

Performance Test Report

For

Execution of

PreRegistration – 300 users

Date: 13 July 2019

Author: Anand Babaleshwar

Summary

This report presents the observations and findings of the load test conducted for a load of 300 users performing booking appointments full flow planned for 12-hour duration

The objective of this load test was to observe and record the behavior of the application when users are booking appointments for 300 concurrent users and to create preregistration applications in DB.

Below are the scenario details:

Sprint/Report Name	Booking appointments
Run Date	13 th July 2019 to 14 th July 2019
Period	13 th July 17:50 AM to 14 th 06:09 AM (UTC)
Number of concurrent users	300
Ramp up	4 min
Run Duration	12 hours
Ramp down	4min

The transaction response times observed were as below:

Label	# Samples	Average (ms)	90% Line (ms)	Min (ms)	Max (ms)	Error %	Throughput (sec)
TR_prereg_homepage	32317	52.682	86908	51	241860	0.08%	0.7399
TR_prereg_sendotp	32264	205	92	16	26663	0.16%	0.73904
TR_prereg_validateotp	32211	218	112	58	26668	0.04%	0.73805
TR_preReg_submitdemographic	32190	563	1133	20	13595	0.01%	0.73751
TR_prereg_uploadpoidocument	32182	153	157	36	12900	0.58%	0.73748
TR_prereg_uploadpoadocument	31989	101	102	23	10699	0.12%	0.73306
TR_openpreviewpage_uploadpoidocument	31944	12	14	6	267	0.00%	0.73203
TR_prereg_openregcenter_selectionpage	31944	52	54	37	5913	0.00%	0.73203
TR_prereg_searchregcenter	31933	21	23	9	2807	0.00%	0.73174
TR_prereg_openbookappointmentpage	31929	2488	2751	2105	6519	0.00%	0.73201
TR_prereg_bookappointment	31796	235	304	25	11849	0.01%	0.72901
TR_mosip_preReg_notify	31785	103	126	72	12959	0.26%	0.72876
TR_prereglogout	31740	52.735	86983	13	254045	0.11%	0.72772

Performance Test Execution Details

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

All the transactions average response times were less than 3sec except below:

1. Homepage – 52.682 sec
2. Logout – 52.735sec

Under Homepage and Logout page observed that below request is taking more time:

- <https://pt.mosip.io/preregistration/v1/login/config> - 52.621 sec

Test Environment

	Common proxy server (NGINX)	(Kubernetes 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

Active threads over Time:



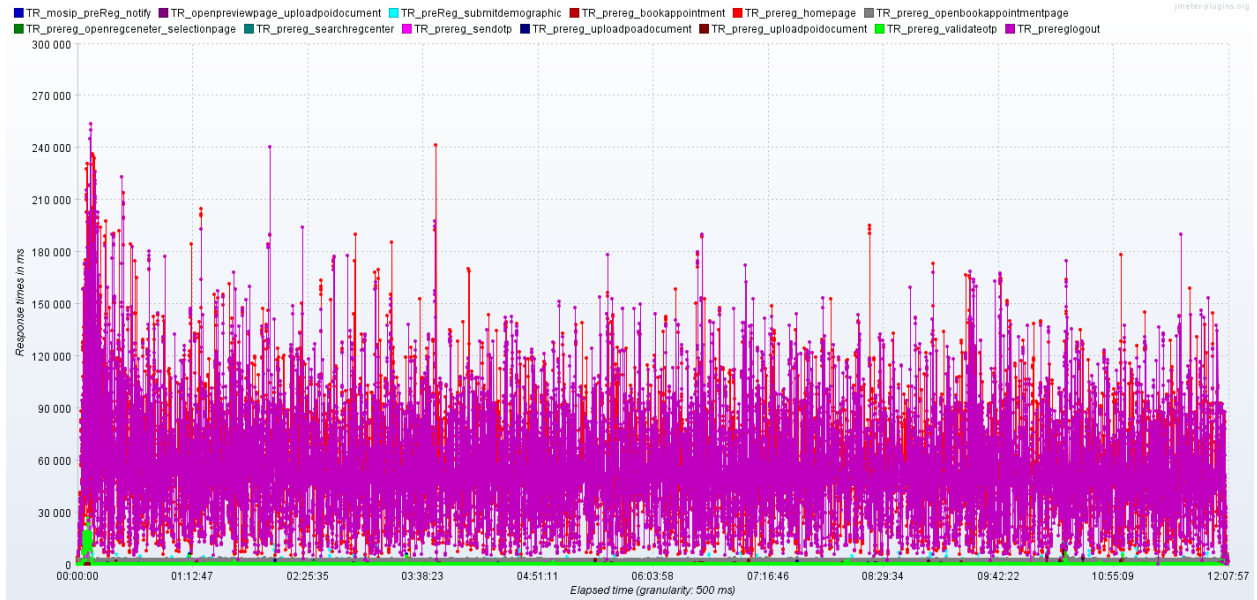
Response Time Graph

All the transactions average response times were less than 3sec except below:

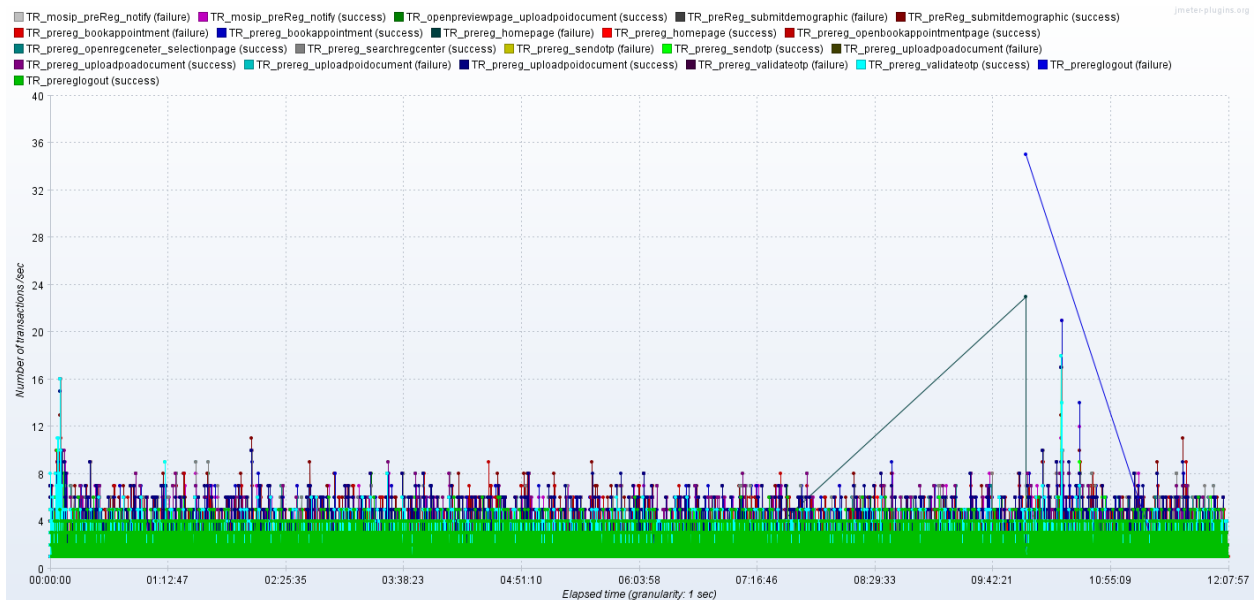
1. Homepage – 73.301sec
2. Logout – 76.634 sec
3. Send otp -12.514 sec
4. Validate otp –7.289 sec

Under Homepage and Logout page observed that below request is taking more time:

preregistration/v1/login/config – 73.280 sec



Transactions per second:



All key transactions error rate is less than 1%

Conclusion and Next Steps

This performance run is executed to create preregistration applications to keep back up in DB and in current performance test execution we have created 31,796 pre-registration applications in 12 hours duration of test and as we are targeting 2 lac valid applications ,so we will be continuing executing in next performance runs.