Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID35185	
Project Name	Digital Naturalist - AI Enabled tool for	
	Biodiversity Researchers	
Maximum Marks	10 Marks	

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Total params: 9,283,727 Trainable params: 9,283,727 Non-trainable params: 0	1
2.	Accuracy	Training Accuracy - 0.9992 Validation Accuracy - 0.7829	2

Screenshot 1:

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 62, 62, 32)	896
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 31, 31, 32)	0
flatten (Flatten)	(None, 30752)	0
dense (Dense)	(None, 300)	9225900
dense_1 (Dense)	(None, 150)	45150
dense_2 (Dense)	(None, 75)	11325
dense_3 (Dense)	(None, 6)	456

Total params: 9,283,727 Trainable params: 9,283,727 Non-trainable params: 0

Screenshot 2:

```
model.fit(x\_train, steps\_per\_epoch=len(x\_train), epochs=30, validation\_data=x\_val, validation\_steps=len(x\_val))
Epoch 2/30
Epoch 3/30
52/52 [============] - 5s 94ms/step - loss: 1.0658 - accuracy: 0.9377 - val_loss: 1.9780 - val_accuracy: 0.7368
Epoch 4/30
Epoch 5/30
Epoch 6/30
Epoch 7/30
Epoch 8/30
Epoch 9/30
52/52 [================================= ] - 5s 99ms/step - loss: 0.7522 - accuracy: 0.9992 - val_loss: 1.8143 - val_accuracy: 0.7829
Epoch 10/30
52/52 [=====
     Epoch 11/30
52/52 [===========] - 5s 94ms/step - loss: 0.7101 - accuracy: 1.0000 - val_loss: 1.8286 - val_accuracy: 0.7829
```