Ui Path
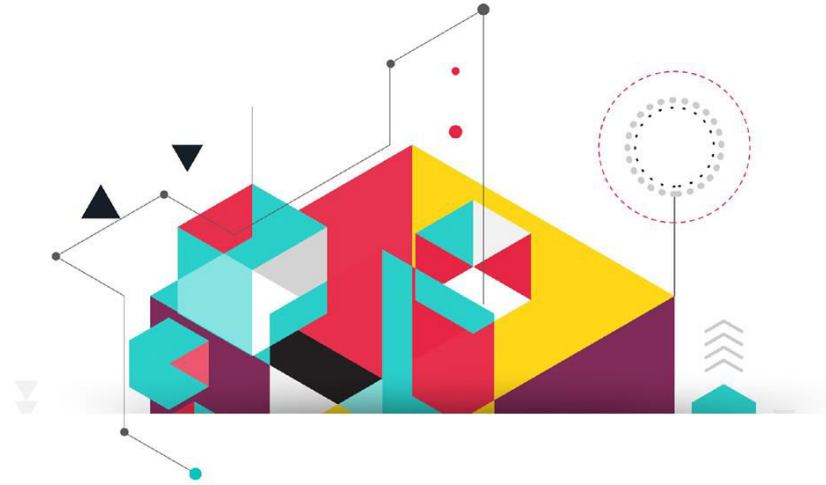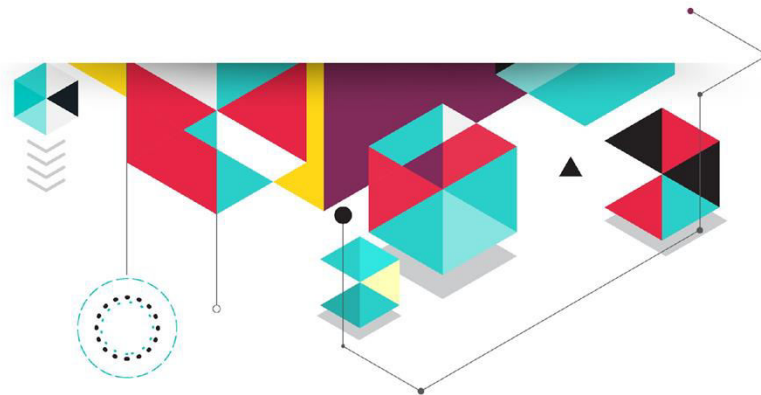
Robotic Process Automation

LESSON 7 – IMAGE AND TEXT AUTOMATION – RECAP

This chapter introduced you to the techniques used to automate virtualized environments, where all interactions are performed using images. In this context, you also learnt how to setup and use **OCR**.

Takeaways

UiPath
Robotic Process Automation

- Since you cannot use selectors on the image that is sent in a Citrix environment, the approach is a little different than in other scenarios: you perform actions in relation to some elements.

- In a Citrix environment, **Click Image** and **Click OCR Text** are your best friends for inputting.

- **Click OCR Text** uses **OCR** to find the target text.

- Both **Click OCR Text** and **Click Image** offer options for modifier keys, single or double click and left or right mouse buttons.

- Remember you can tweak the **Click Image**'s **Accuracy** property to get the desired results. This value goes from 0 to 1 and higher values mean higher similarity between the images.

- Getting information out of such environments is done through the use of 2 methods: Copy Selected Text (**Select & Copy** from the recorder) and **Scrape Relative**. Just keep in mind that for **Copy Selected Text** to work you need Clipboard sharing enabled between local and Citrix environment.

- **Scrape Relative** scrapes only a portion of an image, relative to an anchor.

Best practices

Click Image is fast and reliable, but sensitive to graphical variations, while **Click OCR Text** is immune to such changes but susceptible to OCR failures.

To avoid the problems that come with **Click OCR Text** and **Click Image** you should use keyboard shortcuts as much as possible.

Selecting too much or too little of an image might lead to it not being found or a false positive.

To get good results when matching images, the resolution should be at least equal to the one used when recording the workflows. You can also compensate such losses by lowering the **Accuracy** factor.

Pay attention to how the application layout changes on different resolutions when using coordinate based techniques.

If your automation supports different resolutions you can use parallel recordings inside a **Pick Branch**.

The MODI engine can sometimes create memory leaks when used in loop automations, so you should invoke it from a separate workflow with the **Isolated** property.

Useful links

About Image and Text Automation
Mouse and Keyboard Activities
Text Activities
OCR Activities
Image Activities
Mouse and Keyboard Automation
Text Automation
OCR and Image Automation