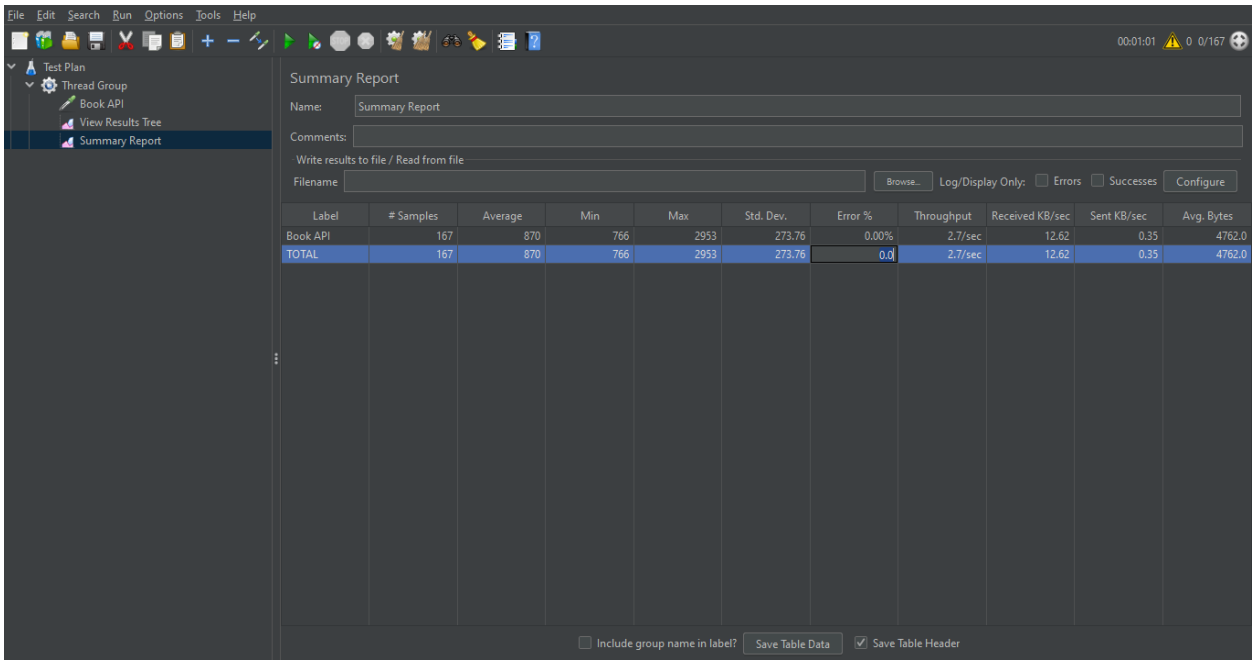
Step-1: 167 users for 60 sec

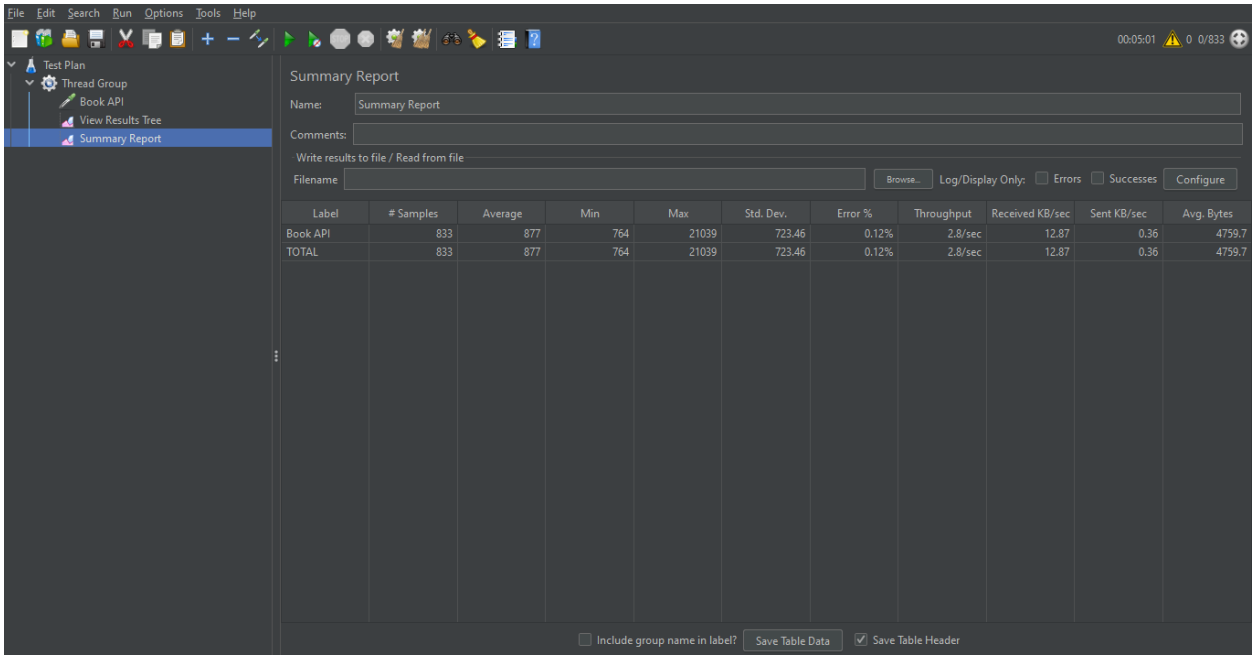
Throughput: 2.7/sec



Step-2: 833 users for 300sec

Throughput: 2.8/sec

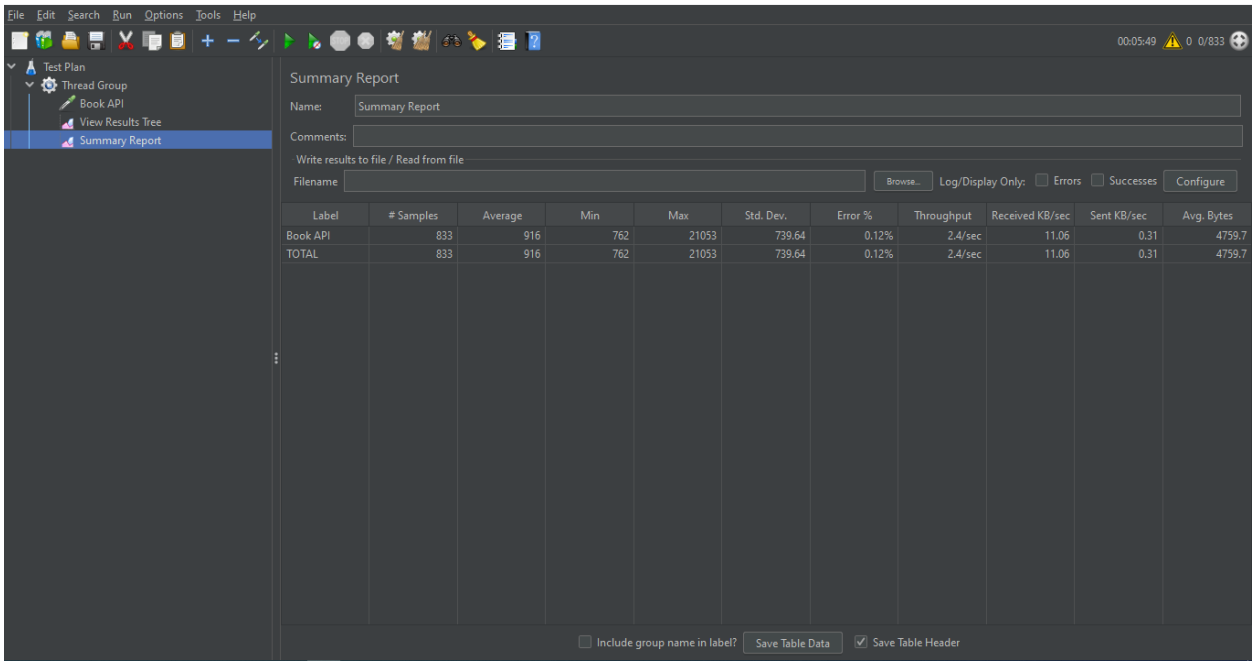
Error: 0.12%



Step-3: 833 users for 350 sec

Throughput: 2.4/sec

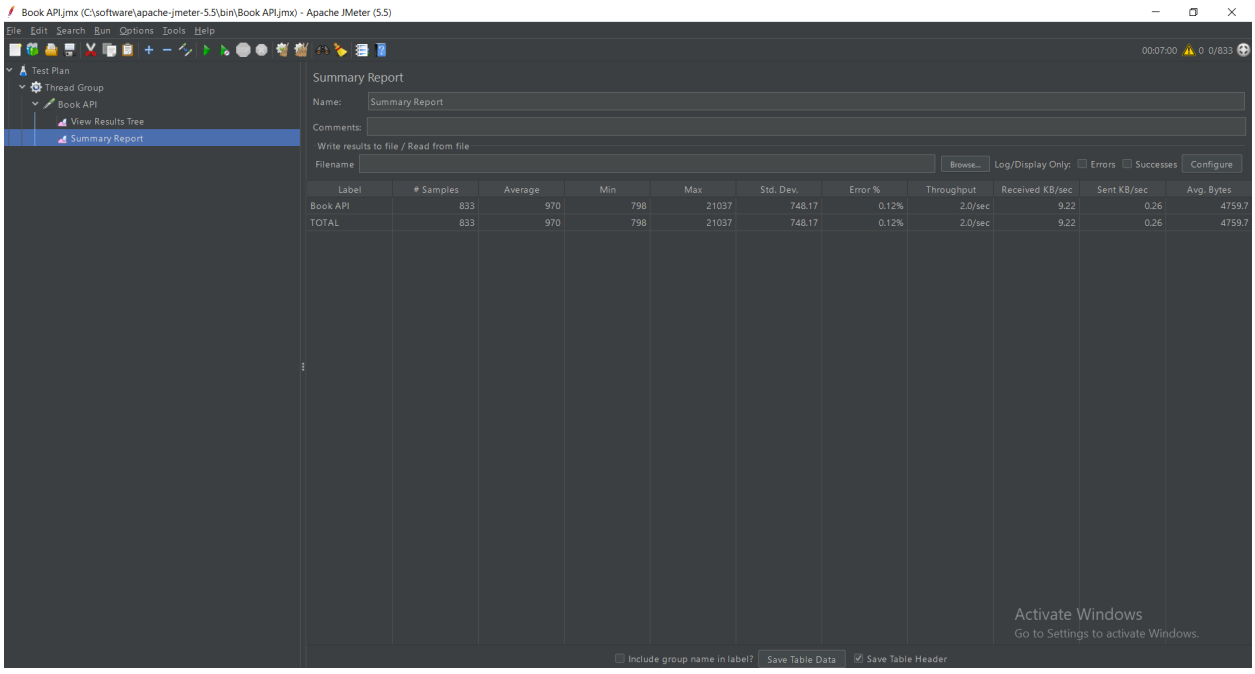
Error: 0.12%



Step-4: 833 users for 420 sec

Throughput: 2.0/sec

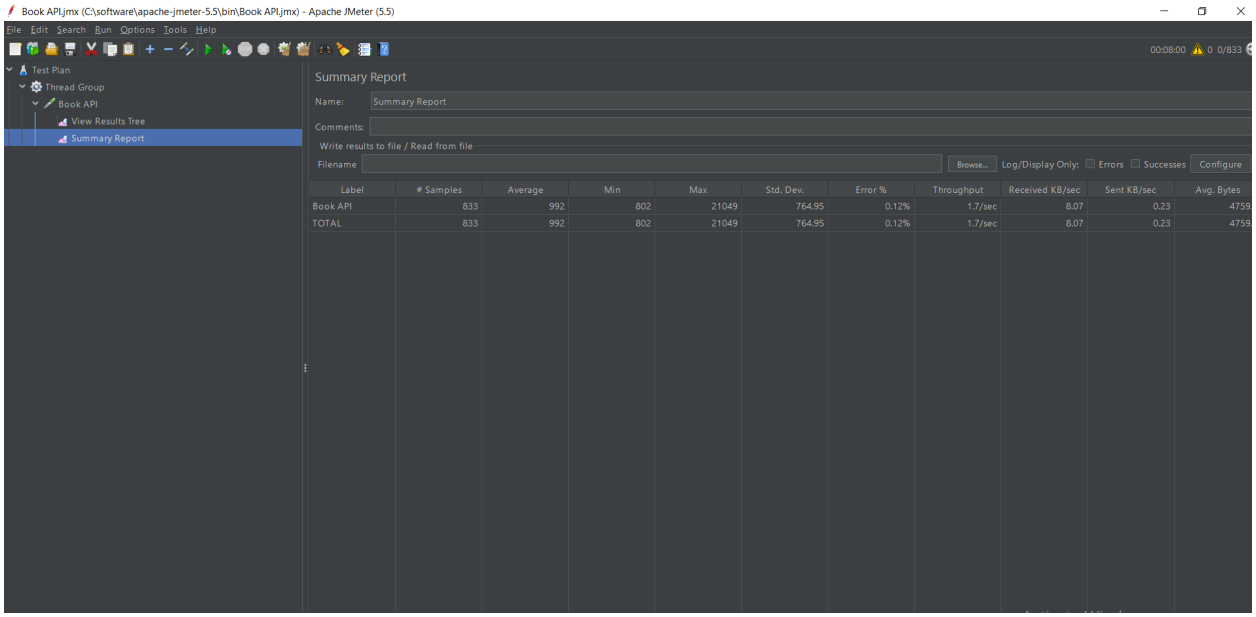
Error: 0.12%



Step-5: 833 users for 480 sec

Throughput: 1.7/sec

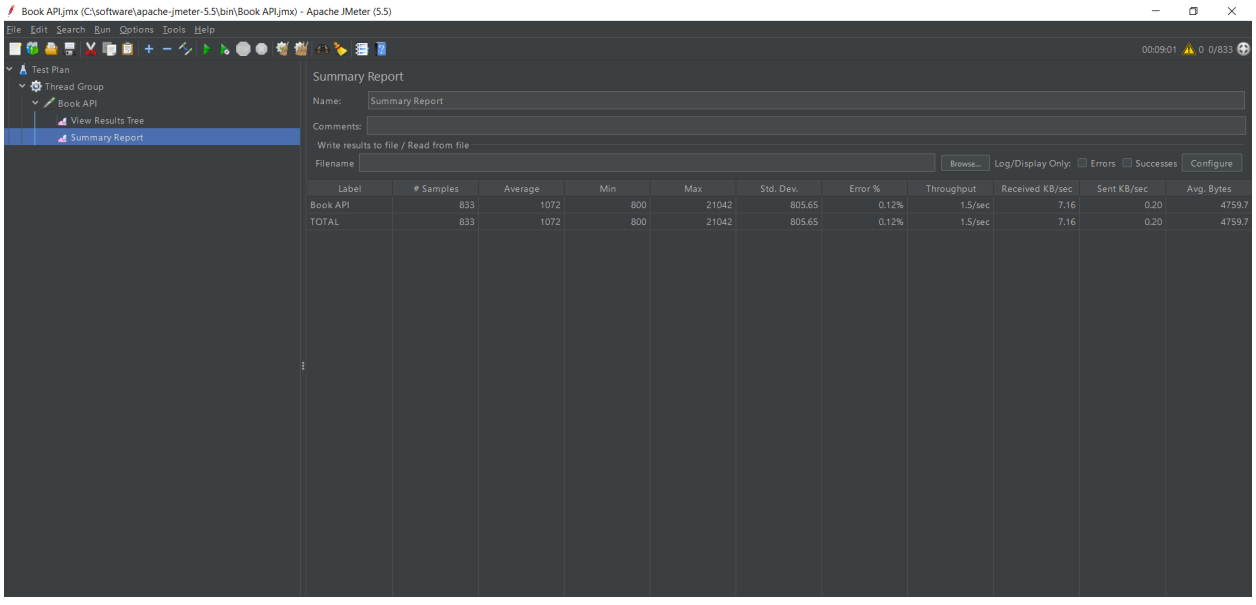
Error: 0.12%



Step-6: 833 users for 540 sec

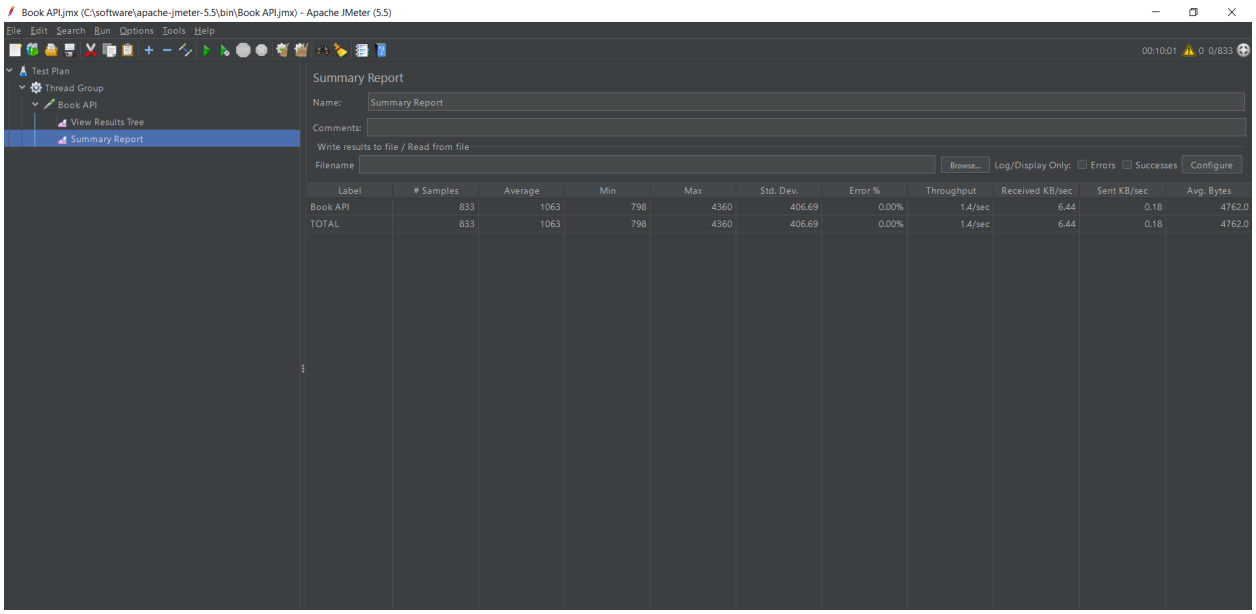
