

TEAM ID	PNT2022TMID51236
PROJECT NAME	REAL TIME COMMUNICATION SYSTEM FOR SPECIALLY AIDED PEOPLE
WORK	PERFORMANCE TESTING
DATE	18.11.2022

Locust Test Report

During: 11/17/2022, 5:24:47 PM - 11/17/2022, 5:34:15 PM
Target Host: http://127.0.0.1:5000
Script: locustfile.py

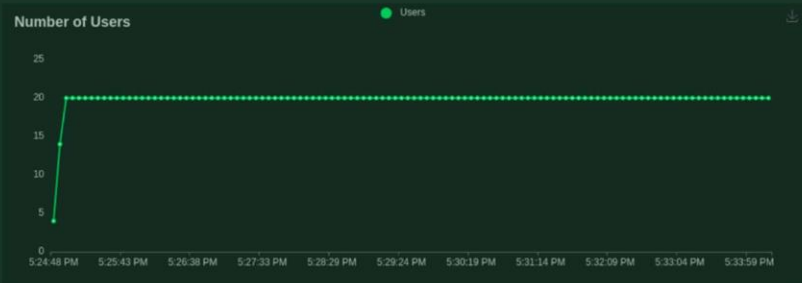
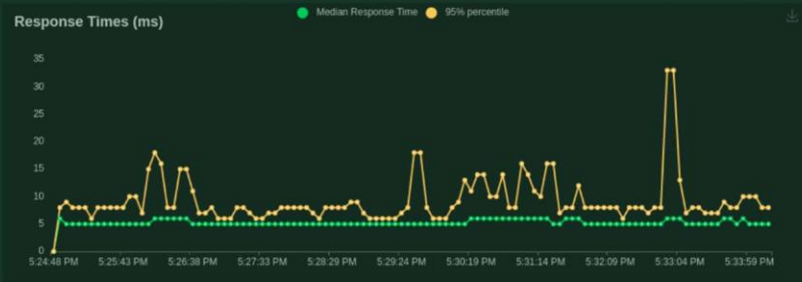
Request Statistics

Method	Name	# Requests	# Fails	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	RPS	Failures/s
GET	/	1890	0	5	4	41	6381	3.3	0.0
GET	/prediction	1828	0	5	4	34	4484	3.2	0.0
Aggregated		3718	0	5	4	41	5448	6.5	0.0

Response Time Statistics

Method	Name	50%ile (ms)	60%ile (ms)	70%ile (ms)	80%ile (ms)	90%ile (ms)	95%ile (ms)	99%ile (ms)	100%ile (ms)
GET	/	5	5	6	6	7	9	19	41
GET	/prediction	5	5	6	6	7	9	19	34
Aggregated		5	5	6	6	7	9	19	41

