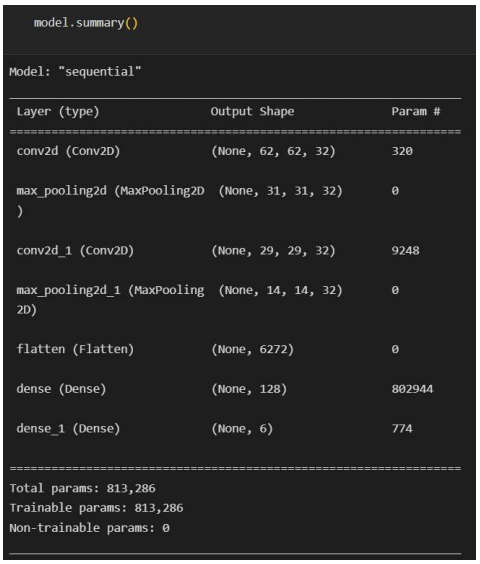
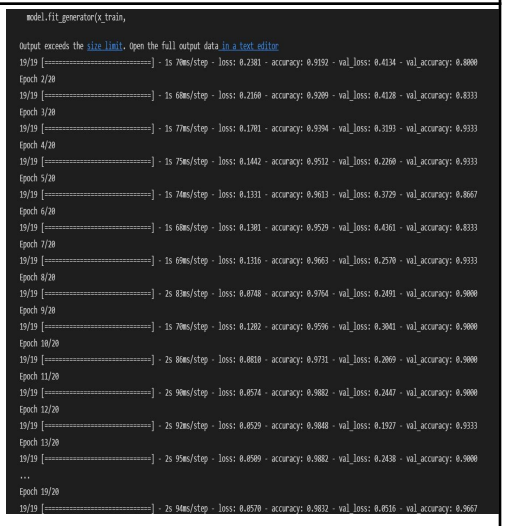
Project Development
Phase Model Performance
Test

Date	17 November 2022
Team ID	PNT2022TMID28513
Project Name	Project - A Gesture-based Tool for Sterile Browsing of Radiology Images
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	Total params: 813,286 Trainable params: 813,286 Non-trainable params: 0	
2.	Accuracy	Training Accuracy – 99.16% Validation Accuracy – 96.67 %	

1. MODEL SUMMARY:

```
model.summary()
```

```
Model: "sequential"
_________________________________________________________________
 Layer (type)                Output Shape              Param #
=================================================================
 conv2d (Conv2D)             (None, 62, 62, 32)        320

 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, 6)                 774

=================================================================
Total params: 813,286
Trainable params: 813,286
Non-trainable params: 0
_________________________________________________________________
```

2.ACCURACY:

```
  model.fit_generator(x_train,

Output exceeds the size limit. Open the full output data in a text editor
19/19 [==============================] - 1s 70ms/step - loss: 0.2381 - accuracy: 0.9192 - val_loss: 0.4134 - val_accuracy: 0.8000
Epoch 2/20
19/19 [==============================] - 1s 68ms/step - loss: 0.2160 - accuracy: 0.9209 - val_loss: 0.4128 - val_accuracy: 0.8333
Epoch 3/20
19/19 [==============================] - 1s 77ms/step - loss: 0.1701 - accuracy: 0.9394 - val_loss: 0.3193 - val_accuracy: 0.9333
Epoch 4/20
19/19 [==============================] - 1s 75ms/step - loss: 0.1442 - accuracy: 0.9512 - val_loss: 0.2260 - val_accuracy: 0.9333
Epoch 5/20
19/19 [==============================] - 1s 74ms/step - loss: 0.1331 - accuracy: 0.9613 - val_loss: 0.3729 - val_accuracy: 0.8667
Epoch 6/20
19/19 [==============================] - 1s 68ms/step - loss: 0.1301 - accuracy: 0.9529 - val_loss: 0.4361 - val_accuracy: 0.8333
Epoch 7/20
19/19 [==============================] - 1s 69ms/step - loss: 0.1316 - accuracy: 0.9663 - val_loss: 0.2570 - val_accuracy: 0.9333
Epoch 8/20
19/19 [==============================] - 2s 83ms/step - loss: 0.0748 - accuracy: 0.9764 - val_loss: 0.2491 - val_accuracy: 0.9000
Epoch 9/20
19/19 [==============================] - 1s 70ms/step - loss: 0.1202 - accuracy: 0.9596 - val_loss: 0.3041 - val_accuracy: 0.9000
Epoch 10/20
19/19 [==============================] - 2s 86ms/step - loss: 0.0810 - accuracy: 0.9731 - val_loss: 0.2069 - val_accuracy: 0.9000
Epoch 11/20
19/19 [==============================] - 2s 90ms/step - loss: 0.0574 - accuracy: 0.9882 - val_loss: 0.2447 - val_accuracy: 0.9000
Epoch 12/20
19/19 [==============================] - 2s 92ms/step - loss: 0.0529 - accuracy: 0.9848 - val_loss: 0.1927 - val_accuracy: 0.9333
Epoch 13/20
19/19 [==============================] - 2s 95ms/step - loss: 0.0509 - accuracy: 0.9882 - val_loss: 0.2438 - val_accuracy: 0.9000
...
Epoch 19/20
19/19 [==============================] - 2s 94ms/step - loss: 0.0570 - accuracy: 0.9832 - val_loss: 0.0516 - val_accuracy: 0.9667
```