



OBJECTIVES

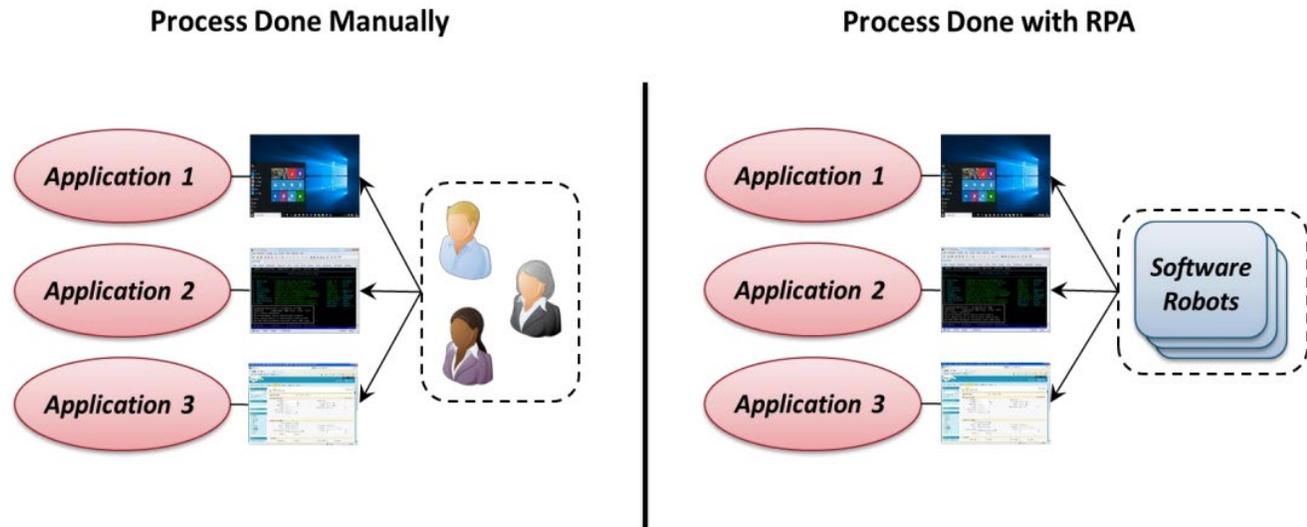
- General introduction to Robotic Process Automation
- Understand the different capabilities of Blue Prism
- Understand the process of unattended automation
- Know where to find additional resources
- Learn through hands-on exercises

CHAPTER 1

*Introduction
to Robotic
Process
Automation
and
BluePrism*

ROBOTIC PROCESS AUTOMATION (RPA)

- RPA is a technology for automating business processes.
- RPA can lower costs, increase flexibility, and improve process accuracy, as well as help business and IT work together more effectively.
- The core idea of RPA is simple, rather than have people interact with applications, RPA instead uses software robots that drive application user interfaces in the same way.
- As an enterprise RPA product, Blue Prism does not create scripts but builds software robots using Blue Prism-defined business objects and processes.



THE ROBOTIC PROCESS AUTOMATION OPPORTUNITY

- RPA represents an opportunity to transform the back and front office and improve business performance across the entire organization.
- Increased Efficiency and Productivity
- Greater Operational Ability
- Reduces Operational Risk
- Superior Control, Governance and IT Security – ever increasing regulation and compliance requirements (corporate governance)
- Always seeking to reduce cost
- Enhanced Business Insight

A BLUEPRISM CASE STUDY

- Telefónica O2 is the second-largest mobile telecommunications provider in the United Kingdom.
- Facing 400,000 – 1,00,000 back-office transactions per month, Telefónica faced immense back-office costs, increased average response time increased significantly, and quality control reported a failure of customer calls by 50 percent. Telefónica needed to simplify and optimize business processes and reduce back-office costs by 10 percent.
- BluePrism conducted two pilot automation projects:
 - SIM swaps—the process of replacing a customer’s existing SIM with a new SIM but keeping the existing number
 - Application of a pre-calculated credit to a customer’s account.
- Comparing the BluePrism automation process to creating a Business Process Management Software (BPMS) that would require IT resources and scrum teams, Telefónica O2 realized that a full BPMS system would take more than three times as long as the RPA to pay for itself.
- As of April 2015, Telefónica O2 deployed over 160 “robots” that process between 400,000 and 500,000 transactions each month, yielding a three-year return on investment of between 650% and 800%.
- Customer “chase up” calls have been reduced by over 80 percent per year.

SYNAPTEIN SOLUTIONS AND BLUEPRISM PARTNERSHIP

- An agency that provides audit and assurance services to state government and educational institutions faced internal quality issues over the increased volume of auditory services provided.
- The audit team faced time constraints due to manually having to standardize documents, manually input data, and compile data for comparative analysis, leaving less time for the financial and compliance audit procedures. The audit process was plagued by business process deficiencies, inaccuracies, and inefficiencies that slowed down audit completion times.
- Synaptein Solutions with Blue Prism experts collaborated with the agency to design and develop a large-scale data management processes and business intelligence applications to enable better auditory capabilities around financial and compliance audits; Comprehensive Annual Financial Reports (CAFR), Single Audit Reports, Budgetary Compliance Reports (BCR), and activity reporting for the audit and company executives.
- The developed solution created a knowledgebase that could be used by auditors to quickly analyze and report on audit, assurance, and legislative processes. The solutions reduced one hour of human work extracting information to less than 2 minutes with higher than 95% accuracy. The team developed multiple logic forms to ensure that the build could convert multiple forms of unstructured data at maximum accuracy possible.
- The solution could process 160 files in 5 hours and 30 minutes, and a significantly high number of files processed to completion without any exceptions. This replaced 160 human hours and allowed the agency to move on to the next stages of validation and auditing more quickly and resulted in any increase in efficiency and reduced time for each individual audit. The developed solution is scalable, reliable, and reusable. The foundational logic built for each file is reusable and adaptable for multiple scenarios to quickly automate further processes.
- In the end, the agency has been able to convert several human hours into a few robotic minutes. The agency now enjoys a transformed data architecture that allows the data to be more accurately processed for analysis and can refocus its energies to transform the level of accountability for billions of funding to state government and educational institutions. This allows the agency to refocus efforts to strive for budgetary and statutory reform and reduce the waste or abuse of federal and local funding.

CHAPTER 2

*Downloading
and
Installing
BluePrism*

STEPS IN DOWNLOADING AND SETTING UP BLUEPRISM

1. User Registration
2. Log into BluePrism portal
3. Configure BluePrism
4. Install BluePrism
5. Activate BluePrism

SECTION 2.1

User registration

STEPS IN USER REGISTRATION

1. Navigate to <https://digitalexchange.blueprism.com/>
2. Select the Login button on the top right corner
3. Select the Register option in the drop down
4. Select the “Sign Up Here” option in the Log In window
5. Enter the appropriate email, username, password (this is a temp and you will need to set up a new password again), and personal information in the ‘Create New Account’ page
6. Click the link in the email to active the account.
7. Set a new password in the login page
8. Complete the personal information page

SELECT THE LOGIN BUTTON ON THE TOP RIGHT CORNER

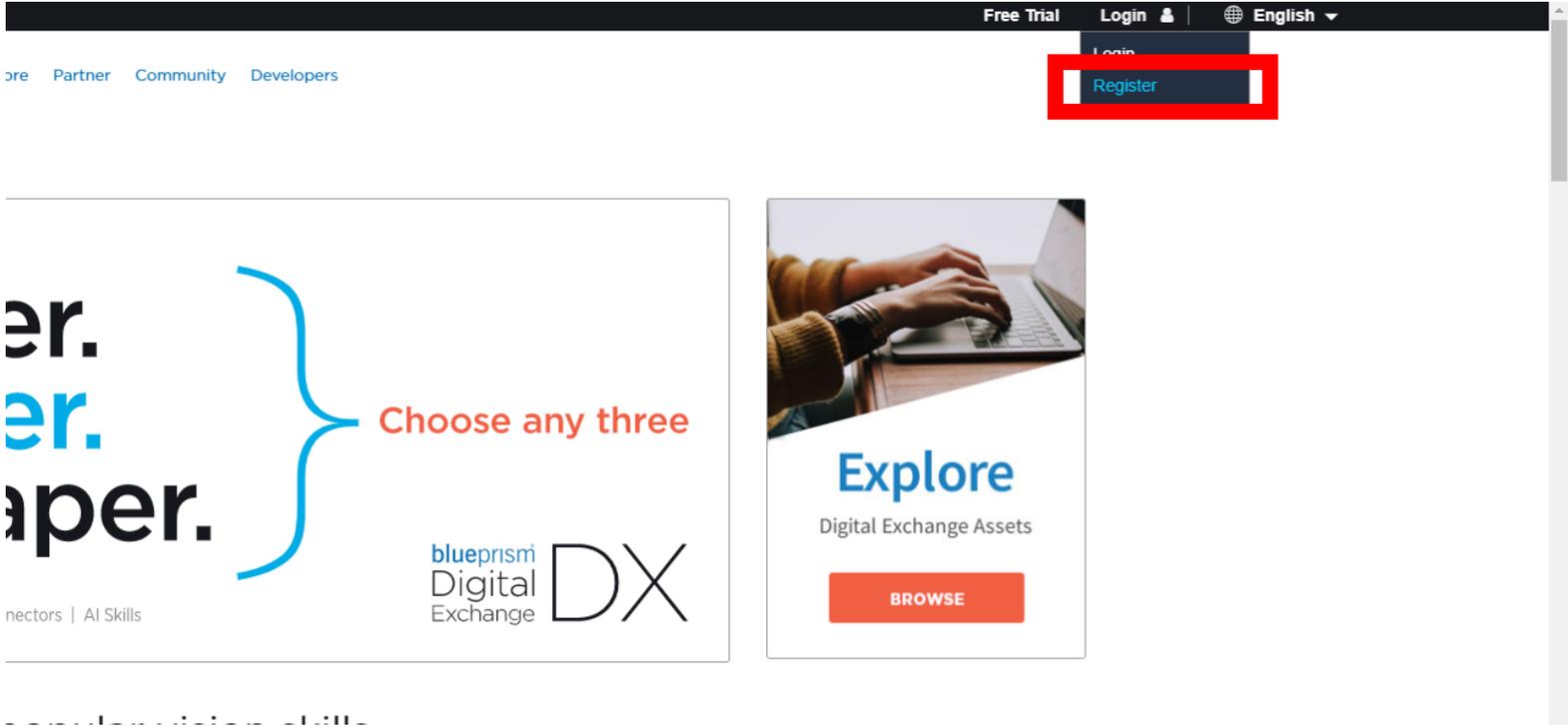
**Faster.
Better.
Cheaper.**

Choose any three



Explore
Digital Exchange Assets

SELECT THE REGISTER OPTION IN THE DROP DOWN



SELECT THE “SIGN UP HERE” OPTION IN THE LOG IN WINDOW

blueprism Home Community Product Robotic Operating Model Documents University

Blue Prism Portal Login

Login to Digital Exchange with your Blue Prism Portal account

Username or email address.*

Enter your username or email address

Password.*

Enter the password that accompanies your username.
[Forgotten your Password?](#)

Log in

[Cancel login and return to Digital Exchange](#)

Don't have an account? [Sign up here](#)

Contact support@blueprism.com for any issues accessing the Portal
[Blue Prism Online Services Terms & Conditions](#)

What's Inside

Our comprehensive portal provides a gateway to a host of information and resources including:

- AI CUSTOMER SELF SERVICE
- PRODUCT DOCUMENTATION
- BLUE PRISM UNIVERSITY
- PRODUCT DOWNLOADS
- INTERACTIVE DISCUSSION FORUMS
- ROBOTIC OPERATING MODEL DOCUMENTATION
- KNOWLEDGE BASE
- FREE TRIAL

To get access to our portal, register today. **Sign Up**

ENTER THE APPROPRIATE EMAIL, USERNAME, PASSWORD, AND PERSONAL INFORMATION IN THE 'CREATE NEW ACCOUNT' PAGE



Create new account

Already registered for Blue Prism? [Please log in](#)

Email address*

A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

Username*

Several special characters are allowed, including period (.), hyphen (-), apostrophe ('), and the underscore (_).

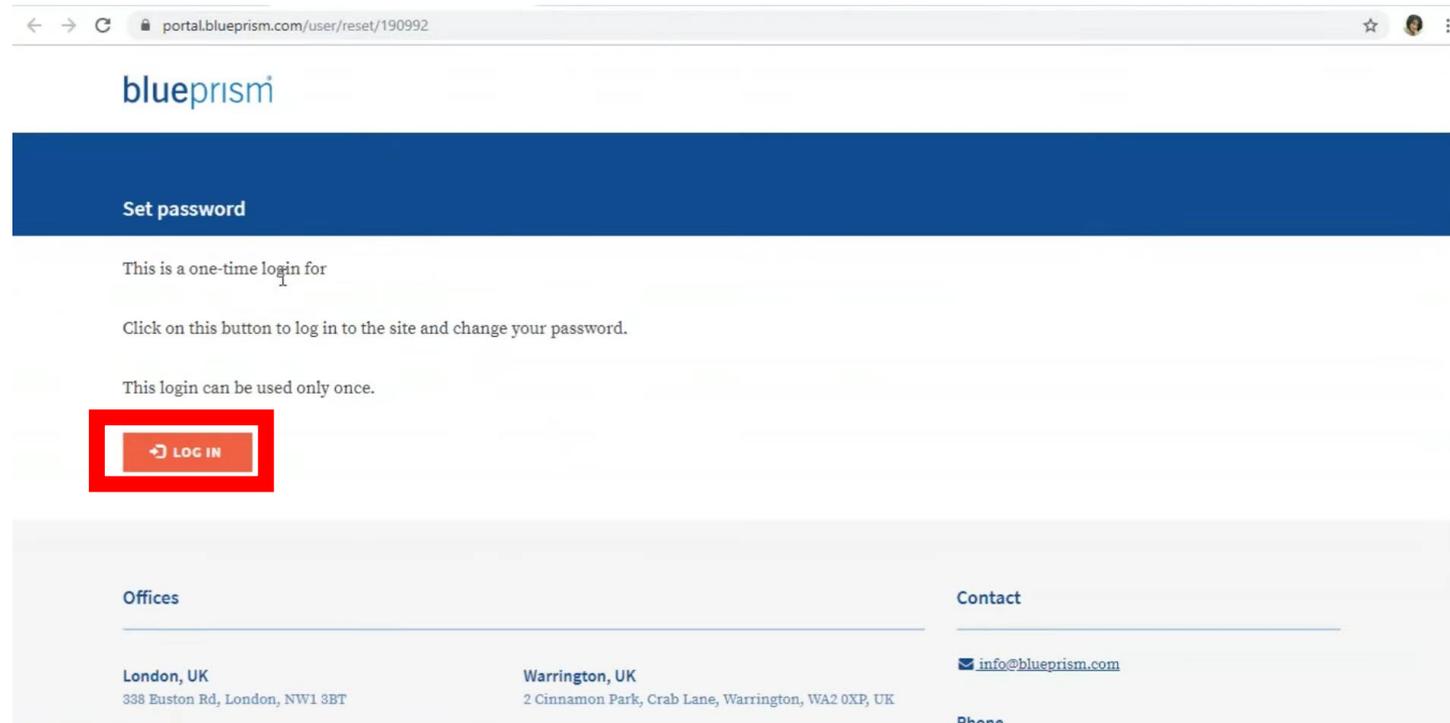
Password*

Confirm password*

Provide a password for the new account in both fields.

Password strength:

SET A NEW PASSWORD IN THE LOGIN PAGE.



The screenshot shows a web browser window with the address bar displaying `portal.blueprism.com/user/reset/190992`. The page features the Blue Prism logo at the top left. Below the logo is a dark blue header bar with the text "Set password". The main content area contains the following text: "This is a one-time login for", "Click on this button to log in to the site and change your password.", and "This login can be used only once." A red rectangular box highlights a red "LOG IN" button with a right-pointing arrow icon. At the bottom of the page, there is a footer section with two columns: "Offices" and "Contact". The "Offices" column lists "London, UK" (338 Euston Rd, London, NW1 3BT) and "Warrington, UK" (2 Cinnamon Park, Crab Lane, Warrington, WA2 0XP, UK). The "Contact" column lists an email address info@blueprism.com and a "Phone" label.

SET A NEW PASSWORD IN THE LOGIN PAGE

HOME >

VIEW SUGARCRM EDIT SUBSCRIPTIONS

Email address *

A valid email address. All emails from the system will be sent to this address. The email address is not made public and will only be used if you wish to receive a new password or wish to receive certain news or notifications by email.

Password *

Confirm password *

Password strength: To change the current user password, enter the new password in both fields.

POLICY	STATUS	CONSTRAINT
Portal user	Fail - Password length must be at least 6 characters.	Password character length of at least 6
Portal user	Fail - Password must contain at least 1 special character.	Password must contain 1 special characters
Portal user	Fail - Password must contain at least 1 numeric character.	Password must contain 1 numeric characters

Organisation *

COMPLETE THE PERSONAL INFORMATION PAGE

Organisation *

First name *

Last name *

Job title *

Country *

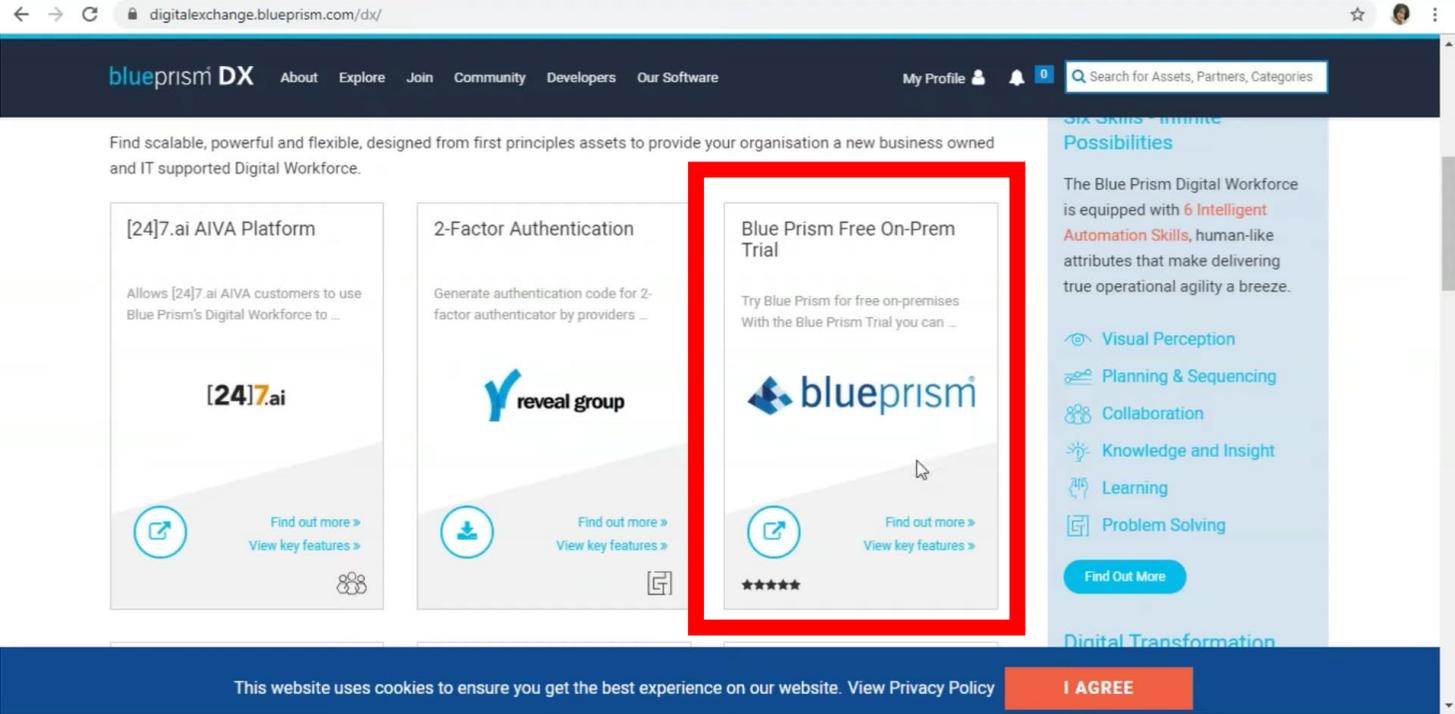
SECTION 2.2

*Configuring
BluePrism*

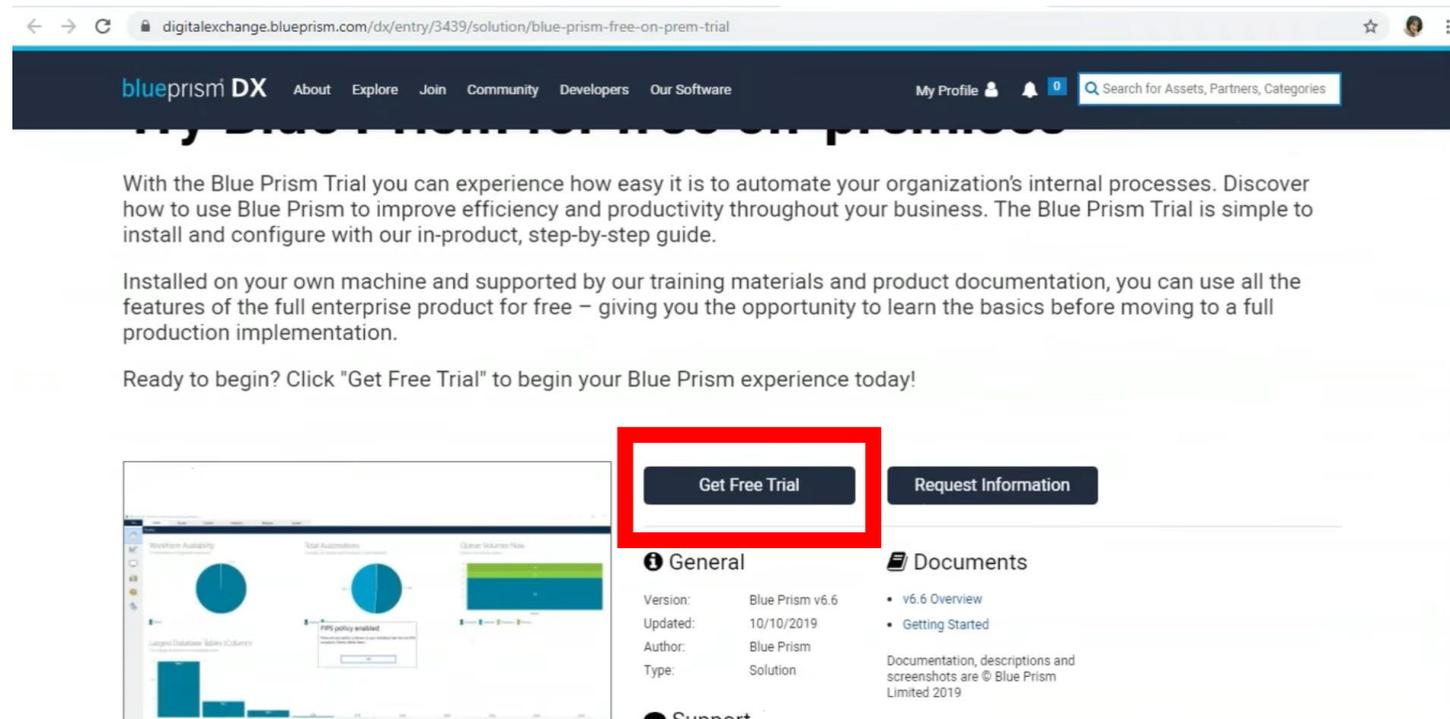
STEPS IN CONFIGURING BLUEPRISM

1. Log into BluePrism using the link
2. Navigate to the BluePrismDX front page and select the BluePrism Free On-Prem Trial
3. Select the “Get Free Trial” box in the new page
4. Confirm your personal details and click “Submit”
5. Use the link in the email to download
6. Follow the prompts on the application to install BluePrism

NAVIGATE TO THE BLUEPRISMDX FRONT PAGE AND SELECT THE BLUEPRISM FREE ON-PREM TRIAL



SELECT THE “GET FREE TRIAL” BOX IN THE NEW PAGE



The screenshot shows a web browser window with the URL `digitalexchange.blueprism.com/dx/entry/3439/solution/blue-prism-free-on-prem-trial`. The page header includes the Blue Prism DX logo and navigation links: About, Explore, Join, Community, Developers, and Our Software. A search bar is located on the right side of the header.

