## Project Development Phase Model Performance Test

Date	15 November 2022
Team ID	PNT2022TMID36299
Project Name	Project - Al-powered Nutrition Analyzer for
	Fitness Enthusiasts
Maximum Marks	10 Marks

## Model Performance Testing:

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

S.No.	Parameter	Values	Screen	shot		
1.	<pre>, 3), activation='relu')) classifier.add(MaxPooling2D(pool_size=(2, 2)))</pre>	<pre>classifier.add(Conv2D(32, (3, 3), input_shape=(64, 64 , 3), activation='relu')) classifier.add(MaxPooling2D(pool_size=(2, 2))) classifier.add(Conv2D(32, (3, 3), activation='relu')) classifier.add(MaxPooling2D(pool_size=(2, 2)))</pre>				
			0	classifier.summary()		
			₽	Model: "sequential_1"		
		<pre>classifier.add(Dense (units=128, activation='relu'))</pre>		Layer (type)	Output Shape	Param #
			conv2d (Conv2D)	(None, 62, 62, 32)	896	
			<pre>max_pooling2d (MaxPooling2D )</pre>	(None, 31, 31, 32)	0	
				conv2d_1 (Conv2D)	(None, 29, 29, 32)	9248
			<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 14, 14, 32)	0	
			flatten (Flatten)	(None, 6272)	0	
			dense (Dense)	(None, 128)	802944	
			dense_1 (Dense)	(None, 5)	645	
			Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0	=======================================	=======	

2.	Accuracy	Training Accuracy – 1.0000	
			/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.
		Validation Accuracy - 0.9801	526/526 [========] - 15s 14ms/step - loss: 0.1821 - accuracy: 0.9360 - val_loss: 0.0239 - val_accuracy: 1.0000 Epoch 2/20
			526/526 [=======] - 7s 14ms/step - loss: 0.0011 - accuracy: 1.0000 - val_loss: 0.0445 - val_accuracy: 0.9782 Epoch 3/20
			526/526 [=======] - 8s 15ms/step - loss: 0.0567 - accuracy: 0.9848 - val_loss: 0.0134 - val_accuracy: 0.9924 Epoch 4/20
			526/526 [=========] - 8s 15ms/step - loss: 3.1465e-04 - accuracy: 1.0000 - val_loss: 0.0102 - val_accuracy: 0.9981 Epoch 5/20
			526/526 [========] - 7s 13ms/step - loss: 1.1439e-04 - accuracy: 1.0000 - val_loss: 0.0106 - val_accuracy: 0.9943  Epoch 6/20
			526/526 [=========] - 7s 14ms/step - loss: 7.3579e-05 - accuracy: 1.0000 - val_loss: 0.0095 - val_accuracy: 0.9943  Epoch 7/20
			526/526 [=========] - 7s 14ms/step - loss: 4.1322e-05 - accuracy: 1.0000 - val_loss: 0.0113 - val_accuracy: 0.9924 Epoch 8/20
			526/526 [=========] - 7s 13ms/step - loss: 2.7354e-05 - accuracy: 1.0000 - val_loss: 0.0182 - val_accuracy: 0.9915 Epoch 9/20
			526/526 [==========] - 7s 13ms/step - loss: 2.4434e-05 - accuracy: 1.0000 - val_loss: 0.0106 - val_accuracy: 0.9924 Epoch 10/20
			526/526 [=========] - 7s 14ms/step - loss; 3.6141e-05 - accuracy; 1.0000 - val_loss; 0.0481 - val_accuracy; 0.9763 Epoch 11/20
			526/526 [==========] - 7s 14ms/step - loss: 1.0413e-05 - accuracy: 1.0000 - val_loss: 0.0256 - val_accuracy: 0.9877 Epoch 12/20
			526/526 [========] - 7s 14ms/step - loss: 7.0992e-06 - accuracy: 1.0000 - val_loss: 0.0167 - val_accuracy: 0.9915 Epoch 13/20
			526/526 [========] - 7s 13ms/step - loss: 4.4195e-06 - accuracy: 1.0000 - val_loss: 0.0143 - val_accuracy: 0.9915 Epoch 14/20
			526/526 [========] - 7s 14ms/step - loss: 7.4918e-06 - accuracy: 1.0000 - val_loss: 0.0251 - val_accuracy: 0.9877 Epoch 15/20
			526/526 [=========] - 7s 14ms/step - loss: 2.5972e-06 - accuracy: 1.0000 - val_loss: 0.0189 - val_accuracy: 0.9915 Epoch 16/20
			526/526 [=========] - 7s 14ms/step - loss: 1.5219e-06 - accuracy: 1.0000 - val_loss: 0.0251 - val_accuracy: 0.9886 Epoch 17/20
			526/526 [=========] - 7s 14ms/step - loss: 5.9915e-06 - accuracy: 1.0000 - val_loss: 0.1436 - val_accuracy: 0.9725 Epoch 18/20
			526/526 [=========] - 7s 14ms/step - loss: 1.1050e-06 - accuracy: 1.0000 - val_loss: 0.0635 - val_accuracy: 0.9763 Epoch 19/20
			526/526 [============] - 7s 14ms/step - loss: 2.1558e-06 - accuracy: 1.0000 - val_loss: 0.0413 - val_accuracy: 0.9810 Epoch 20/20
			526/526 [====================================