PROJECT DEVELOPMENT PHASE
PROJECT DEVELOPMENT – DELIVERY OF SPRINT II

DATE	18 November 2022
TEAM ID	• PNT2022TMID45779
PROJECT NAME	Project - Intelligent Vehicle Damage Assessment and Cost Estimator for Insurance Companies

IMAGE PREPROCESSING :

#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='categoricl',
                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
x_train = train_datagen.flow_from_directory('/content/damage
                vehicle/level/training', target_size=(224,224),
                class_mode='categorical',
                batch_size=10)
```

```python
# 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='categorica
                          l',batch_size=10)
```