The main content area contains the following text:

With the Blue Prism Trial you can experience how easy it is to automate your organization's internal processes. Discover how to use Blue Prism to improve efficiency and productivity throughout your business. The Blue Prism Trial is simple to install and configure with our in-product, step-by-step guide.

Installed on your own machine and supported by our training materials and product documentation, you can use all the features of the full enterprise product for free – giving you the opportunity to learn the basics before moving to a full production implementation.

Ready to begin? Click "Get Free Trial" to begin your Blue Prism experience today!

Below the text, there are two buttons: "Get Free Trial" and "Request Information". The "Get Free Trial" button is highlighted with a red rectangular box.

Below the buttons, there is a section titled "General" with the following information:

Version:	Blue Prism v6.6
Updated:	10/10/2019
Author:	Blue Prism
Type:	Solution

There is also a "Documents" section with the following links:

- v6.6 Overview
- Getting Started

At the bottom of the page, there is a "Support" section.

CONFIRM YOUR PERSONAL DETAILS AND CLICK “SUBMIT”

The screenshot shows a dark blue header for 'blueprism DX' with navigation links: About, Explore, Join, Community, Developers, and Our Software. On the right of the header are 'My Profile', a notification bell with '0', and a search bar with the placeholder text 'Search for Assets, Partners, Categories'.

The main form area contains the following fields:

- Address Line 1 * (text input)
- Address Line 2 (text input)
- City * (text input)
- State (dropdown menu)
- Province (text input)
- Postal Code (text input)
- Country (dropdown menu)

A red rectangular box highlights the 'SUBMIT' button located at the bottom left of the form.

USE THE LINK IN THE EMAIL TO DOWNLOAD

HOME > PRODUCTS > Trial

Blue Prism Trial

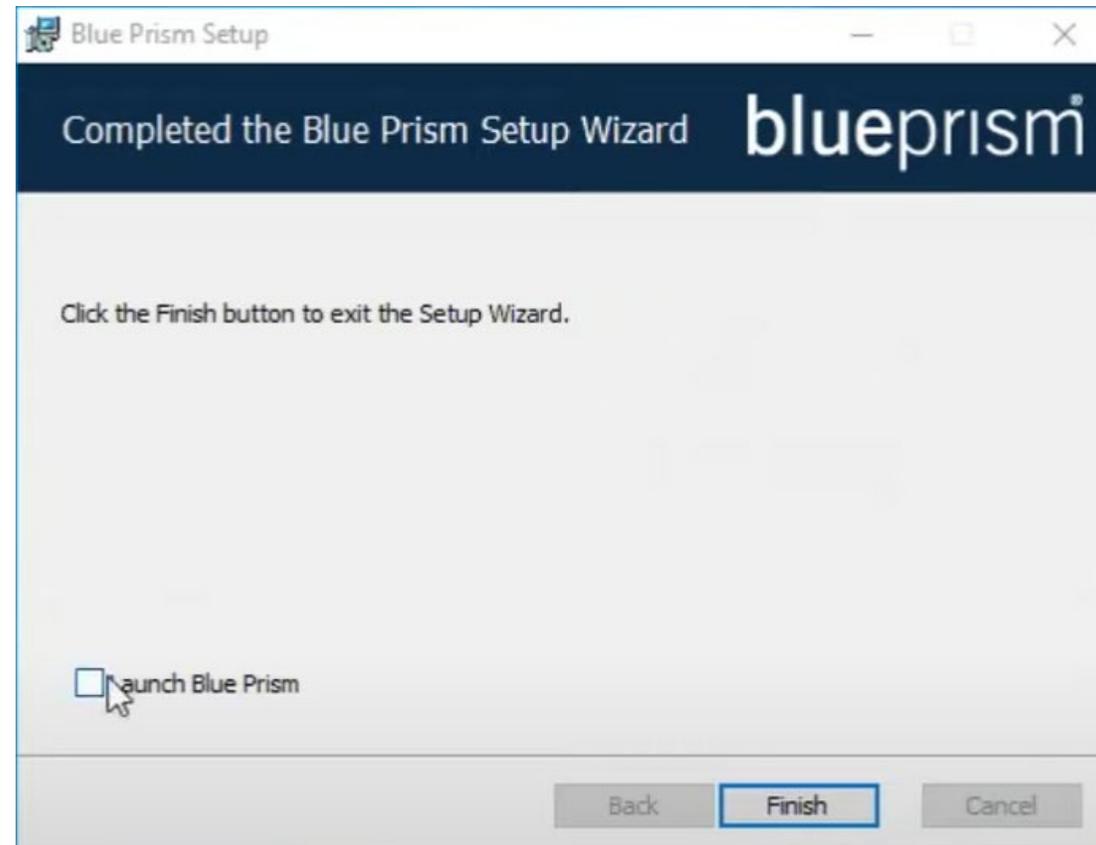
Download Blue Prism 6.6 Trial



DOWNLOAD (X64) 64-BIT

The image shows a screenshot of a web page for downloading a Blue Prism trial. The page has a breadcrumb trail 'HOME > PRODUCTS > Trial' at the top left. Below it, the title 'Blue Prism Trial' is displayed in a large, bold font, followed by the subtitle 'Download Blue Prism 6.6 Trial'. In the center, there is a collection of icons: a steering wheel, a diamond shape with a cursor pointing to it, a server tower, and a computer monitor. A red rectangular box highlights a button at the bottom center of the page that says 'DOWNLOAD (X64) 64-BIT'. On the left side of the page, there is a blue square button with a white question mark icon.

FOLLOW THE PROMPTS ON THE APPLICATION TO INSTALL BLUEPRISM



SECTION 2.3

*Navigating
BluePrism*

STEPS IN NAVIGATING THE BLUEPRISM APPLICATION

1. Set a local password. This password is just to access the application and not the BluePrism portal.
2. Sign into BluePrism using the new credentials
3. Activate the BluePrism license from the email attachment
4. Generate and save the license code
5. Navigate to the portal to get the license key

SET A LOCAL PASSWORD

[Change Language](#) ✕

Create your password

Sign in with Blue Prism credentials

We've set the admin username for you

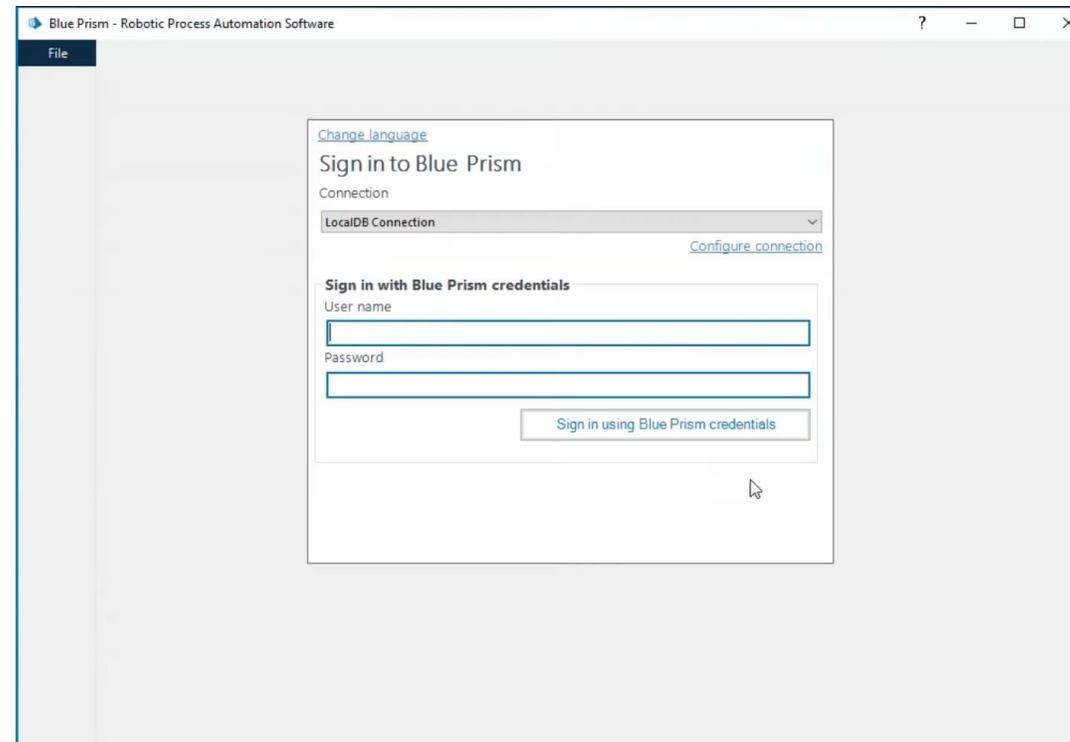
Password requirements:
At least 8 characters, at least 1 upper case and 1 lower case character and at least 1 number.

Create a password

Repeat your password

[Save and continue](#)

SIGN INTO BLUEPRISM USING THE NEW CREDENTIALS



ACTIVATE THE BLUEPRISM LICENSE FROM THE EMAIL ATTACHMENT

✕

Activate Blue Prism

Upload your license here

Blue Prism License file

Browse

* You will either have downloaded your license code from the Blue Prism Digital Exchange or have been emailed it. Look in your downloads folder or your inbox for "Blue Prism License"

Register to get your license key

Next

GENERATE AND SAVE THE LICENSE CODE

Generate License Key

The license key you're generating is:

Edureka

- 1 **Generate your unique license activation code.**
- 2 Copy or save the code.
- 3 Paste the code into the "Activate Licenses" area of the Customer Portal.
- 4 Return to your Blue Prism software and navigate to System > Licenses.
- 5 Complete your activation by entering the code.

[I've got an activation code](#) [Generate new activation code](#)

[← Back](#)

Your license activation code

The license key you're generating is:

Edureka

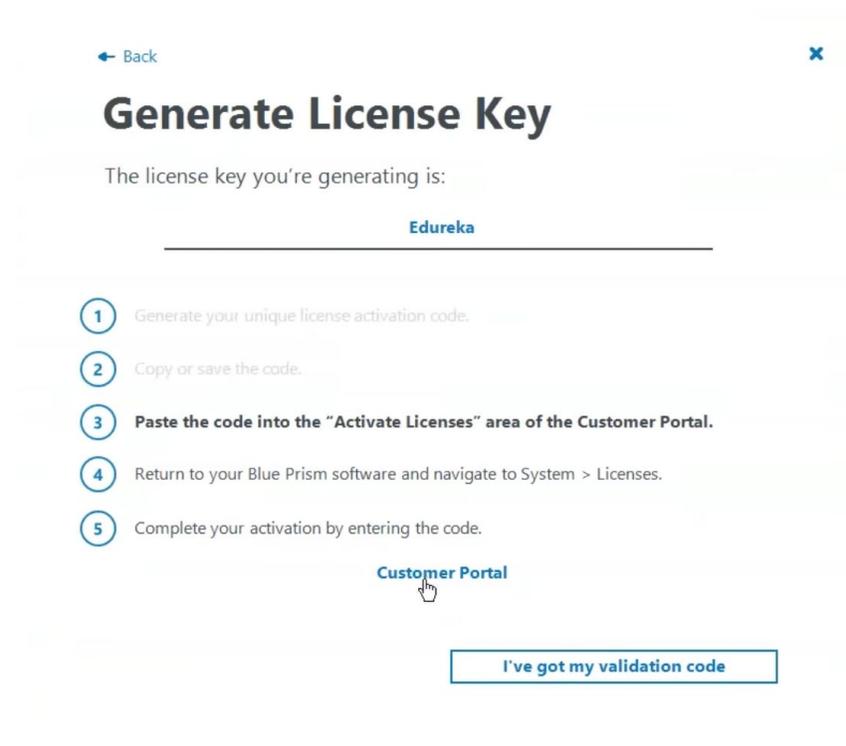
Your unique license activation code

```
6eMz6xqZ5Kdc7+ +8cZdbOovOf4gVxwzEUagArXgLq9nmHfUJ/8/OupdcvaOb3YcXWf0E7  
Hg8E/88r4KcPjAP4xA0oFdx68zext2a5IEcGc1J5277N2WzRJB55+ r8JoO1aEdBgb6RDXEhblRt  
YblDGQ3d4PN1471kFICN3qPoaV9+ F0zLsF5318cLGd3k5R0sJ4K68v5psvHBC7xnteZ+doHpt  
RnA7legHE1Yv6ia3VoFbUI0HgdmbE1FBF9UipptyAls/BAI1Yw0AojeOQU/MkzRHXtwcpwEe2  
hm30426dsUw6+ dNq21nbJVK06uFh05mpUDh+ bj54VgGDhdyQ2cwrfr7N0RDMjvzA/PE4rS  
FGk4g8gFsMhCqLW7Wvit7hOmRQosNELJc6urZTtcwTscQzOAE5NQdEXGscrIWsE7Nf6Thr  
po95Ipy1IN+ cH038AEOTgUNilCT8yUF2otewe29au2ZdMxqW/vmOy/mPQ1uV/IMqwEOEZ  
UW98nhTrZA/7dKUWIIIMyQMR5YBLPazdFApe530XoJV8mjO9WwvGHyEh6Irf5yVKOAIrR8/  
DnQUG+ iqlLrthVDWfHun3yQvafetMn+ yBM7mlUdFF5nClOFAQDvSavf+ 3Vv4Gz3lBk4
```

[Save to file](#) [Copy to clipboard](#)

[Next Step](#)

NAVIGATE TO THE PORTAL TO GET THE LICENSE KEY



The screenshot shows a dialog box titled "Generate License Key". At the top left is a "Back" button with a left-pointing arrow, and at the top right is a close button with an "x" icon. Below the title, the text reads "The license key you're generating is:" followed by a horizontal line containing the word "Edureka" in blue. Below this, there is a numbered list of five steps: 1. Generate your unique license activation code. 2. Copy or save the code. 3. Paste the code into the "Activate Licenses" area of the Customer Portal. 4. Return to your Blue Prism software and navigate to System > Licenses. 5. Complete your activation by entering the code. Below the list, there is a blue link labeled "Customer Portal" with a mouse cursor pointing to it. At the bottom right, there is a button labeled "I've got my validation code".

← Back

Generate License Key

The license key you're generating is:

Edureka

- 1 Generate your unique license activation code.
- 2 Copy or save the code.
- 3 **Paste the code into the "Activate Licenses" area of the Customer Portal.**
- 4 Return to your Blue Prism software and navigate to System > Licenses.
- 5 Complete your activation by entering the code.

[Customer Portal](#)

[I've got my validation code](#)

SUBMIT THE LICENSE CODE TO GET THE LICENSE KEY

Step 4: When you receive your activation code copy that and enter it into Blue Prism to complete the licence activation process

If you encounter an error when submitting the form please make a note of the error message as this has important information about the reasons the activation request may have failed. Check that you have copied the activation key correctly before resubmitting.

I accept the EULA *

To retrieve your licence activation key please review and accept the [BLUE PRISM EULA TERMS](#)

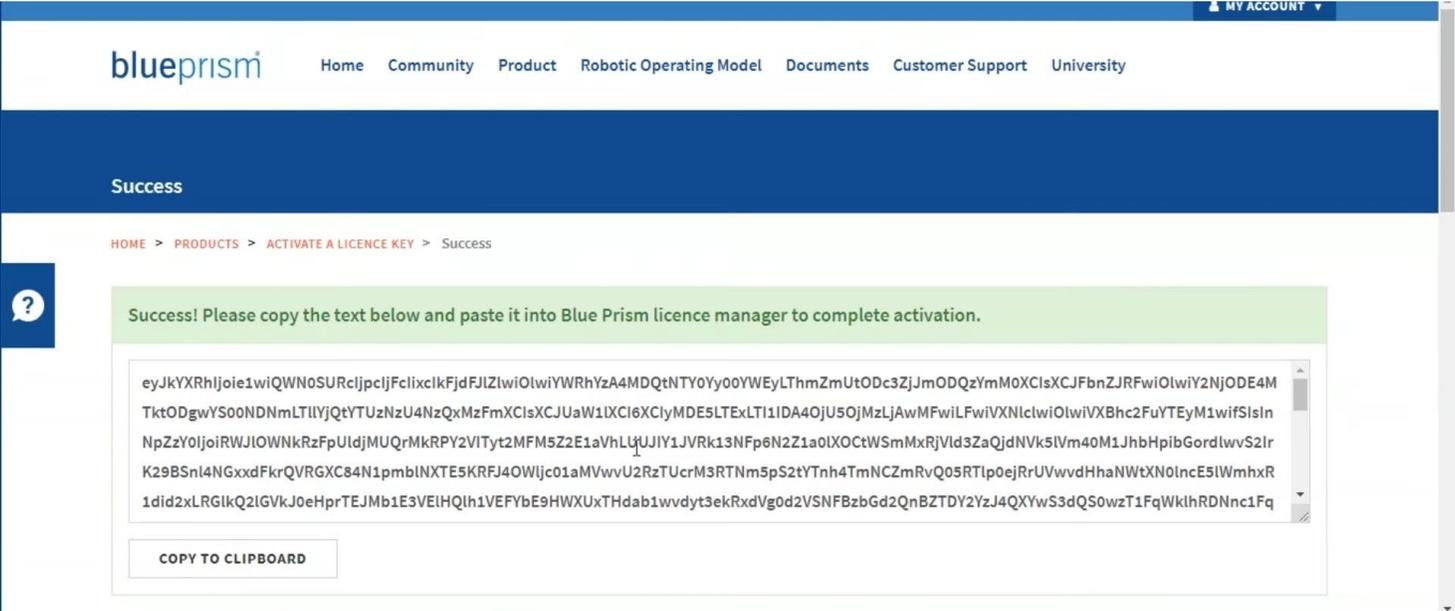
Licence activation code *

Paste the activation code as provided by the Blue Prism licence manager

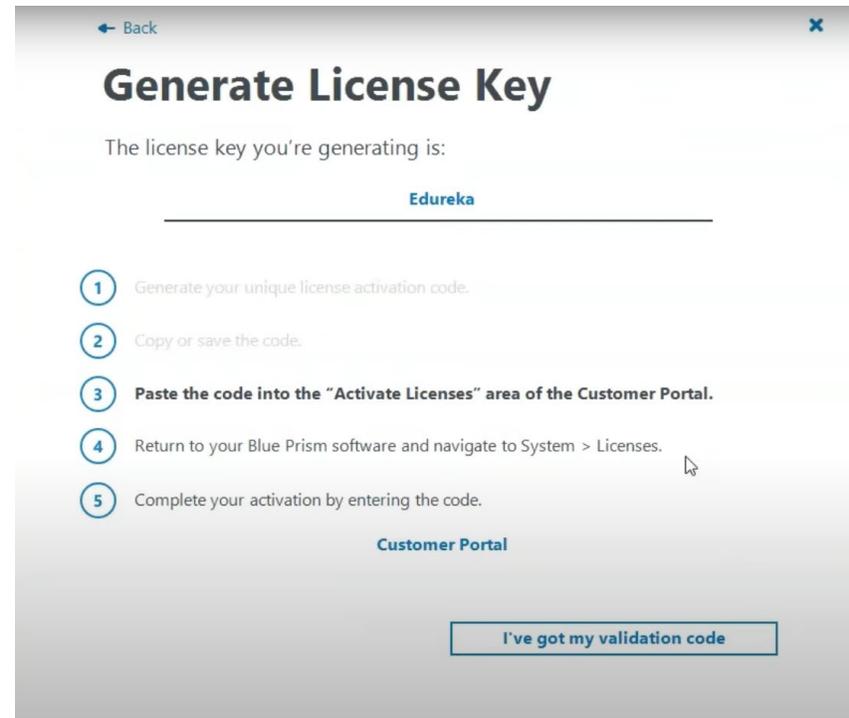
SUBMIT LICENCE ACTIVATION



COPY PASTE THE LICENSE KEY INTO THE BLUEPRISM LICENSE MANAGER



CLICK THE “I’VE GOT MY VALIDATION CODE” OPTION



PASTE THE LICENSE KEY FROM THE PORTAL

[← Back](#) ✕

Your code from Portal

The license key from Portal your inputing is for:

Your unique license activation code

YOU'RE ALL GOOD TO GO!

Smashing

You're all set up and ready to go.

Don't forget to visit the Blue Prism Portal to find a whole load of training materials – you can even get yourself certified.

Please do get involved too and feedback your ideas, suggestions or just talk all things Blue Prism on our [community site](#).



