PROJECT DEVELOPMENT PHASE

PROJECT DEVELOPMENT – DELIVERY OF SPRINT-1

DATE	08- NOVEMBER-2022
TEAM ID	PNT2022TMID11994
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:-

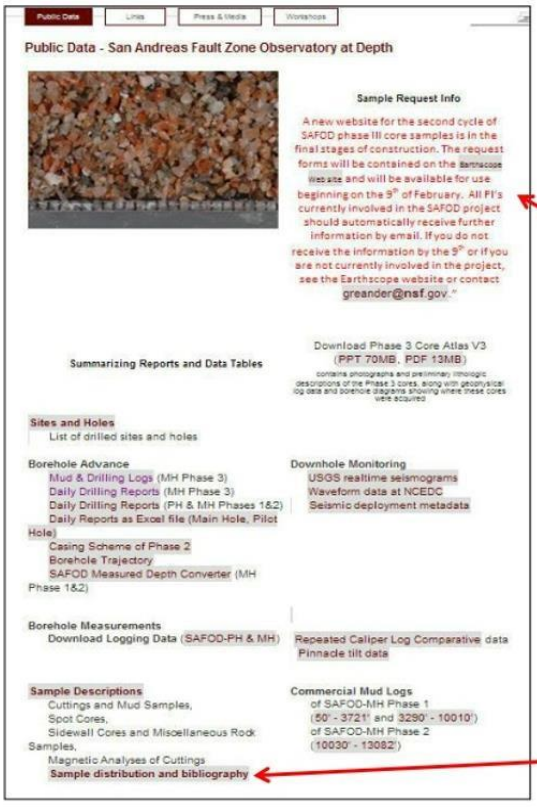
```
In [ ]: #convert to gray
        img=cv2.cvtcolor(img,cv2.COLOR_BGR2GRAY)
        #apply dilation & erosion to remove some noise
        kernel=np.ones((1,1),np.unit8)
        img=cv2.dilate(img,kernel,iterations=1)
        img=cv2.erode(image,kernel,iterations=1)
```

RECOGNISING THE DATASET & CHANGING TEXT TO

READ:-

```
In [ ]: #Write the image after apply opency 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. 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:-

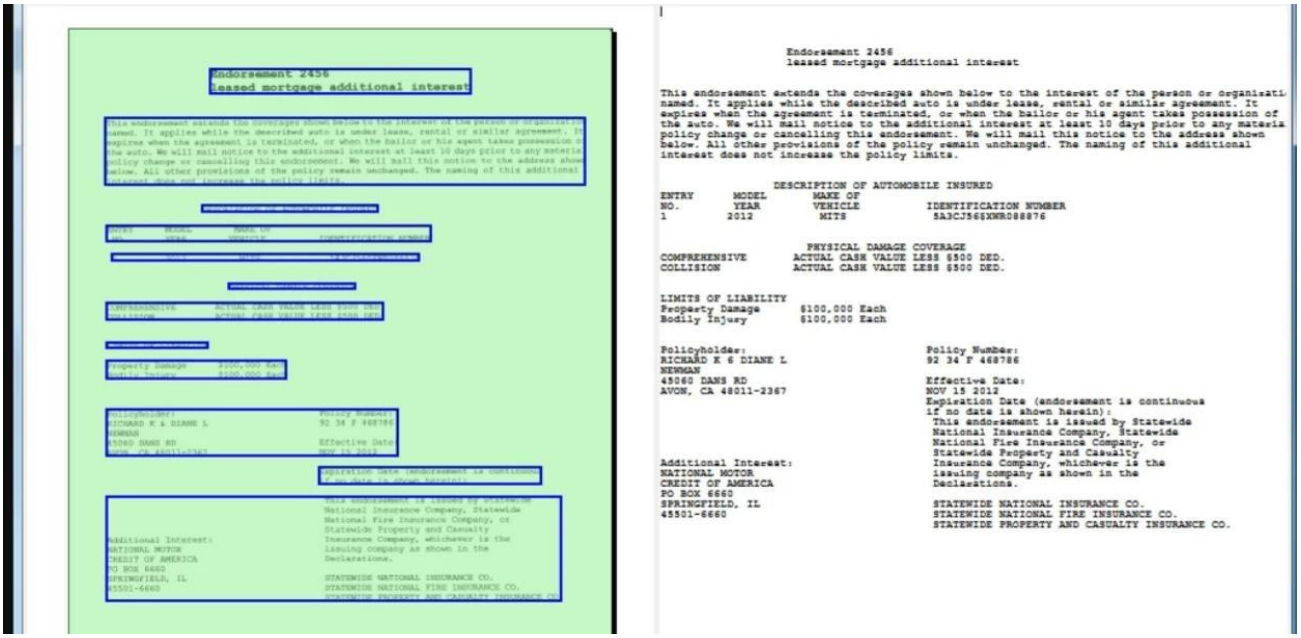
```
In [ ]: if_name_=='_main_':
            from sys import argv