Charts



Final ratio

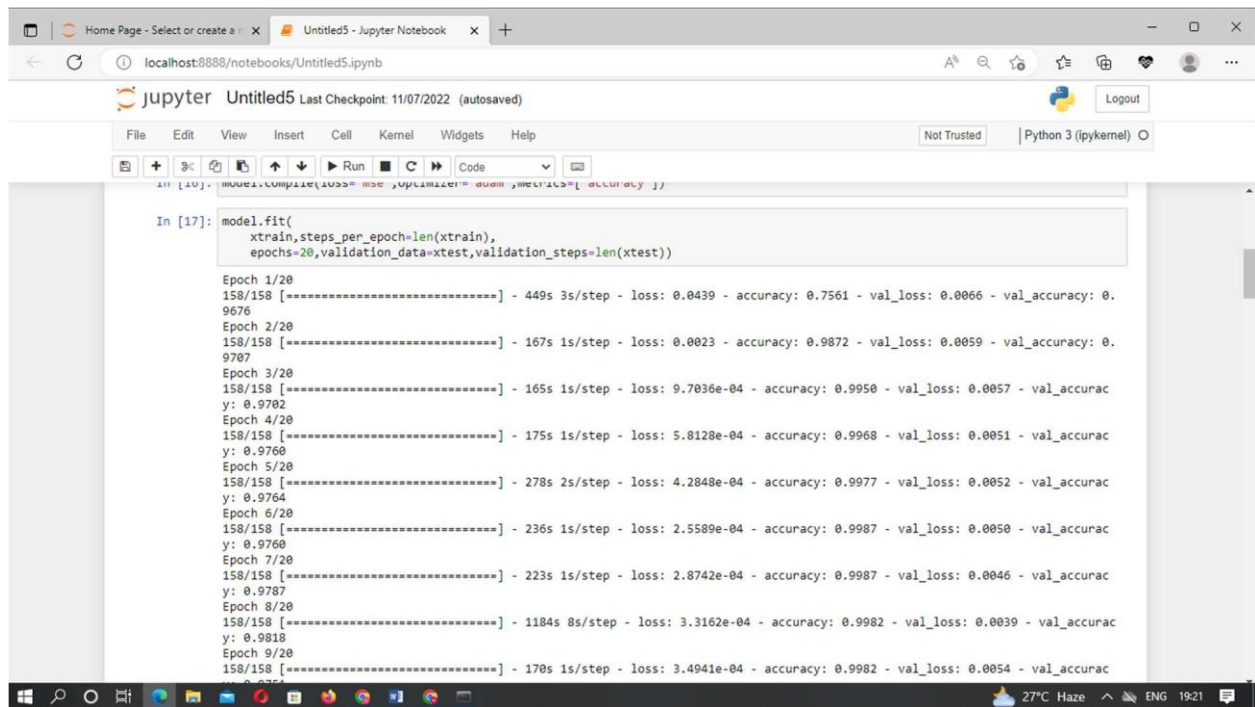
Ratio per User class

- 100.0% AppUser
 - 50.0% home
 - 50.0% prediction

Total ratio

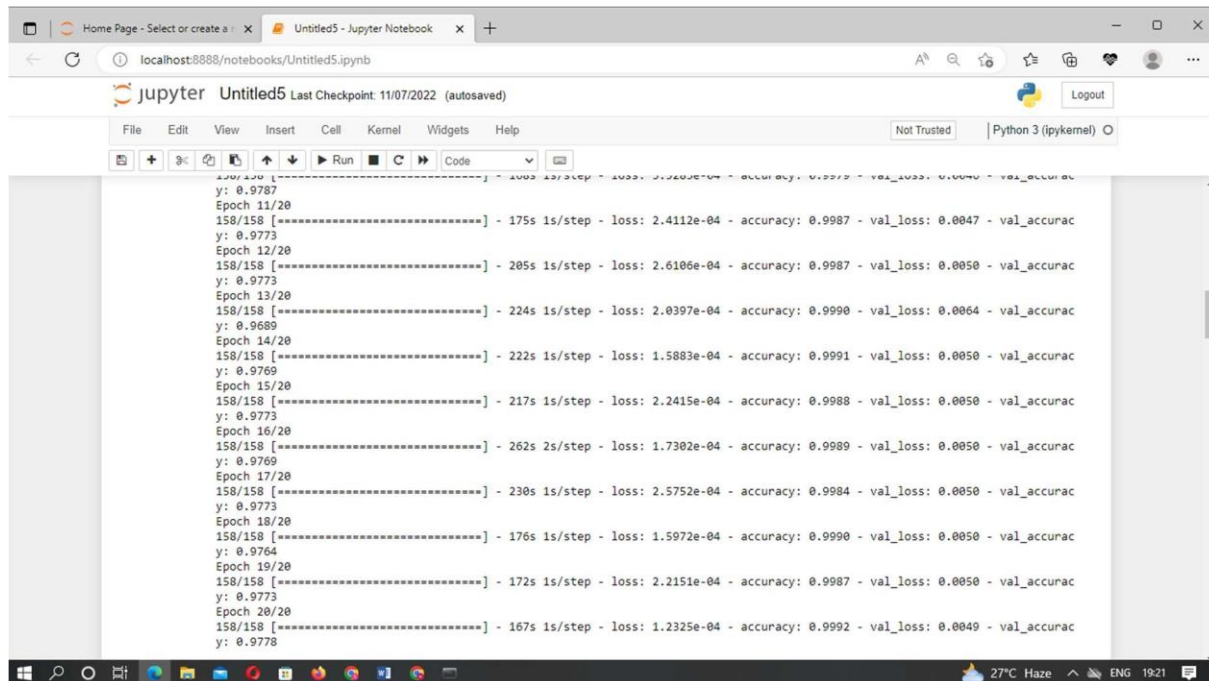
- 100.0% AppUser
 - 50.0% home
 - 50.0% prediction

PERFORMANCE ACCURACY:



```
model.fit(xtrain, steps_per_epoch=len(xtrain), epochs=20, validation_data=xtest, validation_steps=len(xtest))
```