Throughput: 1.5/sec

Error: 0.12%



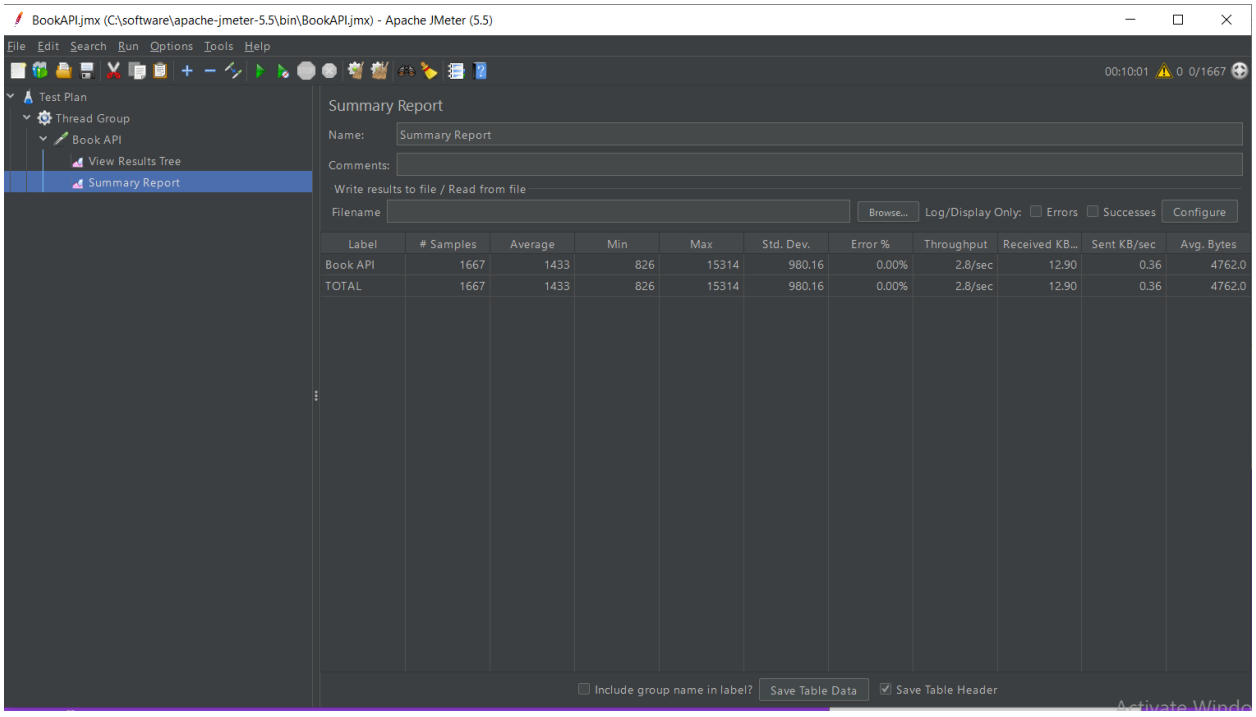
Step-7: 833 users for 600 sec

Throughput: 1.4/sec



Step-8: 1667 users for 600 sec

Throughput: 2.8/sec



Step-9: 900 users for 2500 sec

Throughput: 2.8/sec

```
ASUS@DESKTOP-AIPAOG6 MINGW64 /c/software/apache-jmeter-5.5/bin
$ jmeter -n -t BookAPI.jmx -l BookAPI.csv -e -o Reports
Creating summariser <summary>
Created the tree successfully using BookAPI.jmx
Starting standalone test @ June 27, 2022 3:47:01 PM BDT (1656323221482)
Waiting for possible Shutdown/StopTestNow/HeapDump/ThreadDump message on port 44
45
summary +     74 in 00:00:28 =    2.7/s Avg:  2003 Min:   841 Max:  5359 Err:
  0 (0.00%) Active: 4 Started: 77 Finished: 73
summary +     84 in 00:00:30 =    2.8/s Avg:  1054 Min:   803 Max:  2993 Err:
  0 (0.00%) Active: 3 Started: 160 Finished: 157
summary =    158 in 00:00:58 =    2.7/s Avg:  1499 Min:   803 Max:  5359 Err:
  0 (0.00%)
summary +     79 in 00:00:30 =    2.6/s Avg:  1953 Min:   823 Max:  7562 Err:
  0 (0.00%) Active: 7 Started: 243 Finished: 236
summary =    237 in 00:01:28 =    2.7/s Avg:  1650 Min:   803 Max:  7562 Err:
  0 (0.00%)
summary +     87 in 00:00:30 =    2.9/s Avg:  1432 Min:   829 Max: 12956 Err:
  0 (0.00%) Active: 3 Started: 326 Finished: 323
summary =    324 in 00:01:57 =    2.8/s Avg:  1592 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1085 Min:   810 Max:  2939 Err:
  0 (0.00%) Active: 3 Started: 410 Finished: 407
summary =    408 in 00:02:27 =    2.8/s Avg:  1487 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     82 in 00:00:30 =    2.7/s Avg:  1594 Min:   838 Max:  6474 Err:
  0 (0.00%) Active: 4 Started: 493 Finished: 489
summary =    490 in 00:02:57 =    2.8/s Avg:  1505 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1049 Min:   809 Max:  3002 Err:
  0 (0.00%) Active: 4 Started: 577 Finished: 573