            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:-

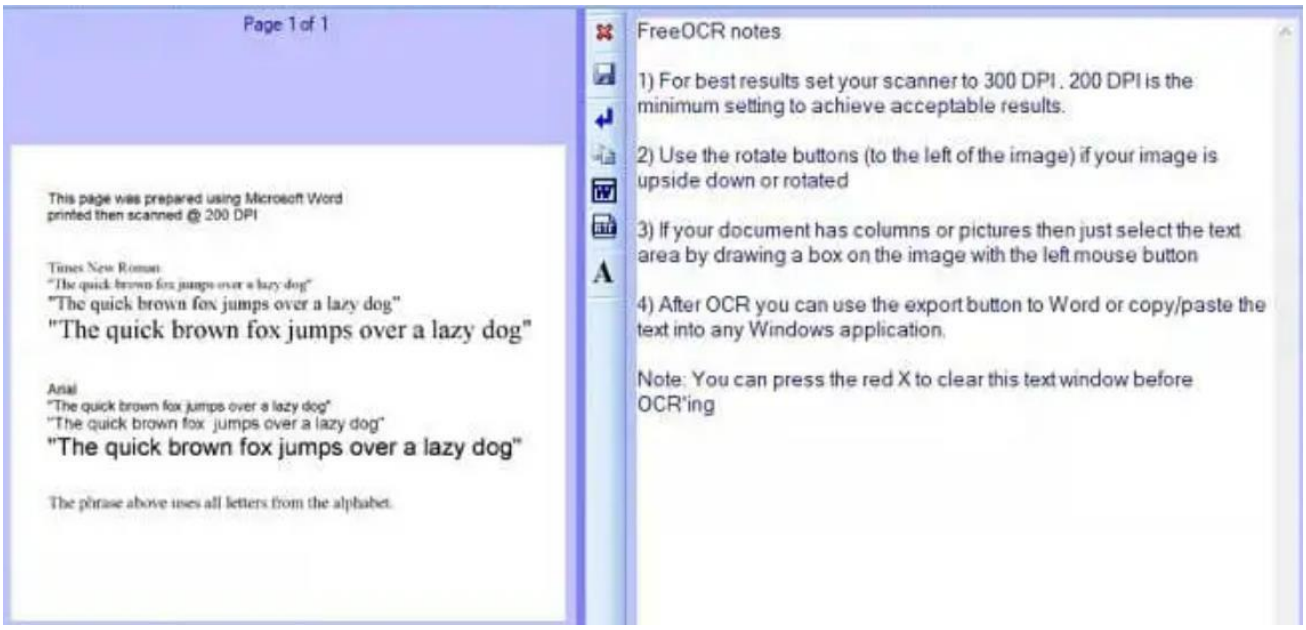
Sign_img=cv2.imread(train_data_path+’0/0_234.jpeg’)

Display(Text_img,’a’)



