

Selenium with OCR Technology for Image Verification With Text

Agenda for this Document: To discuss the verification of IMAGE in Selenium c# with the OCR technology.

What is OCR: Optical character recognition (OCR) is the mechanical or electronic conversion of images of typewritten or printed text into machine-encoded text. It is a common method of digitizing printed texts so that it can be electronically edited, searched, stored more compactly, displayed on-line, and used in machine processes.

Where and When OCR technology is required for Selenium.

When we are automating our application with Selenium and C# as a language. There might be some scenario where we need to verify images. In this type of situation tampering images won't give good result, and also Selenium c# is not that much compatible with **SIKULI** which does a decent job for Selenium JAVA in this kind of image processing/verification etc etc. There OCR technology comes in to the picture which serves the purpose well.

What we can Do with OCR.

We can extract text from the images and can verify the same from our Selenium C# application Under test.

HOW:

We need to download the required image locally and perform the action in following two ways:

A. Using "<https://www.newocr.com/>" we can upload the image and can extract the text from the image.

B. Using "tesseract-ocr" we can achieve the purpose very well.

What is Tesseract-Ocr.

Tesseract is probably the most accurate open source OCR engine available. Combined with the Leptonica Image Processing Library it can read a wide variety of image formats and convert them to text in over 60 languages.

How: We need to install tesseract-ocr in our system and through cmd prompt we can extract text from the image.