[Blue Prism Portal](#)

[Finish](#)

CHAPTER 3

*Creating an
Object in
BluePrism*

STEPS IN CREATING A BLUEPRISM AUTOMATION

1. Save the provided zip file on the desktop
2. Create a new Business Object
3. Using the Application Modeler

SECTION 3.1

*Creating a
Business Object*

CREATING A BUSINESS OBJECT

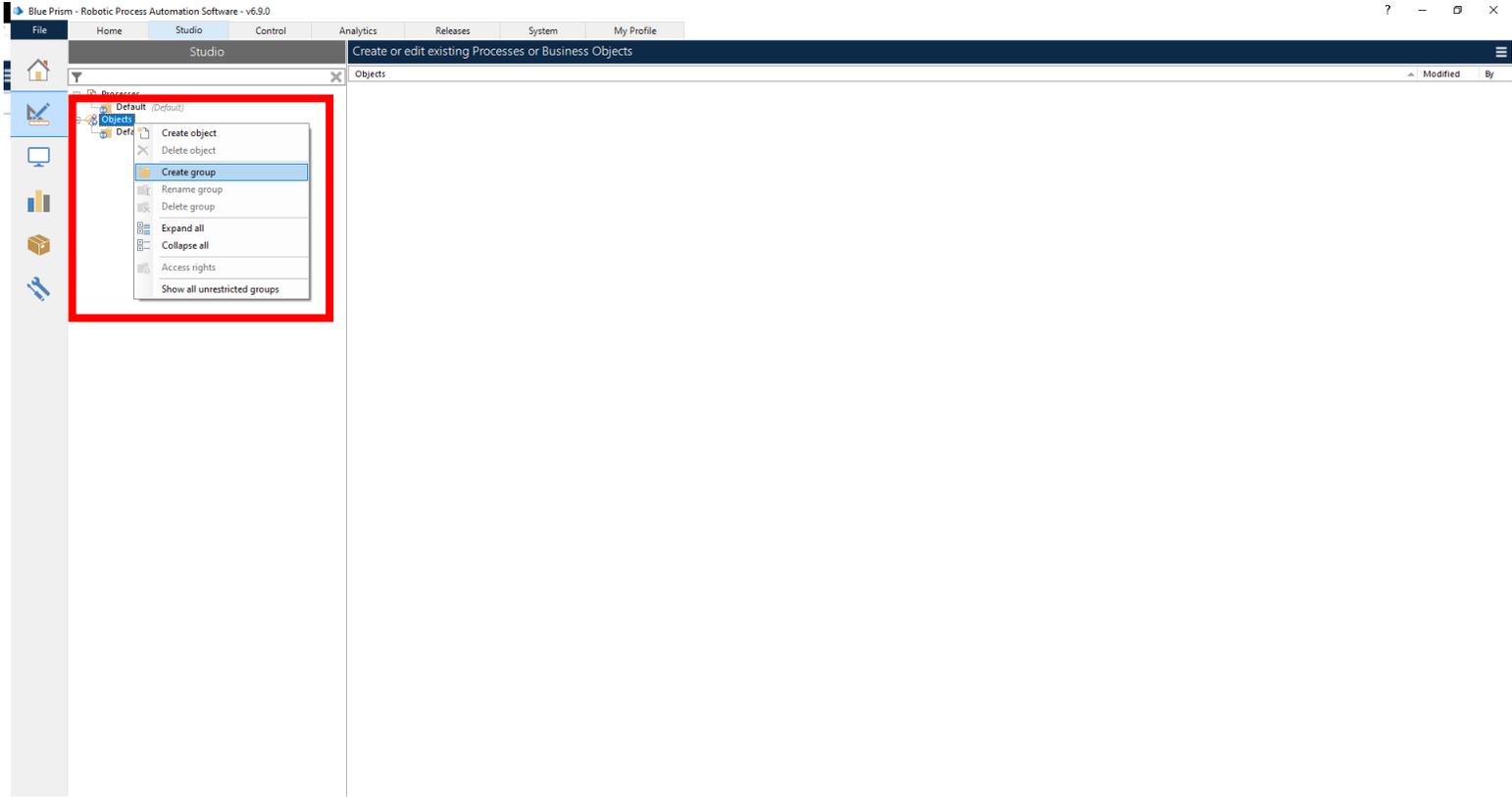
1. Navigate to the BluePrism Studio
2. Create a new Business Object Group
3. Name the new Business Object Group
4. Create a new Business Object
5. Enter a name for the Business Object
6. Enter a description for the Business Object

NAVIGATE TO THE BLUEPRISM STUDIO

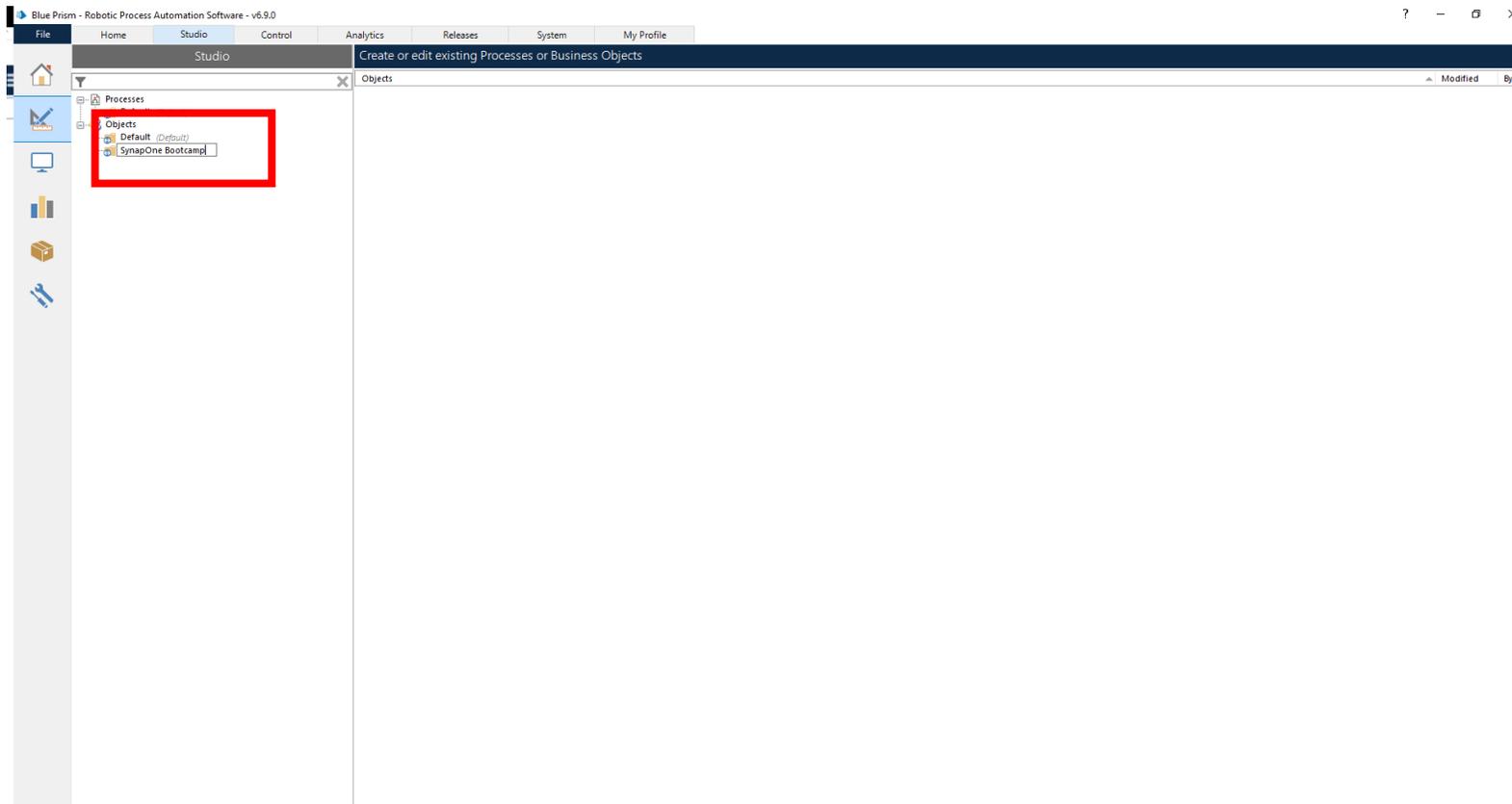
The screenshot shows the Blue Prism v6.9.0 interface. The top navigation bar includes 'File', 'Home', 'Studio', 'Control', 'Analytics', 'Releases', 'System', and 'My Profile'. The 'Studio' menu item is highlighted with a red box. On the left sidebar, the 'Studio' icon is also highlighted with a red box. The main dashboard displays three charts: 'Workforce Availability' (a pie chart showing 100.00% Offline), 'Total Automations' (a pie chart with no data), and 'Queue Volumes Now' (a bar chart with no data). Below these is a bar chart titled 'Largest Database Tables (Column)' showing the size of the top ten tables in Mb. The 'BPAAuditEvents' table is the largest at approximately 12 Mb. The 'blueprism' logo is in the bottom right corner.

Table Name	Size (Mb)
BPAAuditEvents	12.00
BPMProductivityShadow	0.10
BPACalendar	0.10
BPASchedule	0.10
BPAScheduleList	0.10
BPASysConfig	0.10
BPATask	0.10
BPADEVVersion	0.10
BPAWorkQueueItem	0.10
BPAProcess	0.10

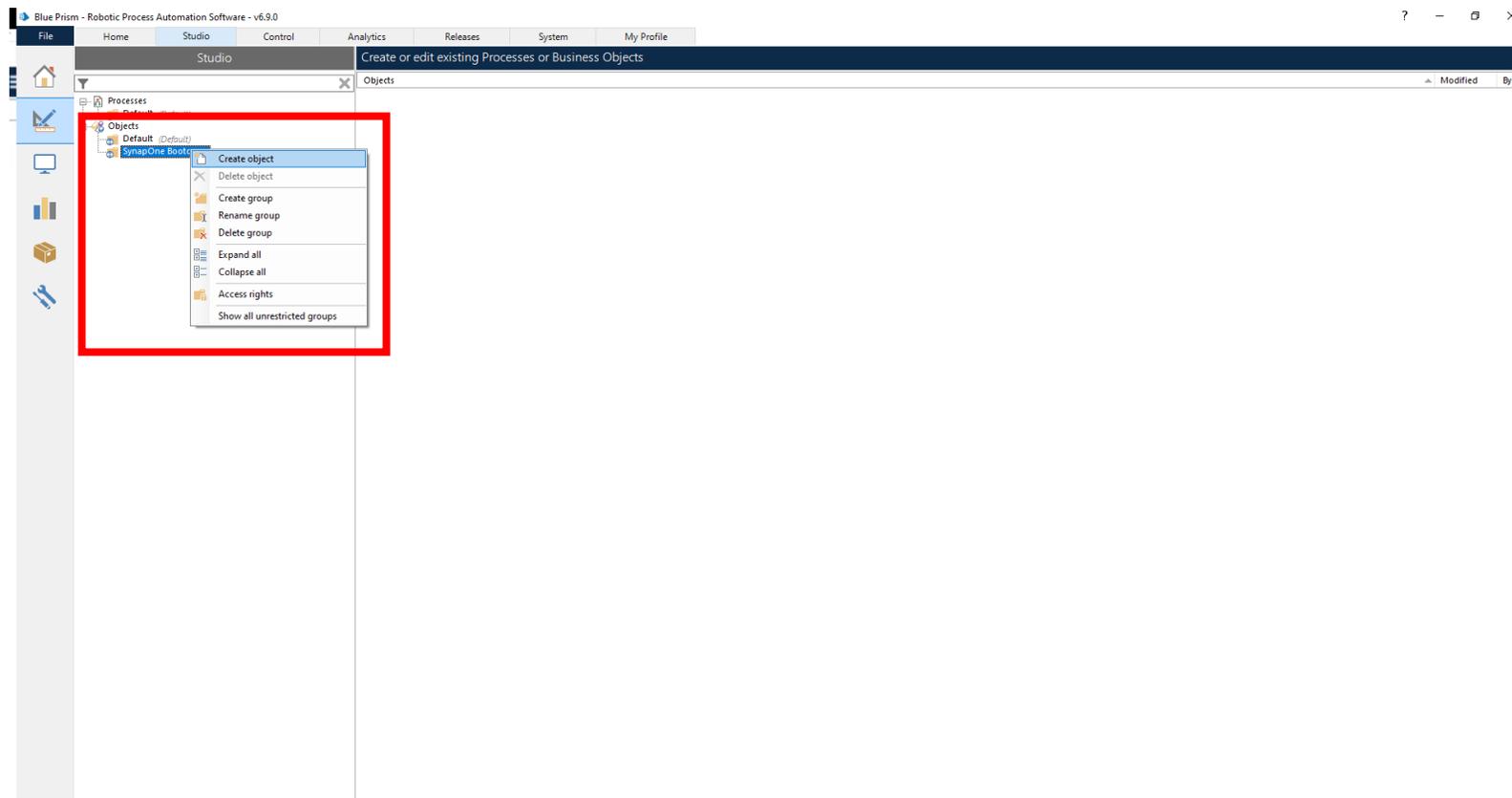
CREATE A NEW BUSINESS OBJECT GROUP



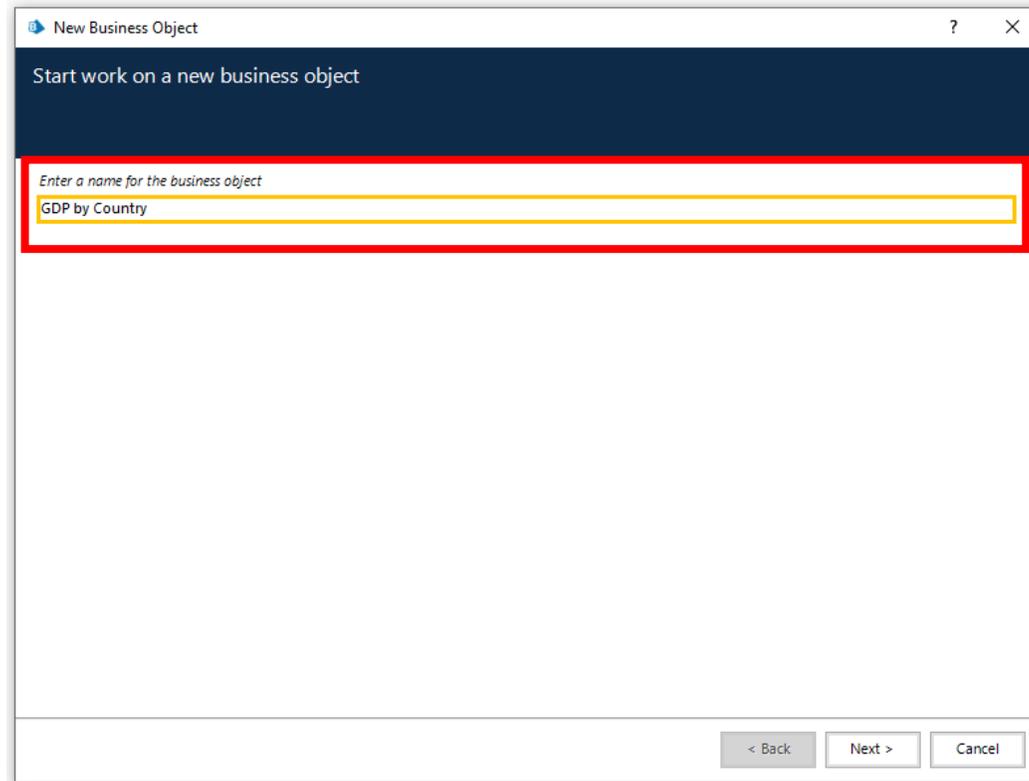
NAME THE NEWLY CREATED BUSINESS OBJECT GROUP



CREATE A NEW BUSINESS OBJECT



ENTER A NAME FOR THE BUSINESS OBJECT



The image shows a software dialog box titled "New Business Object". The dialog has a dark blue header bar with the text "Start work on a new business object". Below the header, there is a text input field with the placeholder text "Enter a name for the business object". The text "GDP by Country" is entered into this field. The input field is highlighted with a red border. At the bottom of the dialog, there are three buttons: "< Back", "Next >", and "Cancel".

New Business Object

Start work on a new business object

Enter a name for the business object

GDP by Country

< Back Next > Cancel

ENTER A DESCRIPTION OF THE BUSINESS OBJECT

New Business Object

Start work on a new business object

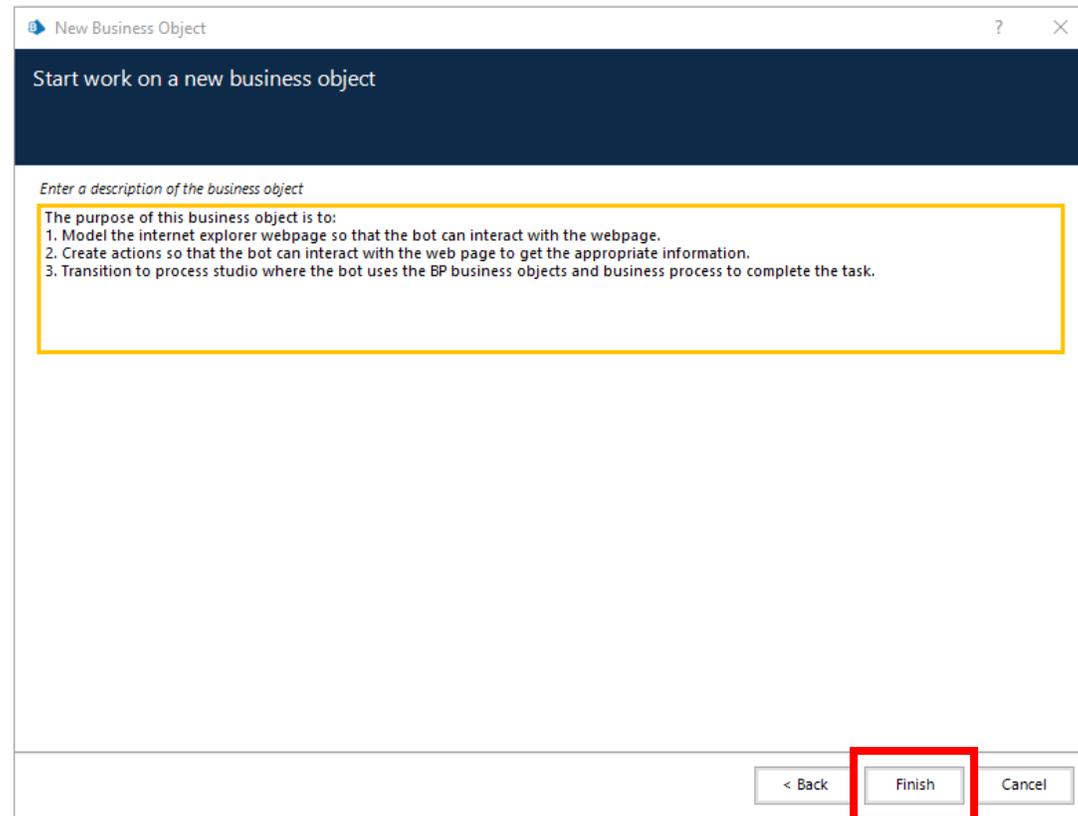
Enter a description of the business object

The purpose of this business object is to:

1. Model the internet explorer webpage so that the bot can interact with the webpage.
2. Create actions so that the bot can interact with the web page to get the appropriate information.
3. Transition to process studio where the bot uses the BP business objects and business process to complete the task.

< Back Finish Cancel

CLICK FINISH



New Business Object

Start work on a new business object

Enter a description of the business object

The purpose of this business object is to:

1. Model the internet explorer webpage so that the bot can interact with the webpage.
2. Create actions so that the bot can interact with the web page to get the appropriate information.
3. Transition to process studio where the bot uses the BP business objects and business process to complete the task.

< Back Finish Cancel

The image shows a software dialog box titled "New Business Object". It has a dark blue header with the text "Start work on a new business object". Below the header, there is a section titled "Enter a description of the business object" which contains a list of three instructions. At the bottom of the dialog, there are three buttons: "< Back", "Finish", and "Cancel". The "Finish" button is highlighted with a red rectangular border.

