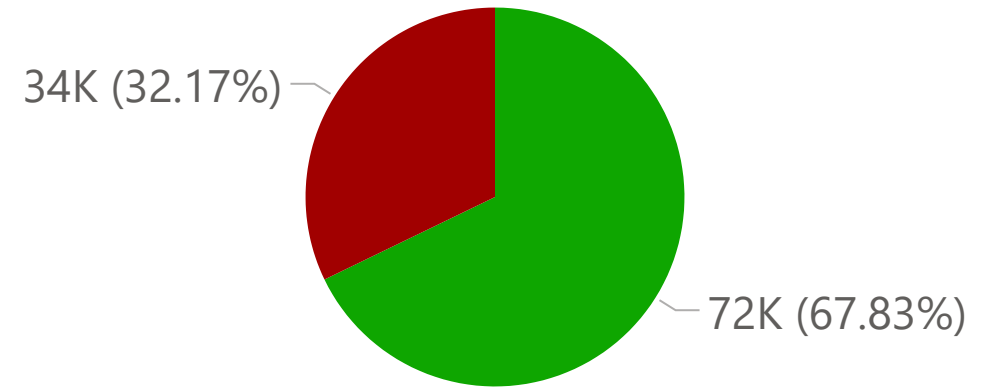


library management system

Request Count and fail Count (POST & GET tests together)

