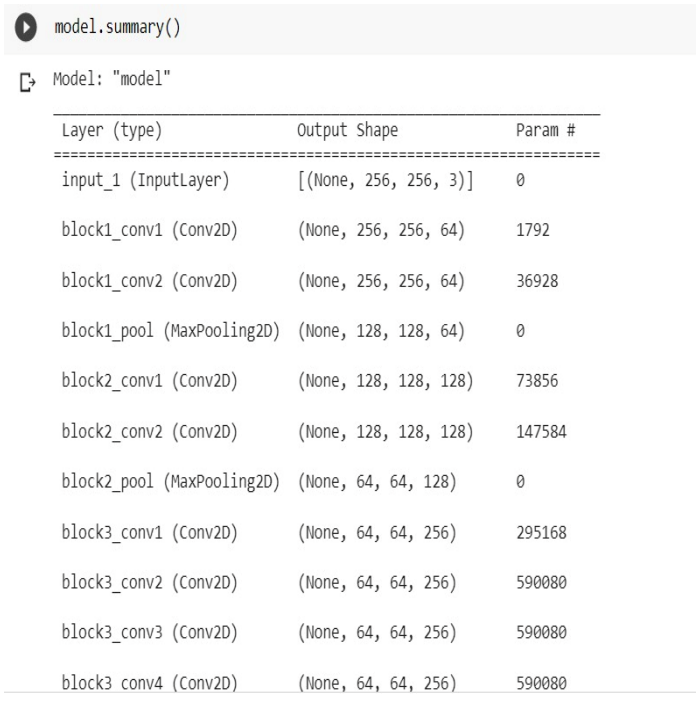
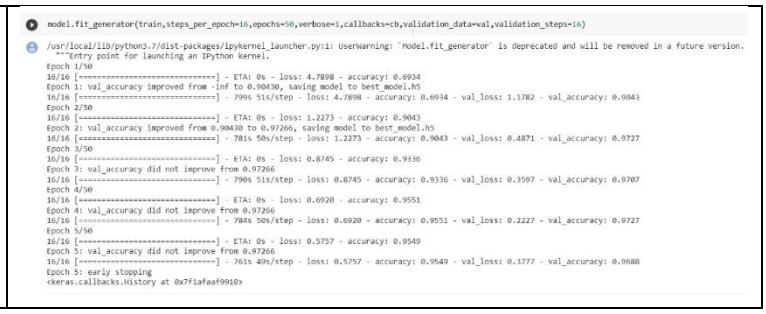
PROJECT DEVELOPMENT PHASE
MODEL PERFORMANCE TEST

Date	19 November 2022
Team ID	PNT2022TMID52645
Project Name	Project - Fertilizers Recommendation System For Disease Prediction
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	-	

2.	Accuracy	Training Accuracy – **95%** Validation Accuracy – **96%**	

Model Accuracy :

```
model.fit_generator(train,steps_per_epoch=16,epochs=50,verbose=1,callbacks=cb,validation_data=val,validation_steps=16)
```

```
/usr/local/lib/python3.7/dist-packages/ipykernel_launcher.py:1: UserWarning: `Model.fit_generator` is deprecated and will be removed in a future version.
  """Entry point for launching an IPython kernel.
Epoch 1/50
16/16 [==============================] - ETA: 0s - loss: 4.7898 - accuracy: 0.6934
Epoch 1: val_accuracy improved from -inf to 0.90430, saving model to best_model.h5
16/16 [==============================] - 799s 51s/step - loss: 4.7898 - accuracy: 0.6934 - val_loss: 1.1782 - val_accuracy: 0.9043
Epoch 2/50
16/16 [==============================] - ETA: 0s - loss: 1.2273 - accuracy: 0.9043
Epoch 2: val_accuracy improved from 0.90430 to 0.97266, saving model to best_model.h5
16/16 [==============================] - 781s 50s/step - loss: 1.2273 - accuracy: 0.9043 - val_loss: 0.4871 - val_accuracy: 0.9727
Epoch 3/50
16/16 [==============================] - ETA: 0s - loss: 0.8745 - accuracy: 0.9336
Epoch 3: val_accuracy did not improve from 0.97266
16/16 [==============================] - 790s 51s/step - loss: 0.8745 - accuracy: 0.9336 - val_loss: 0.3597 - val_accuracy: 0.9707
Epoch 4/50
16/16 [==============================] - ETA: 0s - loss: 0.6920 - accuracy: 0.9551
Epoch 4: val_accuracy did not improve from 0.97266
16/16 [==============================] - 784s 50s/step - loss: 0.6920 - accuracy: 0.9551 - val_loss: 0.2227 - val_accuracy: 0.9727
Epoch 5/50
16/16 [==============================] - ETA: 0s - loss: 0.5757 - accuracy: 0.9549
Epoch 5: val_accuracy did not improve from 0.97266
16/16 [==============================] - 761s 49s/step - loss: 0.5757 - accuracy: 0.9549 - val_loss: 0.3777 - val_accuracy: 0.9688
Epoch 5: early stopping
<keras.callbacks.History at 0x7f1afaaf9910>
```