Project Development Phase

Model Performance Test

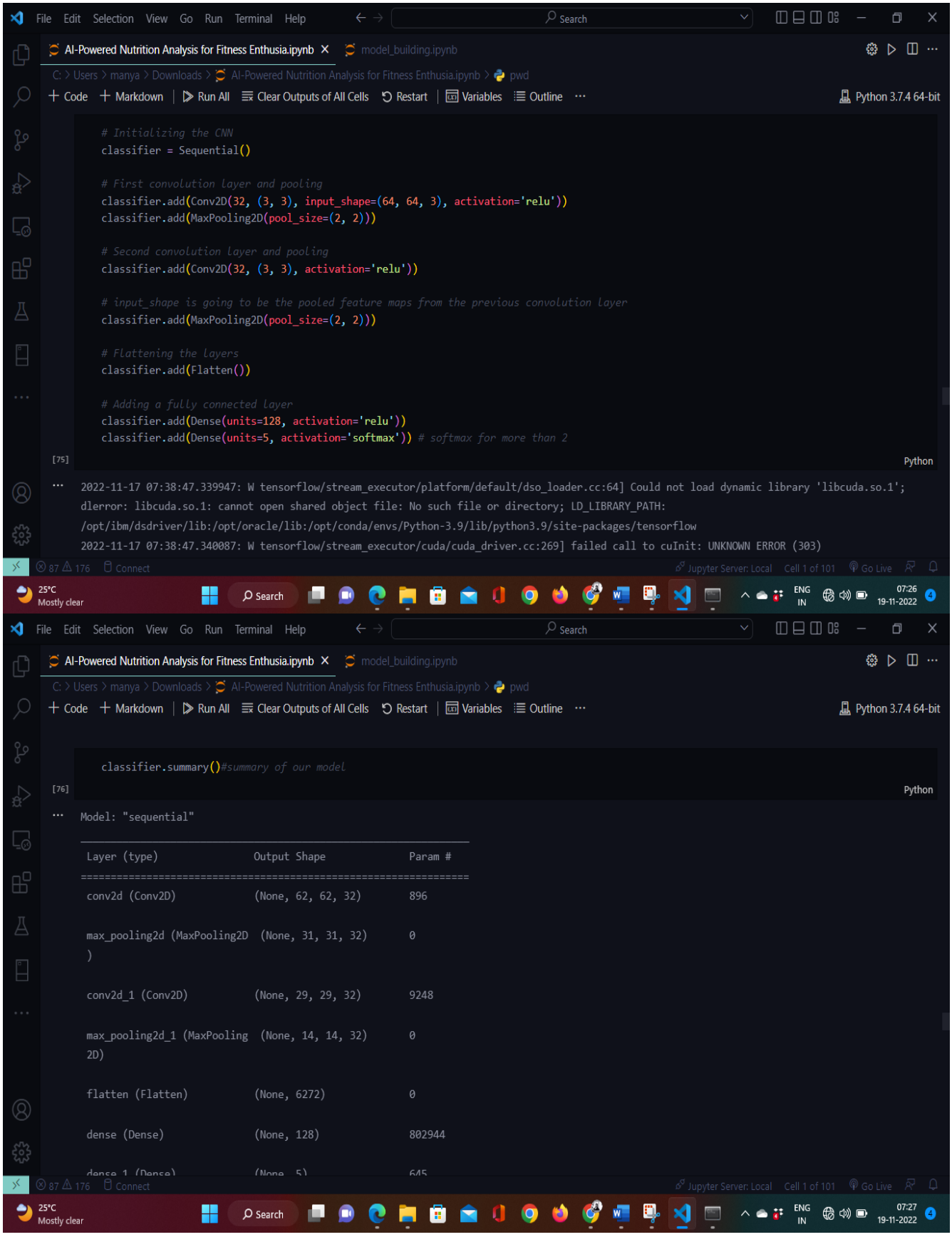
Date	18 November 2022
Team ID	PNT2022TMID27826
Project Name	AI-powered Nutrition Analyzer for Fitness Enthusiasts
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

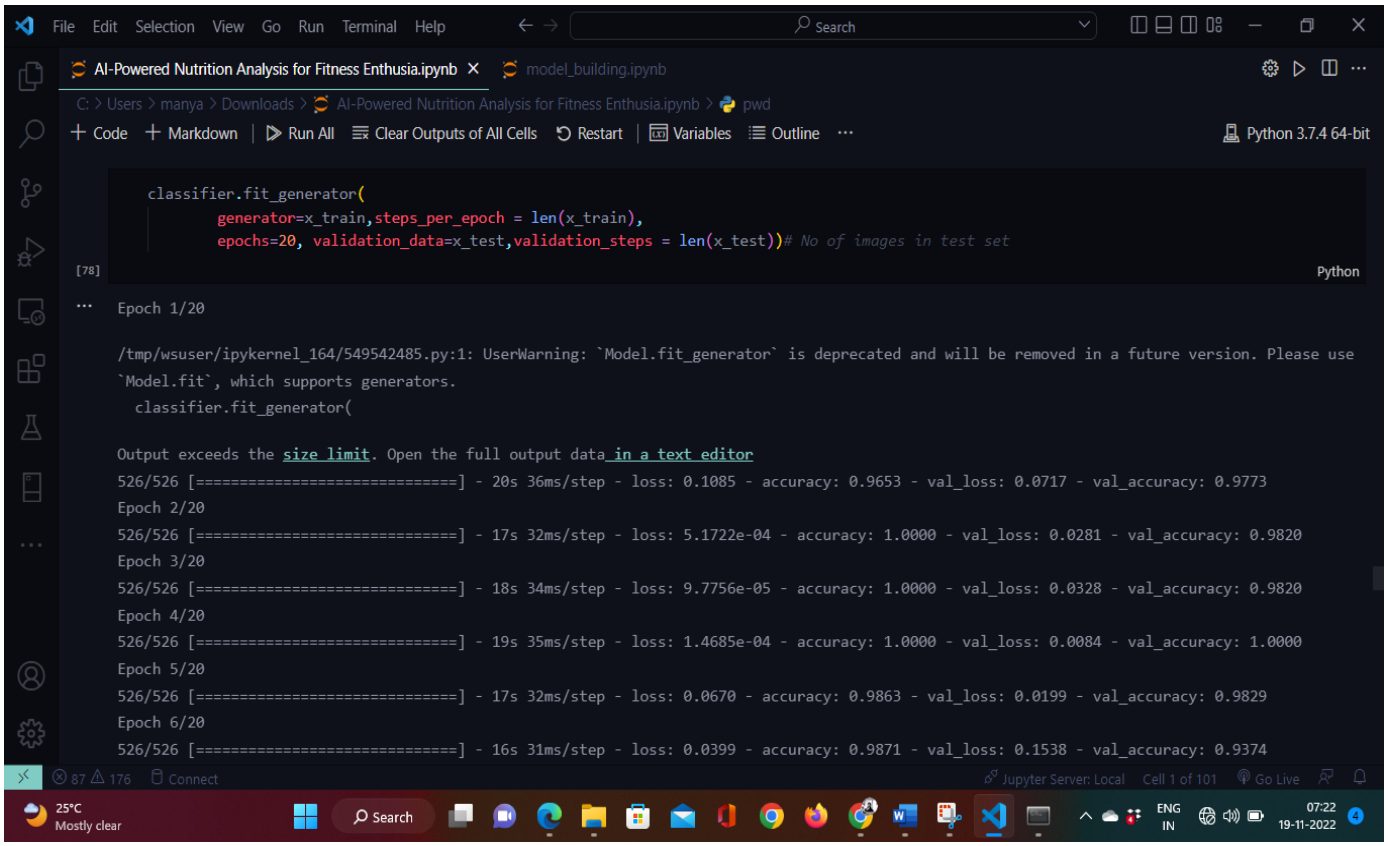
S.No.	Parameter	Values	Screenshot
1.	Model Summary	Classification Model: Sequential Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0	Attached below
2.	Accuracy	Training Accuracy - 95% Validation Accuracy - 93%	Attached below
3.	Confidence Score (Only Yolo Projects)	Class Detected - NIL Confidence Score - NIL	NIL

