**Pre-Requisite**

To run the Code One needs to install following libraries / programs installed in their system

Programs/IDE



Python

anaconda

Jupyter notebook

Spyder

Java 32 bit(JRE) - required to show the documents on the WCF portal

Python Libraries:

**Libraries**  **Functionality**

easyocr OCR engine which extracts the text out of an image.

cv2 Image processing library, (apply different filters to an image , detect horizontal and

vertical lines in an image )

numpy used to convert the images to numpy.ndarray

pdf2image used to covert the pdf forms to image , for this library to work a dependency is

required (poppler)

poppler install its setup in your system. Later it's path will be required during the

conversion of pdf to an image.

Matplotlib used to plot the numpy images to have a visual confirmation of the executed

Program(whether the filter is applied or not)

os, glob A module in Python provides functions for interacting with the operating system,

here used to work with different directories. To check whether a file is present or

not in a certain directory.

selenium Python library used for interacting with website elements, all the website actions

are performed using this library.

IEdriver(32 bit) Since the website is only internet explorer compatible internet explorer 32 bit

Driver needs to be installed in the system.

Pyautogui Python library used for performing mouse and keyboard actions, the actions

which cannot be performed using selenium are performed using this library.

Threading Python library used to performs multiple operations at the same time, used to

Validate the forms as valid medical records.