

# PROJECT DEVELOPMENT PHASE

## PROJECT DEVELOPMENT – DELIVERY OF SPRINT-1

DATE	08- NOVEMBER-2022
TEAM ID	PNT2022TMID00785
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](#). 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](mailto: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](http://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 coverages 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	NAME OF VEHICLE	IDENTIFICATION NUMBER
1	2012	MTS	5A3CJ566XWR088876

**COMPREHENSIVE COLLISION**

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

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

**Policyholder:**  
RICHARD K & DIANE L  
NEUMAN  
45500 DANE RD  
AVON, CA 48011-2367

**Policy Number:**  
92 34 F 468786

**Effective Date:**  
NOV 15 2012

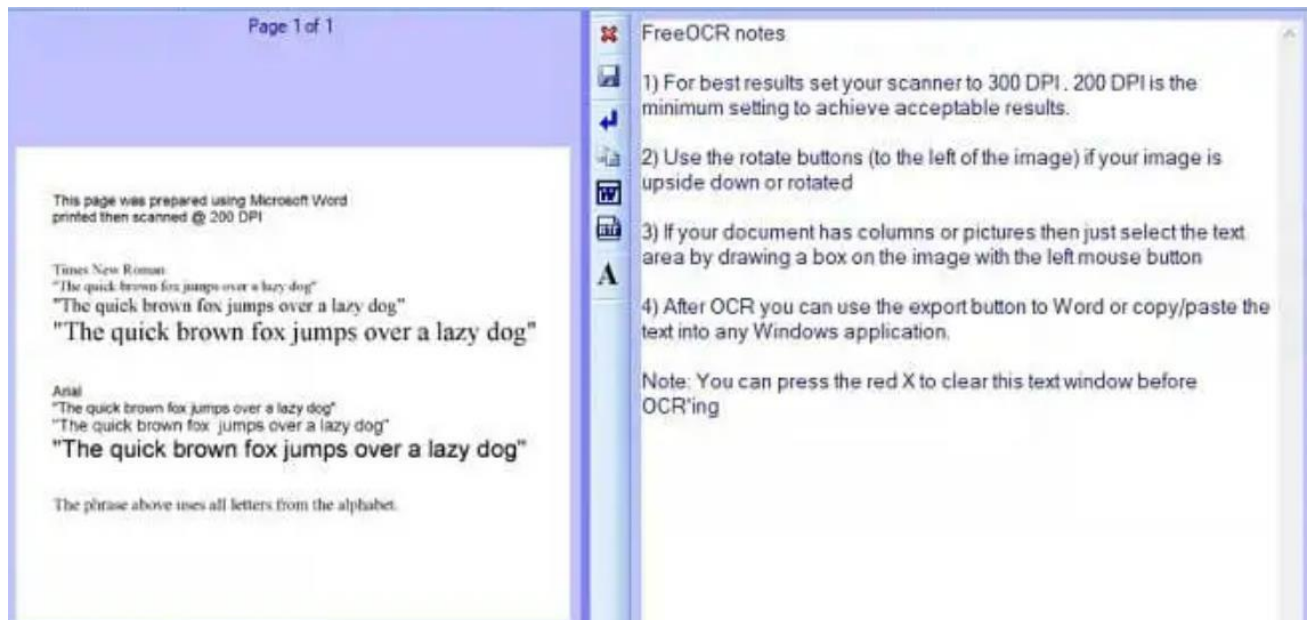
**Expiration Date (endorsement is continuous if no date is shown herein):**  
This endorsement is issued by Statewide National Insurance Company, Statewide National Fire Insurance Company, or Statewide Property and Casualty Insurance Company, whichever is the issuing company as shown in the Declarations.

**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')
```