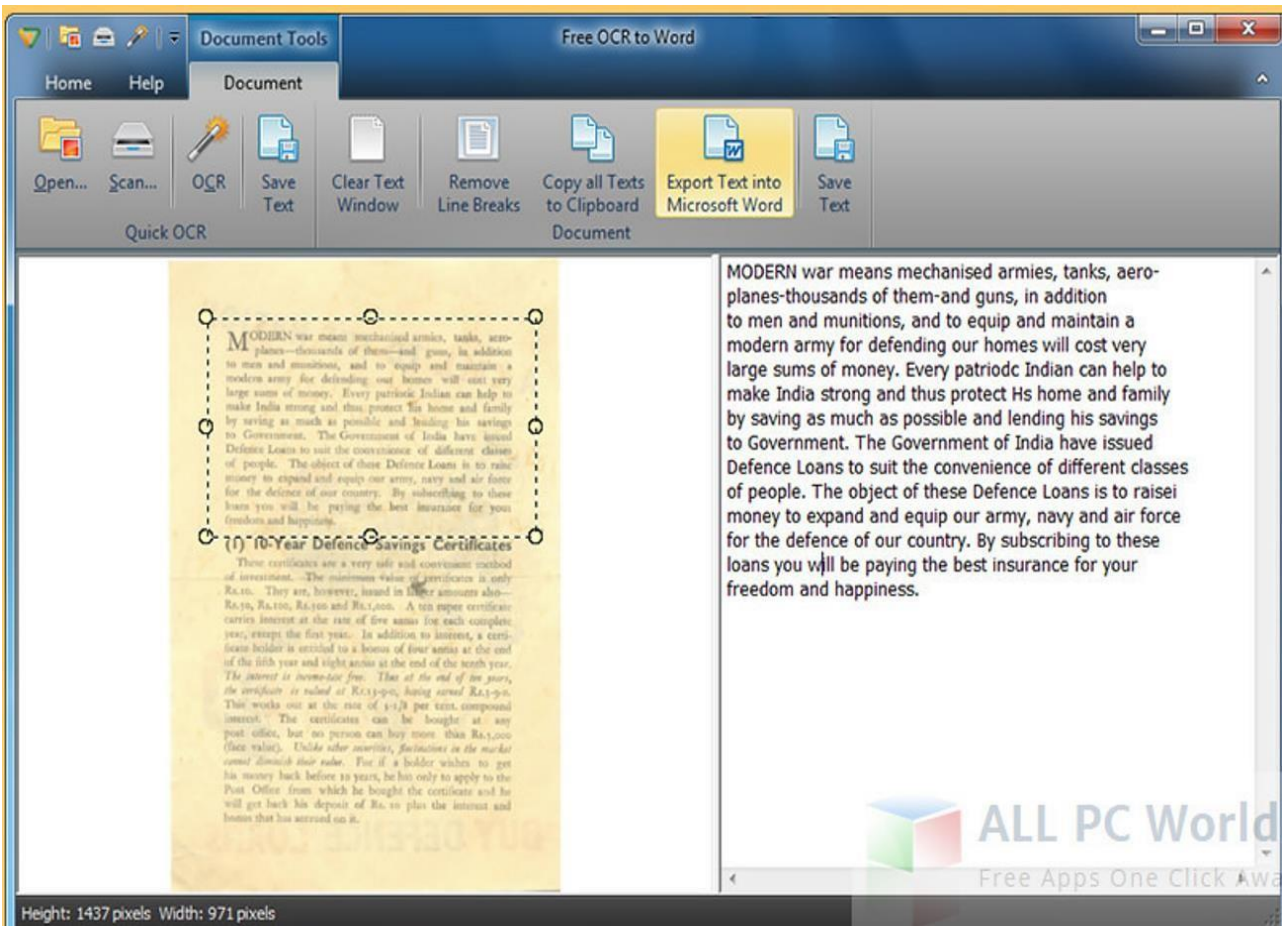
Sign_img=cv2.imread(train_data_path+’0/0_235.jpeg’)

Display(Text_img,’b’)



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

Display(Text_img,’c’)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Save Text
Quick OCR
Clear Text Window
Remove Line Breaks
Copy all Texts to Clipboard
Export Text into Microsoft Word
Save Text
Document
MODERN war means mechanised armies, tanks, aero-planes-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 patriodc Indian can help to make India strong and thus protect Hs 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 raisei 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
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