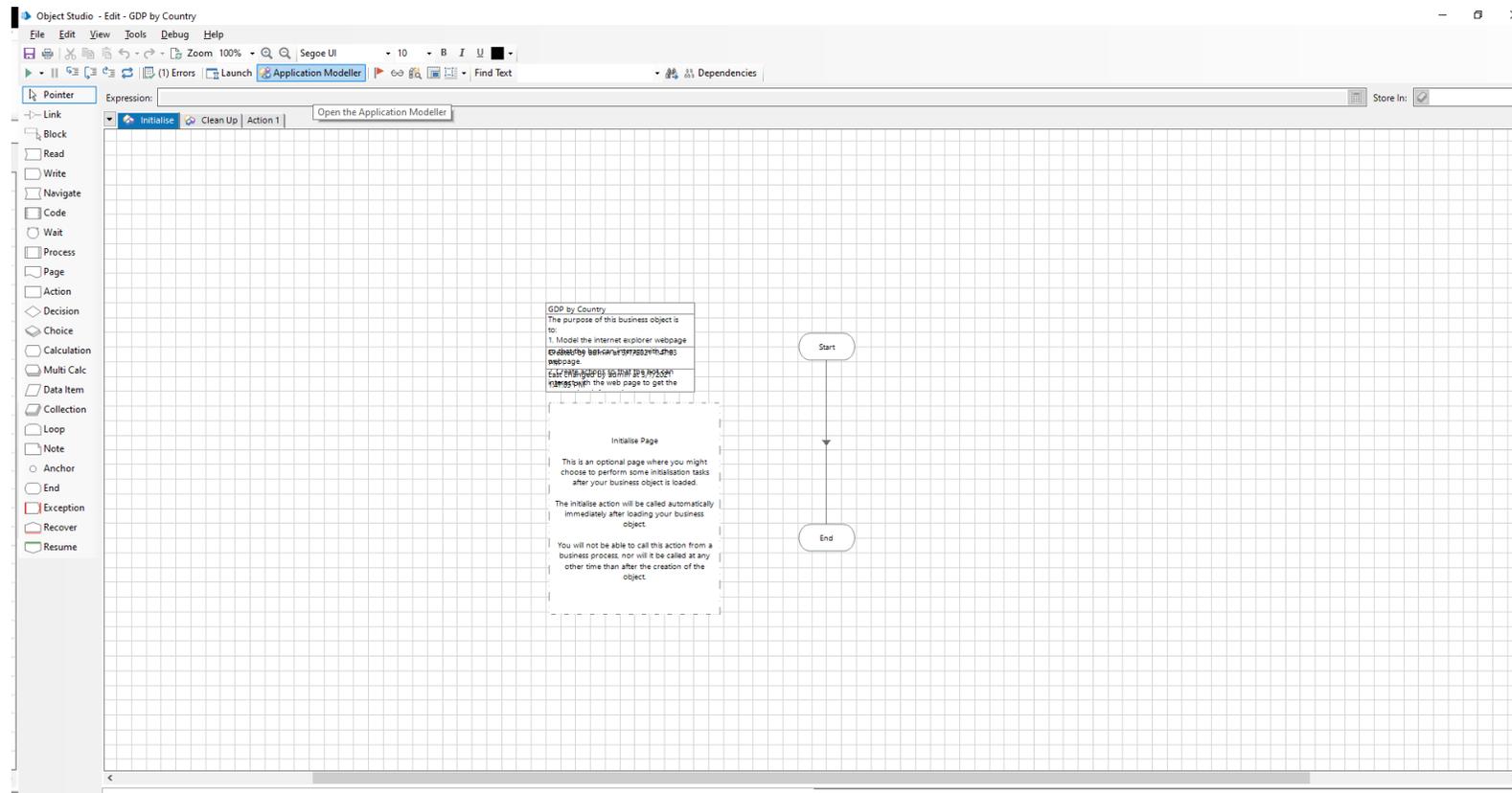
SECTION 3.2

*Using the
Application
Modeler*

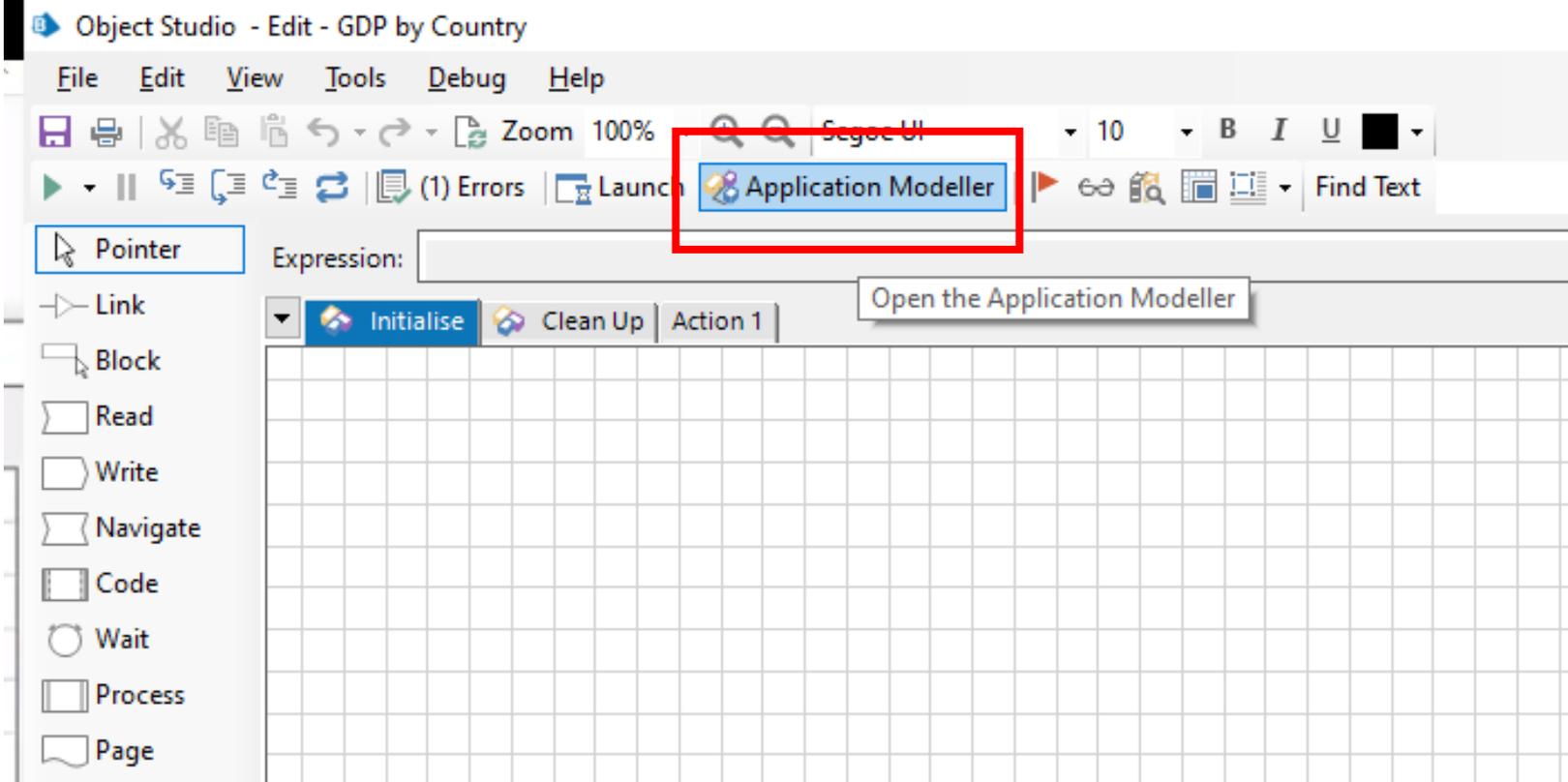
USING THE OBJECT STUDIO APPLICATION MODELER

1. Open the “GDP by Country” Business Object
2. Navigate to the Application Modeler
3. Select the Application Modeler Icon
4. Configure the Application Modeler
5. Identify the elements of IE that will be used by Object Studio

NAVIGATE TO THE APPLICATION MODELER



SELECT THE APPLICATION MODELER ICON



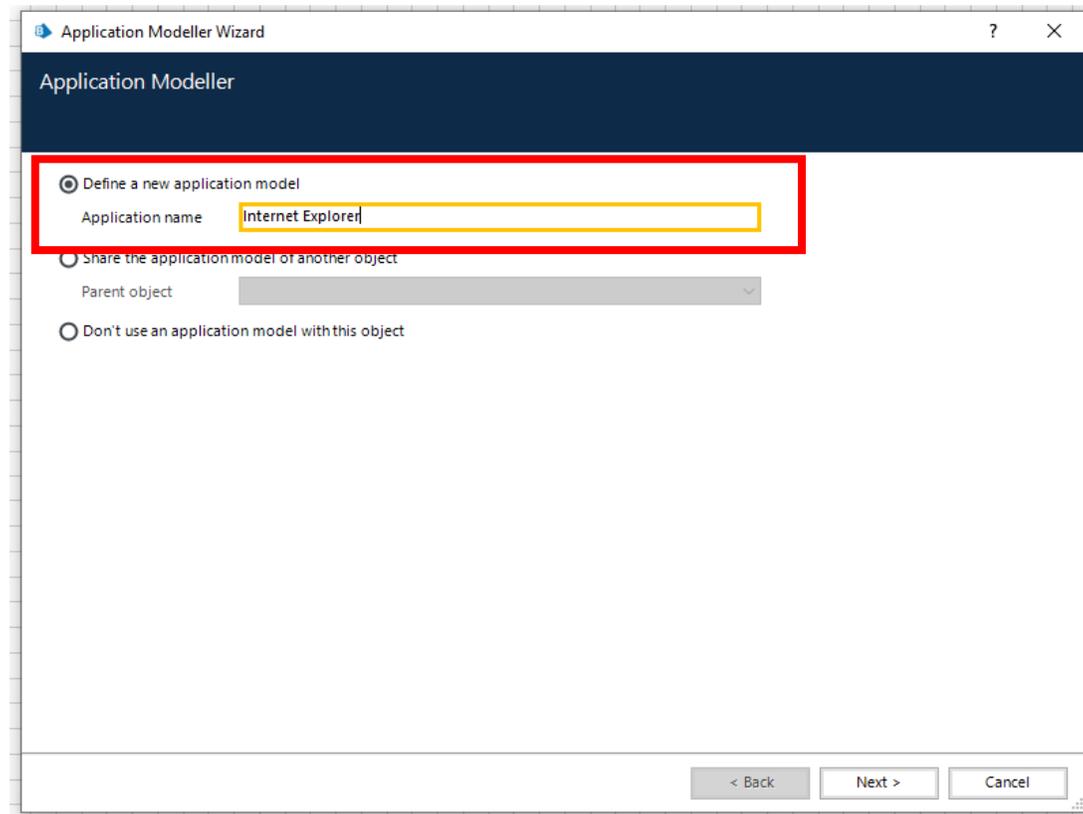
SECTION
3.2.1

*Configuring the
Application
Modeler*

CONFIGURING THE APPLICATION MODELER

1. Define the application name
2. Indicate “Internet Explorer” as the Application being used
3. Indicate that the bot will be opening a new instance of IE for every instance
4. Enter the path to the browser (Default)
5. Select to Only interact with elements on the active browser tab (Default)
6. Do not enable java integration techniques (Default)
7. Exclude HTC components (Default)
8. Select the Application Manager mode (Default)
9. Click “Finish” and start the Application Modeller

DEFINE THE APPLICATION NAME

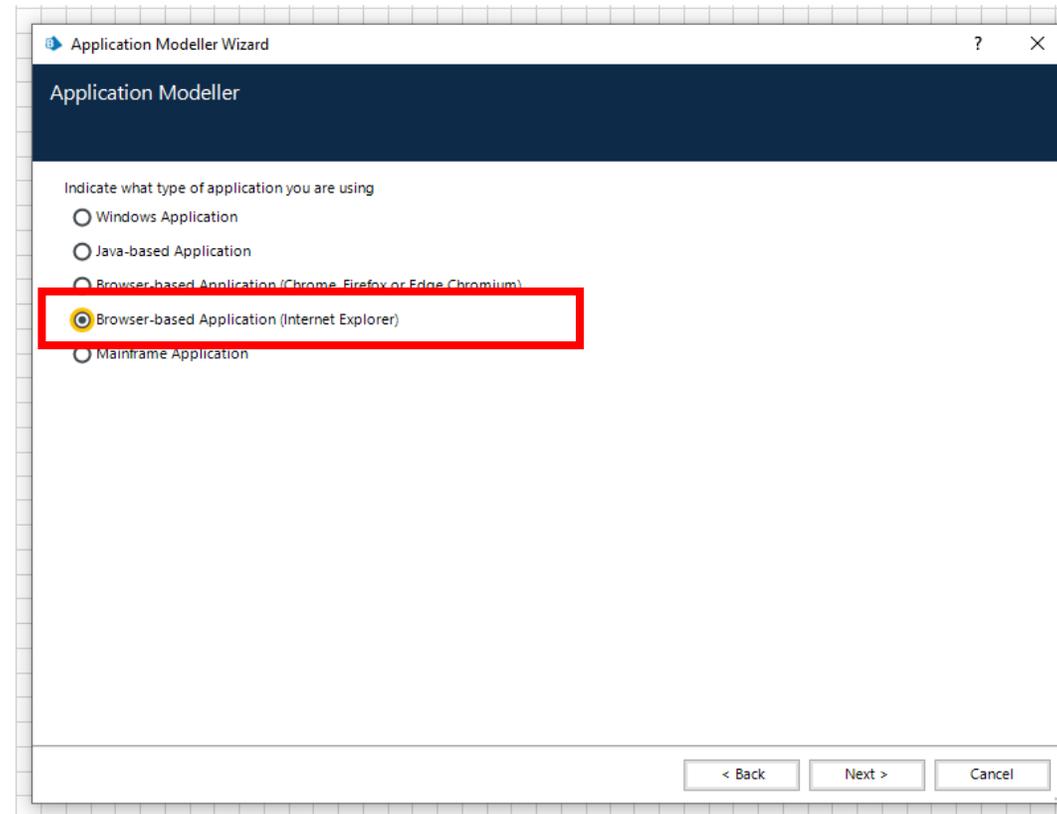


The screenshot shows the 'Application Modeller Wizard' dialog box. The title bar reads 'Application Modeller Wizard' with a question mark and a close button. The main header is 'Application Modeller'. There are three radio button options:

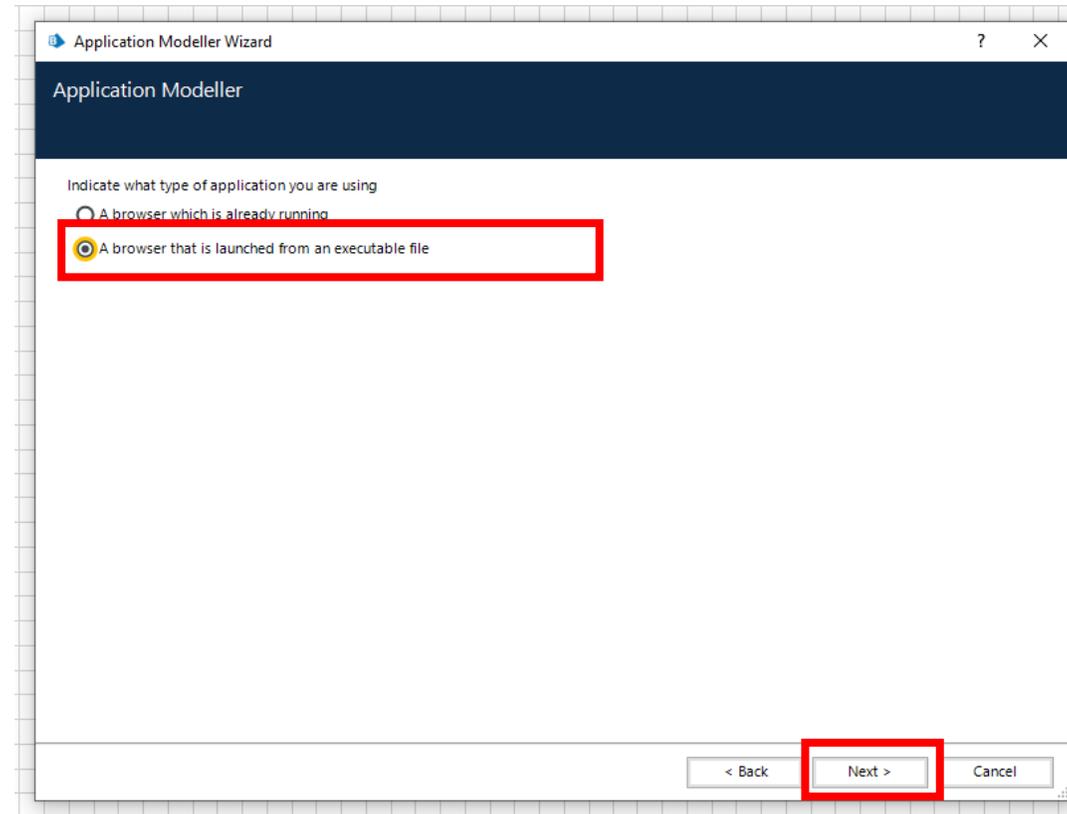
- Define a new application model
- Share the application model of another object
- Don't use an application model with this object

Under the first option, there is a text field labeled 'Application name' containing the text 'Internet Explorer'. A red rectangle highlights the entire first option and its text field. A yellow rectangle highlights the text field itself. Below the second option is a 'Parent object' dropdown menu. At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

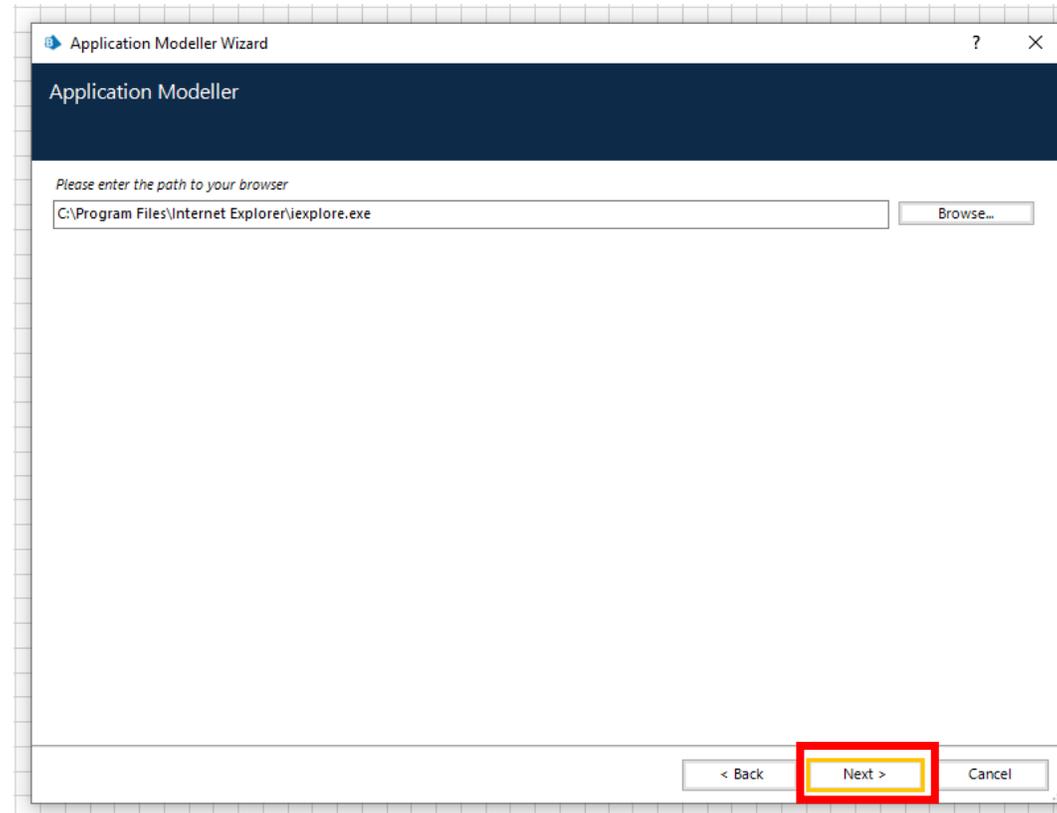
INDICATE “INTERNET EXPLORER” AS THE APPLICATION BEING USED



INDICATE THAT THE BOT WILL BE OPENING
A NEW INSTANCE OF IE FOR EVERY
INSTANCE



ENTER THE PATH TO THE BROWSER (DEFAULT)



ENTER THE URL OF THE START PAGE

Application Modeller Wizard

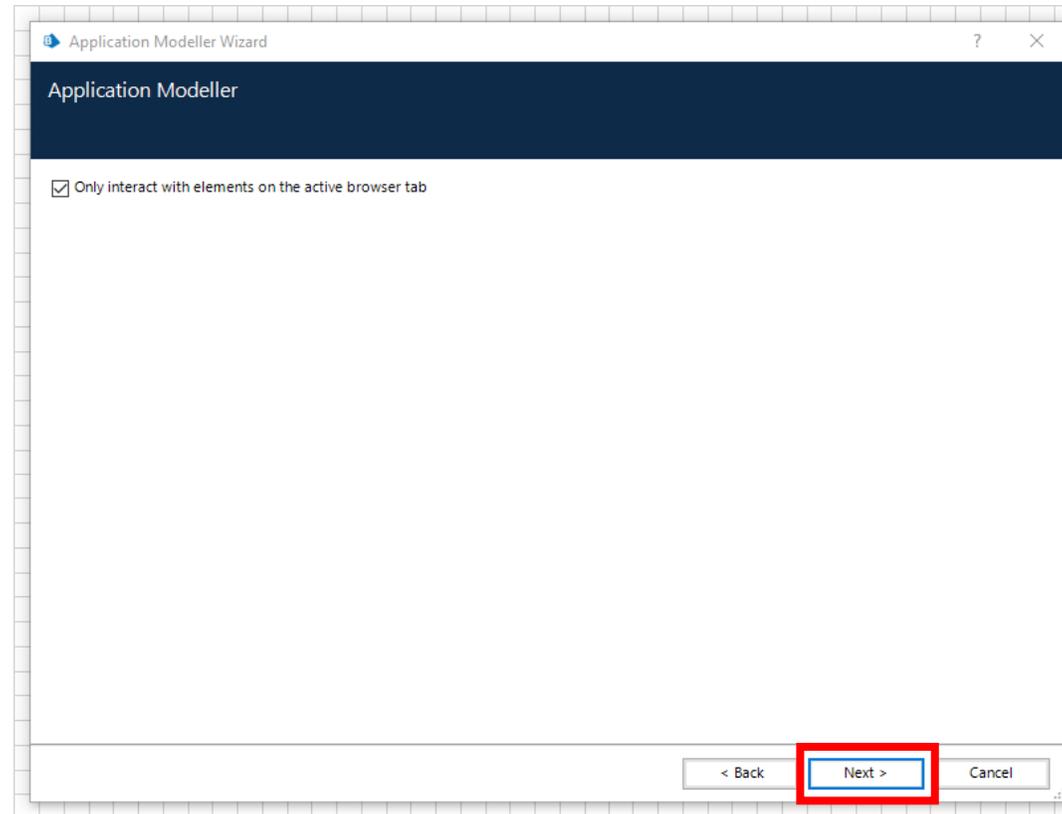
Application Modeller

Please enter the URL of your start page, and any other command-line parameters.

