Mindtree

# Performance Test Report

# For

# Execution of

# Slot availability Batch Job– 100 users

Date: 06 June 2019

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**Summary**

This report presents the observations and findings of the 60 days slot availability batch job and load test conducted for a load of 100 users, which will make booking appointments after executing 60 days Slot availability batch jobs running for a duration of 35 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 60 days.

Below are the scenario details:

| | |
|---|---|
| **Sprint/Report Name** | Booking appointments after executing slot availability batch job for 60 days |
| **Run Date** | 6-June-2019 |
| **Period** | 06:22 AM to 06:58 AM |
| **Number of concurrent users** | 100 |
| **Ramp up** | 4 min |
| **Run Duration** | 30 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 (DB) | Days (DB) |
|---|---|---|---|---|---|---|---|
| 1068 | 05:22:22.228 | 05:22:22.253 | 5:47:00.693 | 00:24:38 | UNKNOWN | 53760 | 60 |

Slot availability batch job took 00:24:38 sec for executing 60 days.Batch job status is failed but its created 60days slots, Error details ,graphs are updated in below jira ticket id for this error

https://mosipid.atlassian.net/browse/MOS-25468

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) |
|---|---|---|---|---|---|---|---|
| mosip_preReg_homepage | 1424 | 21096 | 48610 | 371 | 146818 | 0.00% | 0.65998 |
| mosip_preReg_send_otp | 1407 | 11211 | 22501 | 17 | 151035 | 0.28% | 0.6555 |
| mosip_preReg_validate_otp | 1385 | 10420 | 22376 | 39 | 128632 | 0.07% | 0.64676 |
| mosip_preReg_submit_demographics | 1375 | 4232 | 10345 | 36 | 24039 | 0.07% | 0.64217 |
| mosip_preReg_upload_poi_document | 1368 | 5833 | 15459 | 37 | 44825 | 1.46% | 0.64085 |
| mosip_preReg_upload_poa_document | 1360 | 5720 | 15207 | 25 | 44646 | 0.07% | 0.64265 |
| mosip_open_preview_pageupload_poi_document | 1356 | 21 | 30 | 9 | 228 | 0.00% | 0.64091 |
| mosip_preReg_open_regCeneter_selection_page | 1356 | 185 | 188 | 58 | 5657 | 0.07% | 0.64086 |
| mosip_preReg_search_registration_center | 1352 | 81 | 91 | 18 | 321 | 0.07% | 0.63901 |
| mosip_preReg_open_book_appointment_page | 1351 | 1868 | 5165 | 43 | 15340 | 0.07% | 0.63838 |
| mosip_preReg_book_appointment | 1347 | 2309 | 6703 | 242 | 19443 | 0.07% | 0.64025 |
| mosip_preReg_logout | 1341 | 35964 | 69313 | 379 | 189281 | 0.08% | 0.63857 |
| TOTAL | 1424 | 21096 | 48610 | 371 | 146818 | 0.00% | 0.65998 |

## 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 beyond SLA of **3** seconds, They are listed below:

1. Mosip_preReg_homepage - 21.096 sec
2. Mosip_PreReg_send_otp - 11.211 sec
3. Mosip_PreReg_validate_otp - 10.42 sec
4. Mosip_preReg_submit_demographics- 4.232 sec
5. Mosip_preReg_upload_poi_document- 5.833 sec
6. Mosip_preReg_upload_poa_document-5.72 sec
7. Mosip_preReg_logout- 35.964 sec

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

Uploading POI document -1.46% ,below is the error message:

[{"errorCode":"KER-FSA-001","message":"Exception occured in HDFS Adapter"}]}

Details will be shared to developers for further analysis based on request from team.

