Lab Guide

IBM RPA – Automate Java Apps

Hands-on Lab

Version 1.3 for General Availability

Paul Pacholski – pacholsk@ca,ibm.com

Nigel Crowther – ncrowther@uk.ibm.com





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1. Introduction

This hands-on lab you will use RPA Automation Studio to enhance the automation you created in <u>Lab 1</u>. You will start with an existing automation and make the necessary enhancements.



FIGURE 1. RPA - AUTOMATION STUDIO

Use case

In Lab 1 you learned how to automate processing of sales leads that arrive in a CSV/Excel format. The bot you created in Lab 1 automatically entered the sales leads into the online opportunity system of record (JK Automation Sales Leads).

In this Lab you will learn how to enter the sales leads into a legacy Java SWING Application.

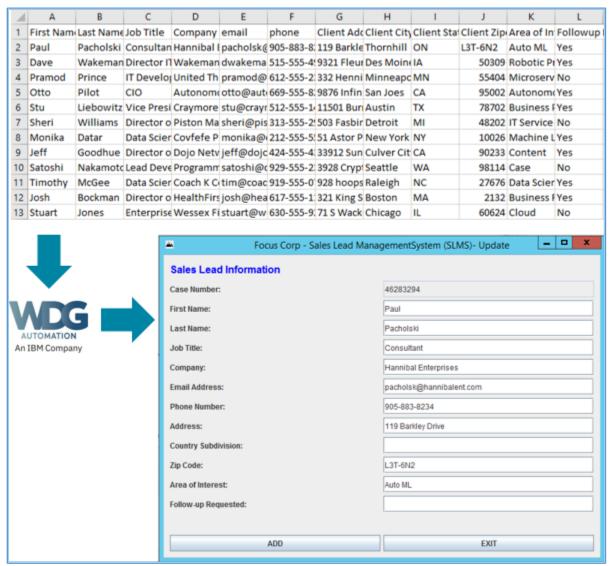
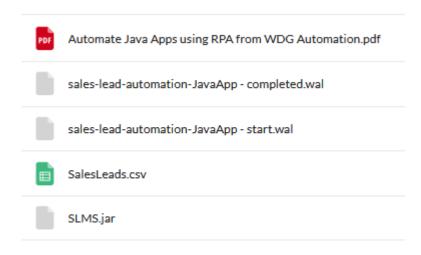


FIGURE 2. RPA BOT INSERTS CSV DATA INTO JAVA SWING LEGACY APPLICATION

Prerequisites

- Personal RPA Account activated
- RPA Studio installed and configured to your computer

Before you start make sure you download the lab files from this BOX folder: https://ibm.box.com/s/g35bfmx4ck66ii2hkxqkr4i6sgpxbb3v

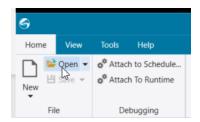


2. Run Completed Automation

If you just want to run the automation without authoring it first follow these instructions below.

Open completed lab

_1. In RPA Studio, Select Open



_2. Navigate to sales-lead-automation-JavaApp - completed.wal and click Open.

Change input csv file location

1. Double click on the Read CSV File command

Read CSV file Read CSV File

Read the content of the CSV file C:\Lab 7\SalesLeads.csv, using, as a delimiter and accounting for headers,

_2. Click File selection helper icon to change the location of the SalesLeads.csv file

Change location of the Java App

_3. Double click on the Launch and Attach Window command

Start Java App

Launch and Attach Window

Launch an application from path C:\Lab 7\SLMS.jar and attach the application window to

_4. Click File selection helper icon to change the location of the SLMS.jar file

Run the automation

_1. Click the green Start icon form the top toolbar. Alternatively you can hit F5.



_2. Follow the steps in <u>Test your automation</u> on page 21.

3. Lab Instructions

Start RPA Automation Studio

_1. Double-click the RPA Studio shortcut in your desktop.



_2. When the login window opens (might take a while for the first time), type in your username and hit the Login button.



_3. When your tenant name is displayed, type in your password and hit the Login button again.



Import starting automation WAL file

You will now import the automation file that includes some of the code you created in Lab 1: "Build your first RPA bot using RPA Automation" - https://ibm.box.com/s/6fcqashjedvuzp8xckwu0e4i2o4i14g9

_1. Click Open icon from the top toolbar.



_2. Select sales-lead-automation-JavaApp - start.wal and click Open.

