## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID17339
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	Total params: 896 Trainable params: 896 Non-trainable params: 0	model.summary()	
2.	Accuracy	Training Accuracy – 96.55  Validation Accuracy – 97.45	Tech 1798	

## **Model Summary**

```
model.summary()
```

Model: "sequential"

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

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

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## Accuracy

```
model.fit generator(x train, steps per epoch=len(x train), validation data=x test, validation steps=len(x test), epochs=10)
C:\Users\Sree Ram\AppData\Local\Temp\ipykernel 13228\1582812018.py:1: UserWarning: ^Model.fit generator` is deprecated and will
be removed in a future version. Please use `Model.fit`, which supports generators.
model.fit generator(x train, steps per epoch=len(x train), validation data=x test, validation steps=len(x test), epochs=10)
Epoch 1/10
0.8861
Epoch 2/10
0.9075
Epoch 3/10
225/225 [==========] - 85s 375ms/step - loss: 0.2032 - accuracy: 0.9303 - val_loss: 0.2203 - val_accuracy:
0.9288
Epoch 4/10
0.9164
Epoch 5/10
0.9632
Epoch 6/10
Epoch 7/10
0.9478
Epoch 8/10
0.9561
Epoch 9/10
0.9531
Epoch 10/10
0.9745
```