# PROJECT DEVELOPMENT PHASE

**SPRINT-II**

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| Date | 5 November 2022 |
| Team ID | PNT2022TMID38777 |
| Project Name | Intelligent vehicle damage assessment & cost estimator for insurance companies. |
| Maximum Marks | 4 Marks |

Image Preprocessing

<https://colab.research.google.com/drive/1qQS09-eE8x1G63pl06EHZs65rUgm8Ols?usp=sharing>

## #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

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)