Project Development Phase
Model Performance Test

Team ID	PNT2022TMID00513
Project Name	Project - Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies
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	-	

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Model: "model"
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 Layer (type)                Output Shape              Param #
=================================================================
 input_1 (InputLayer)        [(None, 224, 224, 3)]     0

 block1_conv1 (Conv2D)       (None, 224, 224, 64)      1792

 block1_conv2 (Conv2D)       (None, 224, 224, 64)      36928

 block1_pool (MaxPooling2D)  (None, 112, 112, 64)      0

 block2_conv1 (Conv2D)       (None, 112, 112, 128)     73856

 block2_conv2 (Conv2D)       (None, 112, 112, 128)     147584

 block2_pool (MaxPooling2D)  (None, 56, 56, 128)       0

 block3_conv1 (Conv2D)       (None, 56, 56, 256)       295168

 block3_conv2 (Conv2D)       (None, 56, 56, 256)       590080

 block3_conv3 (Conv2D)       (None, 56, 56, 256)       590080

 block3_pool (MaxPooling2D)  (None, 28, 28, 256)       0

 block4_conv1 (Conv2D)       (None, 28, 28, 512)       1180160

 block4_conv2 (Conv2D)       (None, 28, 28, 512)       2359808

 block4_conv3 (Conv2D)       (None, 28, 28, 512)       2359808

 block4_pool (MaxPooling2D)  (None, 14, 14, 512)       0

 block5_conv1 (Conv2D)       (None, 14, 14, 512)       2359808

 block5_conv2 (Conv2D)       (None, 14, 14, 512)       2359808

 block5_conv3 (Conv2D)       (None, 14, 14, 512)       2359808

 block5_pool (MaxPooling2D)  (None, 7, 7, 512)         0

 flatten (Flatten)           (None, 25088)             0

 dense (Dense)               (None, 3)                 75267

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Total params: 14,789,955
Trainable params: 75,267
Non-trainable params: 14,714,688
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2.	Accuracy	Training Accuracy – 99.59% Validation Accuracy – 61.99%	Epoch 40/50 98/98 [==============================] - 15s 148ms/step - loss: 0.0851 - accuracy: 0.9724 - val_loss: 3.1305 - val_accuracy: 0.5789 Epoch 41/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0440 - accuracy: 0.9826 - val_loss: 2.1611 - val_accuracy: 0.5965 Epoch 42/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0265 - accuracy: 0.9918 - val_loss: 2.1988 - val_accuracy: 0.6023 Epoch 43/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0268 - accuracy: 0.9898 - val_loss: 2.1974 - val_accuracy: 0.6082 Epoch 44/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0093 - accuracy: 0.9969 - val_loss: 2.1967 - val_accuracy: 0.6199 Epoch 45/50 98/98 [==============================] - 15s 149ms/step - loss: 0.0212 - accuracy: 0.9969 - val_loss: 2.1988 - val_accuracy: 0.6199 Epoch 46/50 98/98 [==============================] - 15s 148ms/step - loss: 0.0605 - accuracy: 0.9775 - val_loss: 2.5273 - val_accuracy: 0.6257 Epoch 47/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0130 - accuracy: 0.9969 - val_loss: 2.4369 - val_accuracy: 0.5965 Epoch 48/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0285 - accuracy: 0.9867 - val_loss: 2.6190 - val_accuracy: 0.5556 Epoch 49/50 98/98 [==============================] - 14s 148ms/step - loss: 0.0404 - accuracy: 0.9877 - val_loss: 2.3835 - val_accuracy: 0.6550 Epoch 50/50 98/98 [==============================] - 14s 147ms/step - loss: 0.0139 - accuracy: 0.9959 - val_loss: 2.3079 - val_accuracy: 0.6199