Change inpute csv file location

_1. Double click on the Read CSV File command



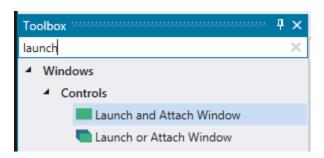
_2. Click File selection helper icon to change the location of the SalesLeads.csv file and then click Save



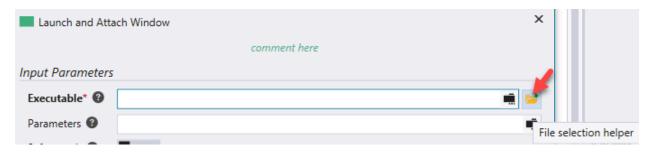
_3. Save your work by hitting Ctrl+S or the Save icon from the top toolbar.

Add Launch Java App Command

_1. In the Toolbox palette enter Launch



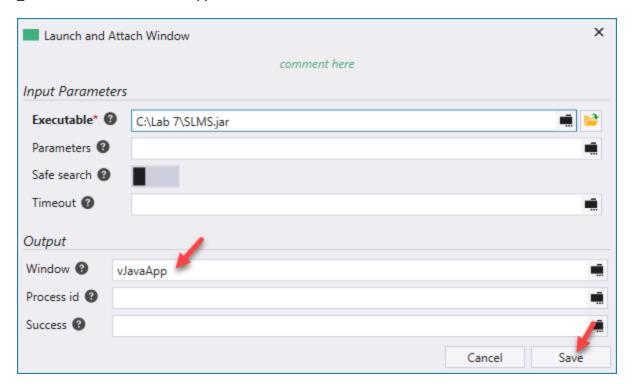
- _2. Drag and drop Launch and Attach Window command below line with Start Java App comment
- _3. Click File selection helper



_4. Select SLMS.jar



_5. For Window enter vJavaApp and click Save



Your new command should look like this



Automate the Login Window

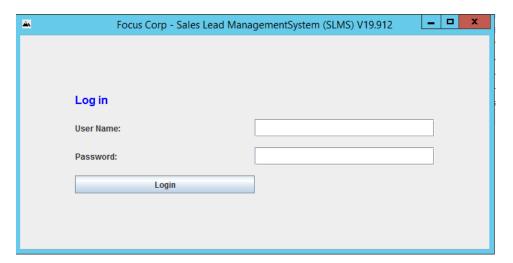
You will use the Screen Reorder to capture the ids of the Java App fields and to interact with the



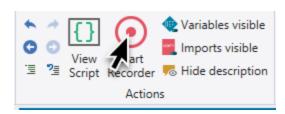
controls in the Java App you are automating.

_1. Start the Java App by double clicking on **SLMS.jar** file (this is one of the lab files.

You should now see the login window.



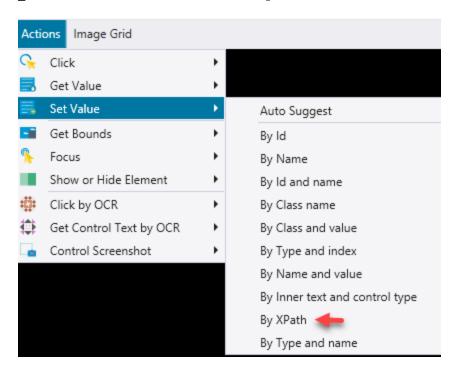
_2. Click Start Recorder



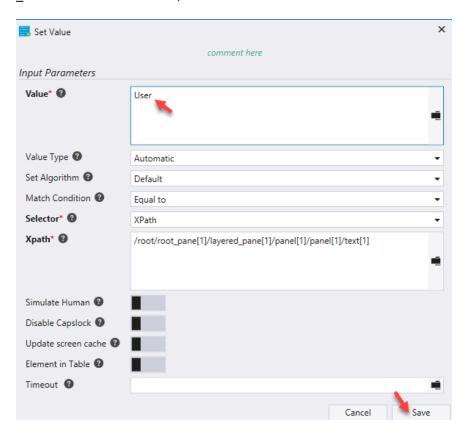
_3. Use Left Ctrl key to select entry field to the left of **User Name** label. When selected the entry field will turn red.