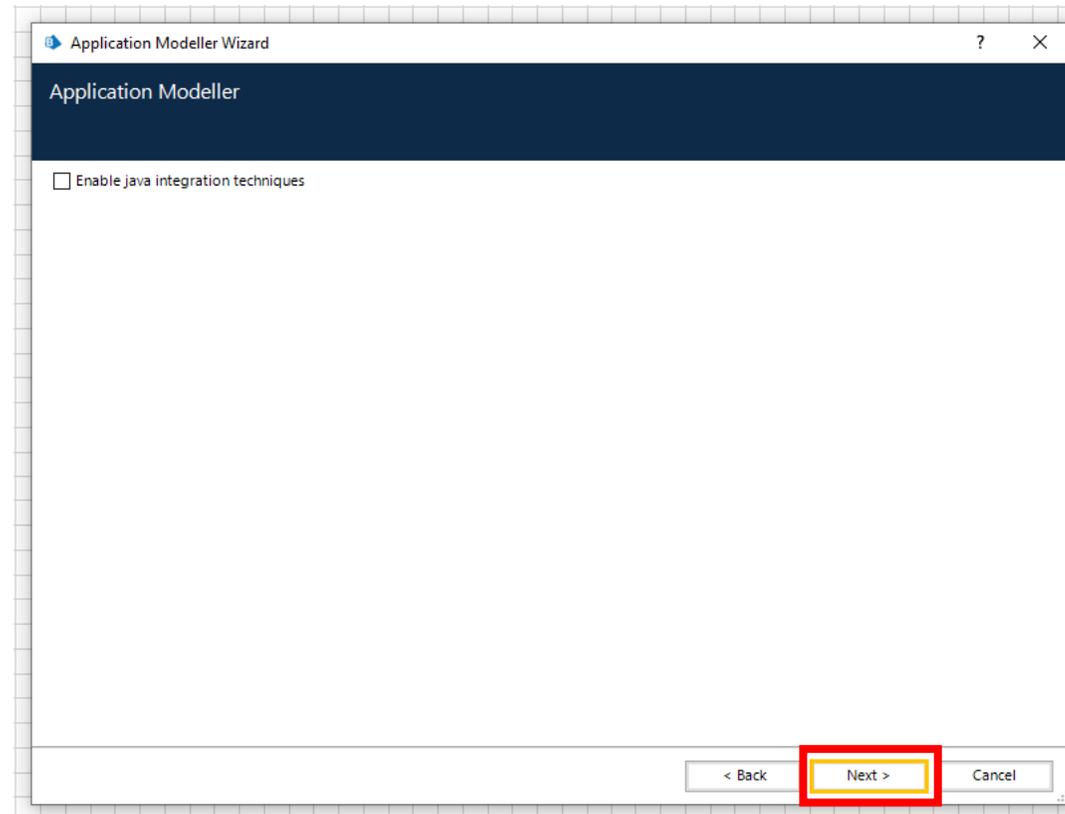
<https://www.worldometers.info/gdp/>

< Back Next > Cancel

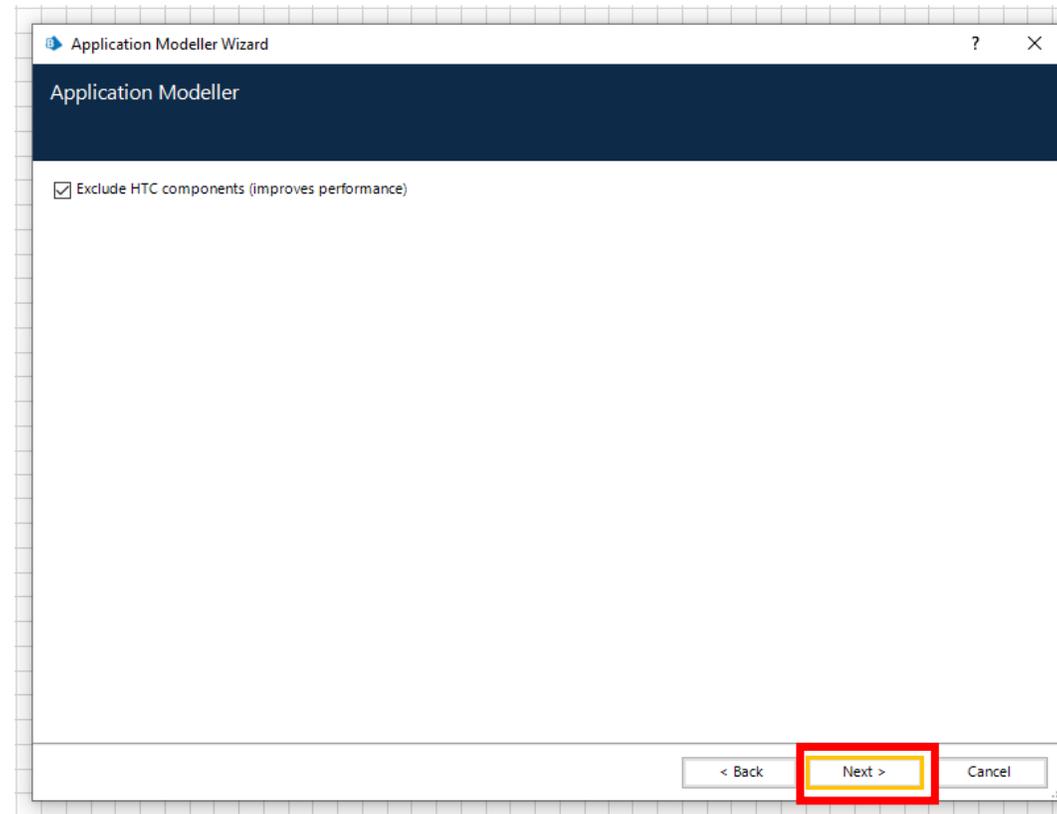
SELECT TO ONLY INTERACT WITH ELEMENTS
ON THE ACTIVE BROWSER TAB (DEFAULT)



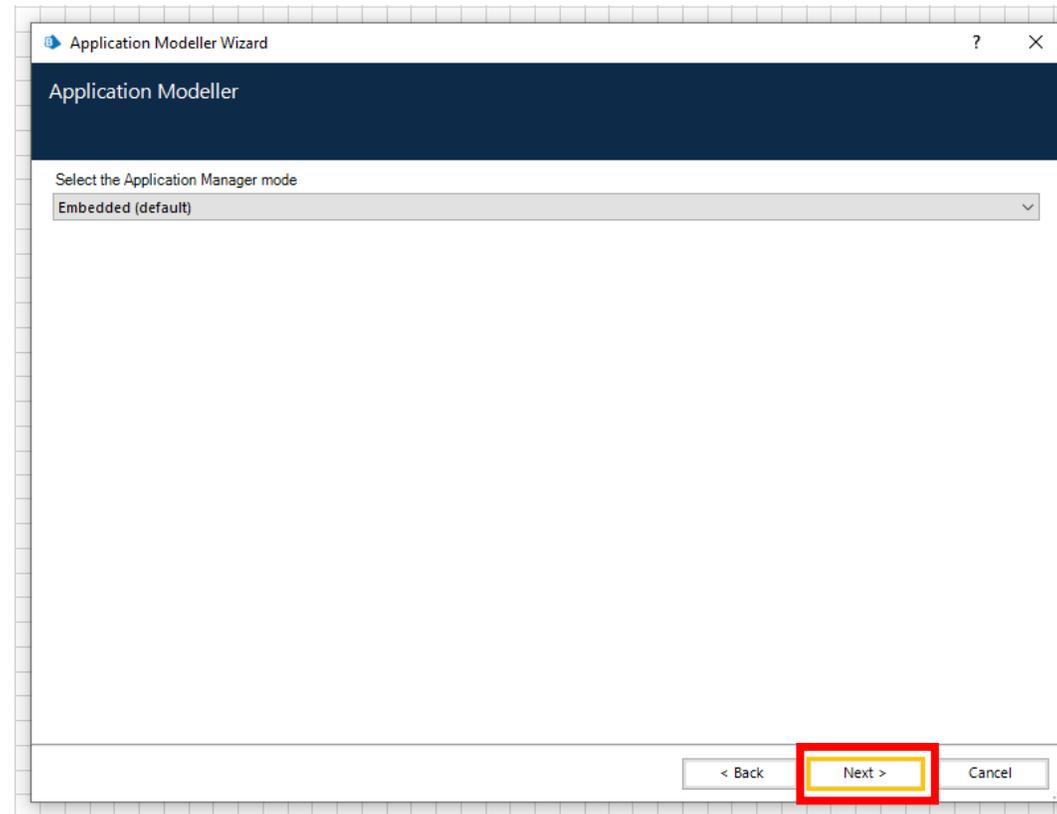
DO NOT ENABLE JAVA INTEGRATION TECHNIQUES (DEFAULT)



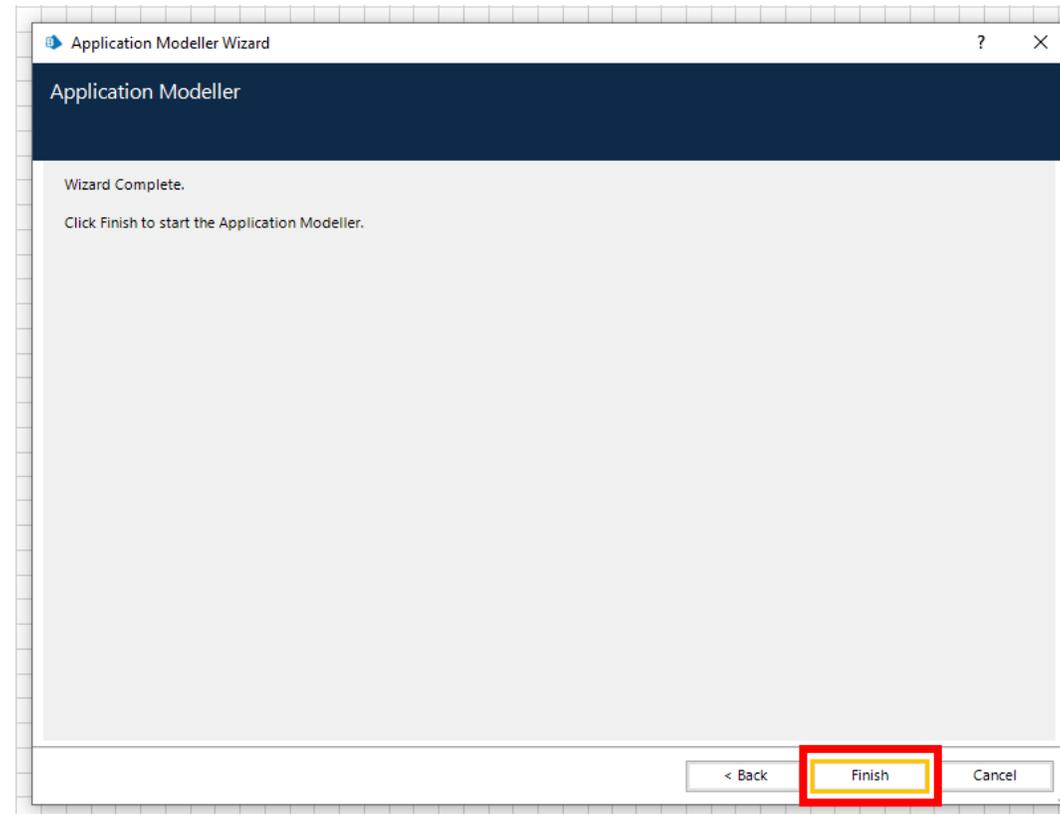
EXCLUDE HTC COMPONENTS (DEFAULT)



SELECT THE APPLICATION MANAGER MODE (DEFAULT)



CLICK “FINISH” AND START THE APPLICATION MODELLER



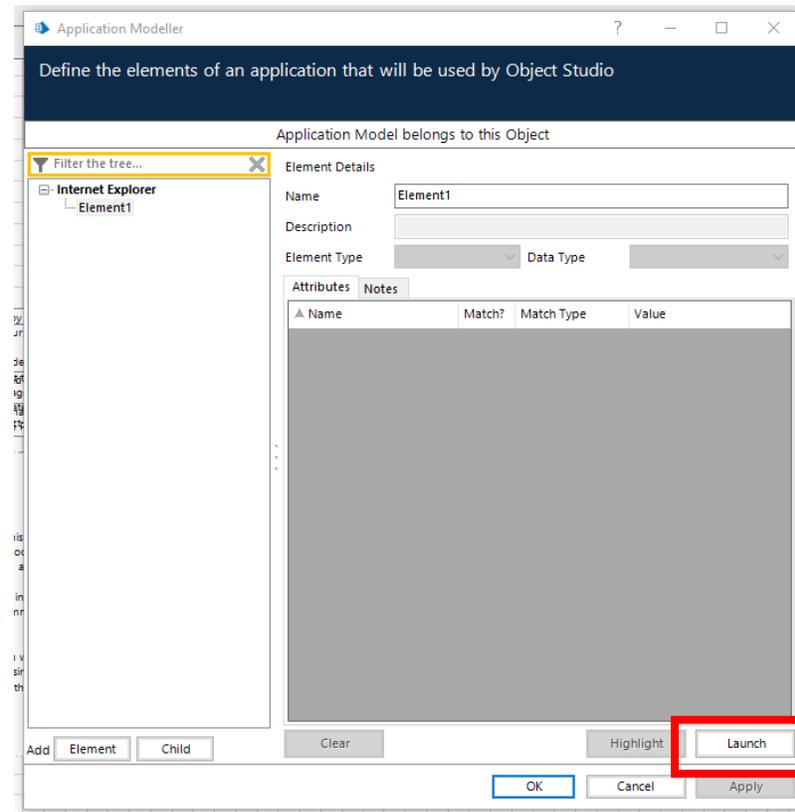
SECTION
3.2.2

*Identifying the
Elements using the
Application
Modeler*

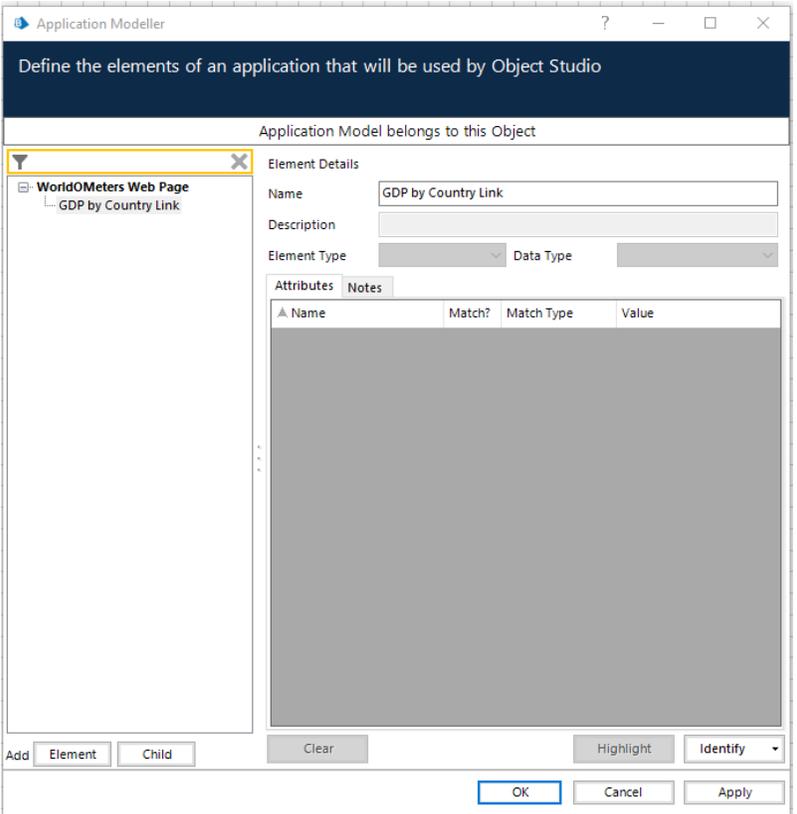
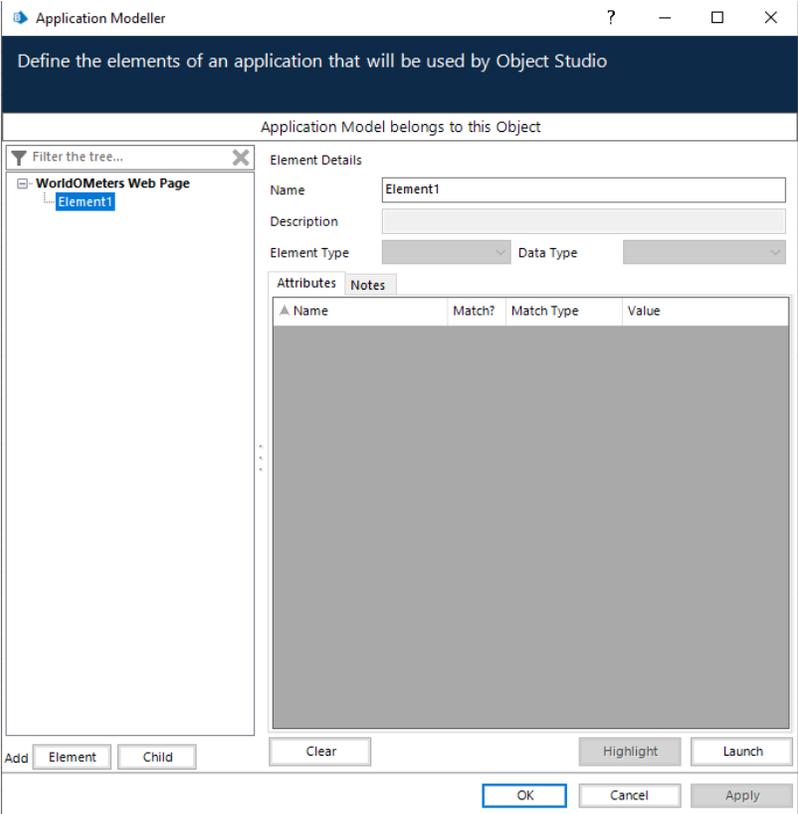
IDENTIFY THE ELEMENTS OF IE THAT WILL BE USED BY THE OBJECT STUDIO

1. Launch IE through the Application Modeler
2. Change the name of the Element based on what is being identified
3. Click on the identify option in the application modeler
4. Use the Ctrl + left mouse click to select the element
5. Use the Ctrl + left click to select the GDP by country link
6. Untick all the blank attributes from the element and click apply
7. Use the Alt key to navigate through different Spy Modes
8. Repeat the steps to add all the elements necessary to the process

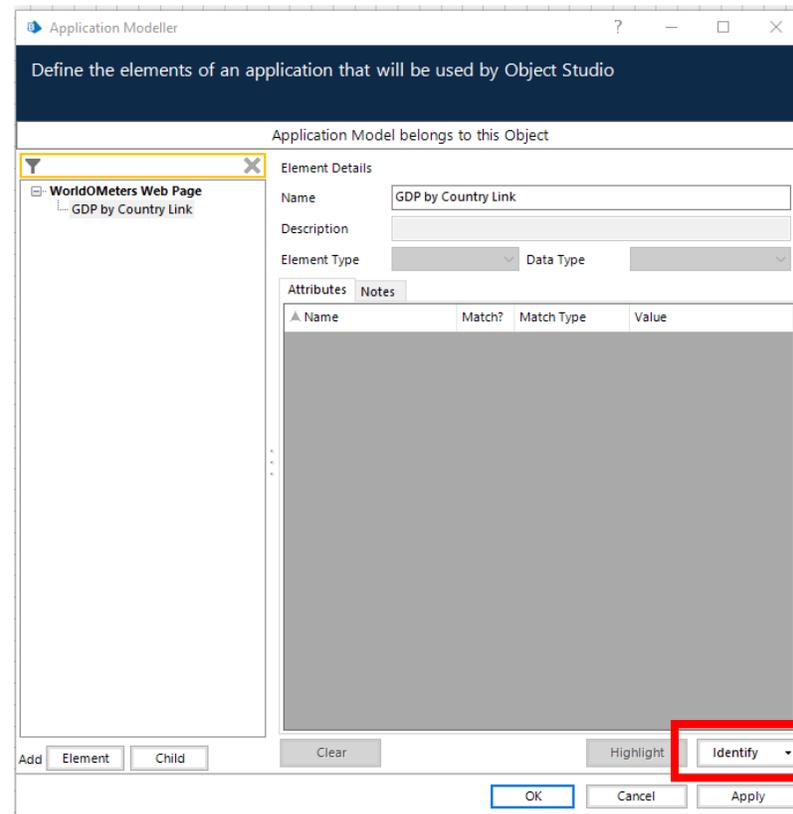
LAUNCH IE THROUGH THE APPLICATION MODELER



CHANGE THE NAME OF THE ELEMENT BASED ON WHAT IS BEING IDENTIFIED



CLICK ON THE IDENTIFY OPTION IN THE APPLICATION MODELER



ENSURE THAT THE POP UP INDICATES THAT YOU ARE IN “SPY ELEMENT” MODE

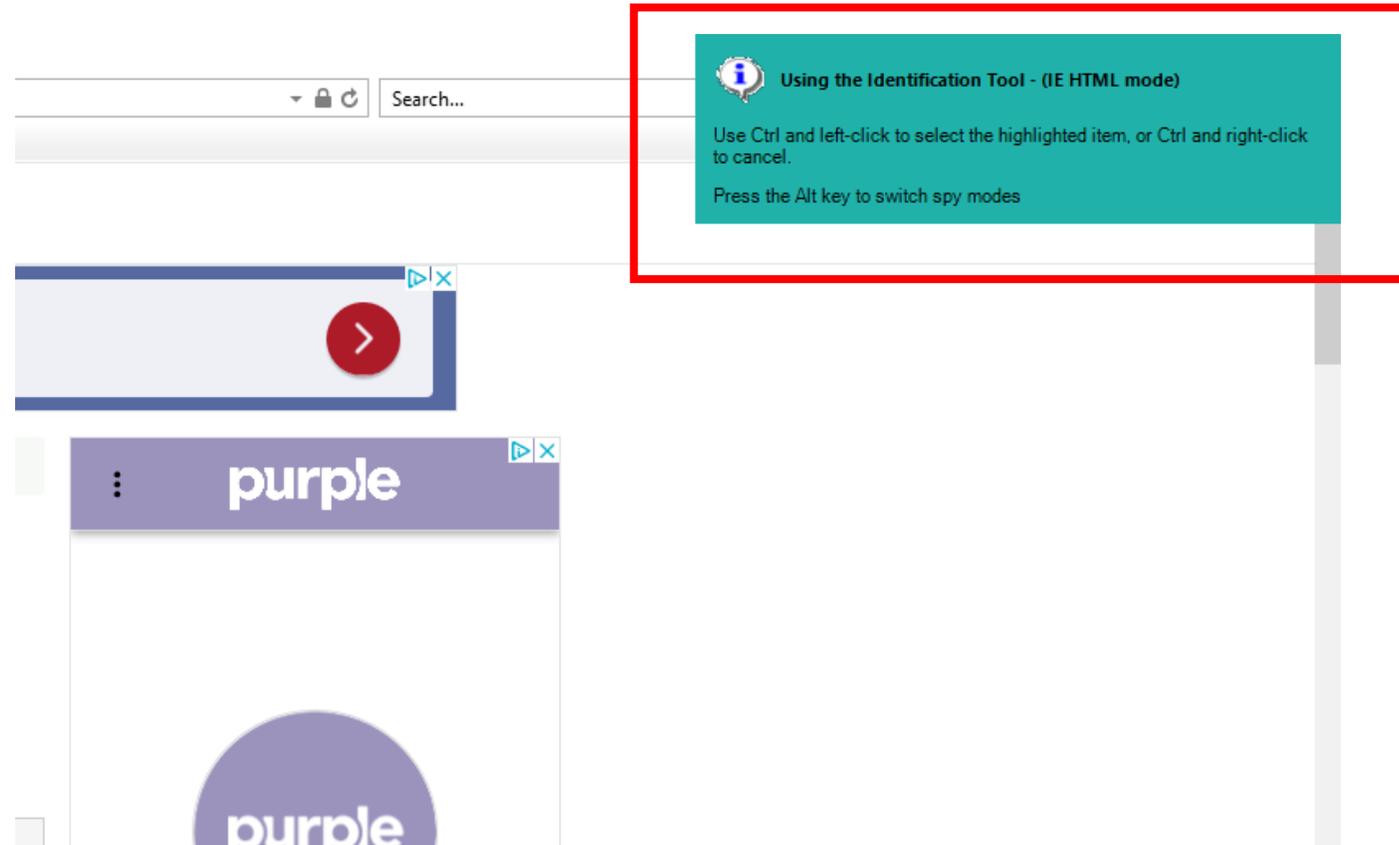
The screenshot shows a web browser window with the URL <https://www.worldometers.info/gdp/>. The page content includes a navigation bar with "worldometer", "Coronavirus", and "Population". A banner for "Mortgage Rates Fall Again" is visible. The main content area displays "Global GDP this year" as **\$ 16,232,969,444,485** (combined GDP of all countries from Jan. 1 2019 up to now). Below this, it shows a "2019 FORECAST" with "2019 Global GDP" at **\$87,265,226,000,000** and a "Growth rate" of **2.98%** with an upward arrow. A sidebar on the left contains a blue advertisement for AAA with the text "WE GET YOU... ..DISCOUNTS THAT ADD UP." and "So many, your membership could pay for itself." with a "LEARN MORE" button. A purple chatbot interface is on the right, with a message from "Carebot from Purple" and a text input field. A teal information popup is highlighted with a red border, containing the text: "Using the Identification Tool - (IE HTML mode)", "Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.", and "Press the Alt key to switch spy modes".

