

NestedFlow Automation Case Study 2: Web Browser File Upload

Creation Date: 11/16/2023

Table Of Contents

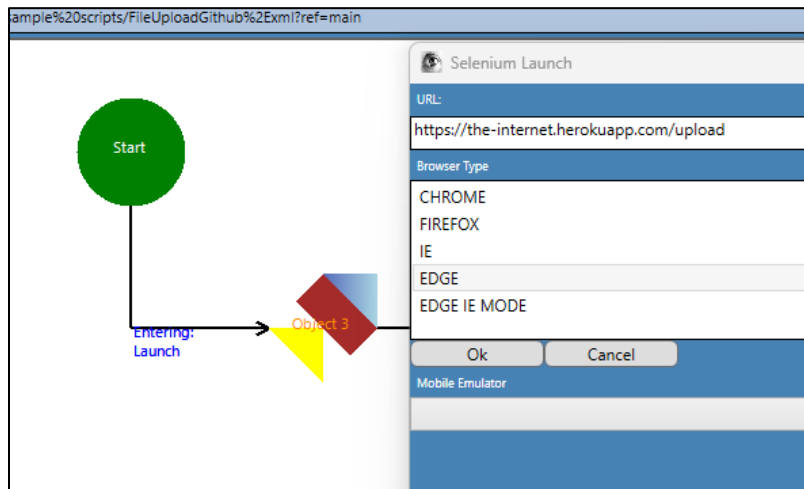
Introduction	1
STEP 1: Open Website And Click On The Button.....	2
STEP 2: Manipulate File Upload Window using Windows Automation	5
STEP 3: Upload and Close Browser (Web UI Automation).....	9
Final Flow	10

Introduction

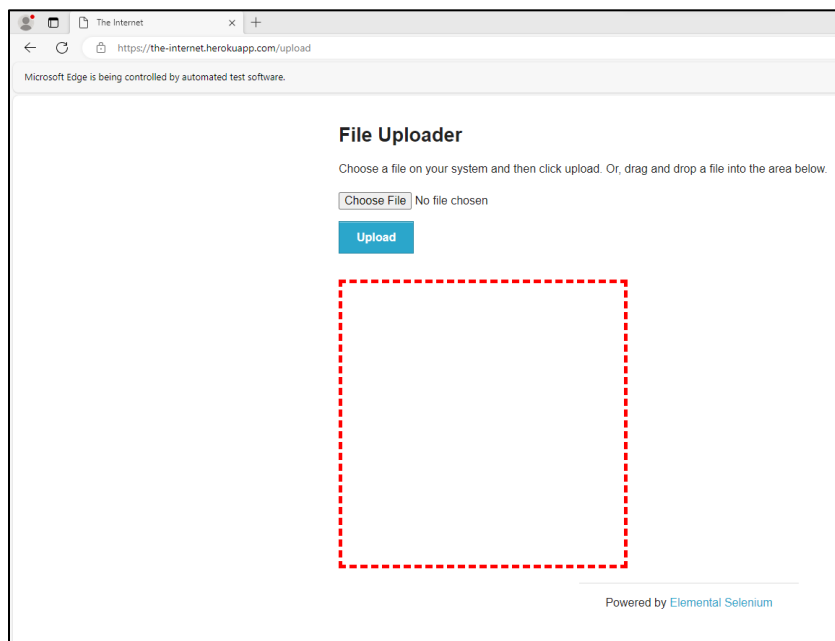
In this case study, we will examine the website file upload use case. NestedFlow Automation tool supports both web and windows UI automation. Hence this should be easily possible. For this case study, we will take website: <https://the-internet.herokuapp.com/upload>

