## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID13551	
Project Name	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	Screenshot
1.	Model Summary	Total params: 813,733 Trainable params: 813,733 Non-trainable params: 0	Layer (type) Output Shape Param #  conv2d (Conv2D) (Mone, 62, 62, 32) 896  max_pooling2d (MusPooling2D (Mone, 31, 11, 32) 0 )  conv2d_1 (Conv2D) (Mone, 29, 29, 32) 9248  max_pooling2d_1 (MusPooling (Mone, 29, 29, 32) 9248  max_pooling2d_1 (MusPooling (Mone, 14, 14, 32) 0  2D)  flatten (Flatten) (Mone, 6272) 0  dense (Dense) (Mone, 12E) 802944  dense_1 (Dense) (Mone, 5) 645  Total params: 813,733  Total params: 813,733  Ron-trainable params: 813,733  Ron-trainable params: 0
2.	Accuracy	Training Accuracy – 95.8  Validation Accuracy – 99.5	1

## Model Summary:

```
Layer (type)
                              Output Shape
                                                        Param #
 conv2d (Conv2D)
                                                        896
                              (None, 62, 62, 32)
 max_pooling2d (MaxPooling2D (None, 31, 31, 32)
 conv2d_1 (Conv2D)
                              (None, 29, 29, 32)
                                                        9248
 max pooling2d 1 (MaxPooling (None, 14, 14, 32)
 2D)
 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
```

## Accuracy:

```
Epoch 1/20
526/526 [==
                                         - 14s 25ms/step - loss: 0.1182 - accuracy: 0.9543 - val loss: 0.0608 - val accuracy: 0.9583
Epoch 2/20
526/526 [==
Epoch 4/20
526/526 [==
                                           13s 25ms/step - loss: 0.0010 - accuracy: 1.0000 - val loss: 0.0050 - val accuracy: 1.0000
Epoch 5/20
526/526 [==
Epoch 6/20
526/526 [==
Epoch 8/20
526/526 [==
Epoch 9/20
526/526 [===
Epoch 10/20
                                           13s 25ms/step - loss: 5.0627e-06 - accuracy: 1.0000 - val_loss: 0.0019 - val_accuracy: 1.0000
526/526 [==
Epoch 12/20
526/526 [==
Epoch 13/20
Epoch 19/20
                                     ===] - 13s 25ms/step - loss: 1.0766e-05 - accuracy: 1.0000 - val_loss: 0.0861 - val_accuracy: 0.9697
526/526 [===
```