PROJECT DEVELOPMENT
PHASE
SPRIN
T-II

Date	5 November 2022
TeamID	PNT2022TMID01238
Project Name	Intelligent vehicle damage assessment & cost estimator forinsurance companies.
MaximumMarks	4 Marks

Image Pre-processing

#Import The ImageDataGenerator Library:

# Import required lib
from tensorflow.keras.preprocessing.image import ImageDataGenerator

#Configure ImageDataGenerator Class :

#Creating augmentation on training variable
train_datagen =
ImageDataGenerator(rescale=1./255,
                   zoom_range=0.2,
                   horizontal_flip=True)

Creating augmentation on testing variable test_datagen
= ImageDataGenerator(rescale=1./255)

#Apply ImageDataGenerator Functionality To Trainset And Testset :

For Body Damage:
Passing training data to train variable for body xtrain =
train_datagen.flow_from_directory('/content/damage vehicle/body/training',
                   target_size=(224,22
                   4),
                   class_mode='catego
                   rical',
                   batch_size=10)

# Passing testing data to test variable for body
xtest = test_datagen.flow_from_directory('/content/damage vehicle/body/validation',
                   target_size=(224,224),
                   class_mode='catego
                   rical',
                   batch_size=10)

For Level Damage:

```python
# Passing training data to train variable for body
x_train = train_datagen.flow_from_directory('/content/damage vehicle/level/training',
                          target_size=(224,224),
                          class_mode='categorical',
                          batch_size=10)


# Passing training data to test variable for body
x_test = test_datagen.flow_from_directory('/content/damage vehicle/level/validation',
                          target_size=(224,22
                          4),
                          class_mode='catego
                          rical',
                          batch_size=10)
```