**PROJECT DEVELOPMENT PHASE**

# DELIVERY OF SPRINT-1

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| Date | 18 November 2022 |
| Team ID | PNT2022TMID45424 |
| Project Name | Emerging methods for the early detection of forest fires |

**Executable Program**

from tensorflow.keras.preprocessing.image import ImageDataGenerator

train\_datagen=ImageDataGenerator(rescale=1./255,shear\_range=0.2,rotation\_range=180,z oom\_range=0.2,horizontal\_flip=True) test\_datagen=ImageDataGenerator(rescale=1./255)

x\_train=train\_datagen.flow\_from\_directory(r'C:\Users\USER\Documents\Sem7\Naalaiyathir an\Dataset\Dataset\train\_set', target\_size=(128,128),

batch\_size=32, class\_mode='bi nary')

x\_test=train\_datagen.flow\_from\_directory(r'C:\Users\USER\Documents\Sem7\Naalaiyathira n\Dataset\Dataset\test\_set', target\_size=(128,128),

batch\_size=32, class\_mode='bi nary')

x\_train.class\_indices

from tensorflow.keras.models import Sequentialfrom tensorflow.keras.layers import Dense

from tensorflow.keras.layers import Convolution2D,MaxPooling2D, Flattenimport warnings warnings.filterwarnings('ignore')

model=Sequential()

model.add(MaxPooling2D(pool\_size=(2,2))) model.add(Flatten()) model.summary()