summary =    574 in 00:03:28 =    2.8/s Avg:  1438 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1090 Min:   809 Max:  2665 Err:
  0 (0.00%) Active: 3 Started: 660 Finished: 657
summary =    658 in 00:03:57 =    2.8/s Avg:  1394 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     81 in 00:00:30 =    2.7/s Avg:  1031 Min:   808 Max:  3892 Err:
  0 (0.00%) Active: 5 Started: 743 Finished: 738
summary =    739 in 00:04:27 =    2.8/s Avg:  1354 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     85 in 00:00:30 =    2.8/s Avg:  1224 Min:   820 Max:  3002 Err:
  0 (0.00%) Active: 3 Started: 826 Finished: 823
summary =    824 in 00:04:57 =    2.8/s Avg:  1341 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     82 in 00:00:30 =    2.7/s Avg:  1146 Min:   805 Max:  2643 Err:
  0 (0.00%) Active: 5 Started: 910 Finished: 905
summary =    906 in 00:05:28 =    2.8/s Avg:  1323 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1256 Min:   824 Max:  4081 Err:
  0 (0.00%) Active: 5 Started: 993 Finished: 988
summary =    989 in 00:05:58 =    2.8/s Avg:  1318 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1172 Min:   807 Max:  2522 Err:
  0 (0.00%) Active: 5 Started: 1076 Finished: 1071
summary =   1072 in 00:06:27 =    2.8/s Avg:  1306 Min:   803 Max: 12956 Err:
  0 (0.00%)
```

