Environment: Analysis was performed on TEST environment.

<u>General info:</u>

	Host	Type	IP	Hosted Applications	Ports
STAGING	EPUAKYIW1686T1	VM	10.17.175.63	EPUAKYIW1686T1.kyiv.epam.com	8080, 4444

<u>System resources (TEST env):</u>

CPU, GHz	Memory, Gb	Disk size, Gb
2	8.192	100

Test scenario

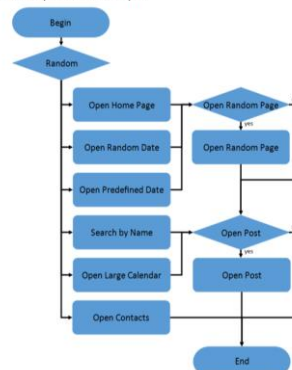There is a combined scenario which is to include the scripts:

• Task 4 (admin)

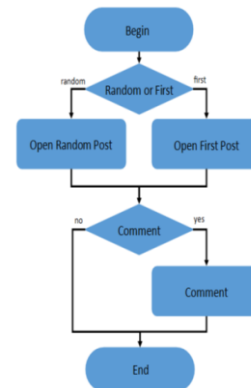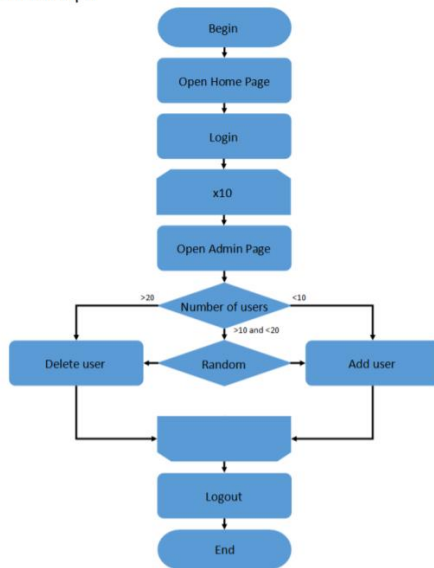• Task 5 (editor)

• Task 6 (anonymous)

Admin script

Begin
→ Open Home Page
→ Login
→ x10
→ Open Admin Page
→ Number of users

- >20 → Delete user
- >10 and <20 → Random
- <10 → Add user

→ Logout
→ End

Editor script

Begin
→ Open Home Page
→ Login
→ x50
→ Open Predefined Date
→ Open Random Post
→ Edit
→ Logout
→ End
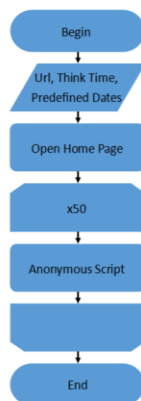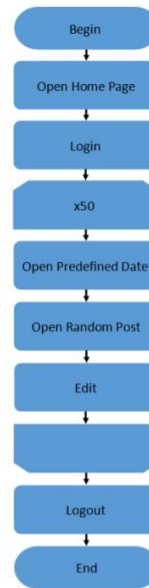
Test conditions

Transaction	Condition for anonymous script
open home page	15%
open random date	10%
open predefined date	30%
search by name	30%
open large calendar	10%
open contacts	5%
open random page	50%
open post	80%
open random post	65%
open first post	35%
add comment	20%

Test Setup

	Condition
number of virtual users	Up to 40 – Anonymous 2 – Admins 2 – Editors
ramp-up period(sec)	400 – Anonymous 30 – Admin 30 – Editor
duration(sec)	600
think time (sec)	3-5

Data Setup

Configuration	Posts amount	Posts data
1	2000	Text only
2	2000	Mixed

Test Results

Configuration	Avg throughput, ops	Avg response time, ms	Avg CPU %	Avg Processor time % for ISS
1	6.85	107	35	39
2	6.88	131	34	44

Test Summary

1 From gathered results, we can see only slight degradation on avg response time 107ms against 131ms.

2 Degradation could be found on Change Post transaction, Comment transaction, Open Admin Page transaction and slight(from 100ms to 300ms) degradation with the rest part of requests.

