointments after executing 4 months Slot availability batch jobs running for a duration of 60 minutes.

The objective of this load test was to observe and record the behavior of the application when users are booking appointments after executing slot availability for 4 months.

Below are the scenario details:

| | |
|---|---|
| **Sprint/Report Name** | Booking appointments after executing slot availability batch job for 60 days |
| **Run Date** | 11-Sep-2019 |
| **Period** | 06:22 AM to 06:58 AM |
| **Number of concurrent users** | 150 |
| **Ramp up** | 4 min |
| **Run Duration** | 60 minutes |
| **Ramp down** | 2 min |

## Batch Job execution details:

Executed slot availability batch job for 60 days and verified in the DB as well after creation of slots for 60 days, below are the details:

| instance_id | Create_Time | Start_Time | End_Time | Execution Time | Status | Slots available (No.of.rows in DB) | Days (DB) |
|---|---|---|---|---|---|---|---|
| 81 | 06:59:12.032 | 06:59:12.072 | 07:00:52.814 | 00:01:41 | COMPLETED | 36819 | 120 |

Slot availability batch job took 00:01:41 min for executing 4 months. Batch job status is completed and its created 4 months slots

Slot availability After verifying in db and we have executed booking appoints from Jmeter tool.

The transaction response times observed were as below:

| Label | # Samples | Average (msec) | 90% Line (msec) | Min (msec) | Max (msec) | Error % | Throughput (Sec) |
|---|---|---|---|---|---|---|---|
| TR_prereg_homepage | 12002 | 115 | 264 | 48 | 2702 | 0.00% | 3.04245 |
| TR_prereg_sendotp | 11986 | 2238 | 4837 | 157 | 14612 | 35.72% | 3.03924 |
| TR_prereg_validateotp | 7699 | 917 | 1992 | 207 | 8875 | 0.01% | 1.95617 |
| TR_prereg_viewbasicdetails | 7680 | 3221 | 9722 | 256 | 28245 | 0.00% | 1.95141 |
| TR_prereg_submitdemographic | 7672 | 3221 | 6177 | 178 | 28920 | 0.00% | 1.94856 |
| TR_prereg_uploadpoidocument | 7660 | 4900 | 11424 | 67 | 130990 | 0.64% | 1.9533 |
| TR_prereg_uploadpoadocument | 7604 | 4456 | 6273 | 40 | 130511 | 1.36% | 1.93911 |
| TR_prereg_searchregcenter | 7491 | 69 | 89 | 36 | 2754 | 0.00% | 1.91021 |
| TR_prereg_openbookappointmentpage | 7476 | 117 | 179 | 43 | 812 | 0.00% | 1.91361 |
| TR_prereg_bookappointment | 7462 | 861 | 2082 | 113 | 10935 | 0.00% | 1.90992 |
| TR_prereg_notify | 7439 | 404 | 477 | 88 | 180012 | 4.81% | 1.90693 |
| TR_prereglogout | 7069 | 905 | 2070 | 192 | 11427 | 0.00% | 1.81115 |

## **Performance Test Execution Details**

We have executed the booking appointment user flow, which has transactions mentioned in above table.

Most of the transactions average response times are less than SLA of **3 seconds** except below:

1. TR_prereg_viewbasicdetails- 3.221 sec
2. TR_prereg_submitdemographic- 3.221 sec
3. TR_prereg_uploadpoidocument - 4.900 sec
4. TR_prereg_uploadpoadocument- 4.456 sec

The error rate for all transactions is less than 1% except below request:

TR_prereg_sendotp -35.72%

TR_prereg_uploadpoadocument -1.36%

TR_prereg_notify-4.81%

## Below are the error messages:

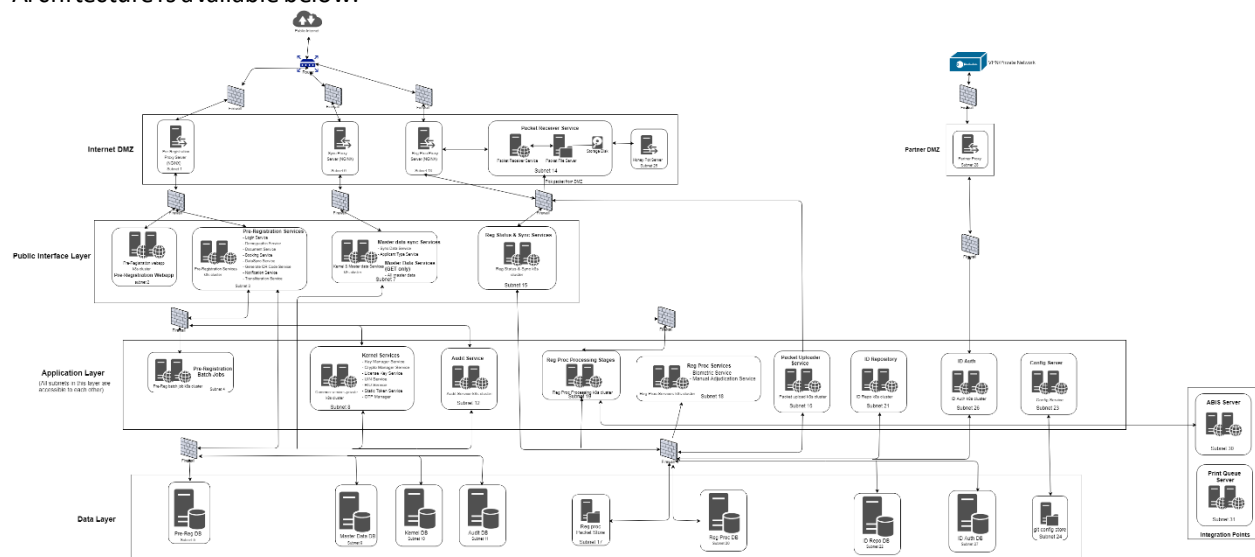{"id":"mosip.pre-registration.notification.notify","version":"1.0","responsetime":null,"response":null,"errors":null}

{"id":"mosip.pre-registration.login.sendotp","version":"1.0","responsetime":"2019-09-11T07:47:08.084Z","response":null,"errors":[{"errorCode":"null","message":"KER-ATH-501  -->  503  Service Temporarily Unavailable"}]}

{"id":"mosip.pre-registration.document.upload","version":"1.0","responsetime":"2019-09-11T07:41:10.787Z","response":null,"errors":[{"errorCode":"PRG_PAM_DOC_010","message":"Document virus scan failed"}]}

Details will be shared to developers for further analysis and defects raised in jira as well

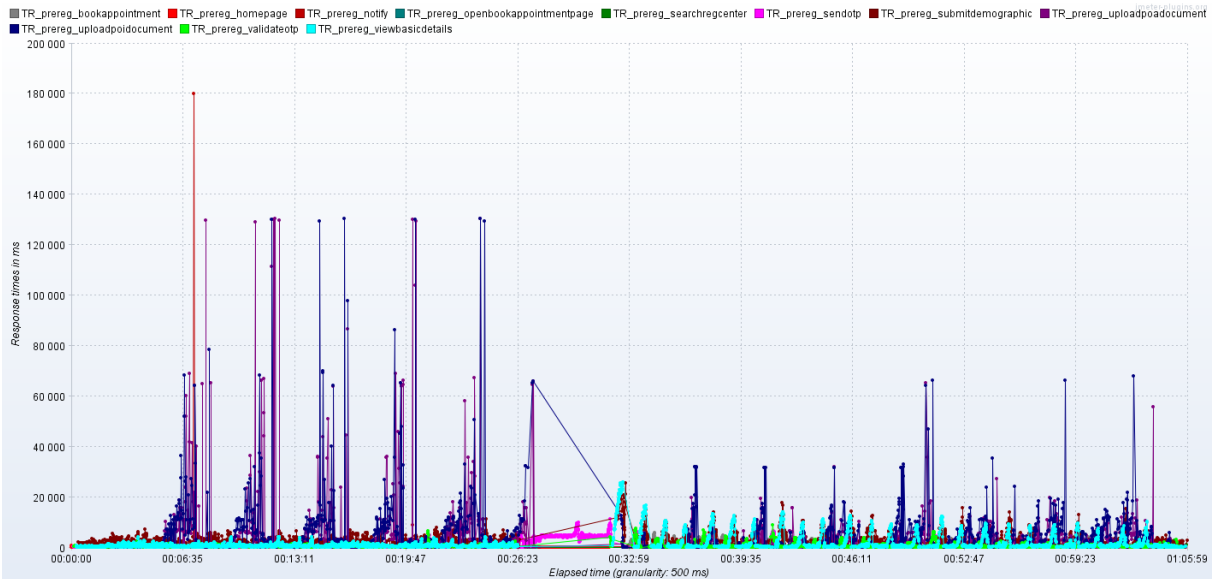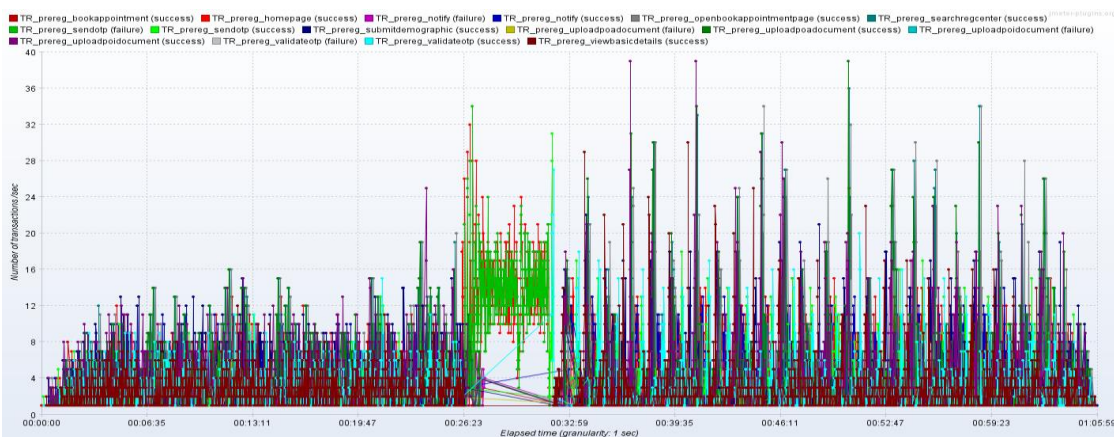## **Test Environment :**