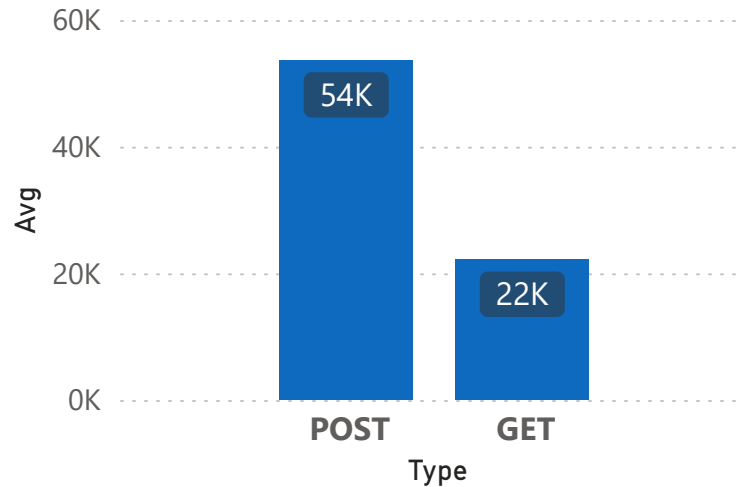
- Request count
- Fails count



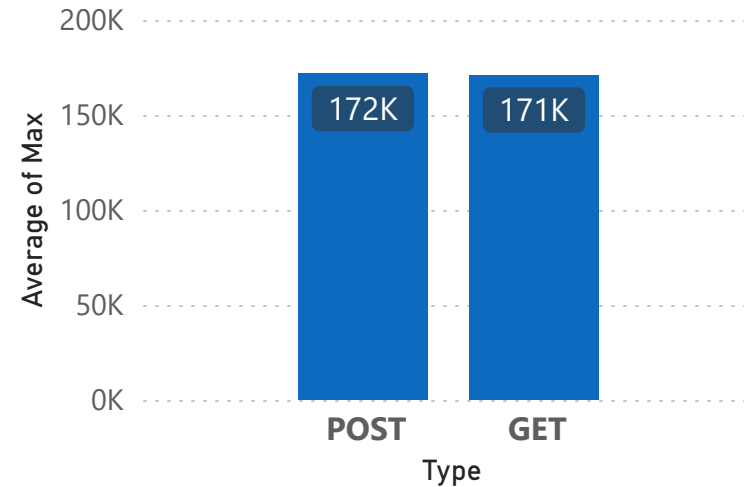
response time test

- all values is in milliseconds

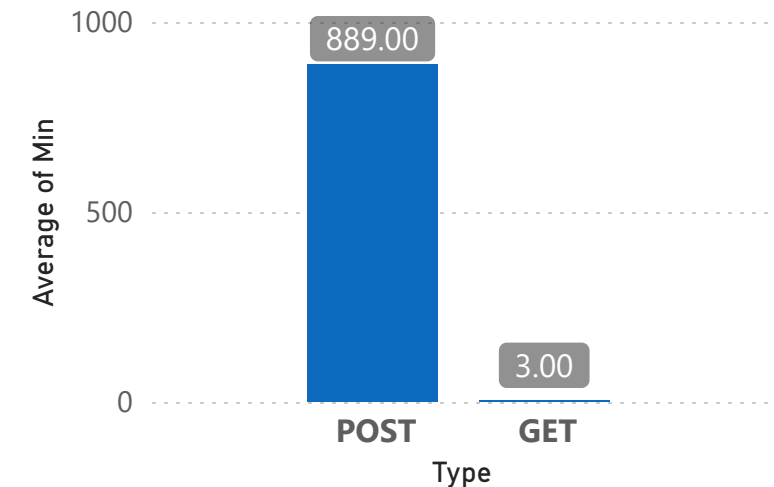
Avg by Type



Average of Max by Type



Average of Min by Type



- this to test large number of users registrations (the POST test)
- also test requests to get all each user profile data (the GET test 1)
- and test requests to get the reservations of each user (the GET test2)

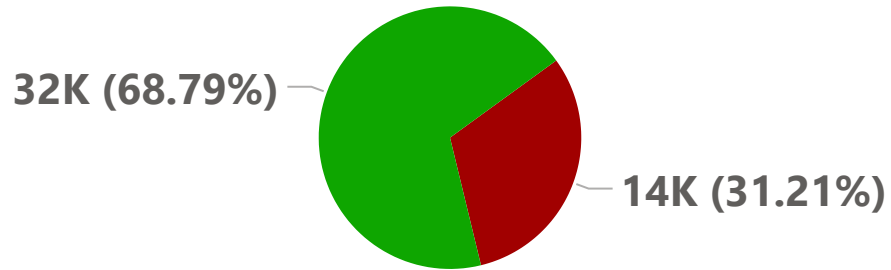
- we did 63872 --> GET request
- we did 8452 --> POST request
- 5000 users do requests simultaneously

test 2

user registration and requests

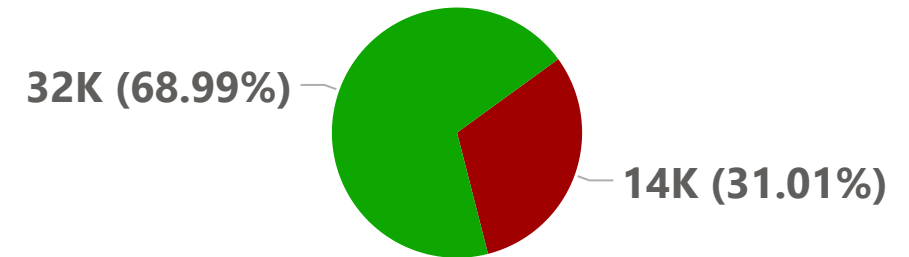
Failures VS Success

failure percentage of user reservation request
(GET)



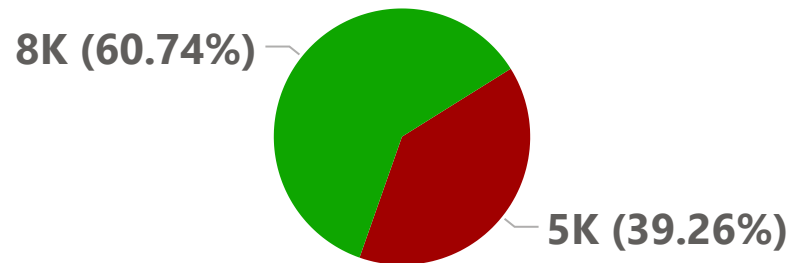
● total fails ● total requests

failure percentage of user profile request
(GET)



● total fails ● total requests

failure percentage of user registration request
(POST)



● total fails ● total requests

some notes

1) this tests done via a remote distances from a host PC to a server that is been published by the backend developer.

2) the POST test has failed in this test about 5400 times BUT the test re-do the failed requests and the total wanted users to be registered (5000 user) has been successfully registered and verified by the backend developer (fathy mohamed fathy).

3) this test is for the patron users simulate large number of traffic by only them on the server WITHOUT taking in the account the traffic of the admins or the librarians.