MINGW64:/c/software/apache-jmeter-5.5/bin

```
summary +     83 in 00:00:30 =    2.8/s Avg:  1172 Min:   807 Max:  2522 Err:
  0 (0.00%) Active: 5 Started: 1076 Finished: 1071
summary =   1072 in 00:06:27 =    2.8/s Avg:  1306 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     86 in 00:00:30 =    2.9/s Avg:  1280 Min:   817 Max:  2732 Err:
  0 (0.00%) Active: 3 Started: 1160 Finished: 1157
summary =   1158 in 00:06:58 =    2.8/s Avg:  1304 Min:   803 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1119 Min:   799 Max:  3639 Err:
  0 (0.00%) Active: 3 Started: 1243 Finished: 1240
summary =   1241 in 00:07:27 =    2.8/s Avg:  1292 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.7/s Avg:  1269 Min:   815 Max:  4855 Err:
  0 (0.00%) Active: 4 Started: 1327 Finished: 1323
summary =   1324 in 00:07:58 =    2.8/s Avg:  1290 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1329 Min:   818 Max:  3382 Err:
  0 (0.00%) Active: 5 Started: 1411 Finished: 1406
summary =   1407 in 00:08:28 =    2.8/s Avg:  1293 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1397 Min:   810 Max:  4098 Err:
  0 (0.00%) Active: 3 Started: 1493 Finished: 1490
summary =   1491 in 00:08:57 =    2.8/s Avg:  1299 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1194 Min:   809 Max:  3768 Err:
  0 (0.00%) Active: 3 Started: 1577 Finished: 1574
summary =   1575 in 00:09:28 =    2.8/s Avg:  1293 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:   935 Min:   807 Max:  2080 Err:
  0 (0.00%) Active: 3 Started: 1660 Finished: 1657
summary =   1658 in 00:09:57 =    2.8/s Avg:  1275 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     82 in 00:00:30 =    2.7/s Avg:  1040 Min:   825 Max:  3102 Err:
  0 (0.00%) Active: 4 Started: 1743 Finished: 1739
summary =   1740 in 00:10:27 =    2.8/s Avg:  1264 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1624 Min:   814 Max:  4206 Err:
  0 (0.00%) Active: 3 Started: 1826 Finished: 1823
summary =   1824 in 00:10:57 =    2.8/s Avg:  1281 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1500 Min:   810 Max:  7033 Err:
  0 (0.00%) Active: 3 Started: 1909 Finished: 1906
summary =   1907 in 00:11:27 =    2.8/s Avg:  1290 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1225 Min:   817 Max:  3242 Err:
  0 (0.00%) Active: 4 Started: 1993 Finished: 1989
summary =   1990 in 00:11:58 =    2.8/s Avg:  1287 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     81 in 00:00:30 =    2.7/s Avg:  1410 Min:   825 Max:  3917 Err:
  0 (0.00%) Active: 6 Started: 2076 Finished: 2070
summary =   2071 in 00:12:27 =    2.8/s Avg:  1292 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     85 in 00:00:30 =    2.8/s Avg:  1321 Min:   816 Max:  3761 Err:
  0 (0.00%) Active: 4 Started: 2159 Finished: 2155
summary =   2156 in 00:12:57 =    2.8/s Avg:  1293 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1584 Min:   829 Max:  4805 Err:
  0 (0.00%) Active: 4 Started: 2243 Finished: 2239
```

