PROJECT DEVELOPMENT PHASE – SPRINT 3

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```
# -*-
coding:
utf-8 -
          """Untitled5.ipvnb
          Automatically generated by Colaboratory.
          Original file is located at
          https://colab.research.google.com/drive/1klxBjI0HDJ70AtmBM1Jg3JoiC478NDJE
          .....
          !pip install twilio
          !pip install playsound==1.2.2
          import cv2
          import numpy as np
          from tensorflow.keras.utils import load_img,img_to_array
          from tensorflow.keras.models import load_model
          from twilio.rest import Client
          import getpass
          from playsound import playsound
          msg_sent = False
          model = load_model('/content/drive/MyDrive/archive.zip (Unzipped
          Files)/forest1.h5')
          video = cv2.VideoCapture("/content/drive/MyDrive/demo_video 1.mp4")
          def send_message():
              global phno
              account sid = os.environ['TWILIO ACCOUNT SID']
              auth token = os.environ['TWILIO AUTH TOKEN']
              client = Client(account_sid,auth_token)
              msg = client.messages.create(
                  body="Fire Detected! Get to safety immediately!!!!",
                  from_=os.environ['TWILIIO_PHONE_NUMBER'],
                  to=phno
              )
```

```
print(msg.sid)
    print("Fire Detected")
    print("SMS Sent")
phno = getpass.getpass(prompt="Enter your phone number with the country
code:")
"""**Alerting code**"""
v = 0
while True:
    success,frame = video.read()
    cv2.imwrite('output.jpg',frame)
    img = load_img(s,target_size=(128,128))
    x = img_to_array(img)
    x = np.expand_dims(x,axis=0)
    predict = model.predict(x)
    y = int(predict[0][0])
    if y==1:
        if not msg_sent:
            send_message()
            msg_sent = True
            playsound('alert.mp3')
    else:
        print("No Forest Fire Detected")
    cv2.imshow("Image",img)
    if cv2.waitKey(10) & 0xFF == ord('q'):
        break
video.release()
cv2.destroyAllWindows()
```