User Name:	

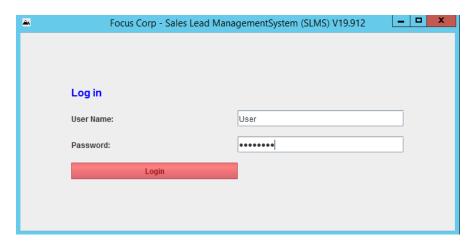
_4. Select Actions > Set Value > By XPath



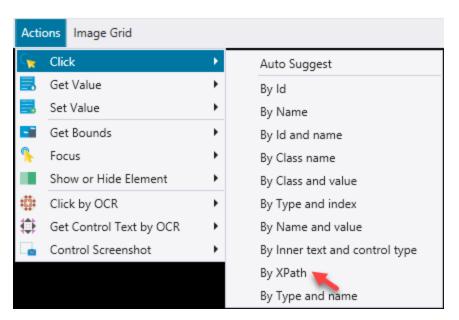
_5. In Set Value window, For Value enter User and click Save



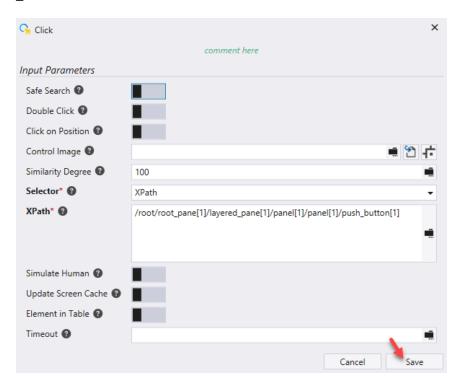
- _6. Use Left Ctrl key to select entry field to the left of **Password** label. When selected the entry field will turn red.
- _7. Select Actions > Set Value > By XPath
- _8. In Set Value window, For Value enter password and click Save
- _9. Use Left Ctrl key to select Login button. When selected the button will turn red.



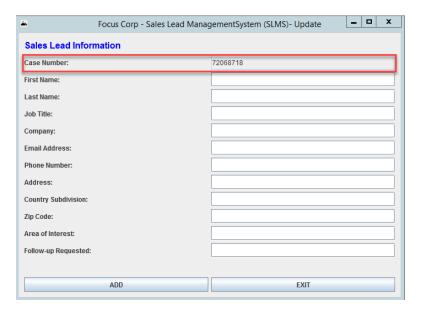
_10. Select Actions > Click > By XPath



_11. On Click window click Save



Note that now the Java App display the Update Pane with Case Number for a sales lead already generated

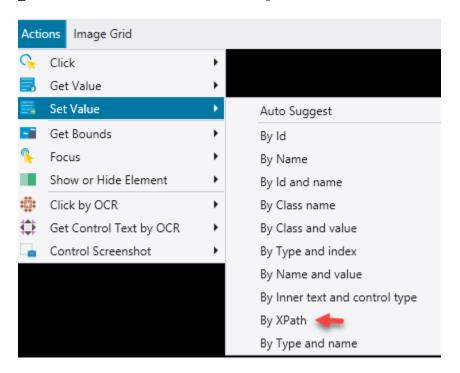


Automate the Data Entry onto Update Window

_1. Use Left Ctrl key to select entry field to the left of **First** label. When selected the entry field will turn red.

First Name:

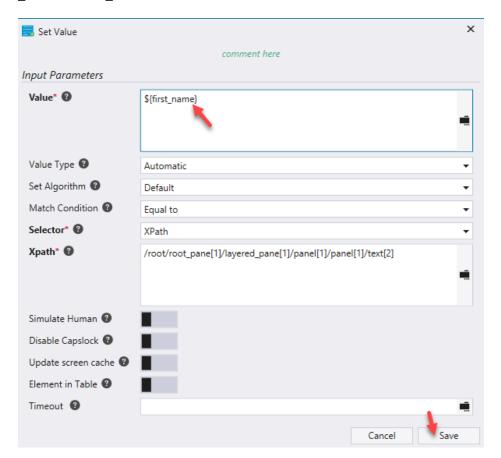
_2. Select Actions > Set Value > By XPath



_3. In Set Value Windows click Select a variable



_4. Select first_name and click Save



_5. Repeat the above steps select the matching variables so that your Update pane looks like this:

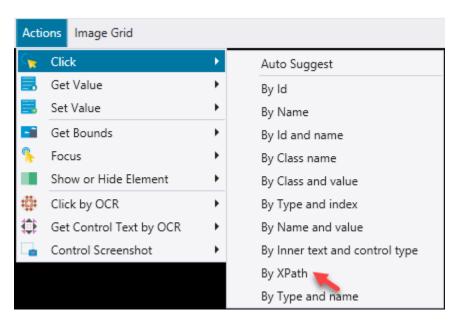


Automate Buttons in Update Pane

_1. Use Left Ctrl key to select ADD button. When selected the button will turn red.

