## Project Development Phase Model Performance Test

Date	15 November 2022	
Team ID	PNT2022TMID33113	
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	Screens	shot		
1.	classifier.add(Conv., 3), activation='s classifier.add(Maxiclassifier.add(Conv.) classifier.add(Maxiclassifier.add(Flast.) classifier.add(Dens.)	<pre>classifier = Sequential() 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))) classifier.add(Flatten()) classifier.add(Dense (units=128, activation='relu')) classifier.add(Dense (units=5, activation='softmax'))</pre>	0	classifier.summary()		
			□→ Mod	Model: "sequential_1"	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 [====================================
			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 - 10ss: 7.47160-00 - dectardey. 1.6000 - val_10ss: 0.0189 - val_accuracy: 0.9915
			Epoch 16/20  526/526 [========] - 75 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 [========] - 7s 14ms/step - loss: 7.1139e-07 - accuracy: 1.0000 - val_loss: 0.0497 - val_accuracy: 0.9801
			<pre><keras.callbacks.history 0x7efbd0810f10="" at=""></keras.callbacks.history></pre>