

RPA Specialization

Course 3: UI Automation and Selectors

Practice Exercise-Debugging Selectors

Debugging Selectors

Build a workflow that replaces double spaces with single spaces from a text stored in multiple Notepad files with different names.

- Open a notepad file containing text with double space
- Replace double spaces with single spaces
- Debug the selector to make the workflow work for Notepad files with different names

Prerequisites

✓ Before beginning this practice exercise, create three Notepad files with the names "File_123421.txt", "File_43153.txt", and "File_34689.txt" that contain some text with double spaces between a few words.

Process Overview

- START
- Use an Attach window activity and indicate one Notepad file (File_123421.txt)
- Use the wildcard (*) in the Notepad file name using the Selector Editor to make the workflow work for a Notepad with a different name
- Use Click activity and indicate the Replace option within the Edit option from the Notepad file's toolbar
- Use Type Into activities to enter double space in the *Find what* text box and single space in the *Replace with* text box of the Replace popup window
- Use Click activity to click the Replace All button and to close the Replace pop up window
- Run the program to replace the double spaces of "File_123421.txt" file
- STOP

Step-by-Step Process

Step 1: Open Studio.

Step 2: Create a new process and name it as "Debugging Selectors".

Step 3: Drag a Sequence activity from the Activities panel and drop it in the Designer panel.

Step 4: Name the Sequence activity as "Sequence - Debugging Selectors".

Step 5: Right-click on the Sequence activity container and select *Annotations* from the context menu.

Step 6: Add an annotation "This block of code demonstrates a workflow that replaces double spaces with single spaces from a text stored in multiple Notepad files with different names.".

Step 7: Now, manually open the "File_123421.txt" Notepad file in the background.

Step 8: Drag and Drop an Attach Window activity within the Sequence activity, name it as "Attach Window- Notepad" and Add an annotation "Attach Notepad Window".

Step 9: Click on the "Indicate window on screen" link, and select the notepad editor window of "File_123421.txt".

Step 10: Insert a Click activity in the Do section of the Attach Window activity and name it as "Click - 'Edit'". Add an annotation "Click Edit option form the notepad menu".

Step 11: Click on the "Indicate element inside window" link of the Click activity, select the *Edit* option from the toolbar of the Notepad File.

Step 12: Insert another Click activity in the Do section of the Attach window activity, name it as "Click - 'menu item - Replace'" and add an annotation "Click Replace option from the Edit Menu".

Step 13: Click on the "Indicate element inside window" link. The *Replace* button is available in the drop-down menu of the *Edit* option. To indicate the *Replace* button, press F2 to add a delay. It will help to first select the *Edit* button manually and then indicate the *Replace* button.

Step 14: Insert a Type Into activity after Click activity and name it as "Type into - 'Find What'". Enter annotation: "Types in 'Find What' section of Replace window

Step 15: Open replace from the edit menu of notepad in the background and then Click on the "Indicate element inside window" link in the Type Into activity to select the text area of the Find what section.

Step 16: In the text area of the Type Into activity, enter double space within double quotes _ " ".

Step 17: In the properties panel of the Type Into activity also check the EmptyField checkbox.

Step 18: Insert a Send Hotkey activity below the previous Click activity. Click on the "Indicate element inside window" link and select the notepad window. Check the box below *Ctrl* and type 'A' in the key column.

Step 19: Insert another Type Into activity, name it as "Type into - 'Replace With'" and enter the annotation "Types in 'Replace with' section of the Replace window".

Step 20: Click on the "Indicate element inside window" link and select the text area of *Replace with* section.

Step 21: Open replace from the edit menu of notepad in the background and then Click on the "Indicate element inside window" link in the Type Into activity and select the text area of the Replace with section.

Step 22: In the text area of the Type Into activity, enter single space within double quotes _ " ".

Step 23: In the properties panel of the Type Into activity also check the EmptyField checkbox.

Step 24: Insert a Click activity under the Type Into activity, name it as "Click - 'Replace All'" and Add an annotation "Click Replace All button."

Step 25: Click on the "Indicate element inside window" link and select Replace All button from the Replace pop-up window.

Step 26: Insert another Click activity and name it as "Click - 'Close'". Add an annotation "Click 'Close" button."

Step 27: Click the "Indicate element inside window" link and select the Close button of the Replace pop-up window.

Step 28: Save and run the workflow to remove all double spaces in the "File_123421.txt".

Step 29: Close the "File_123421.txt" and open the "File_43153.txt".

Step 30: Run the workflow. It will give an error called 'Selector Not Found.' Debug this error using wildcard.

Step 31: In UiPath Studio, click on the hamburger icon of the Attach Window activity, and select *Edit Selector* from the context menu.

Step 32: In the Edit Selector panel of the Selector Editor window, rename the title of the Notepad file from "File_123421.txt" to "File_*.txt" in the Edit Selector section.

Step 33: Save and Run the workflow for all three text files – "File_123421.txt", "File_43153.txt" and "File_34689.txt".