

Performance Test Report

For

Execution of

PreRegistration – 300 users

Date: 14 July 2019

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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 10-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	14 th July 2019 to 15 th July 2019
Period	14 th July 17:13 PM to 15 th 04:14 AM (UTC)
Number of concurrent users	300
Ramp up	4 min
Run Duration	10 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	27254	57016	96877	102	240995	0.00%	0.74733
TR_prereg_sendotp	27225	204	92	14	27501	0.10%	0.74662
TR_prereg_validateotp	27193	223	115	58	22650	0.05%	0.74573
TR_preReg_submitdemographic	27176	563	1130	15	9827	0.02%	0.74543
TR_prereg_uploadpoidocument	27165	150	158	32	7043	0.51%	0.74516
TR_prereg_uploadpoadocument	27021	94	100	21	6320	0.10%	0.74147
TR_openpreviewpage_uploadpoidocument	26987	12	15	6	1012	0.00%	0.74054
TR_prereg_openregcenter_selectionpage	26987	51	55	35	4530	0.00%	0.74053
TR_prereg_searchregcenter	26978	21	23	10	3028	0.00%	0.74083
TR_prereg_openbookappointmentpage	26975	2587	2985	2096	7149	0.00%	0.74078
TR_prereg_bookappointment	25200	232	308	21	6614	0.01%	0.69209
TR_mosip_preReg_notify	26793	57302	96883	421	241123	0.00%	0.73562
TR_prereglogout	25187	102	136	75	2428	0.28%	0.69176

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 – 57.016 sec
2. Logout – 57.302 sec

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

- <https://pt.mosip.io/preregistration/v1/login/config> - 56.949 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:



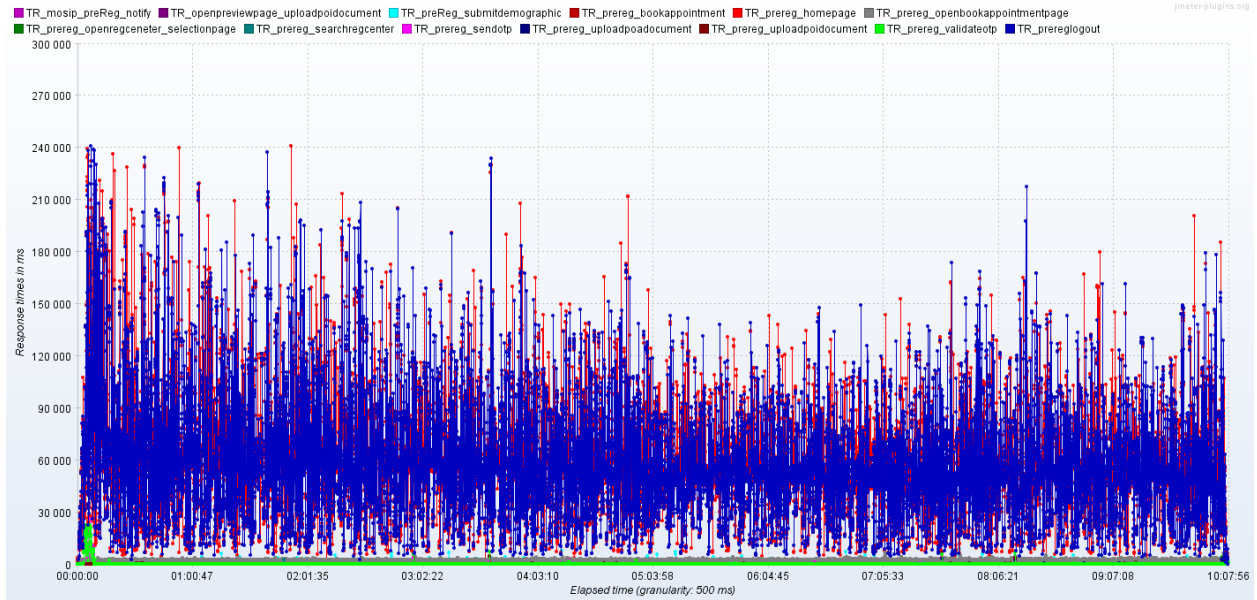
Response Time Graph

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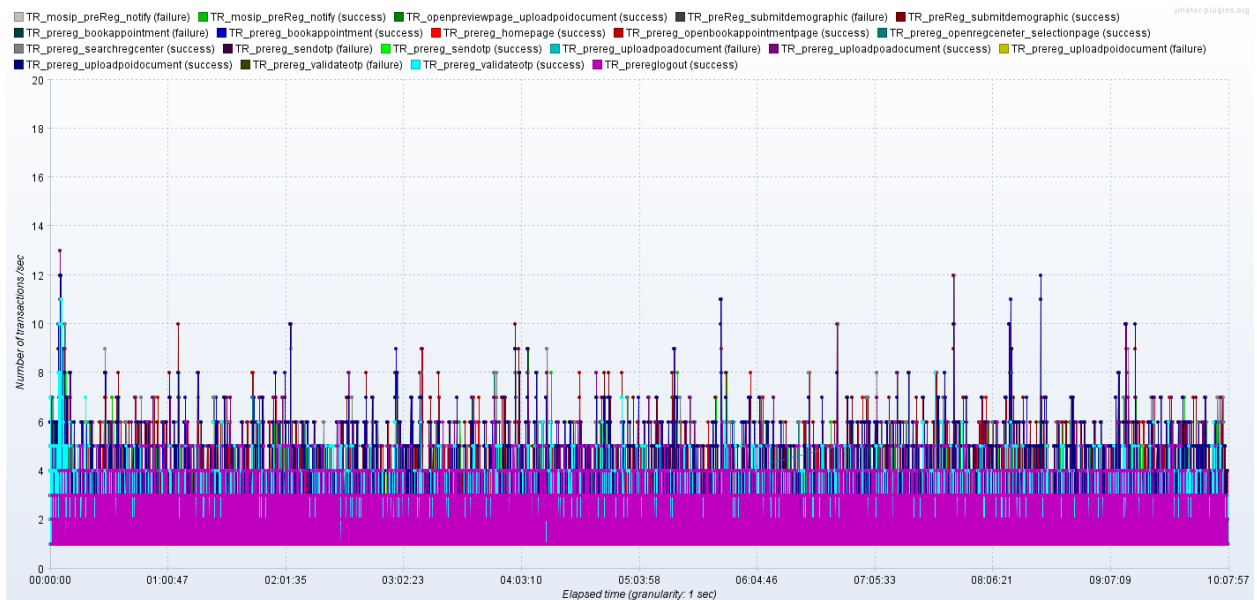
1. Homepage – 57.016 sec
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Transactions per second:



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 25200 pre-registration applications in 10 hours duration of test and as we are targeting 2 lac valid applications ,so we will be continuing executing in next performance runs.