STEP 1: Open Website And Click On The Button

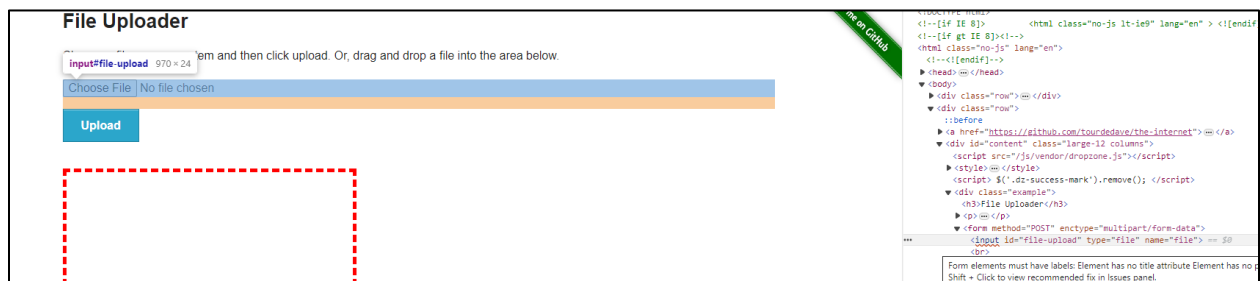
Use WebLaunch component and enter the website and browser



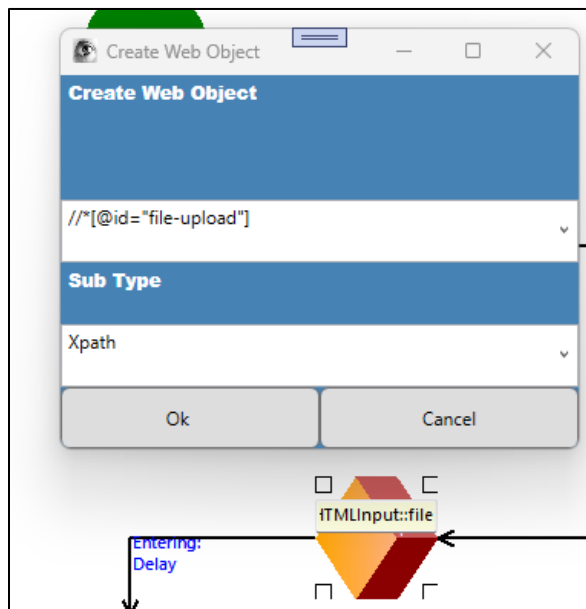
The Website will be opened



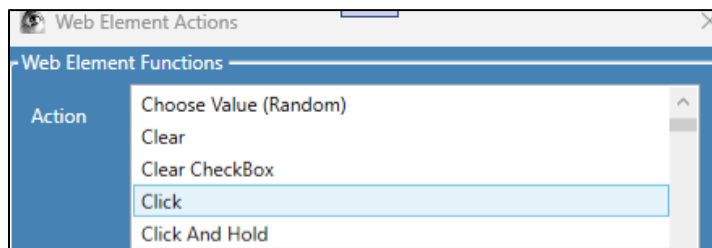
Then **Choose File** button on the page will be opened.



