# Project Development Phase Model Performance Test

Date	21 November 2022	
Team ID	PNT2022TMID50383	
Project Name	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	Total params: 896 Trainable params: 896 Non-trainable params: 0	In [37]: model.summary()  Model: sequential*  Layer (type) Output Shape Param #  conv2d (Conv2D) (None, 126, 126, 32) 896  max_pooling2d (MaxPooling2D) (None, 63, 63, 32) 0  flatten (Flatten) (None, 127908) 0  Total params: 896  Trainable params: 896 Non-trainable params: 9
2.	Accuracy	Training Accuracy – 12.68	In (0):  model.fit_generator(x_train_stops_per_spechion(x_train).validation_datavx_text_validation_stops.len(x_text).spechol8)
		Validation Accuracy – 13.07	Special Library   Special Content   Special Co

## **Model Summary**

#### In [37]: model.summary()

Model: "sequential"

Layer (type)	Output	Shape	Param #
conv2d (Conv2D)	(None,	126, 126, 32)	896
max_pooling2d (MaxPooling2D)	(None,	63, 63, 32)	0
flatten (Flatten)	(None,	127008)	0

Total params: 896 Trainable params: 896 Non-trainable params: 0

Out[49]: <tensorflow.python.keras.callbacks.History at 0x7f956d0ac040>

### Accuracy

```
In [49]: model.fit_generator(x_train,steps_per_epoch=len(x_train),validation_data=x_test,validation_steps=len(x_test),epochs=10)
          699/699 [===========] - 504s 720ms/step - loss: 2.5996 - accuracy: 0.1236 - val_loss: 2.5827 - val_accuracy: 0.1307
          Epoch 2/10
          699/699 [===
                            :=========] - 503s 719ms/step - loss: 2.5669 - accuracy: 0.1268 - val_loss: 2.5753 - val_accuracy: 0.1307
          Epoch 3/10
          699/699 [===
                          =========] - 504s 721ms/step - loss: 2.5635 - accuracy: 0.1268 - val_loss: 2.5737 - val_accuracy: 0.1307
          Epoch 4/10
          . 699/699 [=========================== ] - 505s 722ms/step - loss: 2.5628 - accuracy: 0.1268 - val loss: 2.5739 - val accuracy: 0.1307
          Epoch 5/10
          699/699 [==:
                              =========] - 507s 725ms/step - loss: 2.5626 - accuracy: 0.1268 - val_loss: 2.5738 - val_accuracy: 0.1307
          Epoch 6/10
          699/699 [==
                              =========] - 518s 740ms/step - loss: 2.5625 - accuracy: 0.1268 - val_loss: 2.5735 - val_accuracy: 0.1307
          Epoch 7/10
                              =========] - 524s 749ms/step - loss: 2.5625 - accuracy: 0.1268 - val_loss: 2.5745 - val_accuracy: 0.1307
          699/699 [==
          Epoch 8/10
          Epoch 9/10
          699/699 [============] - 512s 732ms/step - loss: 2.5625 - accuracy: 0.1268 - val_loss: 2.5734 - val_accuracy: 0.1307
          Epoch 10/10
          699/699 [========] - 512s 733ms/step - loss: 2.5625 - accuracy: 0.1268 - val_loss: 2.5741 - val_accuracy: 0.1307
```