

PROJECT DEVELOPMENT PHASE

PROJECT DEVELOPMENT – DELIVERY OF SPRINT-1

DATE	08- NOVEMBER-2022
TEAM ID	PNT2022TMID39801
PROJECT NAME	REAL-TIME COMMUNICATION SYSTEM POWERED BY AI FOR SPECIALLY ABLED
MAXIMUM MARKS	

IMPORTING NECESSARY LIBRARIES:-

```
In [1]: import cv2
import pytesseract
import os
from PIL import image
import sys
```

READING IMAGE WITH DATA FILES:-

```
In [ ]: def get_string(img_path):
        #read image with opencv
        img=cv2.imread(img_path)
```

REMOVING NOISE FROM DATASET:-

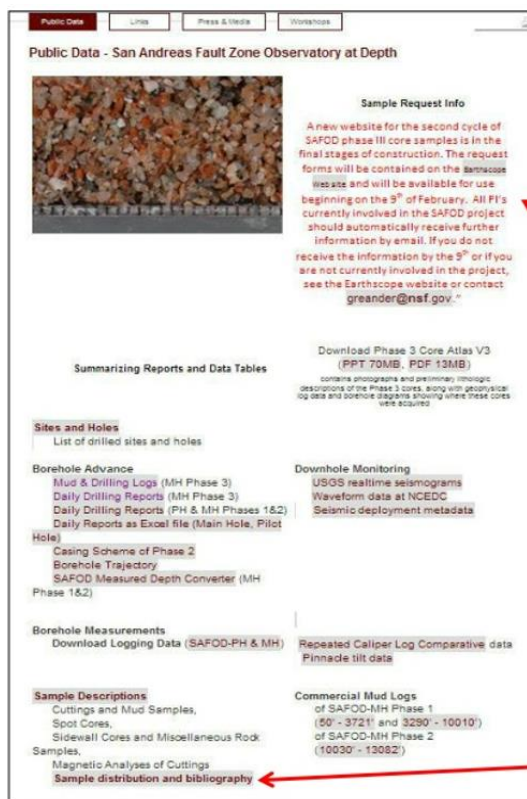
```
In [ ]: #convert to gray
img=cv2.cvtColor(img,cv2.COLOR_BGR2GRAY)
#apply dilation & erosion to remove some noise
kernel=np.ones((1,1),np.uint8)
img=cv2.dilate(img,kernel,iterations=1)
img=cv2.erode(image,kernel,iterations=1)
```

RECOGNISING THE DATASET & CHANGING TEXT TO

READ:-

```
In [ ]: #Write the image after apply opencv to do some...
cv2.imwrite("thres.png",img)
#recognize text with tesseract for python
result=pytesseract.image_to_string(image.open("thres.png"))
os.remove("thres.png")

return result
```



CHANGE TEXT TO READ:

For information on obtaining SAFOD core, cuttings and other samples please go to the [Earthscope Web site](http://www.earthscope.org). All PI's currently involved in SAFOD should automatically receive email updates on timetables for requesting SAFOD samples from the EarthScope National Office. If you are not receiving this information or if you are not currently involved in SAFOD and wish to be, please see the Earthscope website or contact the NSF EarthScope Program Coordinator, Greg Anderson (greander@nsf.gov).

CHANGE TEXT TO READ:

Sample distribution, Phases 1 and 2 only (for Phase 3 core distribution and analyses go to www.earthscope.org)

DISPLAY IMAGES FROM DATASET:-

```
In [ ]: if_name=='_main_':
        from sys import argv

        if len(argv)<2:
            print("usage python image-to-text.py relative-filepath")
        else:
            print('---start recognize text from image---')
            for i in range(1,len(argv)):
                print(argv[i])
                print(get_string(argv[i]))
                print()
            print()
            print('-----Done-----')
```

SAMPLE IMAGES:-

Sign_img=cv2.imread(train_data_path+'0/0_234.jpeg')

Display(Text_img,'a')

Endorsement 2456
Leased mortgage additional interest

This endorsement extends the coverage shown below to the interest of the person or organization named. It applies while the described auto is under lease, rental or similar agreement. It expires when the agreement is terminated, or when the bailor or his agent takes possession of the auto. We will mail notice to the additional interest at least 10 days prior to any material policy change or cancelling this endorsement. We will mail this notice to the address shown below. All other provisions of the policy remain unchanged. The naming of this additional interest does not increase the policy limits.

ENTRY NO.	MODEL YEAR	MAKE OF VEHICLE	IDENTIFICATION NUMBER
1	2012	MINI	5A3C756XNR088976

PHYSICAL DAMAGE COVERAGE
 COMPREHENSIVE ACTUAL CASH VALUE LESS \$500 DED.
 COLLISION ACTUAL CASH VALUE LESS \$500 DED.