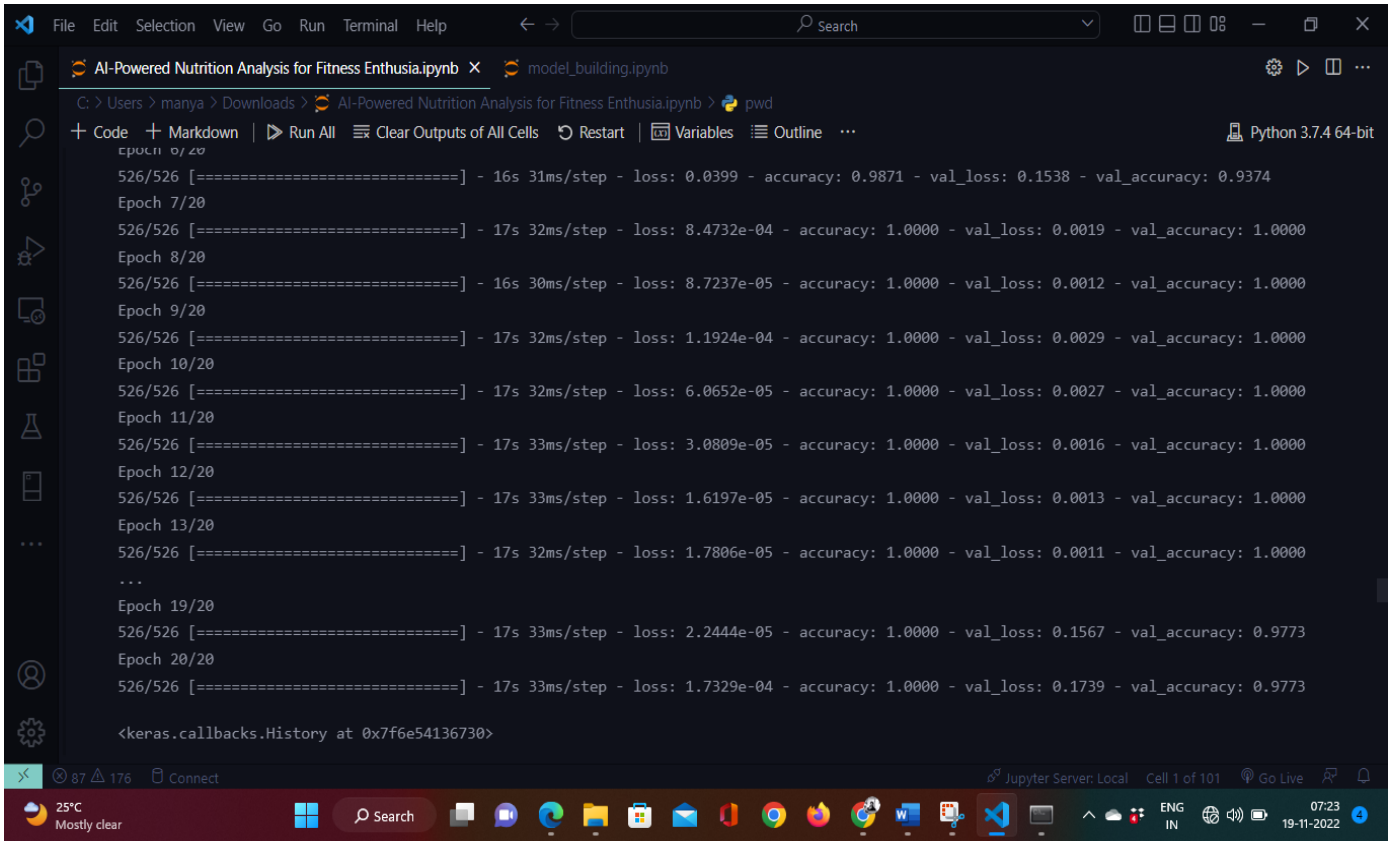
MODEL SUMMARY:



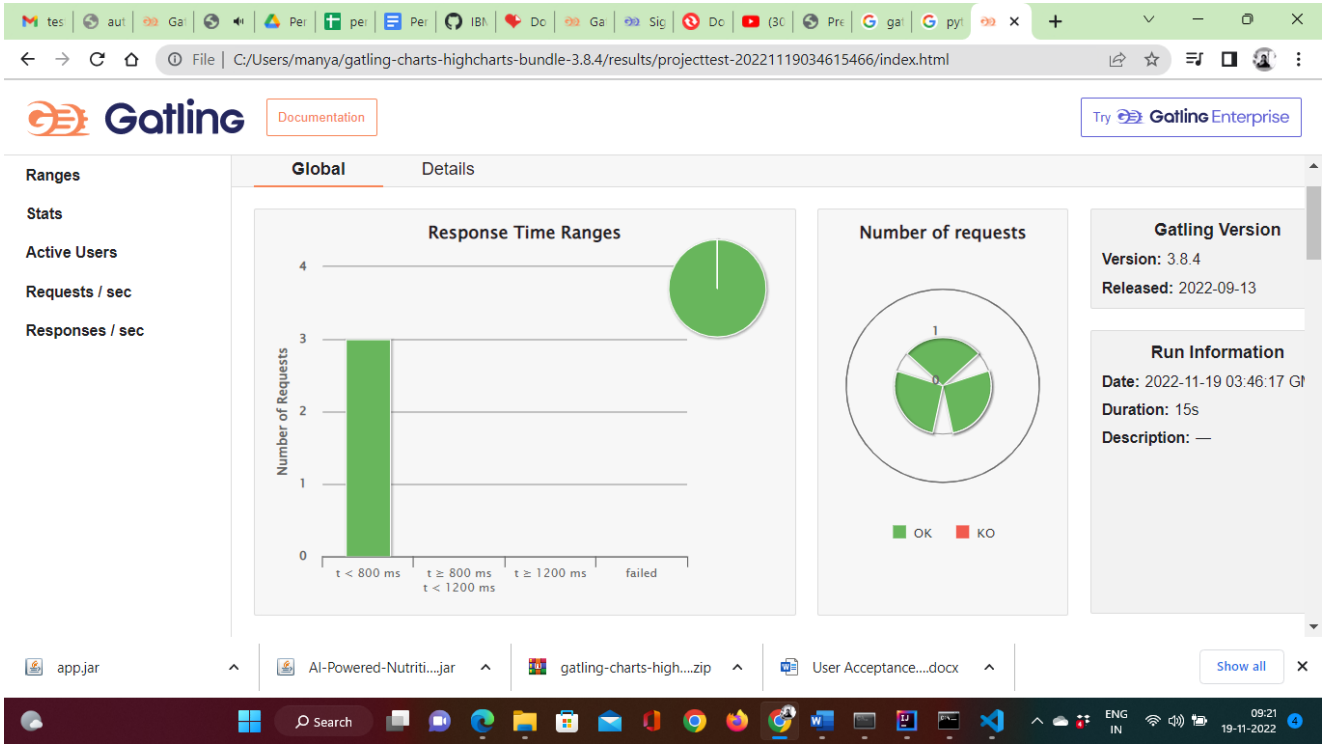

File Edit Selection View Go Run Terminal Help
AI-Powered Nutrition Analysis for Fitness Enthusia.ipynb
model_building.ipynb
C: > Users > manya > Downloads > AI-Powered Nutrition Analysis for Fitness Enthusia.ipynb > pwd
+ Code + Markdown | Run All Clear Outputs of All Cells Restart | Variables Outline ...
Python 3.7.4 64-bit
conv2d (Conv2D) (None, 62, 62, 32) 896
max_pooling2d (MaxPooling2D (None, 31, 31, 32) 0
)
conv2d_1 (Conv2D) (None, 29, 29, 32) 9248
max_pooling2d_1 (MaxPooling (None, 14, 14, 32) 0
2D)
flatten (Flatten) (None, 6272) 0
dense (Dense) (None, 128) 802944
dense_1 (Dense) (None, 5) 645
Total params: 813,733
Trainable params: 813,733
Non-trainable params: 0
+ Code + Markdown
Jupyter Server: Local Cell 1 of 101 Go Live
25°C Mostly clear
Search
ENG IN
07:27 19-11-2022

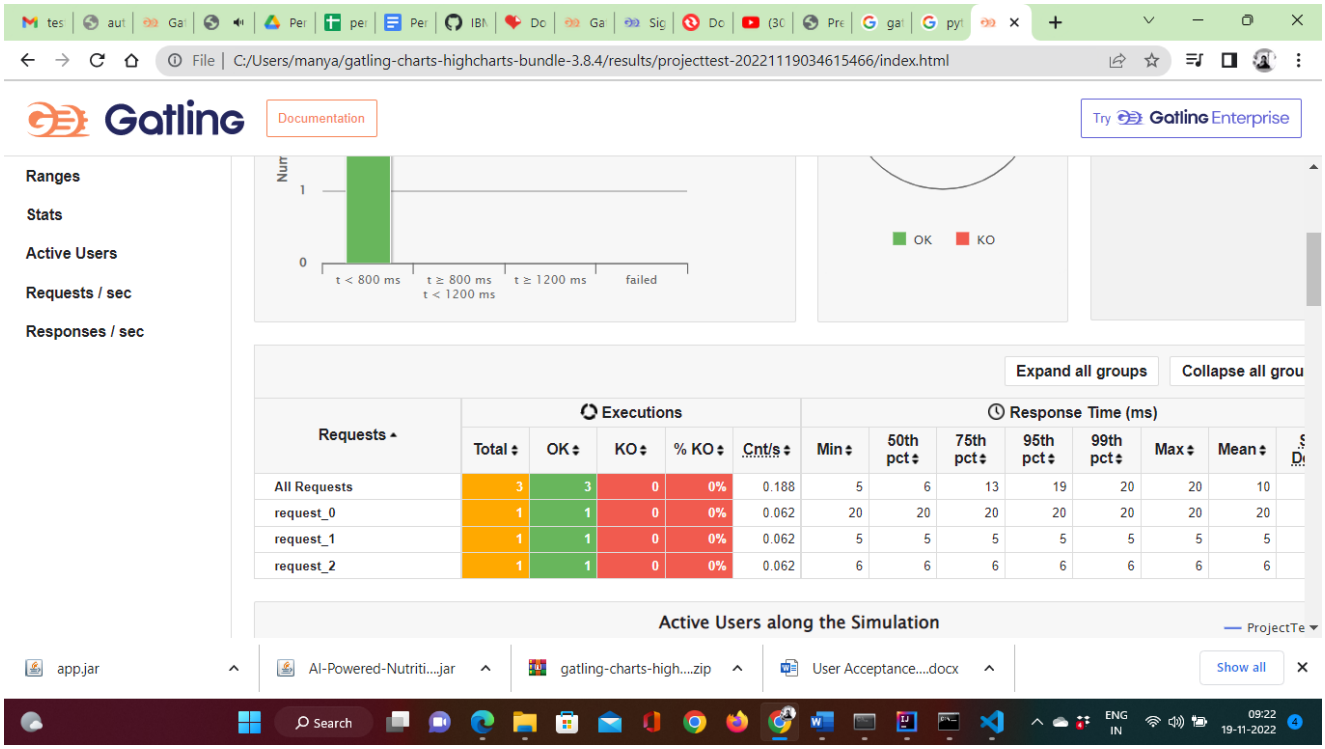
ACCURACY:

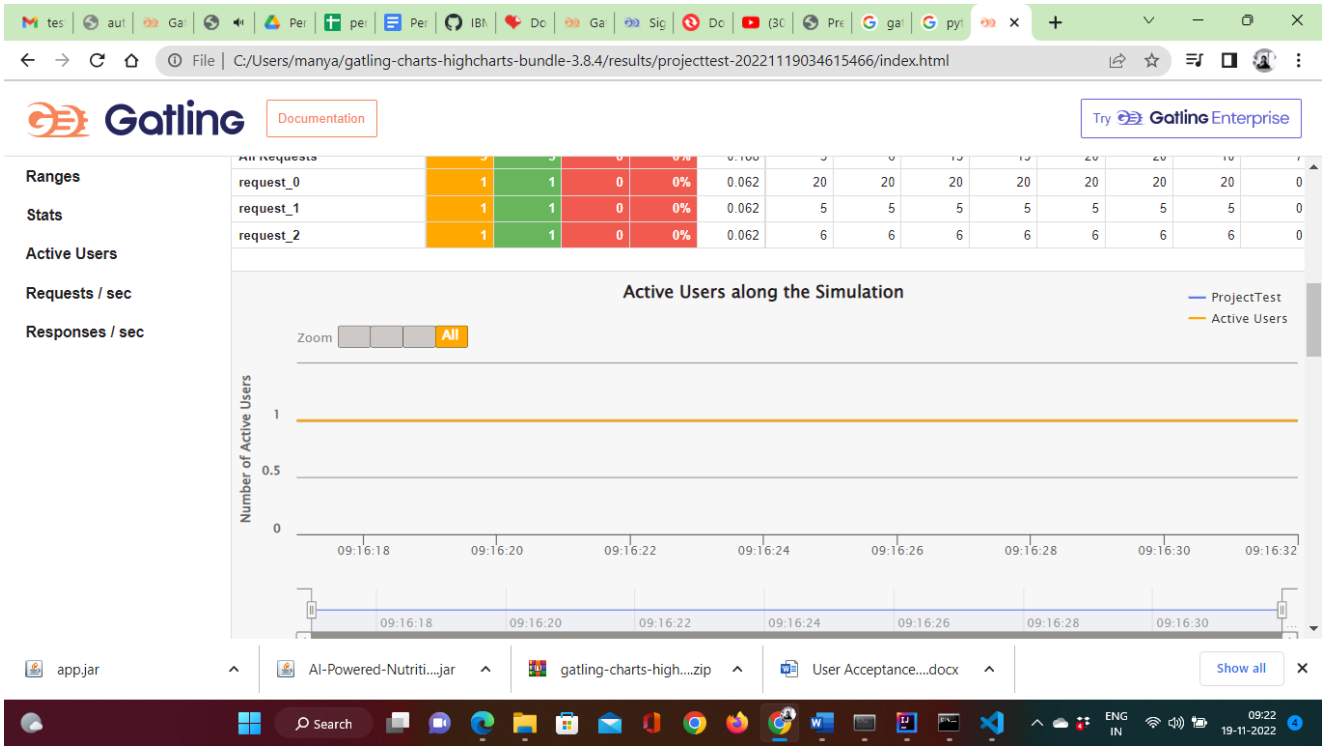

File Edit Selection View Go Run Terminal Help
AI-Powered Nutrition Analysis for Fitness Enthusia.ipynb
model_building.ipynb
C: > Users > manya > Downloads > AI-Powered Nutrition Analysis for Fitness Enthusia.ipynb > pwd
+ Code + Markdown | Run All Clear Outputs of All Cells Restart | Variables Outline ...
Python 3.7.4 64-bit
classifier.fit_generator(
generator=x_train,steps_per_epoch = len(x_train),
epochs=20, validation_data=x_test,validation_steps = len(x_test))# No of images in test set
[78]
Python
Epoch 1/20
/tmp/wsuser/ipykernel_164/549542485.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version. Please use
`Model.fit`, which supports generators.
classifier.fit_generator(
Output exceeds the size limit. Open the full output data in a text editor
526/526 [==============================] - 20s 36ms/step - loss: 0.1085 - accuracy: 0.9653 - val_loss: 0.0717 - val_accuracy: 0.9773
Epoch 2/20
526/526 [==============================] - 17s 32ms/step - loss: 5.1722e-04 - accuracy: 1.0000 - val_loss: 0.0281 - val_accuracy: 0.9820
Epoch 3/20
526/526 [==============================] - 18s 34ms/step - loss: 9.7756e-05 - accuracy: 1.0000 - val_loss: 0.0328 - val_accuracy: 0.9820
Epoch 4/20
526/526 [==============================] - 19s 35ms/step - loss: 1.4685e-04 - accuracy: 1.0000 - val_loss: 0.0084 - val_accuracy: 1.0000
Epoch 5/20
526/526 [==============================] - 17s 32ms/step - loss: 0.0670 - accuracy: 0.9863 - val_loss: 0.0199 - val_accuracy: 0.9829
Epoch 6/20
526/526 [==============================] - 16s 31ms/step - loss: 0.0399 - accuracy: 0.9871 - val_loss: 0.1538 - val_accuracy: 0.9374
Jupyter Server: Local Cell 1 of 101 Go Live
25°C Mostly clear
Search
ENG IN
07:22 19-11-2022

