PROJECT DEVELOPMENT PHASE
SPRINT-II

Date	05 November2022
TeamID	PNT2022TMID18626
Project Name	Fertilizers Recommendation System For Disease Prediction
MaximumMarks	4Marks

Image Preprocessing

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#Import The ImageDataGenerator Library:

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

#Define the parameters /arguments for imagedatagenerator class :

```
train_datagen = ImageDataGenerator(rescale=1./255,shear_range=0.2,zoom_range=0.2, horizontal_flip=True)

test_datagen = ImageDataGenerator(rescale=1)
```

#Applying ImageDataGenerator functionality to trainset and testset :

```
x_train = train_datagen.flow_from_directory('/content/Dataset Plant Disease/Fruits
Dataset/test',target_size=(128,128),batch_size=32, class_mode ='categorical')

x_train = train_datagen.flow_from_directory('/content/Dataset Plant Disease/Fruits
Dataset/train',target_size=(128,128),batch_size=32, class_mode ='categorical')

x_train1 = train_datagen.flow_from_directory('/content/Dataset Plant Disease/Vegetable
Dataset/test',target_size=(128,128),batch_size=32, class_mode ='categorical')

x_train1= train_datagen.flow_from_directory('/content/Dataset Plant Disease/Vegetable
Dataset/train',target_size=(128,128),batch_size=32, class_mode=’categorical’)


print(x_train.class_indices) print(x_test.class_indices)

from collections import Counter as c c
(x_train.labels)
```