Using the Identification Tool - (IE HTML mode)

Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.

Press the Alt key to switch spy modes

USE THE CTRL + LEFT MOUSE CLICK TO SELECT THE ELEMENT



USE THE CTRL + LEFT CLICK TO SELECT THE GDP BY COUNTRY LINK

The screenshot shows a web browser window displaying the worldometer website. The page title is "GDP" and the main content is "Global GDP this year \$ 16,233,508,412,696". Below this, there is a "2019 FORECAST:" section with "2019 Global GDP \$87,265,226,000,000" and "Growth rate 2.98% ↑". A list of links is visible at the bottom, including "Top 20 Countries", "What is GDP?", "GDP by Year", "Global Growth Rate", "GDP by Country", and "Sources". The "GDP by Country" link is highlighted with a red rectangular box. A teal tooltip in the top left corner reads "Using the Identification Tool - (IE HTML mode)" and provides instructions on using Ctrl and left-click to select items. A purple chatbot interface is visible on the right side of the page.

Using the Identification Tool - (IE HTML mode)
Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.
Press the Alt key to switch spy modes

worldometer Coronavirus Population

chrome Switch to Google Chrome for a better browsing experience. Yes, get Chrome now

W / GDP

Global GDP this year
\$ 16,233,508,412,696
(combined GDP of all countries, from Jan. 1 2019 up to now)

2019 FORECAST:

2019 Global GDP
\$87,265,226,000,000
[\[see all years\]](#)

Growth rate
2.98% ↑
[\[view chart\]](#)

- [Top 20 Countries](#)
- [What is GDP?](#)
- [GDP by Year](#)
- [Global Growth Rate](#)
- [GDP by Country](#)
- [Sources](#)

What is GDP

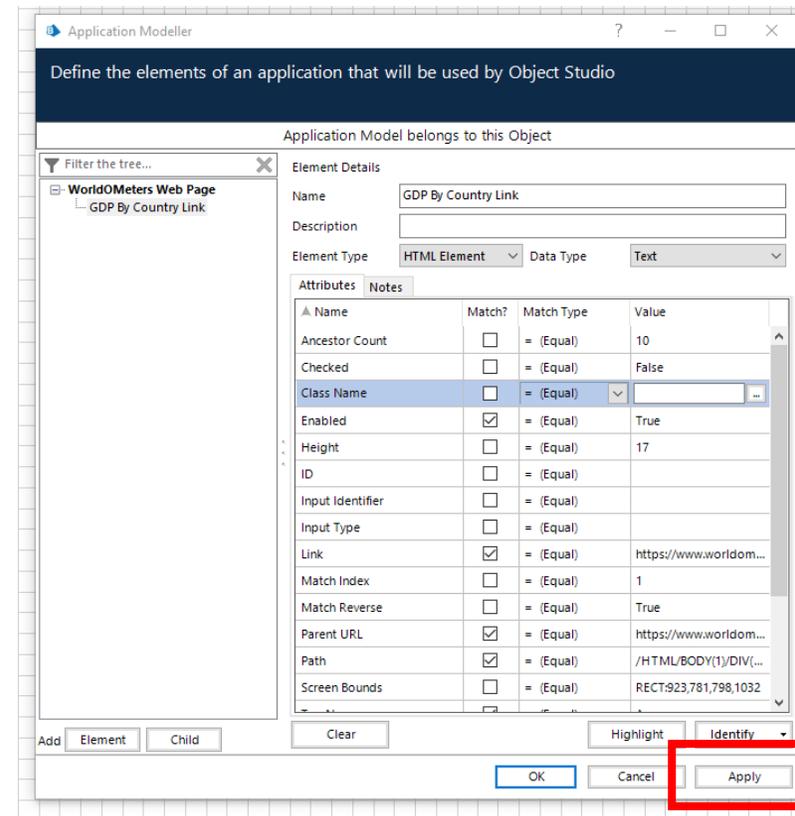
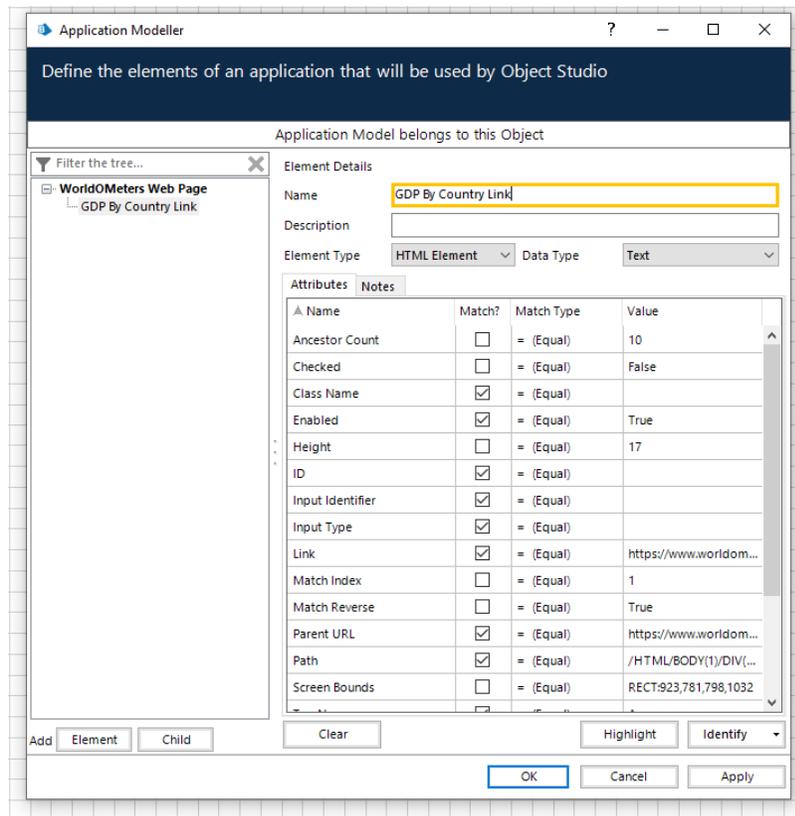
purple

I'm Carebot from Purple, here to help make 2021 more serene.

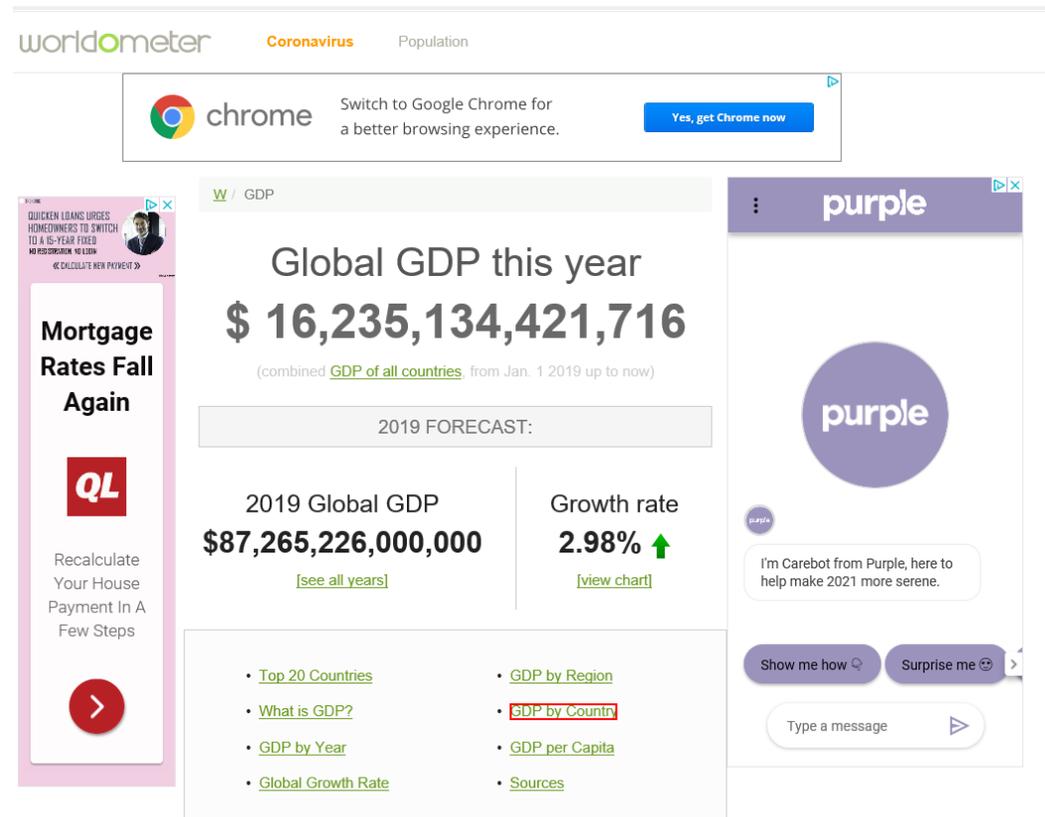
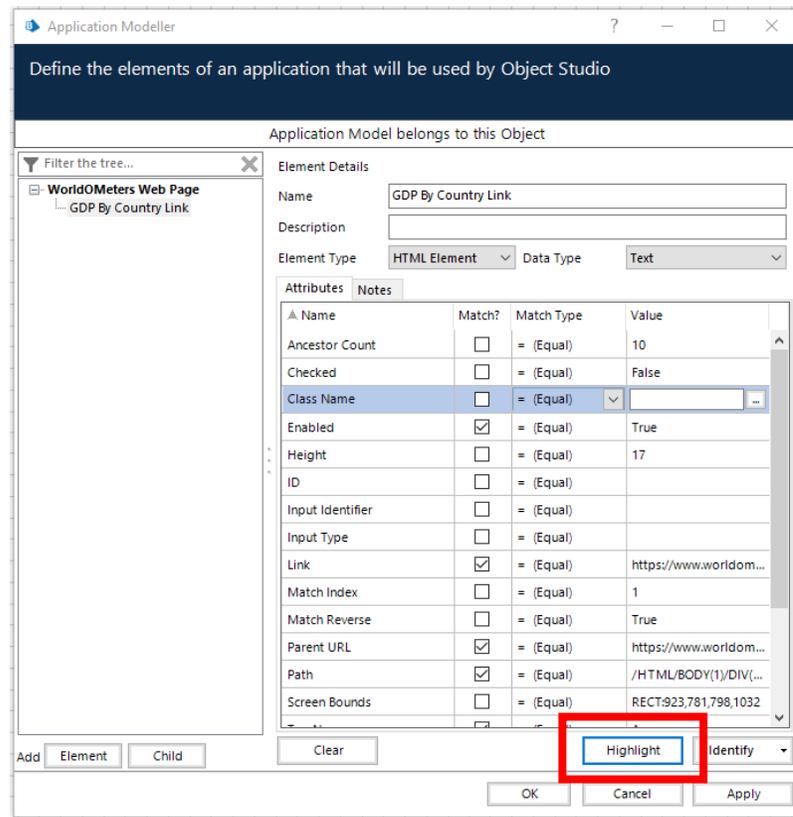
Show me how Surprise me

Type a message

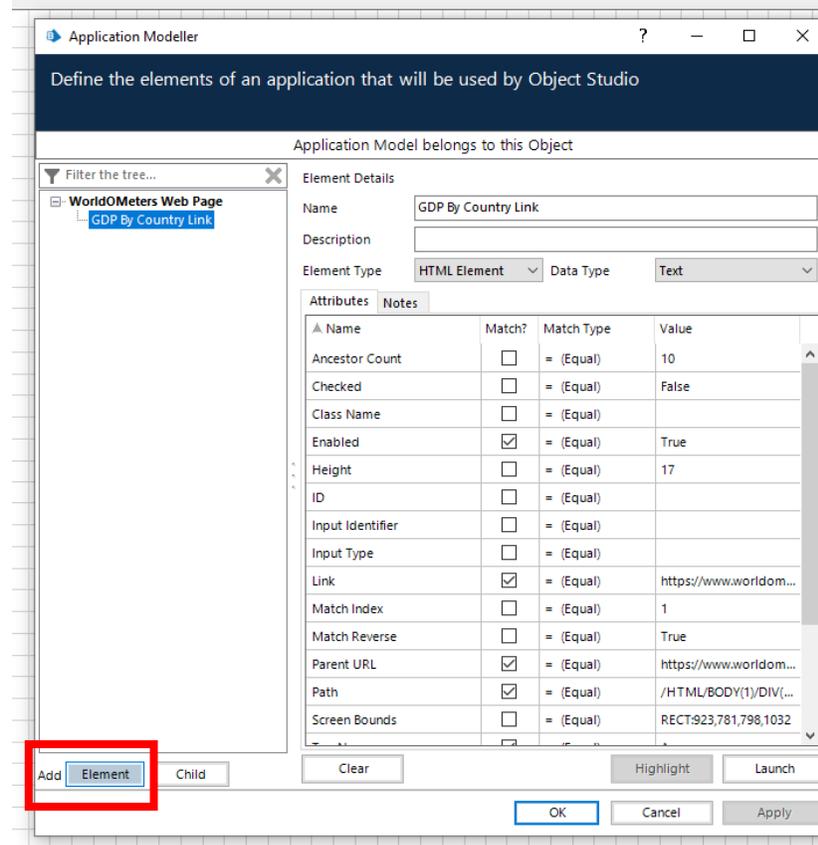
UNTICK ALL THE BLANK ATTRIBUTES FROM THE ELEMENT AND CLICK APPLY



HIGHLIGHTING THE ELEMENT SHOULD HIGHLIGHT THE GDP BY COUNTRY LINK



ADD A NEW ELEMENT TO THE APPLICATION MODELER



NAVIGATE TO THE “GDP BY COUNTRY” URL

The screenshot shows the worldometer website interface. At the top, there is a navigation bar with the worldometer logo and links for 'Coronavirus' and 'Population'. Below this is a Chrome advertisement banner. The main content area displays 'Global GDP this year' with a value of \$16,233,508,412,696. Below this, there is a '2019 FORECAST' section showing '2019 Global GDP' of \$87,265,226,000,000 and a 'Growth rate' of 2.98% with an upward arrow. A list of links is provided at the bottom of the main content area, including 'Top 20 Countries', 'What is GDP?', 'GDP by Year', 'Global Growth Rate', 'GDP by Region', 'GDP by Country' (highlighted with a red box), 'GDP per Capita', and 'Sources'. On the left side, there is a sidebar advertisement for 'Mortgage Rates Fall Again' with a 'QL' logo and a 'Recalculate Your House Payment In A Few Steps' button. On the right side, there is a 'purple' chatbot interface with a search bar and a message input field.

Using the Identification Tool - (IE HTML mode)

Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.

Press the Alt key to switch spy modes

worldometer Coronavirus Population

chrome Switch to Google Chrome for a better browsing experience. Yes, get Chrome now

W / GDP

Global GDP this year
\$ 16,233,508,412,696
(combined [GDP of all countries](#) from Jan. 1 2019 up to now)

2019 FORECAST:

2019 Global GDP
\$87,265,226,000,000
[\[see all years\]](#)

Growth rate
2.98% ↑
[\[view chart\]](#)

- [Top 20 Countries](#)
- [What is GDP?](#)
- [GDP by Year](#)
- [Global Growth Rate](#)
- [GDP by Region](#)
- [GDP by Country](#)
- [GDP per Capita](#)
- [Sources](#)

What is GDP

purple

I'm Carebot from Purple, here to help make 2021 more serene.

Show me how Surprise me

Type a message

USE THE WIN32 MODE TO IDENTIFY AND HIGHLIGHT THE GDP BY COUNTRY PAGE

Using the Identification Tool - (Win32 mode)
Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.
Press the Alt key to switch spy modes

worldometer Coronavirus Population

Stay on top of your credit. Purchase Equifax Complete™ Premier and get a 30-day trial for \$4.95. Enroll today for credit alerts, 24-7 online access & more. [START TODAY](#)

[W / GDP](#) / GDP by Country

GDP by Country

Latest official GDP figures published by the World Bank. Population figures based on United Nations data.
World's GDP is **\$80,934,771,028,340** (nominal, 2017).

See also: [GDP per Capita](#)

Search:

#	Country	GDP (nominal, 2017)	GDP (abbrev.)	GDP growth	Population (2017)	GDP per capita	Share of World GDP
1	United States	\$19,485,394,000,000	\$19.485 trillion	2.27%	325,084,756	\$59,939	24.08%
2	China	\$12,237,700,479,375	\$12.238 trillion	6.90%	1,421,021,791	\$8,612	15.12%
3	Japan	\$4,872,415,104,315	\$4.872 trillion	1.71%	127,502,725	\$38,214	6.02%
4	Germany	\$3,693,204,332,230	\$3.693 trillion	2.22%	82,658,409	\$44,680	4.56%
5	India	\$2,650,725,335,364	\$2.651 trillion	6.68%	1,338,676,785	\$1,980	3.28%

This website uses cookies to ensure you get the best experience on our website. [Learn more](#) [Got it!](#)

USE THE ACCESSIBILITY MODE TO IDENTIFY AND HIGHLIGHT THE SEARCH BAR

The screenshot shows the Worldometer website in Accessibility Mode. A blue tooltip in the top left corner provides instructions: "Using the Identification Tool - (Accessibility mode)", "Use Ctrl and left-click to select the highlighted item, or Ctrl and right-click to cancel.", and "Press the Alt key to switch spy modes". The browser's address bar contains "Search...". A blue box highlights the search bar in the top right corner of the page content. The page title is "GDP by Country". Below the title, there is a paragraph of text and a link to "GDP per Capita". A table with 8 columns and 6 rows is displayed, showing GDP and population data for the top 5 countries. A footer at the bottom contains a cookie notice and a "Got it!" button.

worldometer Coronavirus Population

Turn that thing you love into that website you built. Build Your Website bluehost

W / GDP / GDP by Country

GDP by Country

Latest official GDP figures published by the World Bank. Population figures based on United Nations data.
World's GDP is **\$80,934,771,028,340** (nominal, 2017).

See also: [GDP per Capita](#)

Search:

#	Country	GDP (nominal, 2017)	GDP (abbrev.)	GDP growth	Population (2017)	GDP per capita	Share of World GDP
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5	India	\$2,650,725,335,364	\$2.651 trillion	6.68%	1,338,676,785	\$1,980	3.28%

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Got it!

USE THE IE HTML MODE TO IDENTIFY AND HIGHLIGHT THE COUNTRY NAME

worldometer Coronavirus Population

Turn that thing you love into that website you built. Build Your Website bluehost

W / GDP / GDP by Country

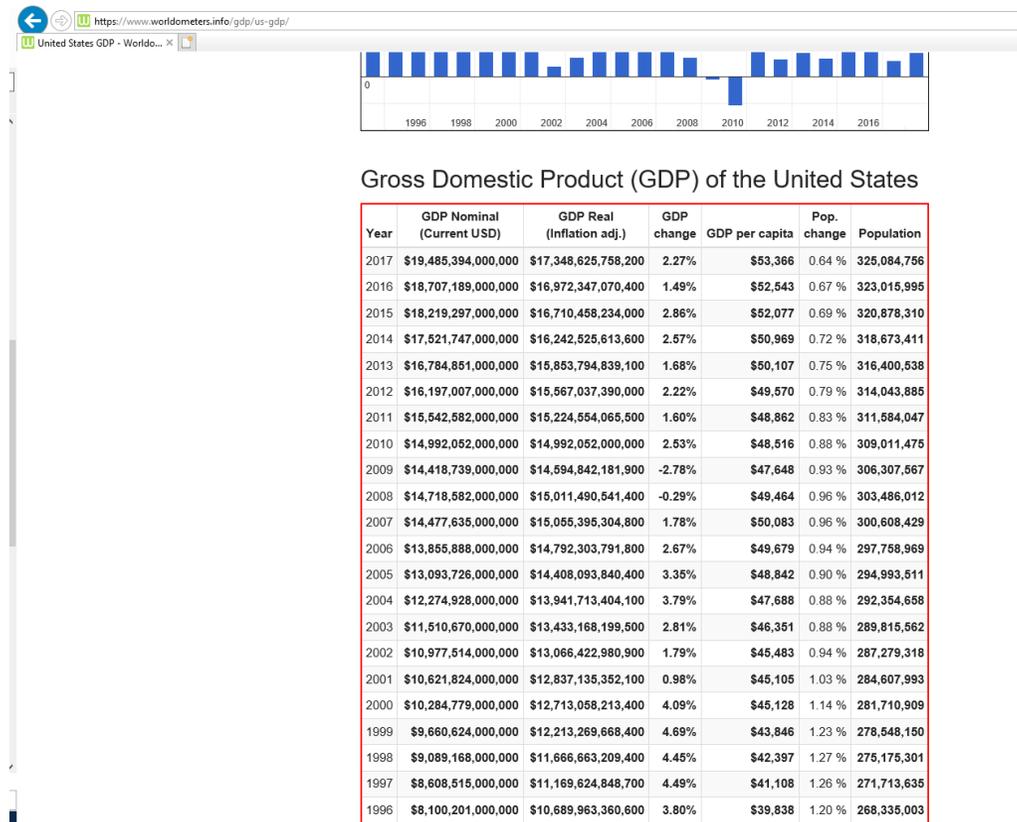
GDP by Country

Latest official GDP figures published by the World Bank. Population figures based on United Nations data.
World's GDP is **\$80,934,771,028,340** (nominal, 2017).
See also: [GDP per Capita](#)

Search:

#	Country	GDP (nominal, 2017)	GDP (abbrev.)	GDP growth	Population (2017)	GDP per capita	Share of World GDP
1	United States	\$19,485,394,000,000	\$19.485 trillion	2.27%	325,084,756	\$59,939	24.08%
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5	India	\$2,650,725,335,364	\$2.651 trillion	6.68%	1,338,676,785	\$1,980	3.28%