We will take the Xpath from the inspect tool and use custom web object



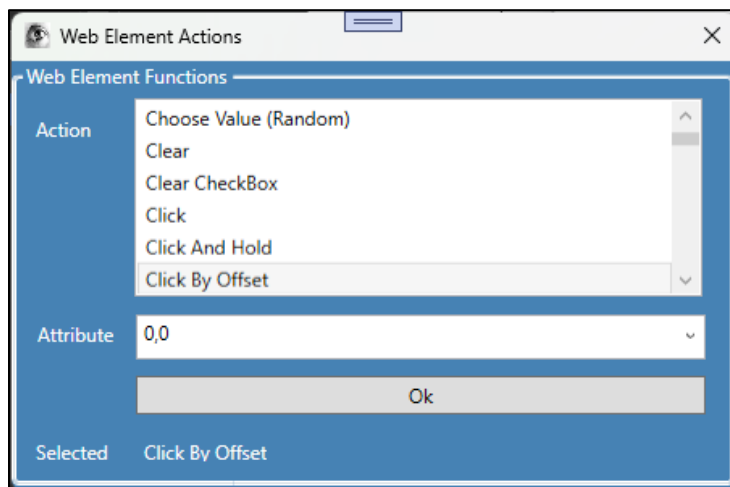
Consideration 1: Use Action **Click**



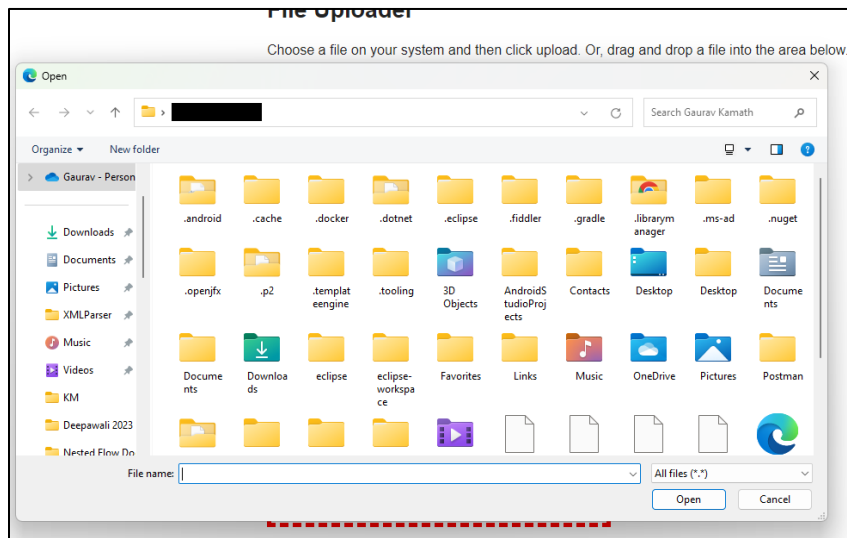
This action will throw error → Invalid argument in this case