MINGW64:/c/software/apache-jmeter-5.5/bin

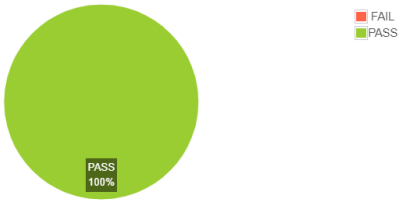
```
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1194 Min:   809 Max:  3768 Err:
  0 (0.00%) Active: 3 Started: 1577 Finished: 1574
summary =   1575 in 00:09:28 =    2.8/s Avg:  1293 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:   935 Min:   807 Max:  2080 Err:
  0 (0.00%) Active: 3 Started: 1660 Finished: 1657
summary =   1658 in 00:09:57 =    2.8/s Avg:  1275 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     82 in 00:00:30 =    2.7/s Avg:  1040 Min:   825 Max:  3102 Err:
  0 (0.00%) Active: 4 Started: 1743 Finished: 1739
summary =   1740 in 00:10:27 =    2.8/s Avg:  1264 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1624 Min:   814 Max:  4206 Err:
  0 (0.00%) Active: 3 Started: 1826 Finished: 1823
summary =   1824 in 00:10:57 =    2.8/s Avg:  1281 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1500 Min:   810 Max:  7033 Err:
  0 (0.00%) Active: 3 Started: 1909 Finished: 1906
summary =   1907 in 00:11:27 =    2.8/s Avg:  1290 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1225 Min:   817 Max:  3242 Err:
  0 (0.00%) Active: 4 Started: 1993 Finished: 1989
summary =   1990 in 00:11:58 =    2.8/s Avg:  1287 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     81 in 00:00:30 =    2.7/s Avg:  1410 Min:   825 Max:  3917 Err:
  0 (0.00%) Active: 6 Started: 2076 Finished: 2070
summary =   2071 in 00:12:27 =    2.8/s Avg:  1292 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     85 in 00:00:30 =    2.8/s Avg:  1321 Min:   816 Max:  3761 Err:
  0 (0.00%) Active: 4 Started: 2159 Finished: 2155
summary =   2156 in 00:12:57 =    2.8/s Avg:  1293 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     84 in 00:00:30 =    2.8/s Avg:  1584 Min:   829 Max:  4805 Err:
  0 (0.00%) Active: 4 Started: 2243 Finished: 2239
summary =   2240 in 00:13:27 =    2.8/s Avg:  1304 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.8/s Avg:  1139 Min:   816 Max:  2507 Err:
  0 (0.00%) Active: 4 Started: 2326 Finished: 2322
summary =   2323 in 00:13:57 =    2.8/s Avg:  1298 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     83 in 00:00:30 =    2.7/s Avg:  1678 Min:   814 Max:  4749 Err:
  0 (0.00%) Active: 6 Started: 2411 Finished: 2405
summary =   2406 in 00:14:28 =    2.8/s Avg:  1311 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +     85 in 00:00:30 =    2.9/s Avg:  1770 Min:   803 Max:  5279 Err:
  0 (0.00%) Active: 3 Started: 2493 Finished: 2490
summary =   2491 in 00:14:57 =    2.8/s Avg:  1327 Min:   799 Max: 12956 Err:
  0 (0.00%)
summary +      9 in 00:00:03 =    2.7/s Avg:   852 Min:   820 Max:   880 Err:
  0 (0.00%) Active: 0 Started: 2500 Finished: 2500
summary =   2500 in 00:15:01 =    2.8/s Avg:  1325 Min:   799 Max: 12956 Err:
  0 (0.00%)
Tidying up ...    @ June 27, 2022 4:02:03 PM BDT (1656324123346)
... end of run

ASUS@DESKTOP-AIPAOG6 MINGW64 /c/software/apache-jmeter-5.5/bin
$
```

HTML Report: 2500 users for 900sec

APDEX (Application Performance Index)

Apdex	T (Toleration threshold)	F (Frustration threshold)	Label
0.357	500 ms	1 sec 500 ms	Total
0.357	500 ms	1 sec 500 ms	Book API

Requests Summary



Statistics

Requests	Executions			Response Times (ms)							Throughput	Network (KB/sec)	
Label	#Samples	FAIL	Error %	Average	Min	Max	Median	90th pct	95th pct	99th pct	Transactions/s	Received	Sent
Total	2500	0	0.00%	1325.91	799	12956	921.50	2257.30	2689.80	3916.97	2.78	12.91	0.36
Book API	2500	0	0.00%	1325.91	799	12956	921.50	2257.30	2689.80	3916.97	2.78	12.91	0.36