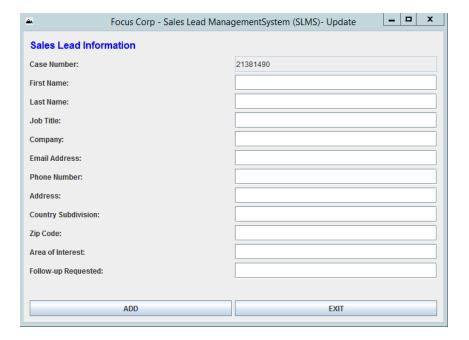


_2. Select Actions > Click > By XPath



_3. On Click window click Save

Note that this action cleared all the entry files and generated a new Case Number



- _4. Use Left Ctrl key to select EXIT button. When selected the button will turn red.
- _5. Select Actions > Click > By XPath
- _6. On Click window click Save

Note that this action close the Java App.

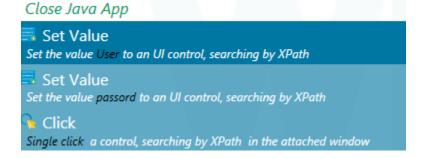
_7. On X button to close the Recorder (located in top right corner of your display)



Move Commands Generated by Recorder

The commands generated by the Recorder appear at the end of the WAL file. We will need to move these Commands to the right locations.

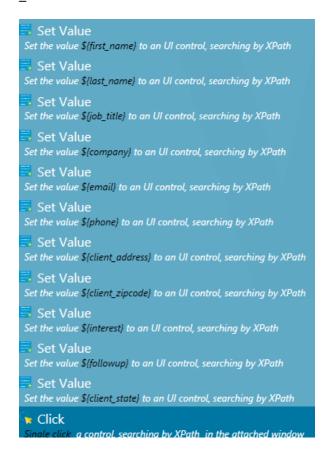
_1. Select the three Commands that automate Java App login (use Shift key for multiple selection)



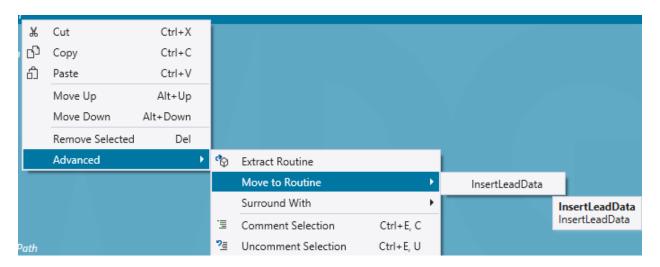
_2. Use Alt Up Arrow key to move up the Three Commands below Login comment line



_3. Select the 12 Commands that automate data entry (use Shift key for multiple selection)



_4. Right click and select Advanced > Move to Routine > InsertLeadData



The editor is now open in the InsertLeadData Routine

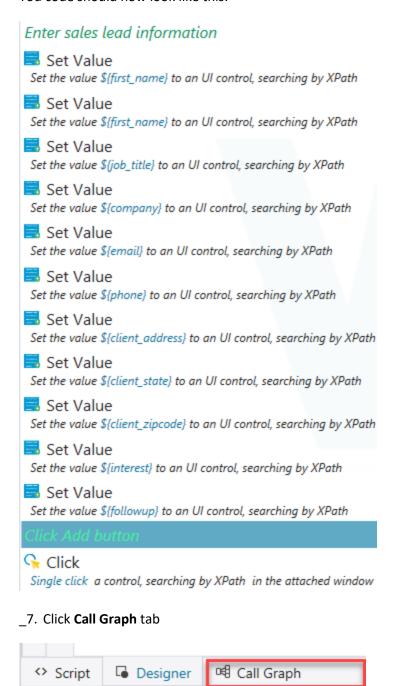


5. Select Click Add Button comment

Click Add button

_6. Use Alt Down Arrow key to move it down right above Click command

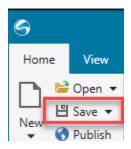
You code should now look like this:



_8. Double click main



_9. Click Save to save your work!

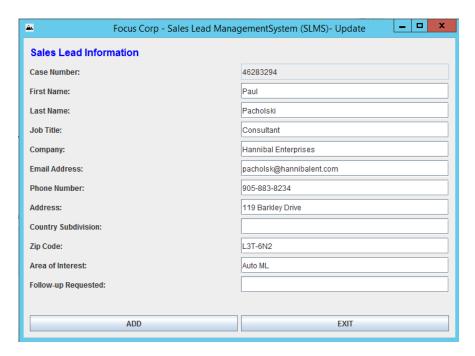


Test your Automation

_1. Click the green Start icon form the top toolbar. Alternatively you can hit F5.



You should now see the RPA Bot in action



THE END