LIMITS OF LIABILITY
 Property Damage \$100,000 Each
 Bodily Injury \$100,000 Each

Policyholder:
 RICHARD K & DIANE L
 KERNAN
 4560 DANE RD
 AVON, CA 48011-2367

Policy Number:
 92 34 F 468786

Effective Date:
 NOV 15 2012

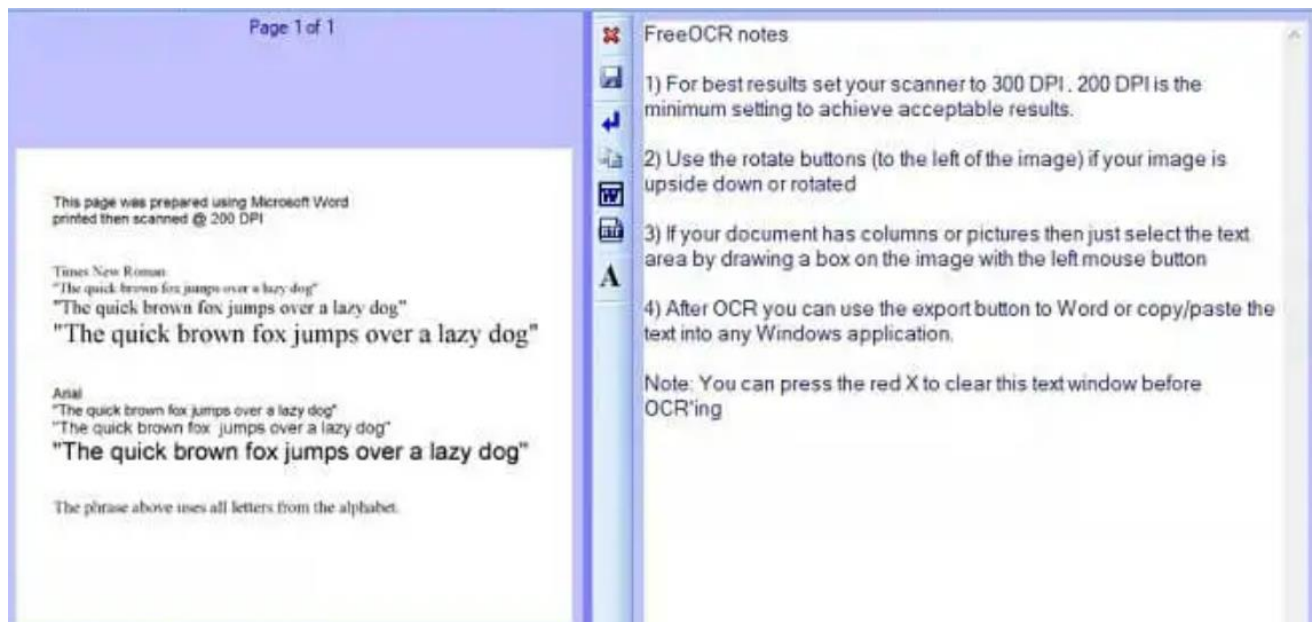
Expiration Date (endorsement is continuous if no date is shown herein):
 This endorsement is issued by Statewide National Insurance Company, Statewide National Fire Insurance Company, or Statewide Property and Casualty Insurance Company, whichever is the issuing company as shown in the Declarations.

Additional Interest:
 NATIONAL MOTOR
 CREDIT OF AMERICA
 PO BOX 6660
 SPRINGFIELD, IL
 45501-6660

STATEWIDE NATIONAL INSURANCE CO.
 STATEWIDE NATIONAL FIRE INSURANCE CO.
 STATEWIDE PROPERTY AND CASUALTY INSURANCE CO.

Sign_img=cv2.imread(train_data_path+'0/0_235.jpeg')

Display(Text_img,'b')



```
Sign_img=cv2.imread(train_data_path+'0/0_236.jpeg')
```

```
Display(Text_img,'c')
```

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MODERN war means mechanised armies, tanks, aeroplanes—thousands of them—and guns, in addition to men and munitions, and to equip and maintain a modern army for defending our homes will cost very large sums of money. Every patriotic Indian can help to make India strong and thus protect his home and family by saving as much as possible and lending his savings to Government. The Government of India have issued Defence Loans to suit the convenience of different classes of people. The object of these Defence Loans is to raise money to expand and equip our army, navy and air force for the defence of our country. By subscribing to these loans you will be paying the best insurance for your freedom and happiness.

(1) 10-Year Defence Savings Certificates

These certificates are a very safe and convenient method of investment. The minimum value of certificates is only Rs.10. They are, however, issued in larger amounts also—Rs.10, Rs.100, Rs.500 and Rs.1,000. A ten rupee certificate carries interest at the rate of five annas for each complete year, except the first year. In addition to interest, a certificate holder is entitled to a bonus of four annas at the end of the fifth year and eight annas at the end of the tenth year. The interest is income-tax free. Thus at the end of ten years, the certificate is valued at Rs.15-9-0, having earned Rs.5-9-0. This works out at the rate of 5-1/2 per cent compound interest. The certificates can be bought at any post office, but no person can buy more than Rs.1,000 (face value). Unlike other securities, fluctuations in the market cannot diminish their value. For if a holder wishes to get his money back before 10 years, he has only to apply to the Post Office from which he bought the certificate and he will get back his deposit of Rs.10 plus the interest and bonus that has accrued on it.

MODERN war means mechanised armies, tanks, aeroplanes—thousands of them—and guns, in addition to men and munitions, and to equip and maintain a modern army for defending our homes will cost very large sums of money. Every patriotic Indian can help to make India strong and thus protect his home and family by saving as much as possible and lending his savings to Government. The Government of India have issued Defence Loans to suit the convenience of different classes of people. The object of these Defence Loans is to raise money to expand and equip our army, navy and air force for the defence of our country. By subscribing to these loans you will be paying the best insurance for your freedom and happiness.

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