Architecture is available below:

## Response Time Graph

All the transactions average response times are within SLA of 3 seconds except below:
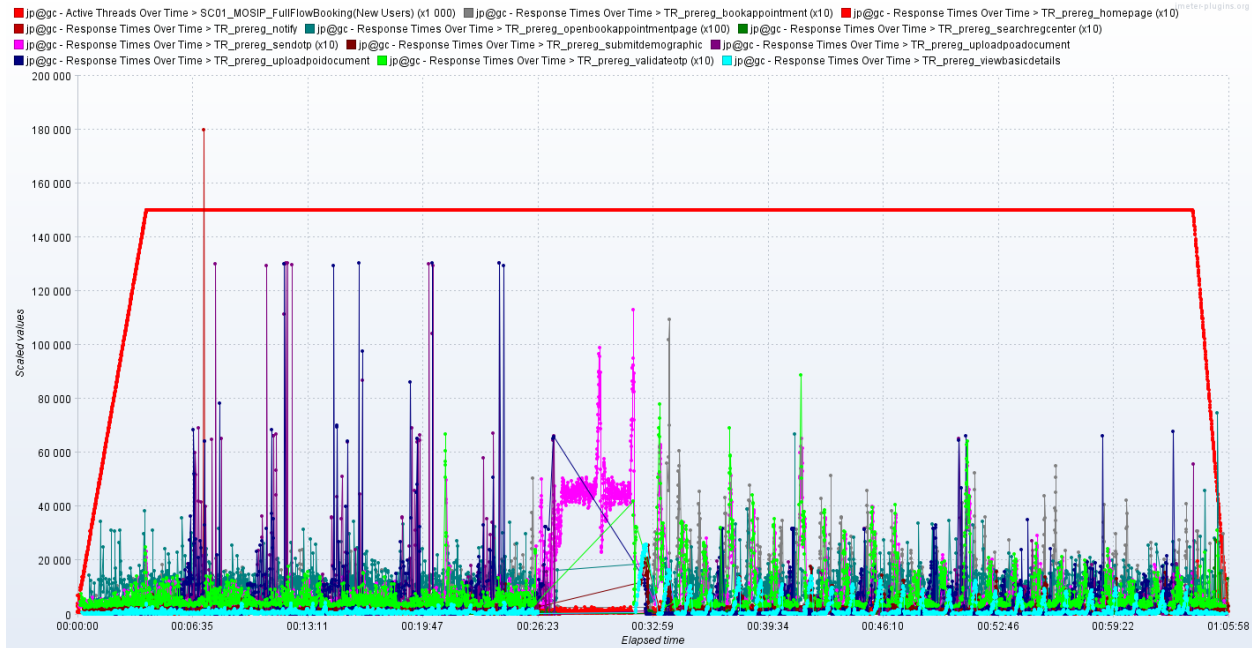
1. TR_prereg_viewbasicdetails - 3.221 sec
2. TR_prereg_submitdemographic - 3.221 sec
3. TR_prereg_uploadpoidocument - 4.900 sec
4. TR_prereg_uploadpoadocument - 4.456 sec



## Transactions per second:

Proprietary and Confidential © MindTree Limited

**Active threads vs response times over time:**



## Conclusion and Next Steps

We have raised the defects in jira for the issues found in performance test for application ,The slot availability batch job execution time for 4 months after design changes is very less compared to earlier design ,Since this batch job execution is successful will continue testing for 5 months and 6 months.