Epoch 1/20
158/158 [=====] - 449s 3s/step - loss: 0.0439 - accuracy: 0.7561 - val_loss: 0.0066 - val_accuracy: 0.9676
Epoch 2/20
158/158 [=====] - 167s 1s/step - loss: 0.0023 - accuracy: 0.9872 - val_loss: 0.0059 - val_accuracy: 0.9707
Epoch 3/20
158/158 [=====] - 165s 1s/step - loss: 9.7036e-04 - accuracy: 0.9950 - val_loss: 0.0057 - val_accuracy: 0.9702
Epoch 4/20
158/158 [=====] - 175s 1s/step - loss: 5.8128e-04 - accuracy: 0.9968 - val_loss: 0.0051 - val_accuracy: 0.9760
Epoch 5/20
158/158 [=====] - 278s 2s/step - loss: 4.2848e-04 - accuracy: 0.9977 - val_loss: 0.0052 - val_accuracy: 0.9764
Epoch 6/20
158/158 [=====] - 236s 1s/step - loss: 2.5589e-04 - accuracy: 0.9987 - val_loss: 0.0050 - val_accuracy: 0.9760
Epoch 7/20
158/158 [=====] - 223s 1s/step - loss: 2.8742e-04 - accuracy: 0.9987 - val_loss: 0.0046 - val_accuracy: 0.9787
Epoch 8/20
158/158 [=====] - 1184s 8s/step - loss: 3.3162e-04 - accuracy: 0.9982 - val_loss: 0.0039 - val_accuracy: 0.9818
Epoch 9/20
158/158 [=====] - 170s 1s/step - loss: 3.4941e-04 - accuracy: 0.9982 - val_loss: 0.0054 - val_accuracy: 0.9778



```
y: 0.9787
```

Epoch 11/20
158/158 [=====] - 175s 1s/step - loss: 2.4112e-04 - accuracy: 0.9987 - val_loss: 0.0047 - val_accuracy: 0.9773
Epoch 12/20
158/158 [=====] - 205s 1s/step - loss: 2.6106e-04 - accuracy: 0.9987 - val_loss: 0.0050 - val_accuracy: 0.9773
Epoch 13/20
158/158 [=====] - 224s 1s/step - loss: 2.0397e-04 - accuracy: 0.9990 - val_loss: 0.0064 - val_accuracy: 0.9689
Epoch 14/20
158/158 [=====] - 222s 1s/step - loss: 1.5883e-04 - accuracy: 0.9991 - val_loss: 0.0050 - val_accuracy: 0.9769
Epoch 15/20
158/158 [=====] - 217s 1s/step - loss: 2.2415e-04 - accuracy: 0.9988 - val_loss: 0.0050 - val_accuracy: 0.9773
Epoch 16/20
158/158 [=====] - 262s 2s/step - loss: 1.7302e-04 - accuracy: 0.9989 - val_loss: 0.0050 - val_accuracy: 0.9769
Epoch 17/20
158/158 [=====] - 230s 1s/step - loss: 2.5752e-04 - accuracy: 0.9984 - val_loss: 0.0050 - val_accuracy: 0.9773
Epoch 18/20
158/158 [=====] - 176s 1s/step - loss: 1.5972e-04 - accuracy: 0.9990 - val_loss: 0.0050 - val_accuracy: 0.9764
Epoch 19/20
158/158 [=====] - 172s 1s/step - loss: 2.2151e-04 - accuracy: 0.9987 - val_loss: 0.0050 - val_accuracy: 0.9773
Epoch 20/20
158/158 [=====] - 167s 1s/step - loss: 1.2325e-04 - accuracy: 0.9992 - val_loss: 0.0049 - val_accuracy: 0.9778

Model Summary

```
In [41]: model.summary()
```

```
Model: "sequential_2"
```

Layer (type)	Output Shape	Param #
=====		
conv2d_5 (Conv2D)	(None, 126, 126, 32)	896
max_pooling2d_2 (MaxPooling 2D)	(None, 63, 63, 32)	0
flatten_2 (Flatten)	(None, 127008)	0
dense_6 (Dense)	(None, 40)	5080360
dense_7 (Dense)	(None, 70)	2870
dense_8 (Dense)	(None, 6)	426
=====		
Total params: 5,084,552		
Trainable params: 5,084,552		
Non-trainable params: 0		