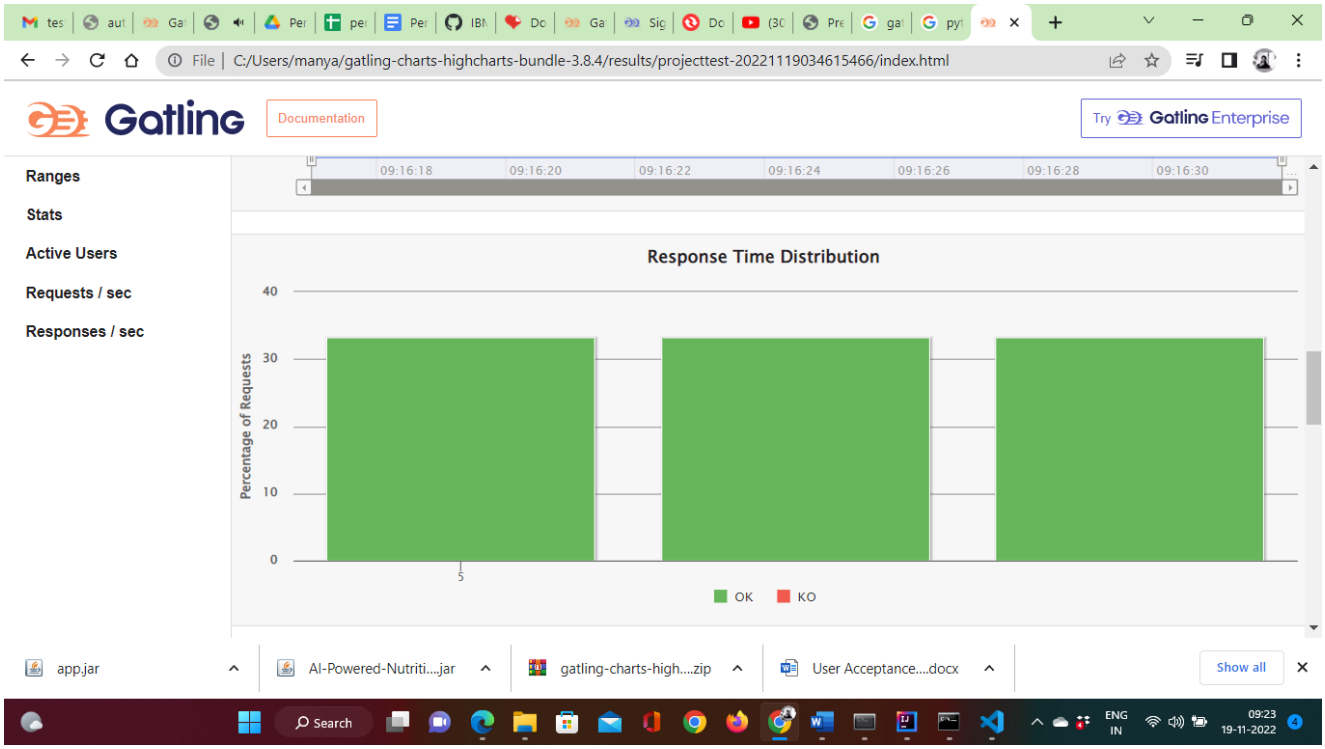


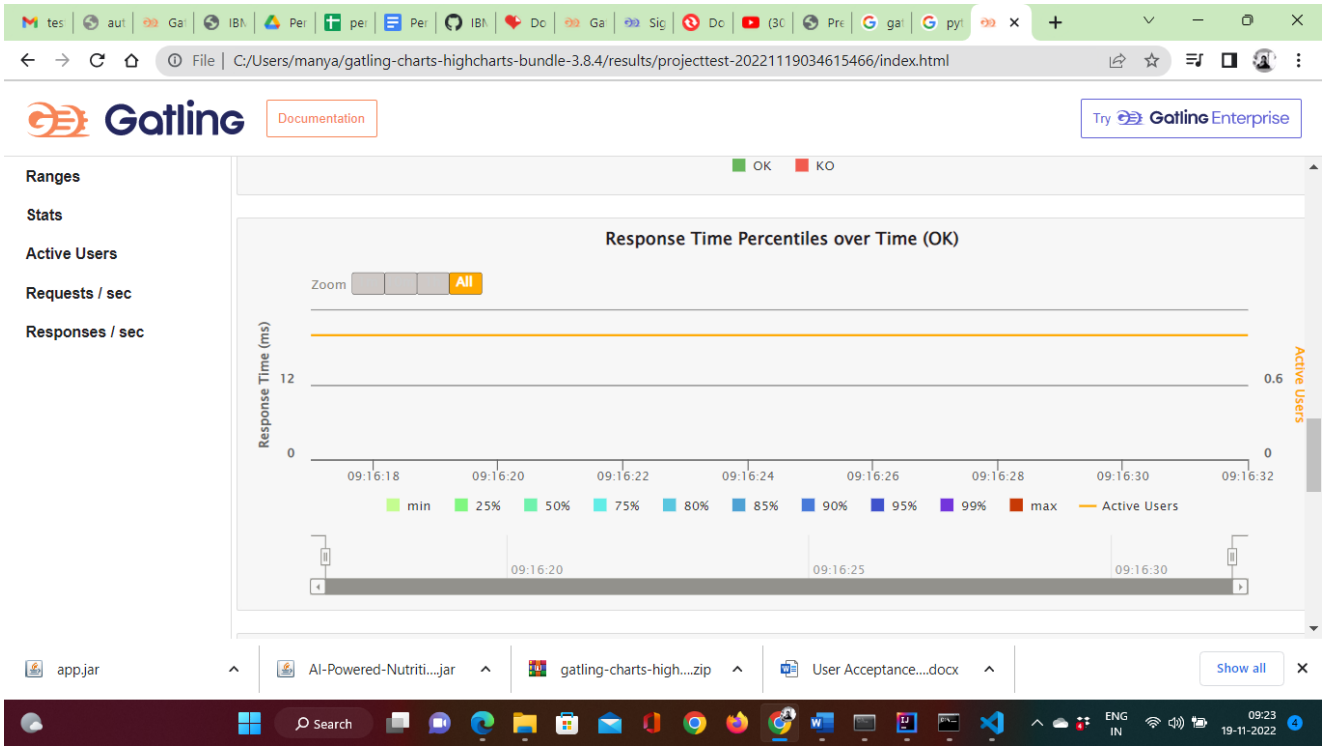
PERFORMANCE TESTING REPORTS:

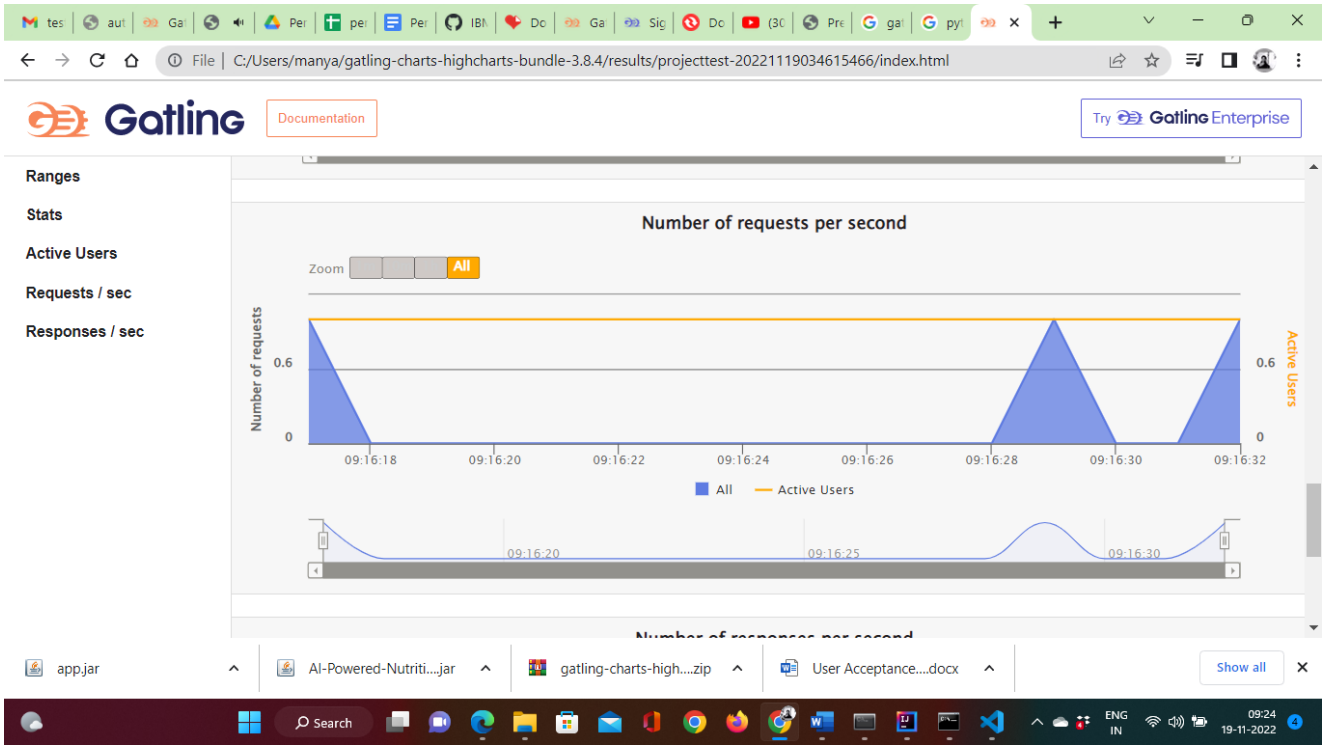


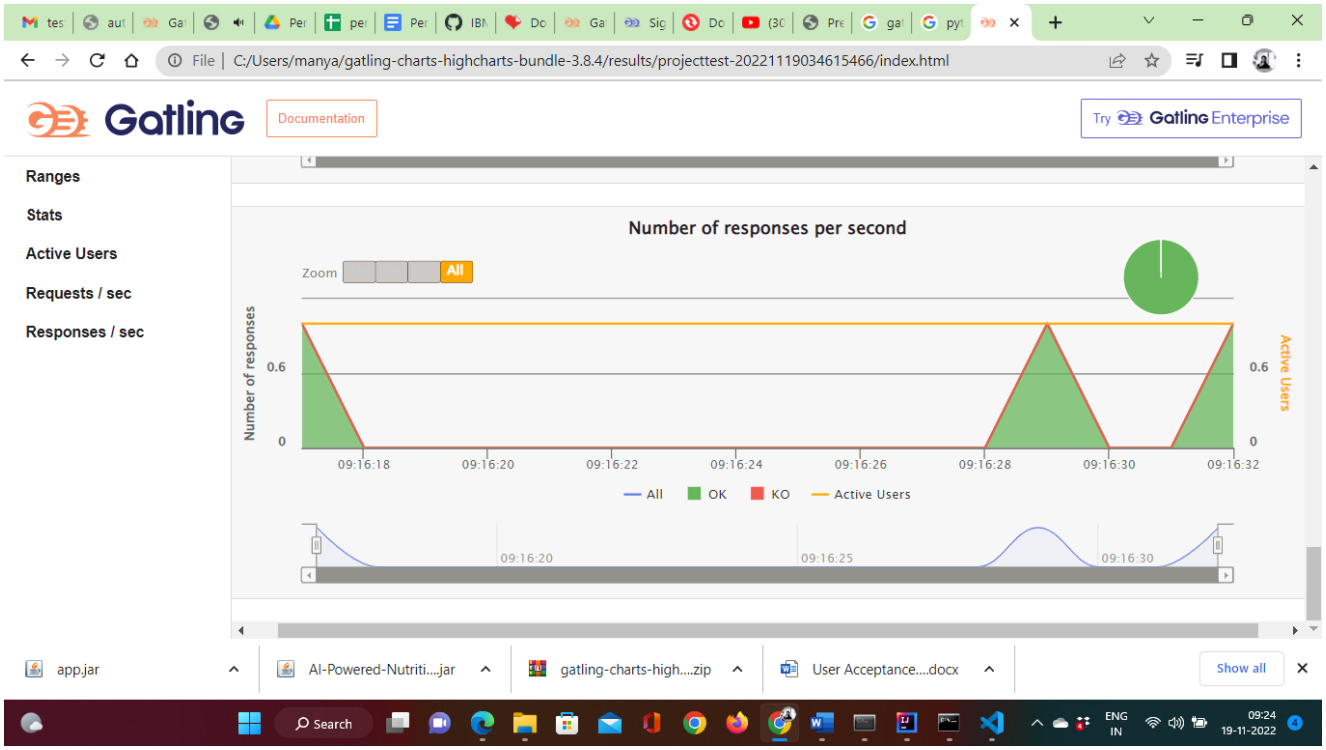

File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
Num
1
0
t < 800 ms
t ≥ 800 ms
t < 1200 ms
t ≥ 1200 ms
failed
OK
KO
Expand all groups
Collapse all grou
Requests
Executions
Total
OK
KO
% KO
Cnt/s
Response Time (ms)
Min
50th pct
75th pct
95th pct
99th pct
Max
Mean
All Requests 3 3 0 0% 0.188 5 6 13 19 20 20 10
request_0 1 1 0 0% 0.062 20 20 20 20 20 20 20
request_1 1 1 0 0% 0.062 5 5 5 5 5 5 5
request_2 1 1 0 0% 0.062 6 6 6 6 6 6 6
Active Users along the Simulation
ProjectTe
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:22
19-11-2022

