**PROJECTDEVELOPMENTPHASE**

**SPRINT-II**

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| Date | 12November2022 |
| TeamID | PNT2022TMID50946 |
| ProjectName | Intelligent vehicle damage assessment & cost estimator forinsurance companies. |
| MaximumMarks | 4Marks |

ImagePre-processing

# #ImportTheImageDataGeneratorLibrary:

#Importrequiredlib

fromtensorflow.keras.preprocessing.imageimportImageDataGenerator

# #ConfigureImageDataGeneratorClass:

#Creating augmentation on training variabletrain\_datagen=ImageDataGenerator(rescale=1./255,

zoom\_range=0.2,horizontal\_flip=True)

#Creatingaugmentationontestingvariabletest\_datagen

=ImageDataGenerator(rescale=1./255)

# #ApplyImageDataGeneratorFunctionalityToTrainsetAndTestset:

## For BodyDamage:

# Passing training data to train variable for body xtrain =train\_datagen.flow\_from\_directory('/content/damagevehicle/body/training',

target\_size=(224,224),class\_mode='categorical',batch\_size=10)

#Passingtestingdatatotestvariableforbody

xtest =test\_datagen.flow\_from\_directory('/content/damage vehicle/body/validation',target\_size=(224,224),

class\_mode='categorical',batch\_size=10)

## ForLevelDamage:

#Passingtrainingdatatotrainvariablefor body

x\_train=train\_datagen.flow\_from\_directory('/content/damagevehicle/level/training',target\_size=(224,224),

class\_mode='categorical',

batch\_size=10)

#Passingtrainingdatatotestvariablefor body

x\_test=test\_datagen.flow\_from\_directory('/content/damagevehicle/level/validation',

target\_size=(224,224),class\_mode='categorical',batch\_size=10)