Double click will work but it will open the dialog twice

So, the best option is to use click by offset and use 0,0 as reference points



When executed it will open file upload dialog



From now on we will use Windows UI automation

STEP 2: Manipulate File Upload Window using Windows Automation

Use Windows root to get reference of desktop

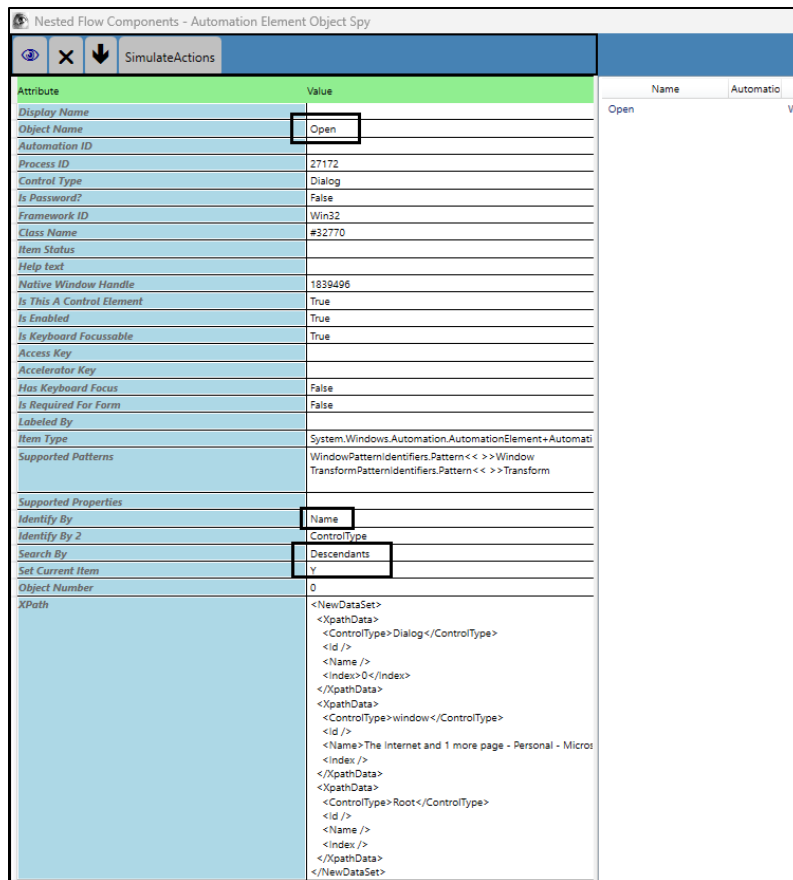


Capture Browser window

Attribute		Value	Name	Automation	Framework	Class Name
Display Name			The Internet - Personal -	Win32		Chrome_WidgetWin_1
Object Name		The Internet - Personal - Microsoft Edge				
Automation ID						
Process ID		22816				
Control Type		window				
Is Password?		False				
Framework ID		Win32				
Class Name		Chrome_WidgetWin_1				
Item Status						
Help Text						
Native Window Handle		10488788				
Is This A Control Element		True				
Is Enabled		True				
Is Keyboard Focusable		False				
Access Key						
Accelerator Key						
Has Keyboard Focus		True				
Is Required For Form		False				
Labeled By						
Item Type		System.Windows.Automation.AutomationElement+Automated				
Supported Patterns		WindowPatternIdentifiers.Pattern<< >> Window TransformPatternIdentifiers.Pattern<< >> Transform ScrollItemPatternIdentifiers.Pattern<< >> ScrollItem ItemContainerPatternIdentifiers.Pattern<< >> ItemContainer				
Supported Properties						
Identify By		Name				
Identify By 2		ControlType				
Search By		ChildId				
Set Current Item		Y				
Object Number		0				
XPath		<NewDataSet> <XPathData> <ControlType>window</ControlType> <Id /> <Name>The Internet - Personal - Microsoft Edge</Name> </XPathData> <XPathData> <ControlType>Root</ControlType> <Id /> <Name /> </XPathData> </NewDataSet>				

Choose action as Focus.

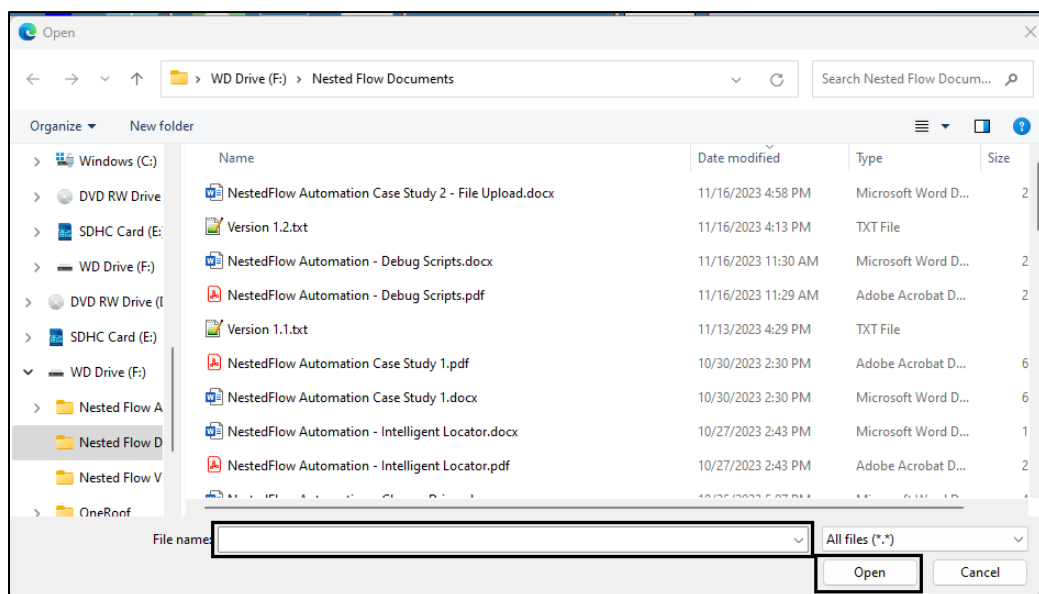
Next Choose Upload file dialog



Choose action As Focus

(Note: Choose **Set Current Item** = Y for the dialog)