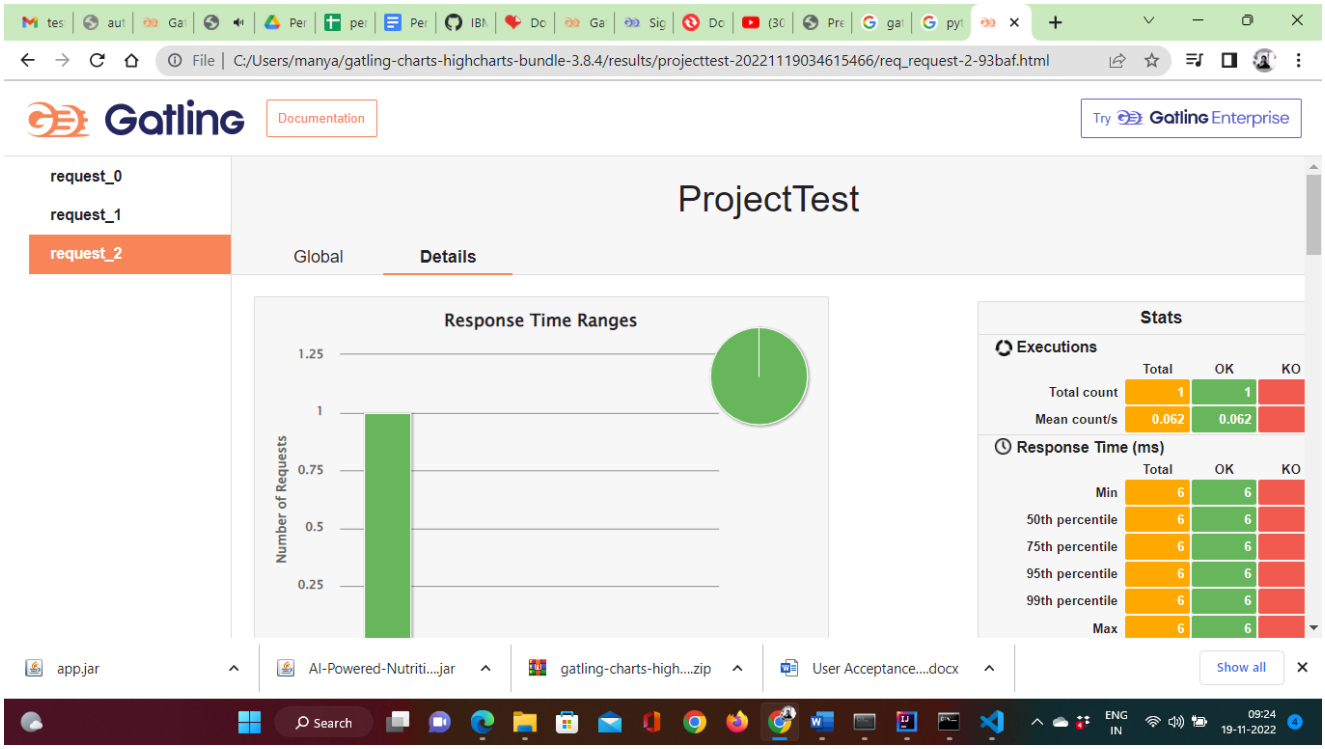

File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
request_0 1 1 0 0% 0.062 20 20 20 20 20 20 20 0
request_1 1 1 0 0% 0.062 5 5 5 5 5 5 5 0
request_2 1 1 0 0% 0.062 6 6 6 6 6 6 6 0
Active Users along the Simulation
ProjectTest
Active Users
Zoom
All
Number of Active Users
1
0.5
0
09:16:18
09:16:20
09:16:22
09:16:24
09:16:26
09:16:28
09:16:30
09:16:32
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:22
19-11-2022

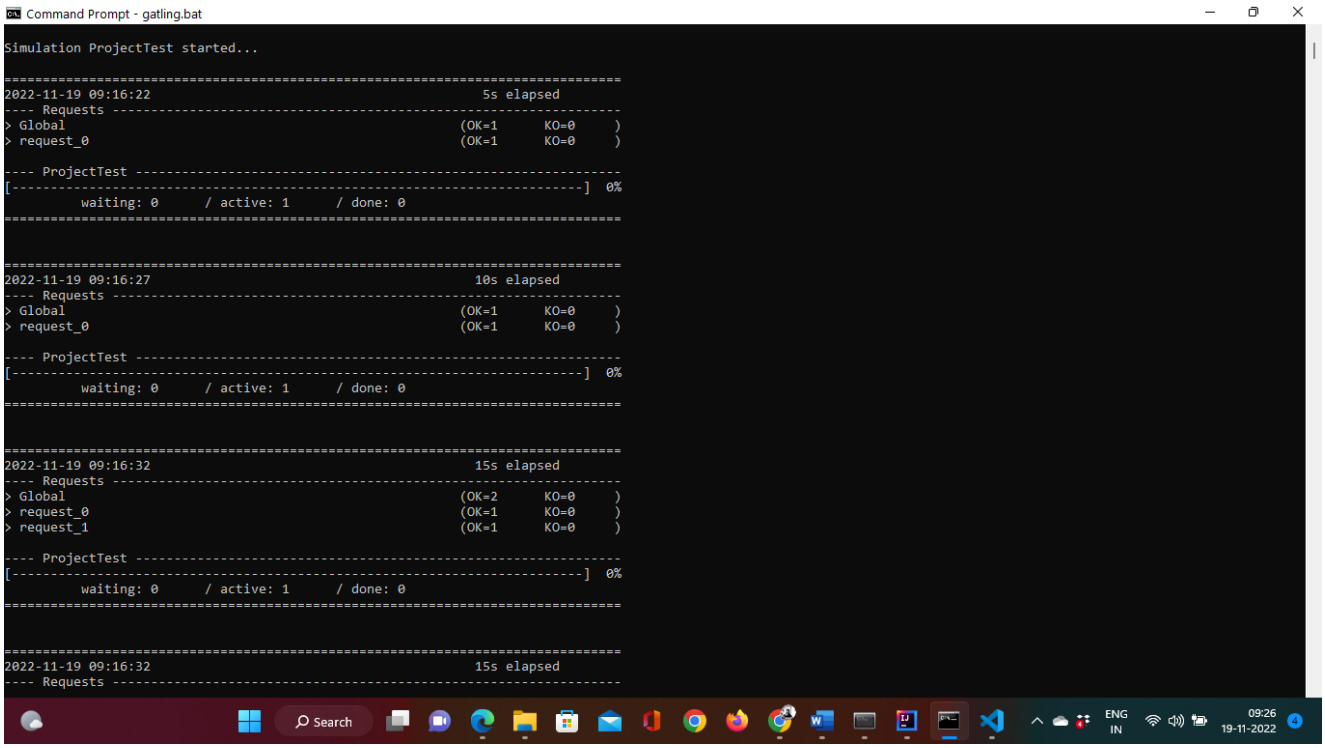

File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
09:16:18
09:16:20
09:16:22
09:16:24
09:16:26
09:16:28
09:16:30
Response Time Distribution
Percentage of Requests
40
30
20
10
0
5
OK
KO
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:23
19-11-2022