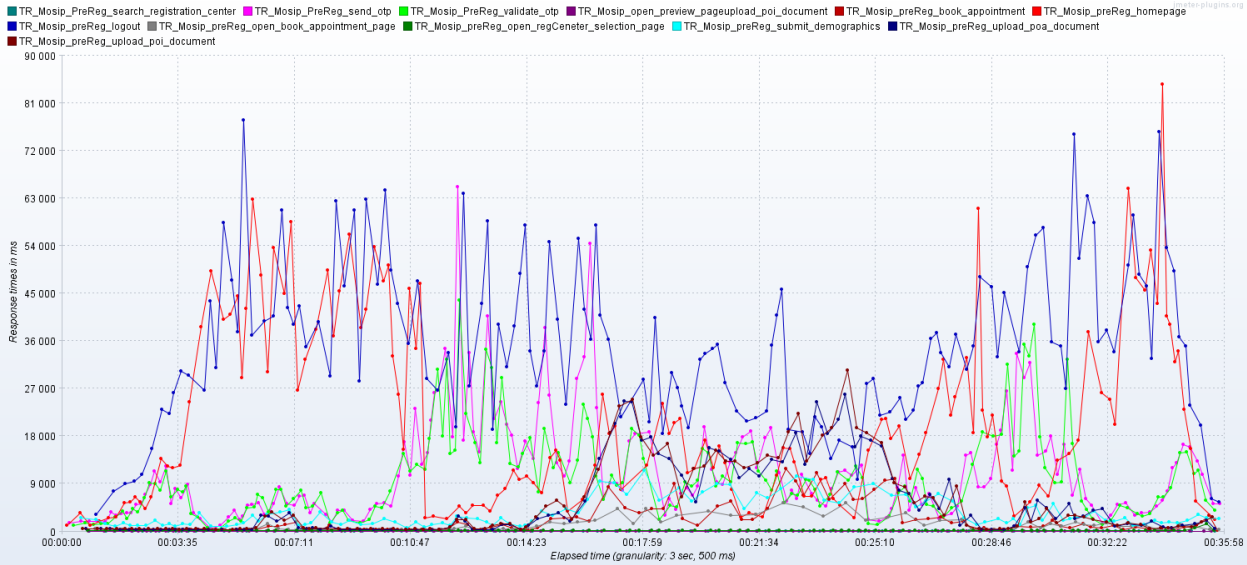
## Test Environment

| | Common proxy server (NGINX) | (Kubernets cluster) apache Tomcat 8.5.31 | DB Postgress SQL 10.2 |
|---|---|---|---|
| **Number Of nodes** | 1 | 4 | 1 |
| **RAM** | 4 GB | 112 GB | 16GB |
| **PROCESSOR** | 2 cores | 16 core | 4 cores |

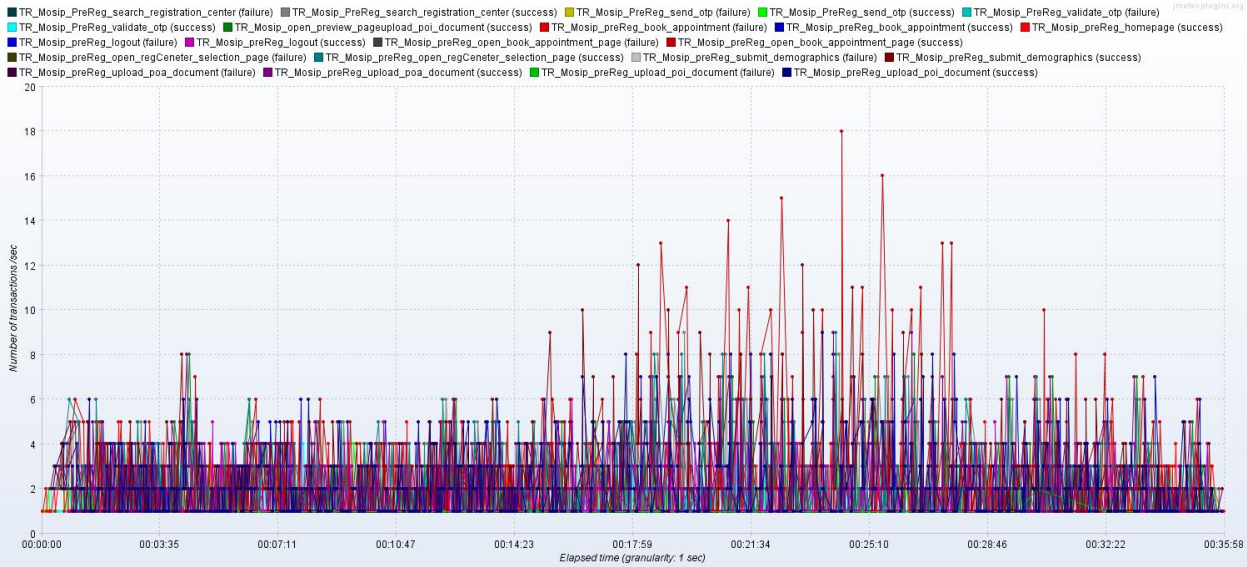
## Response Time Graph

All the transactions average response times are within SLA of 3 seconds except below:

1. Mosip_preReg_homepage - 21.096 sec
2. Mosip_PreReg_send_otp - 11.211 sec
3. Mosip_PreReg_validate_otp - 10.42 sec
4. Mosip_preReg_submit_demographics- 4.232 sec
5. Mosip_preReg_upload_poi_document- 5.833 sec
6. Mosip_preReg_upload_poa_document-5.72 sec
7. Mosip_preReg_logout- 35.964 sec




**Transactions per second**:




## Conclusion and Next Steps

Since we have got batch job failure for 60 days slots availability,we will follow up with dev team on ticket and once fixed we will continue re-test for 60 days and test for 60 days, 90 days up to 6 months and we will repeat the same execution and will observe the performance of transactions and execution time for batch jobs