PROJECT DEVELOPMENT PHASE

<u>PROJECT DEVELOPMENT – DELIVERY OF</u> <u>SPRINT-4</u>

Date	16-November-2022
Team ID	PNT2022TMID00785
Project	Real-Time Communication System
Name	Powered by AI for Specially Abled

IMPORTING FILES

import cv2

import pytesseract

import numpy as np

import os

from PIL import Image

import sys

DEFINING STRING:-

```
def get_string(img_path):
    # Read image with opencv
img = cv2.imread(img_path)
```

Convert to gray

img = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)

Apply dilation and erosion to remove some noise

kernel = np.ones((1, 1), np.uint ≥

img = cv2.dilate(img, kernel, iterations=1)

```
img = cv2.erode(img, kernel, iterations=1)
  # 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
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('-----')
```

```
import cv2
import pytesseract
import numpy as np
import os
from PIL import Image
import sys
def get_string(img_path):
      # Read image with opencv
img = cv2.imread(img_path)
      # Convert to gray
      img = cv2.dilate(img, kernel, iterations=1)
img = cv2.erode(img, kernel, iterations=1)
     # 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
if _name_ == '_main_':
    from sys import argv
      if len(argv)<2:
           print("Usage: python image-to-text.py relative-filepath")
        print('--- Start recognize text from image ---')
        for i in range(1,len(argv)):
             print(argv[i])
             print(get string(argv[i]))
             print()
             print()
        print('-----')
```