USE THE IE HTML MODE TO IDENTIFY AND HIGHLIGHT THE GDP TABLE



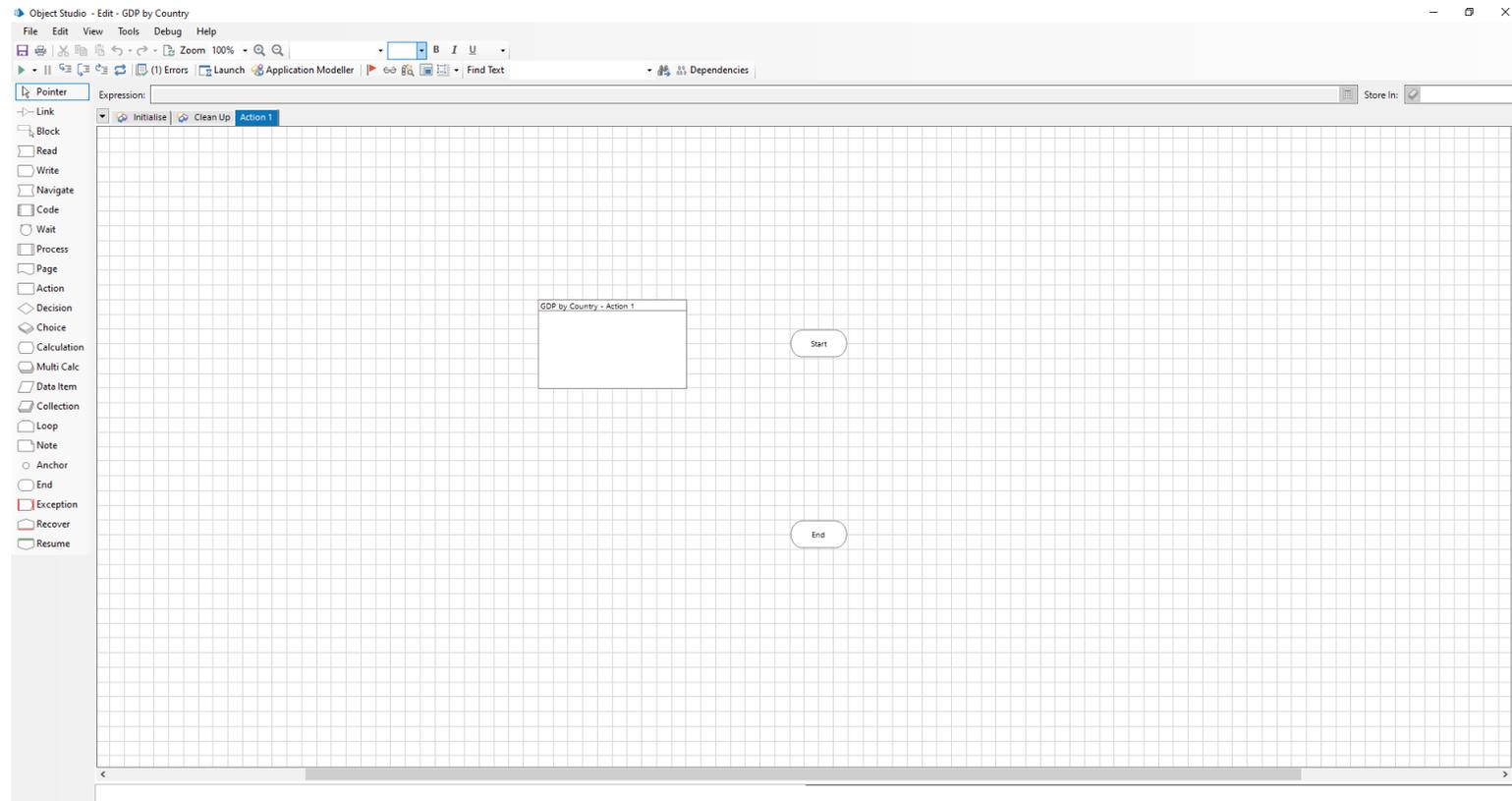
SECTION 3.3

*The Launch
Action in Business
Object*

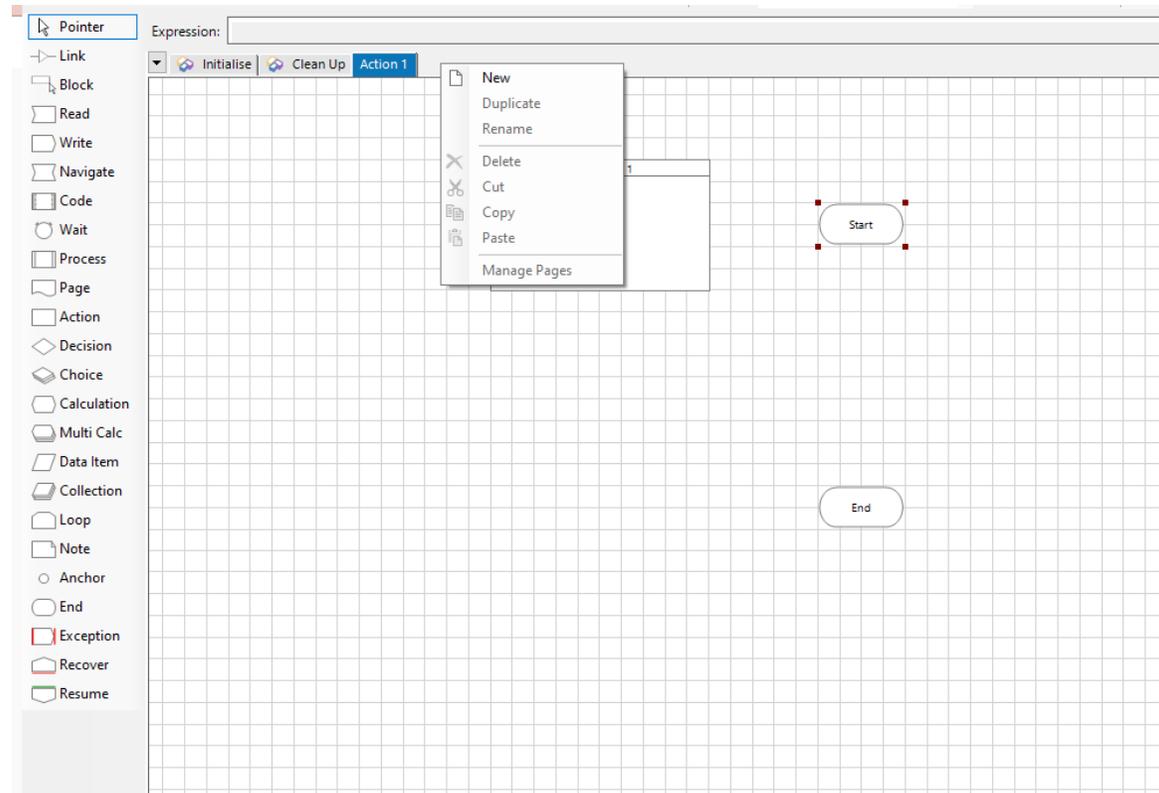
THE LAUNCH ACTION IN BUSINESS OBJECTS

1. Navigate to the main Business Objects page
2. Rename the “Action 1” page to “Launch WorldOMeters page”
3. Create and Configure the “Navigate” tool
4. Create and Configure the “Wait” tool
5. Create and Configure the “Exception” tool

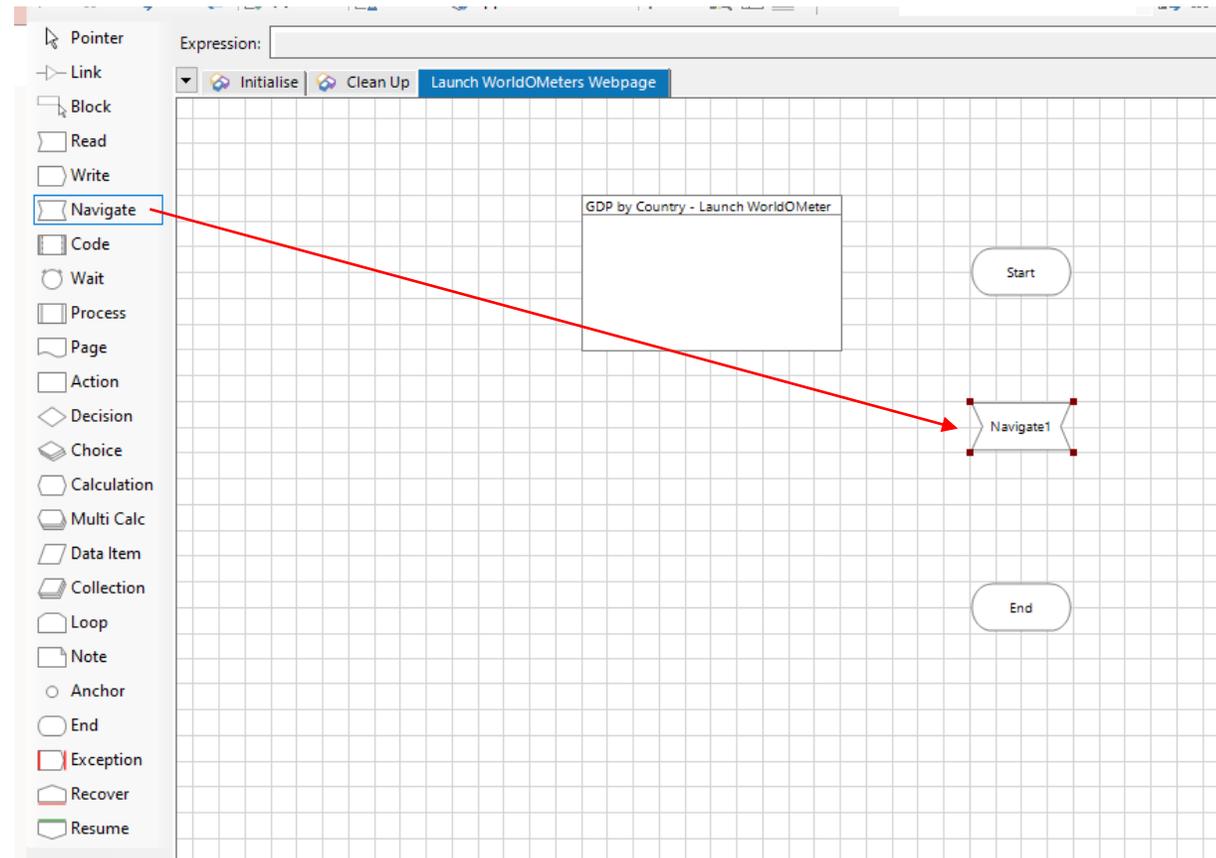
NAVIGATE TO THE MAIN BUSINESS OBJECTS PAGE



RENAME THE “ACTION 1” PAGE TO “LAUNCH WORLDOMETERS PAGE”



ADD A NAVIGATION TOOL TO THE PAGE



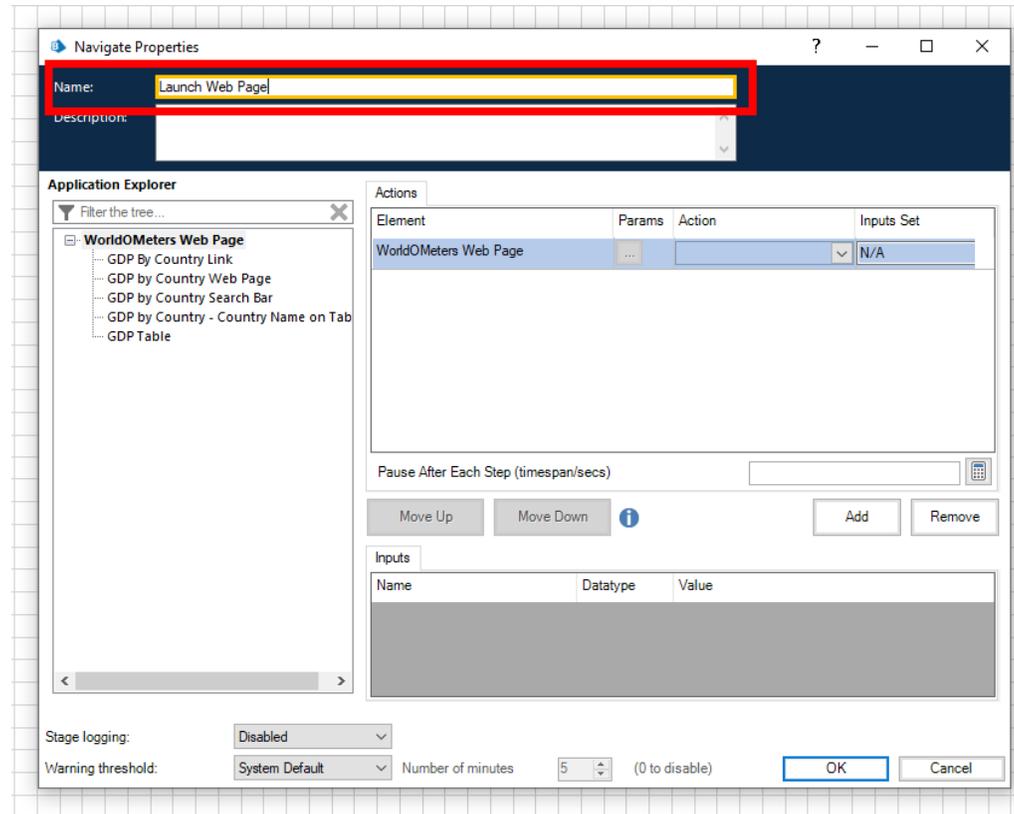
SECTION
3.3.1

*Create and
Configure the
“Navigate” tool*

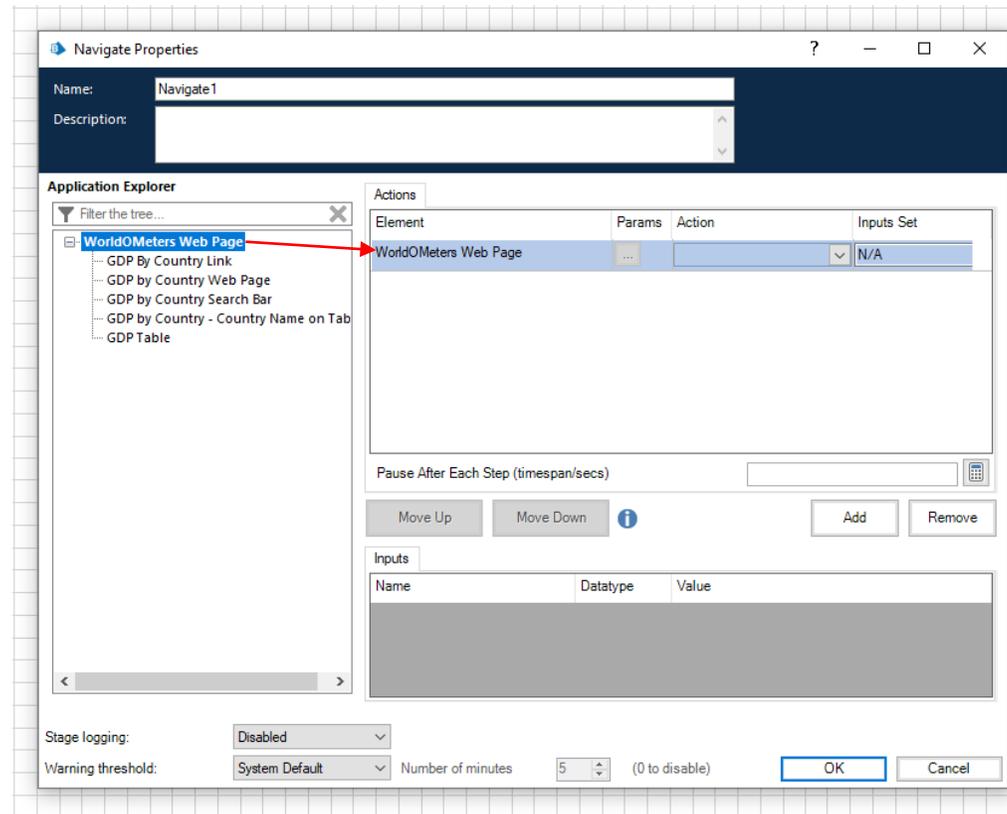
CREATE AND CONFIGURE THE “NAVIGATE” TOOL

1. Double click the “Navigate” Tool to open the “Navigate Properties”
2. Rename the Navigate Properties tool bar to “Launch Web Page”
3. Drag the “WorldOMeter web page” from the Applications Explorer to the Actions Element window
4. Select the “Actions” drop down menu and select the “Launch” action

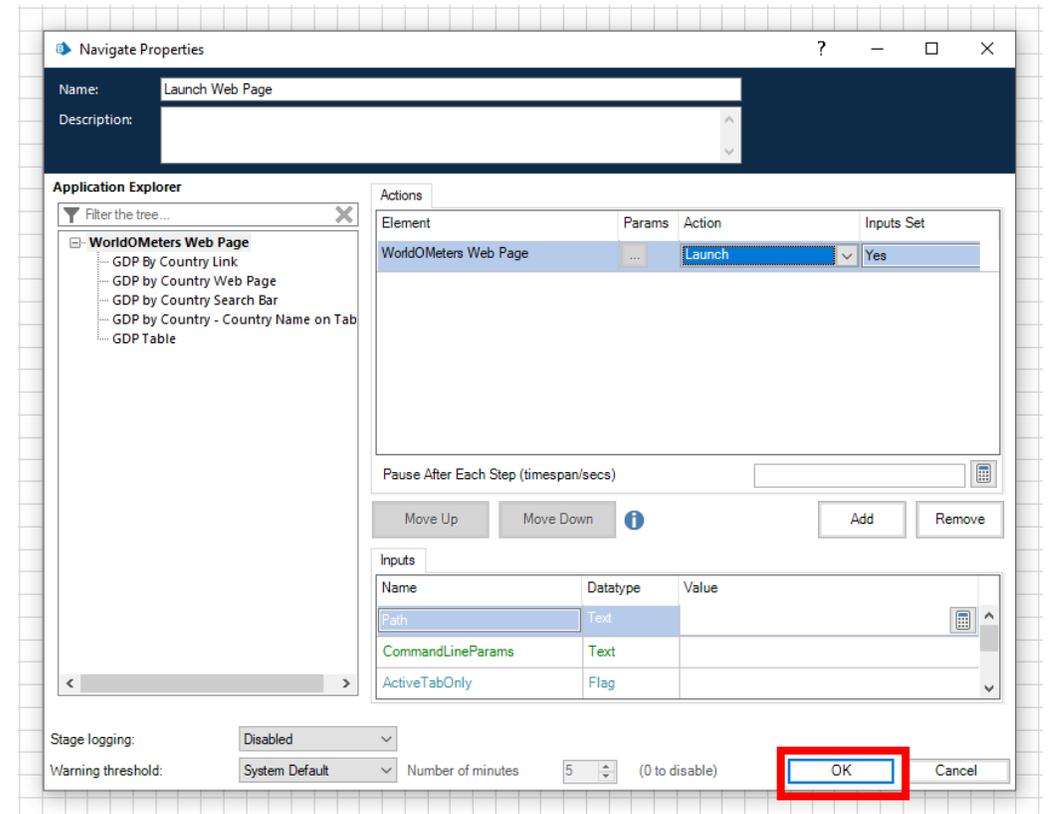
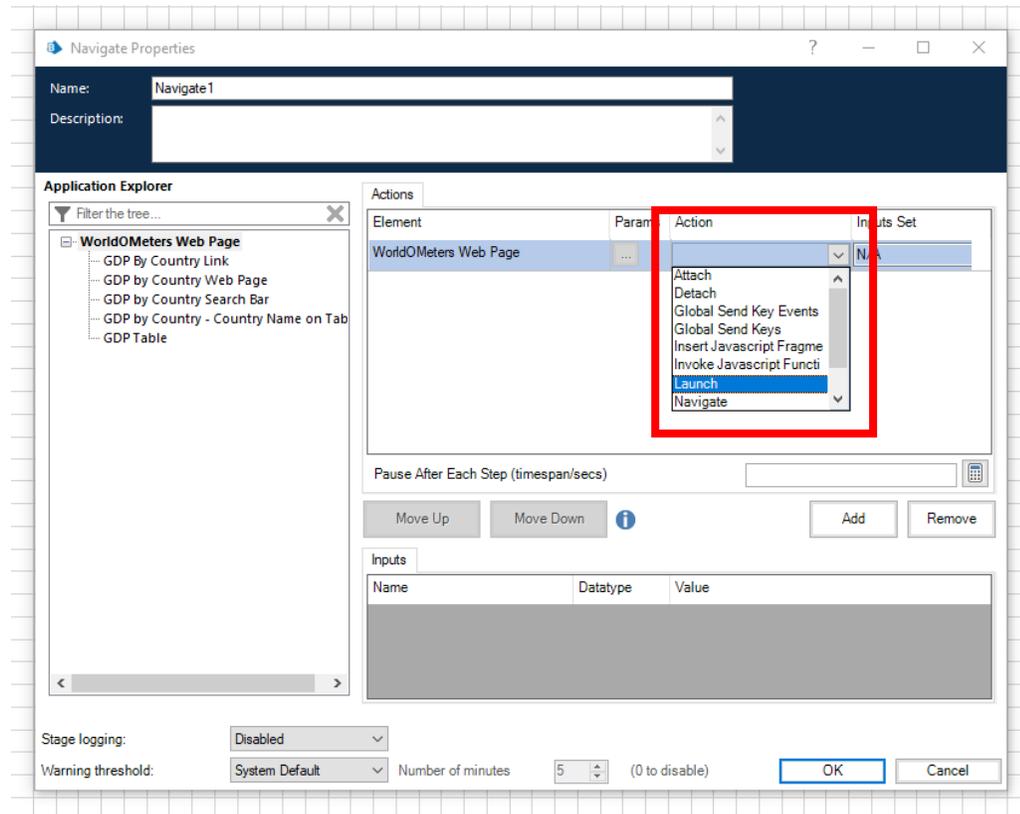
RENAME THE NAVIGATE PROPERTIES TOOL BAR TO “LAUNCH WEB PAGE”