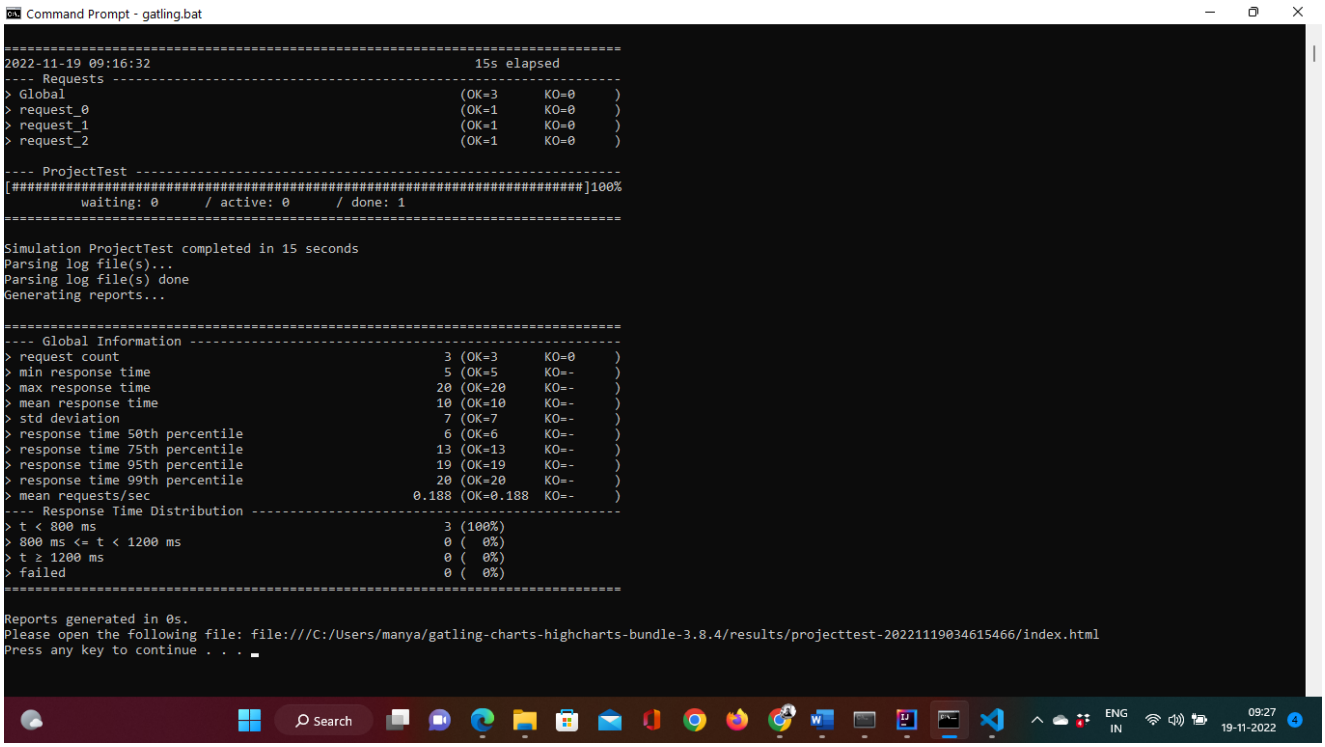

File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
OK
KO
Response Time Percentiles over Time (OK)
Zoom
All
Response Time (ms)
Active Users
12
0
0.6
0
09:16:18
09:16:20
09:16:22
09:16:24
09:16:26
09:16:28
09:16:30
09:16:32
min
25%
50%
75%
80%
85%
90%
95%
99%
max
Active Users
09:16:20
09:16:25
09:16:30
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:23
19-11-2022


File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
Number of requests per second
Zoom
All
Number of requests
Active Users
0.6
0
09:16:18
09:16:20
09:16:22
09:16:24
09:16:26
09:16:28
09:16:30
09:16:32
All
Active Users
09:16:20
09:16:25
09:16:30
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:24
19-11-2022


File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Gatling
Documentation
Try Gatling Enterprise
Ranges
Stats
Active Users
Requests / sec
Responses / sec
Number of responses per second
Zoom
All
Number of responses
Active Users
0.6
0
09:16:18
09:16:20
09:16:22
09:16:24
09:16:26
09:16:28
09:16:30
09:16:32
All
OK
KO
Active Users
09:16:20
09:16:25
09:16:30
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:24
19-11-2022


File | C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/req_request-2-93baf.html
Gatling
Documentation
Try Gatling Enterprise
request_0
request_1
request_2
ProjectTest
Global
Details
Response Time Ranges
Number of Requests
1.25
1
0.75
0.5
0.25
Stats
Executions
Total
OK
KO
Total count
Mean count/s
Response Time (ms)
Min
50th percentile
75th percentile
95th percentile
99th percentile
Max
app.jar
AI-Powered-Nutriti....jar
gatling-charts-high....zip
User Acceptance....docx
Show all
Search
ENG
IN
09:24
19-11-2022


Command Prompt - gatling.bat
Simulation ProjectTest started...
2022-11-19 09:16:22 5s elapsed
---- Requests
> Global (OK=1 KO=0)
> request_0 (OK=1 KO=0)
---- ProjectTest
waiting: 0 / active: 1 / done: 0
2022-11-19 09:16:27 10s elapsed
---- Requests
> Global (OK=1 KO=0)
> request_0 (OK=1 KO=0)
---- ProjectTest
waiting: 0 / active: 1 / done: 0
2022-11-19 09:16:32 15s elapsed
---- Requests
> Global (OK=2 KO=0)
> request_0 (OK=1 KO=0)
> request_1 (OK=1 KO=0)
---- ProjectTest
waiting: 0 / active: 1 / done: 0
2022-11-19 09:16:32 15s elapsed
---- Requests
Search
ENG
IN
09:26
19-11-2022


Command Prompt - gatling.bat
2022-11-19 09:16:32 15s elapsed
---- Requests ----
> Global (OK=3 KO=0)
> request_0 (OK=1 KO=0)
> request_1 (OK=1 KO=0)
> request_2 (OK=1 KO=0)
---- ProjectTest ----
[##########]100%
waiting: 0 / active: 0 / done: 1
Simulation ProjectTest completed in 15 seconds
Parsing log file(s)...
Parsing log file(s) done
Generating reports...
---- Global Information ----
> request count 3 (OK=3 KO=0)
> min response time 5 (OK=5 KO=-)
> max response time 20 (OK=20 KO=-)
> mean response time 10 (OK=10 KO=-)
> std deviation 7 (OK=7 KO=-)
> response time 50th percentile 6 (OK=6 KO=-)
> response time 75th percentile 13 (OK=13 KO=-)
> response time 95th percentile 19 (OK=19 KO=-)
> response time 99th percentile 20 (OK=20 KO=-)
> mean requests/sec 0.188 (OK=0.188 KO=-)
---- Response Time Distribution ----
> t < 800 ms 3 (100%)
> 800 ms <= t < 1200 ms 0 (0%)
> t ≥ 1200 ms 0 (0%)
> failed 0 (0%)
Reports generated in 0s.
Please open the following file: file:///C:/Users/manya/gatling-charts-highcharts-bundle-3.8.4/results/projecttest-20221119034615466/index.html
Press any key to continue . . .
Search
ENG
IN
09:27
19-11-2022