3 There is degradation on server in Processor time %.

Processor time % (avg)

39% - (1 Data configuration)

44% - (2 Data configuration)

Results: graphs and tables(for more details open dashboard HTMLReport > index)
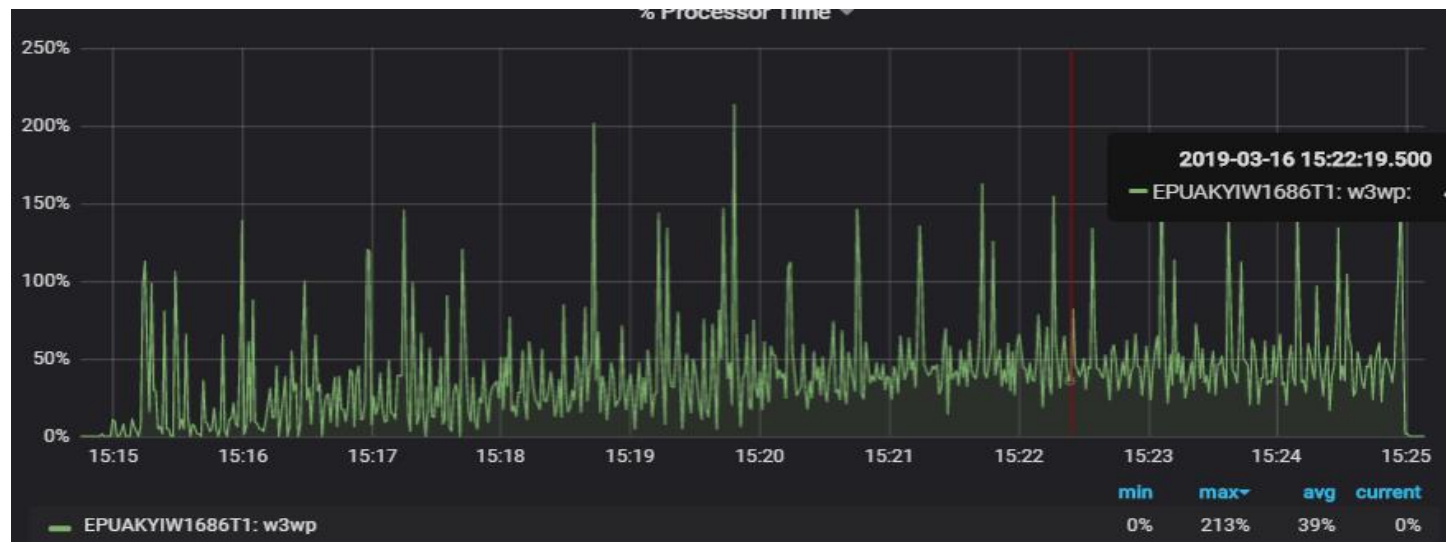
1 Metrics Overview