4) the network between the host PC and the receiver has NOT been very stable and this lead to failed requests.

test 2

user registration and requests

Failure Error Codes

Error	# occurrences
GET /api/v1/book/getResrevations: ConnectionAbortedError(10053, 'An established connection was aborted by the software in your host machine', None, 10053, None)	532
GET /api/v1/book/getResrevations: ConnectionResetError(10054, 'An existing connection was forcibly closed by the remote host', None, 10054, None)	65
GET /api/v1/book/getResrevations: ConnectTimeoutError(<urllib3.connection.HTTPConnection object at 0x000001F81F127F90>, 'Connection to 5.181.177.3	10066
GET /api/v1/book/getResrevations: HTTPError('401 Client Error: Unauthorized for url: /api/v1/book/getResrevations')	768
GET /api/v1/book/getResrevations: RemoteDisconnected('Remote end closed connection without response')	3060
GET /api/v1/user/profile: ConnectionAbortedError(10053, 'An established connection was aborted by the software in your host machine', None, 10053,	473
GET /api/v1/user/profile: ConnectionResetError(10054, 'An existing connection was forcibly closed by the remote host', None, 10054, None)	62
GET /api/v1/user/profile: ConnectTimeoutError(<urllib3.connection.HTTPConnection object at 0x000001F827712C90>, 'Connection to 5.181.177.3 timed out. (connect timeout=None)')	10071
GET /api/v1/user/profile: HTTPError('401 Client Error: Unauthorized for url: /api/v1/user/profile')	790
GET /api/v1/user/profile: RemoteDisconnected('Remote end closed connection without response')	2954
POST /api/v1/user/register: ConnectionResetError(10054, 'An existing connection was forcibly closed by the remote host', None, 10054, None)	128
POST /api/v1/user/register: ConnectTimeoutError(<urllib3.connection.HTTPConnection object at 0x000001F8258CD310>, 'Connection to 5.181.177.3 timed out)	4819
POST /api/v1/user/register: HTTPError('400 Client Error: Bad Request for url: /api/v1/user/register')	147
POST /api/v1/user/register: HTTPError('500 Server Error: Internal Server Error for url: /api/v1/user/register')	1
POST /api/v1/user/register: RemoteDisconnected('Remote end closed connection without response')	369

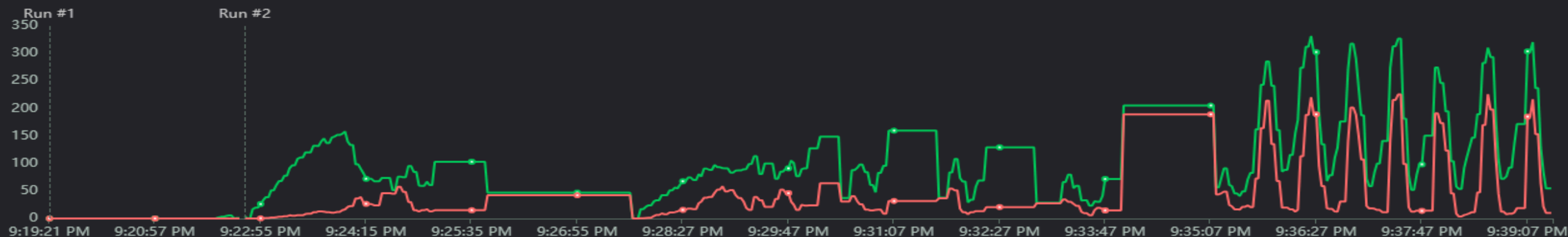
test 2

user registration and requests

Total Requests per Second

● RPS ● Failures/s

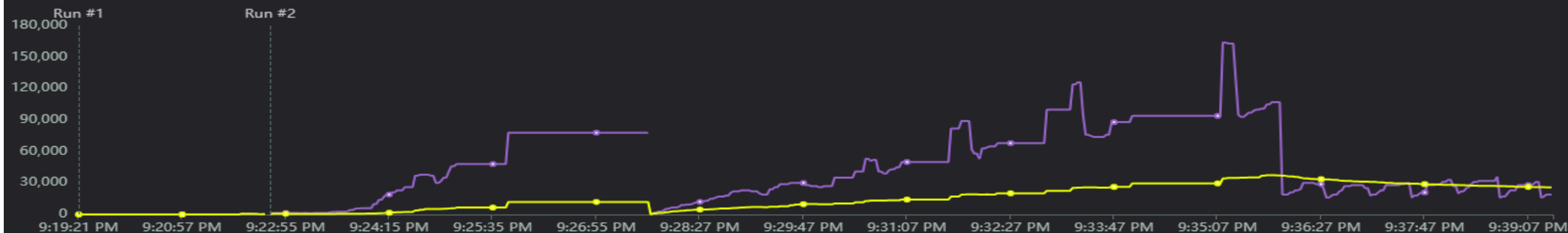
Download as PNG



Response Times (ms)

● 95th percentile ● Average Response Time

Download as PNG



Number of Users

● Number of Users

total number of users
has been achieved
(5000 users)

about 3000 active users do
requests of getting the
reservations and profile data

