PROJECT DEVELOPMENT PHASE
SPRINT-II

Date	11November 2022
TeamID	PNT2022TMID34552
Project Name	Intelligent vehicle damage assessment & cost estimator for insurance 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=(224,224),
                class_mode='categorical',
                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='categorical',
                batch_size=10)
```

For Level Damage:

```
# Passing training data to train variable for body
```

```python
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=(224,224),
                          class_mode='categorical',
                          batch_size=10)
```