1 Data configuration

Request Name ▾	Count	Avg	Min	Max	Median	75%	90%	95%	99%
Open Users Page transaction	19	45.68 ms	10.00 ms	330.00 ms	15.00 ms	24.00 ms	41.00 ms	244.00 ms	330.00 ms
Open Random Post transaction	816	110.26 ms	32.00 ms	3.19 s	58.00 ms	76.00 ms	282.00 ms	322.00 ms	930.00 ms
Open Random Page transaction	765	115.73 ms	40.00 ms	4.38 s	63.00 ms	77.00 ms	103.00 ms	432.00 ms	933.00 ms
Open Predefined Date transaction	23	114.13 ms	38.00 ms	1.31 s	60.00 ms	65.00 ms	83.00 ms	115.00 ms	1.31 s
Open Home Page transaction	1564	99.49 ms	40.00 ms	4.23 s	63.00 ms	75.00 ms	92.00 ms	220.00 ms	983.00 ms
Open First Post transaction	433	107.88 ms	33.00 ms	2.14 s	57.00 ms	72.00 ms	266.00 ms	341.00 ms	978.00 ms
Open Admin Page transaction	19	145.95 ms	8.00 ms	2.55 s	9.00 ms	17.00 ms	23.00 ms	25.00 ms	2.55 s
Log in transaction	44	135.34 ms	55.00 ms	1.63 s	80.50 ms	97.00 ms	125.00 ms	474.00 ms	1.63 s
Go to log in page transaction	44	17.84 ms	7.00 ms	136.00 ms	13.00 ms	15.00 ms	23.00 ms	55.00 ms	136.00 ms
Go To Main Blog page transaction	44	78.93 ms	48.00 ms	426.00 ms	61.00 ms	75.00 ms	89.00 ms	125.00 ms	426.00 ms
Delete User transaction	7	31.14 ms	12.00 ms	80.00 ms	24.00 ms	26.00 ms	40.00 ms	80.00 ms	80.00 ms
Comment transaction	243	82.55 ms	36.00 ms	1.45 s	55.00 ms	69.00 ms	90.00 ms	115.00 ms	910.00 ms
Change Post transaction	21	1.02 s	844.00 ms	1.39 s	931.00 ms	1.18 s	1.26 s	1.33 s	1.39 s
Add User transaction	10	20.30 ms	11.00 ms	78.00 ms	13.00 ms	19.00 ms	21.00 ms	78.00 ms	78.00 ms

2 Data configuration

Request Name ▾	Count	Avg	Min	Max	Median	75%	90%	95%	99%
Open Users Page transaction	19	74.53 ms	11.00 ms	931.00 ms	21.00 ms	24.00 ms	50.00 ms	147.00 ms	931.00 ms
Open Random Post transaction	818	161.25 ms	33.00 ms	3.13 s	61.00 ms	87.00 ms	400.00 ms	611.00 ms	1.36 s
Open Random Page transaction	760	134.01 ms	41.00 ms	5.00 s	65.00 ms	77.00 ms	109.00 ms	579.00 ms	1.24 s
Open Predefined Date transaction	23	56.26 ms	39.00 ms	75.00 ms	58.00 ms	65.00 ms	68.00 ms	70.00 ms	75.00 ms
Open Home Page transaction	1555	115.94 ms	41.00 ms	5.53 s	65.00 ms	79.00 ms	115.00 ms	404.00 ms	1.08 s
Open First Post transaction	432	123.17 ms	33.00 ms	2.11 s	61.00 ms	76.00 ms	336.00 ms	401.00 ms	1.12 s
Open Admin Page transaction	20	305.30 ms	8.00 ms	3.55 s	14.00 ms	17.00 ms	36.00 ms	2.31 s	3.55 s
Log in transaction	44	137.86 ms	58.00 ms	1.44 s	79.50 ms	92.00 ms	348.00 ms	419.00 ms	1.44 s
Go to log in page transaction	44	20.73 ms	7.00 ms	344.00 ms	8.00 ms	14.00 ms	18.00 ms	27.00 ms	344.00 ms
Go To Main Blog page transaction	44	76.61 ms	41.00 ms	169.00 ms	69.50 ms	79.00 ms	119.00 ms	130.00 ms	169.00 ms
Delete User transaction	9	28.22 ms	12.00 ms	79.00 ms	20.00 ms	30.00 ms	42.00 ms	79.00 ms	79.00 ms
Comment transaction	242	106.11 ms	32.00 ms	1.41 s	62.00 ms	74.00 ms	109.00 ms	399.00 ms	1.01 s
Change Post transaction	21	1.29 s	951.00 ms	2.65 s	1.23 s	1.40 s	1.47 s	1.87 s	2.65 s
Add User transaction	9	29.56 ms	11.00 ms	67.00 ms	26.00 ms	33.00 ms	38.00 ms	67.00 ms	67.00 ms

2 Processor time %

1 Data configuration

2 Data configuration

% Processor Time