## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID	
Project Name	Fertilizer 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	Vegetable model	Model: "sequential_3"		
1.		vegetable illouel	Layer (type)	Output Shape	Param #
	Summary			(None, 126, 126, 32)	896
			max_pooling2d_2 (MaxPooling 2D)	(None, 63, 63, 32)	Ø
			flatten_2 (Flatten)	(None, 127008)	Ø
			dense_6 (Dense)	(None, 40)	5080360
			dense_7 (Dense)	(None, 20)	820
			dense_8 (Dense)	(None, 300)	6300
			dense_9 (Dense)	(None, 150)	45150
			dense_10 (Dense)	(None, 75)	11325
			dense_11 (Dense)	(None, 9)	684
		Fruit model	Total params: 5,145,535 Trainable params: 5,145,535 Non-trainable params: 0		
			Model: "sequential_2"		
			Layer (type)	Output Shape	Param #
			conv2d_2 (Conv2D)	(None, 126, 126, 32)	896
			max_pooling2d_1 (MaxPooling 2D)	g (None, 63, 63, 32)	0
			flatten_1 (Flatten)	(None, 127008)	0
			dense_3 (Dense)	(None, 40)	5080360
			dense_4 (Dense)	(None, 20)	820
			dense_5 (Dense)	(None, 6)	126
			Total params: 5,082,202 Trainable params: 5,082,202 Non-trainable params: 0		
2.	Accuracy	Training Accuracy(fruit) –			
2.	,	0.8302	89/89 [=======] - 19s 213ms/step - Epoch 20/20 89/89 [=======] - 21s 232ms/step -		
		Validation Accuracy (fruit)- 0.6690			

		Training Accuracy (vegetable)-0.2978 Validation Accuracy (Vegetable)-0.2407	loss: 0.8639 - accuracy: 0.6643 - val_loss: 40.9182 - val_accuracy: 0.8488 loss: 0.4604 - accuracy: 0.8302 - val_loss: 184.6315 - val_accuracy: 0.6690
3.	Class Detected	Class Detected(fruit)- 6  Class detected (Vegetable)- 9	Found 1686 images belonging to 6 classes. Found 5384 images belonging to 6 classes.  Found 3417 images belonging to 9 classes. Found 11386 images belonging to 9 classes.