Next select file name edit box and Open button on the dialog



(Set Current Item = N for both these items as next items are not searched from their reference)

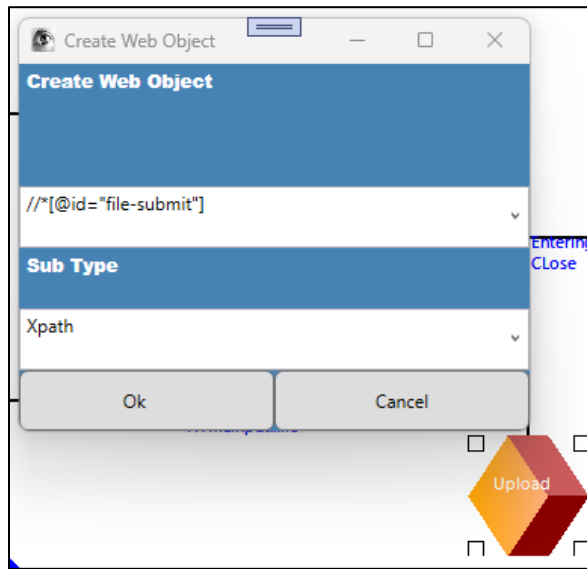
Attribute	Value
Display Name	
Object Name	File name:
Automation ID	1148
Process ID	27136
Control Type	edit
Is Password?	False
Framework ID	Win32
Class Name	Edit
Item Status	
Help text	
Native Window Handle	1052118
Is This A Control Element	True
Is Enabled	True
Is Keyboard Focussable	True
Access Key	Alt+n
Accelerator Key	
Has Keyboard Focus	True
Is Required For Form	False
Labeled By	
Item Type	System.Windows.Automation.AutomationElement+Automati
Supported Patterns	ValuePatternIdentifiers.Pattern< < > >Value TextPatternIdentifiers.Pattern< < > >Text
Supported Properties	
Identify By	Name
Identify By 2	ControlType
Search By	Descendants
Set Current Item	N
Object Number	0
XPath	<NewDataSet> <XPathData> <ControlType>edit</ControlType> <Id /> <Name /> <Index>0</Index> </XPathData> <XPathData> <ControlType>combobox</ControlType> <Id /> <Name /> <Index>0</Index> </XPathData> <XPathData> <ControlType>Dialog</ControlType> <Id /> <Name /> <Index>0</Index> </XPathData> <XPathData> <ControlType>>window</ControlType> <Id /> <Name>The Internet and 1 more page - Personal - Micros <Index /> </XPathData> <XPathData> <ControlType>Root</ControlType> <Id /> <Name /> <Index /> </XPathData> </NewDataSet>

(Choose action Enter Text and Value as file path)

Attribute	Value
Display Name	
Object Name	Open
Automation ID	1
Process ID	27136
Control Type	button
Is Password?	False
Framework ID	Win32
Class Name	Button
Item Status	
Help text	
Native Window Handle	5049612
Is This A Control Element	True
Is Enabled	True
Is Keyboard Focussable	True
Access Key	Alt+O
Accelerator Key	
Has Keyboard Focus	False
Is Required For Form	False
Labeled By	
Item Type	System.Windows.Automation.AutomationElement+Automat
Supported Patterns	InvokePatternIdentifiers.Pattern< < > > Invoke
Supported Properties	
Identify By	Name
Identify By 2	ControlType
Search By	Descendants
Set Current Item	N
Object Number	0
XPath	</NewDataSet> </XPathData> <ControlType> button</ControlType> <Id /> <Name /> <Index>0</Index> </XPathData> </XPathData> <ControlType> Dialog</ControlType> <Id /> <Name /> <Index>0</Index> </XPathData> </XPathData> <ControlType> window</ControlType> <Id /> <Name>The Internet and 1 more page - Personal - Micro <Index /> </XPathData> </XPathData> <ControlType> Root</ControlType> <Id /> <Name /> <Index /> </XPathData> </NewDataSet>

(Choose action Click)

STEP 3: Upload and Close Browser (Web UI Automation)

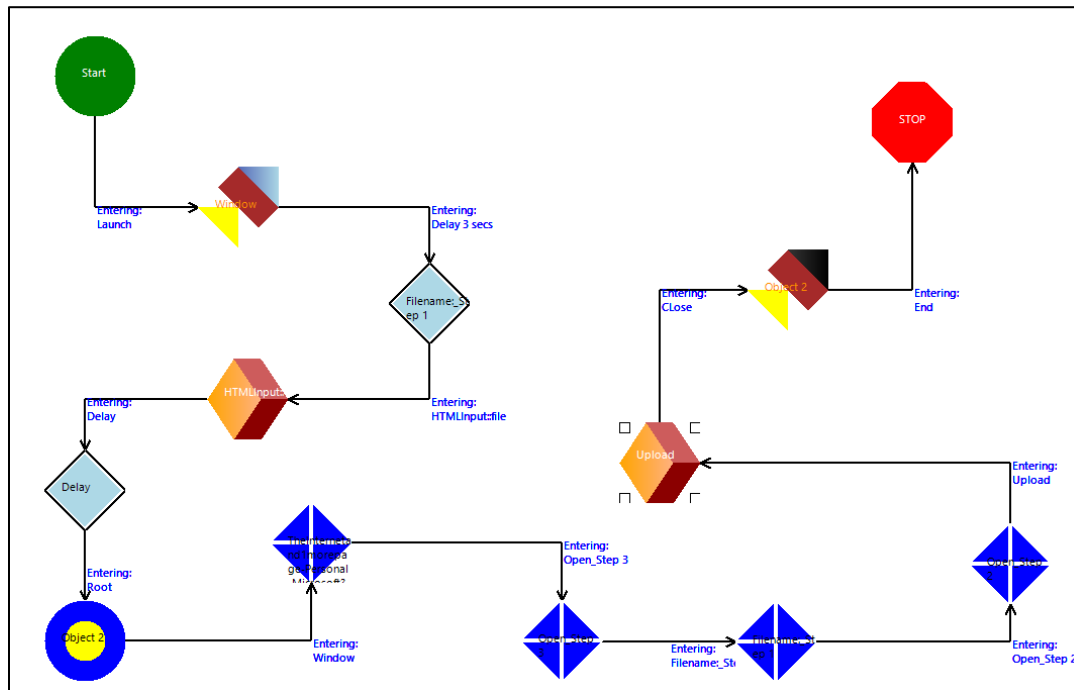


Action → Click

Finally Use Close browser component



Final Flow



The file is stored in the **sample scripts** section

https://github.com/nestedflow-Automation/NestedFlowRepo/tree/main/sample%20scripts

NestedFlowRepo / sample scripts

Name	Last commit message	Last commit date
..		
APIFrameworkSample.xml	NestedFlow Script file	2 weeks ago
Calculator MBT.xml	NestedFlow Script file	2 months ago
DogItemPick.xml	NestedFlow Script file	3 weeks ago
FileUploadGithub.xml	NestedFlow Script file	15 minutes ago
JPetStore Execution.xml	NestedFlow Script file	3 weeks ago
JpetMobileLayout.xml	NestedFlow Script file	2 weeks ago
LoginJPetStore.xml	NestedFlow Script file	last month
OpenJPetStore.xml	NestedFlow Script file	2 days ago
SahiAlert.xml	NestedFlow Script file	last week

Link: [NestedFlowRepo/sample scripts/FileUploadGithub.xml](https://github.com/nestedflow-Automation/NestedFlowRepo/tree/main/sample%20scripts/FileUploadGithub.xml) at main · nestedflow-Automation/NestedFlowRepo