DRAG THE “WORLDOMETER WEB PAGE”
FROM THE APPLICATIONS EXPLORER TO THE
ACTIONS ELEMENT WINDOW



SELECT THE “ACTIONS” DROP DOWN MENU AND SELECT THE “LAUNCH” ACTION



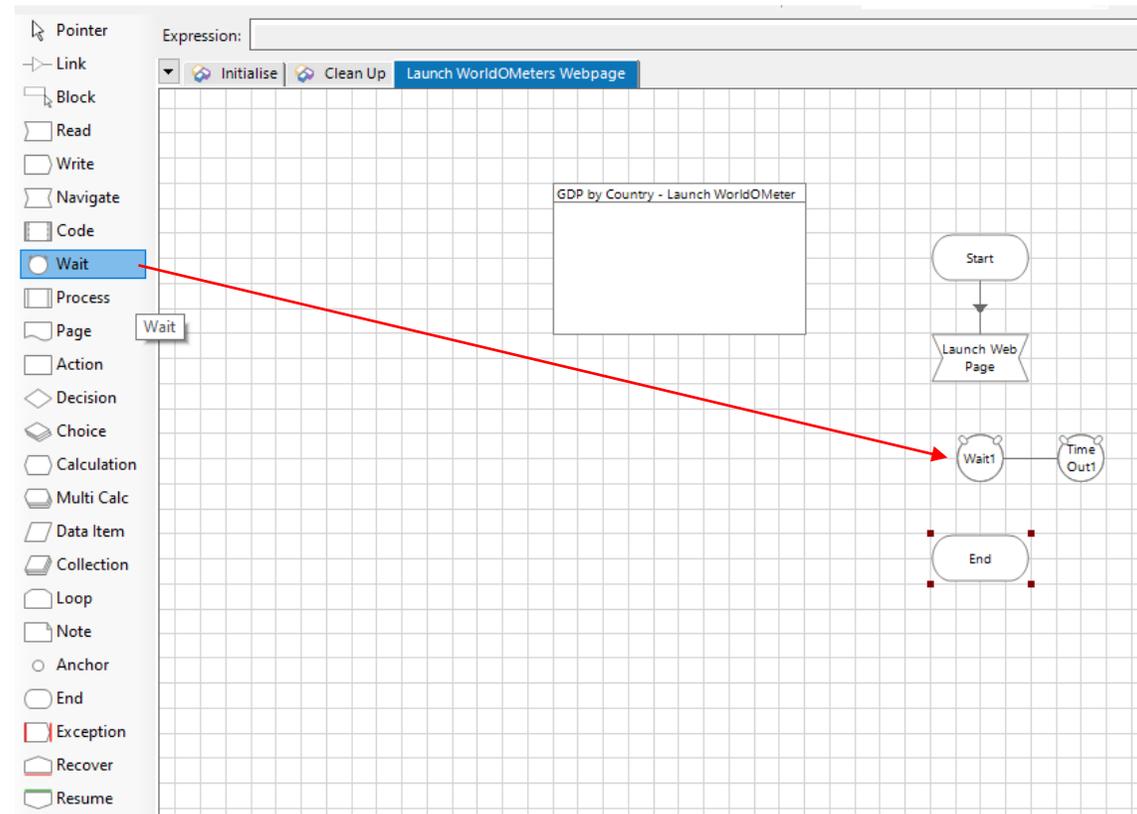
SECTION
3.3.2

*Create and
Configure the
“Wait” tool*

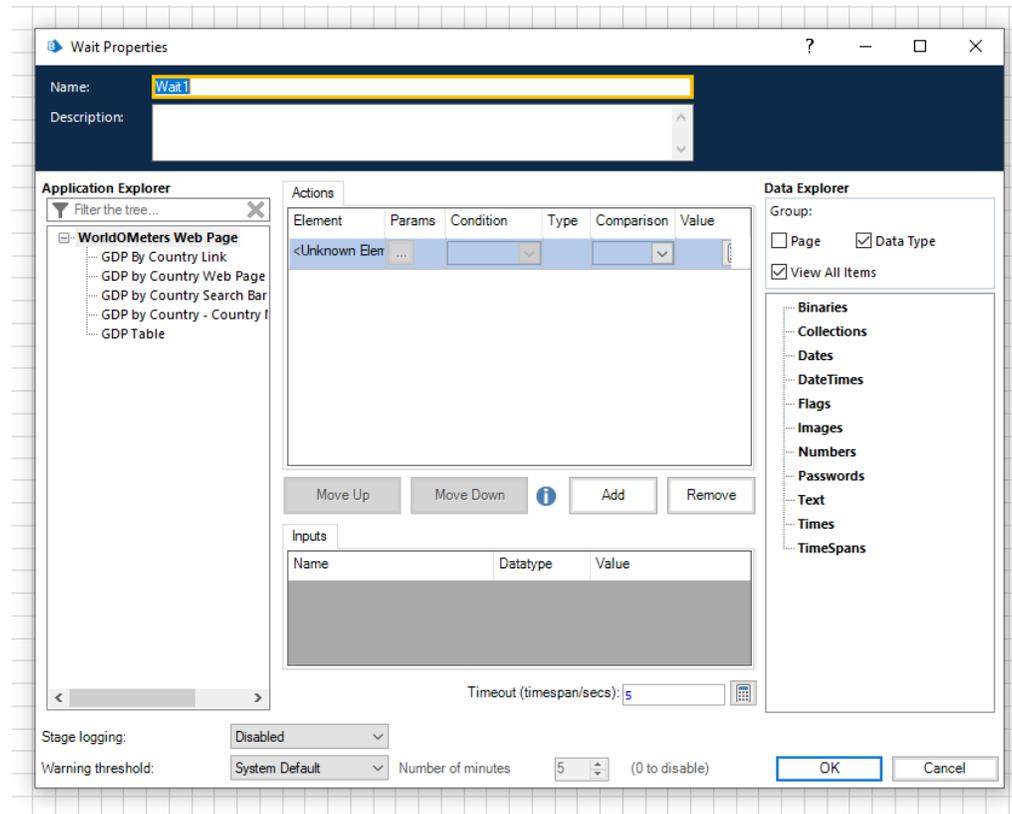
CREATE AND CONFIGURE THE “WAIT” TOOL

1. Use the “Wait” tool to validate that the webpage has been launched
2. Double click on the “Wait” tool to open the “Wait Properties”
3. Rename the “Wait 1” to “GDP by Country link exists”
4. Drag the “GDP by Country link” from the Applications Explorer to the Actions Element window
5. Select the “Conditions” drop down menu and select the “Check Exists” action

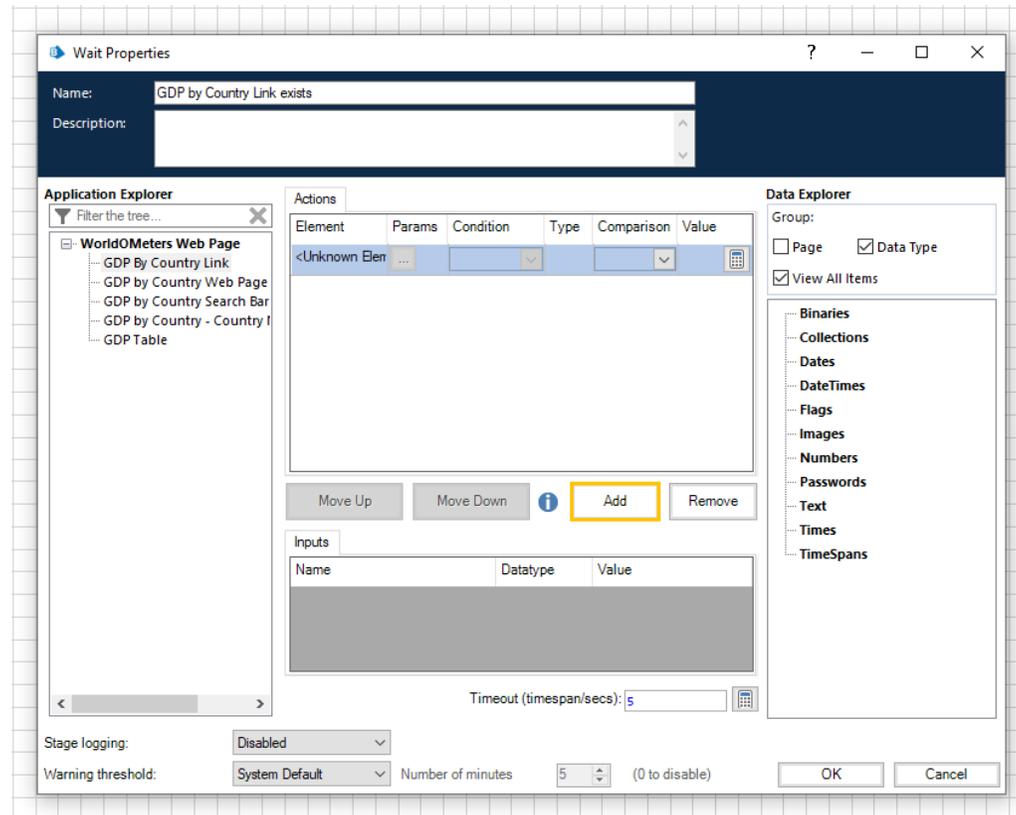
USE THE “WAIT” TOOL TO VALIDATE THAT THE WEBPAGE HAS BEEN LAUNCHED



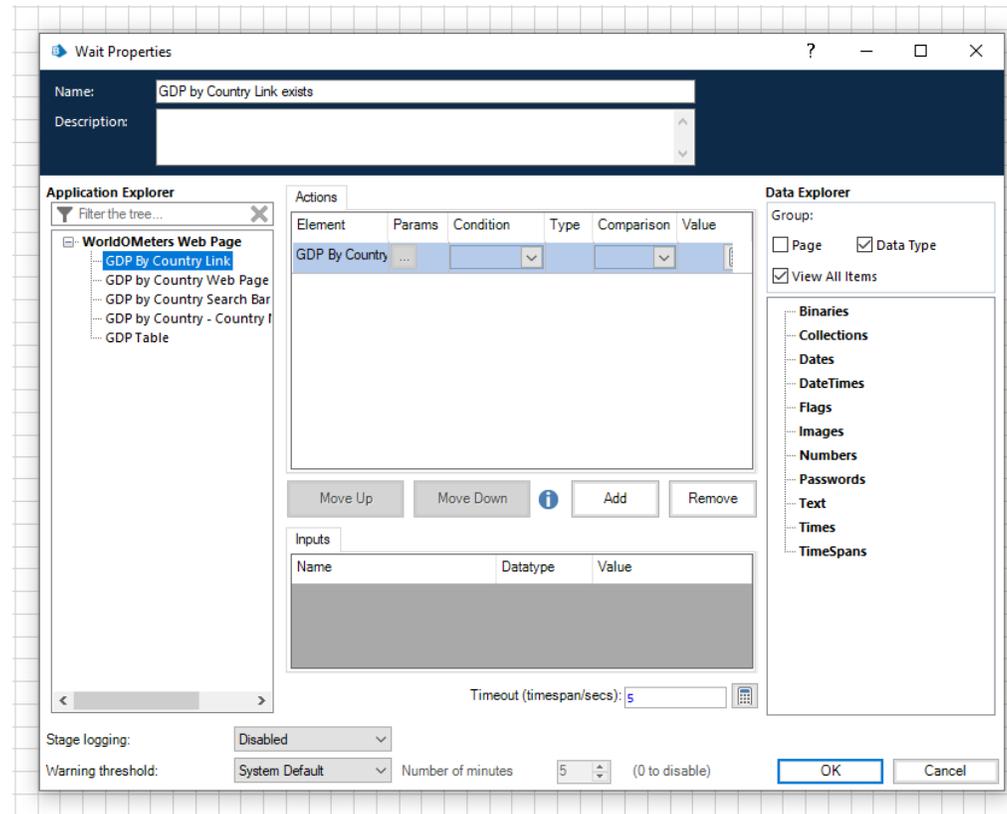
DOUBLE CLICK ON THE “WAIT” TOOL TO OPEN THE “WAIT PROPERTIES”



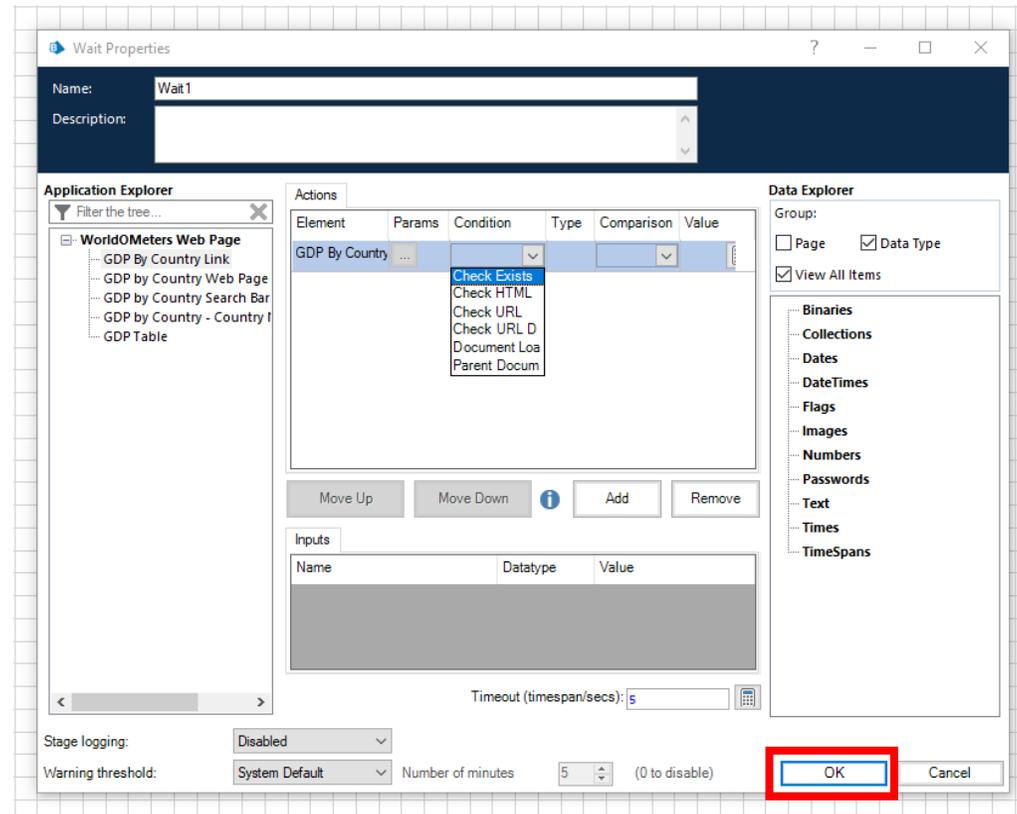
RENAME THE “WAIT 1” TO “GDP BY COUNTRY LINK EXISTS”



DRAG THE “WORLDOMETER WEB PAGE”
FROM THE APPLICATIONS EXPLORER TO THE
ACTIONS ELEMENT WINDOW



SELECT THE “CONDITIONS” DROP DOWN MENU AND SELECT THE “CHECK EXISTS” CONDITION



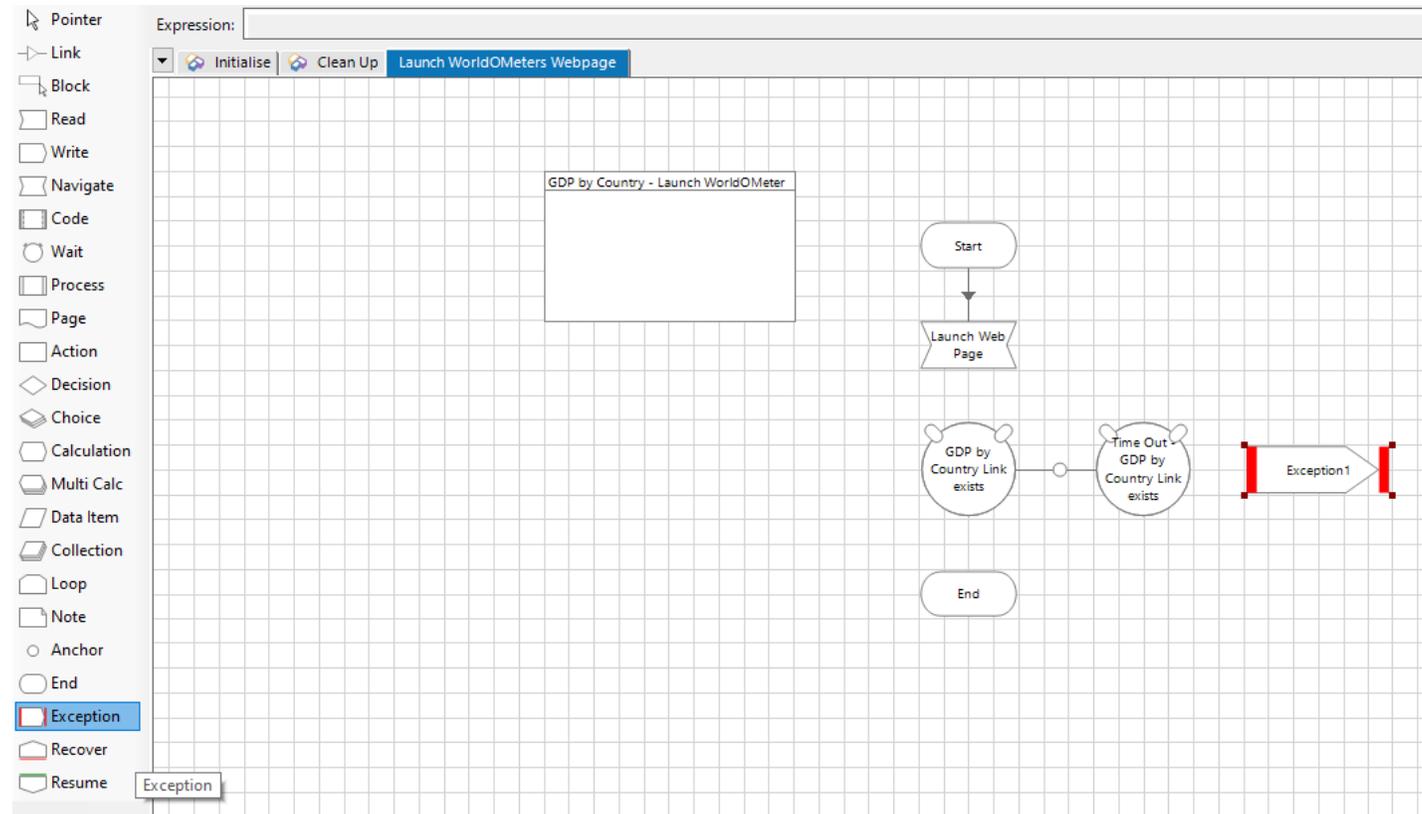
SECTION
3.3.3

*Create and
Configure the
“Exception” tool*

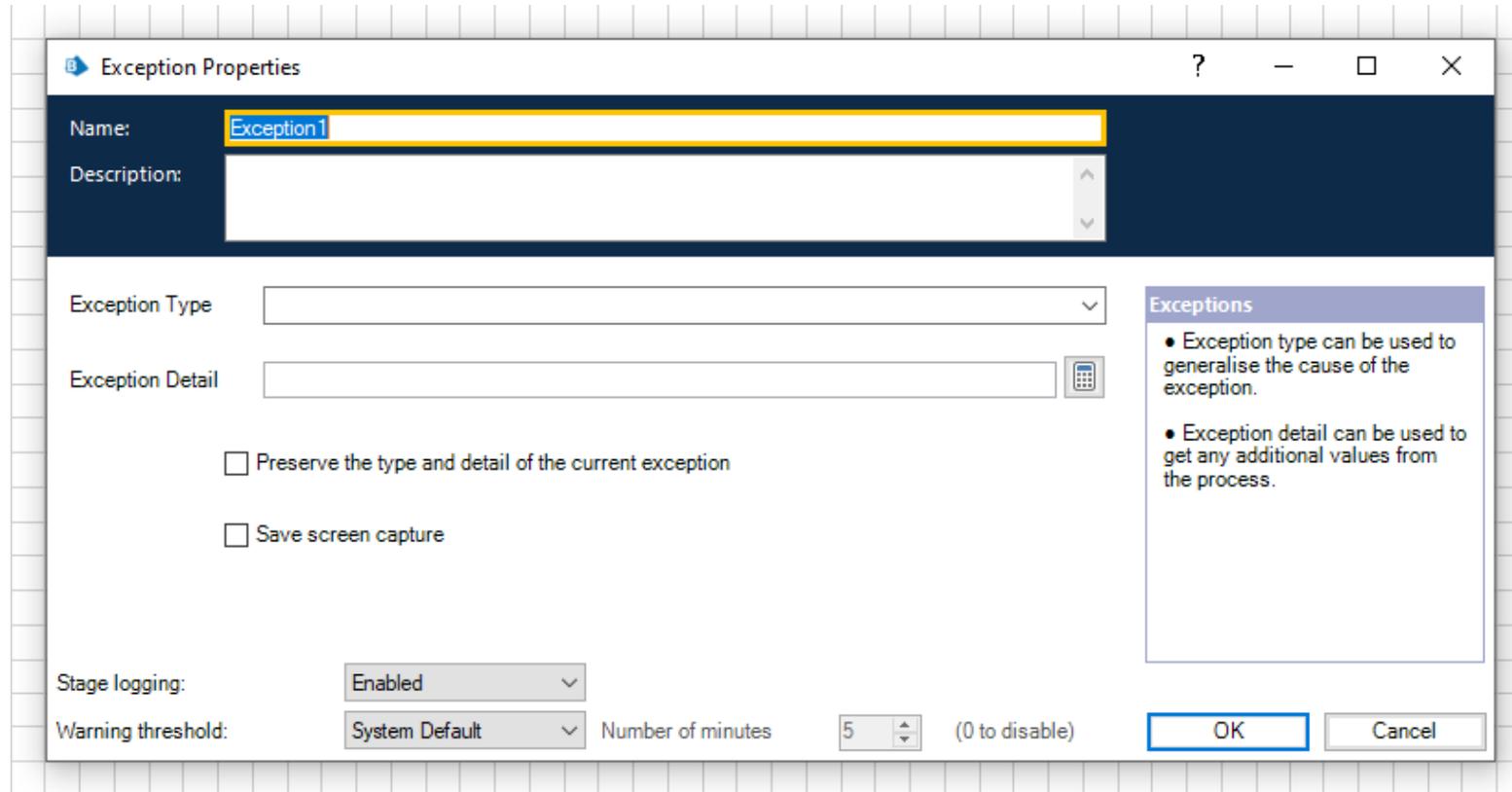
CREATE AND CONFIGURE THE “EXCEPTION” TOOL

1. Use the “Exception” tool to ensure that exceptions and errors are highlighted
2. Double click on the “Exception” tool to open the “Exception Properties”
3. Rename the “Exception 1” to “GDP by Country link does not exist”
4. Select the “Exception Type” drop down menu and select the “System Exception” type and repeat the “GDP by Country link does not exist” in Exception Detail
5. Link the stages together using the “Link” tool

USE THE “EXCEPTION” TOOL TO ENSURE THAT EXCEPTIONS AND ERRORS ARE HIGHLIGHTED



DOUBLE CLICK ON THE “EXCEPTION” TOOL
TO OPEN THE “EXCEPTION PROPERTIES”



RENAME THE “EXCEPTION 1” TO “GDP BY COUNTRY LINK DOES NOT EXIST”

Exception Properties

Name: GDP by Country link does not exist

Description:

Exception Type

Exception Detail

Preserve the type and detail of the current exception

Save screen capture

Stage logging: Enabled

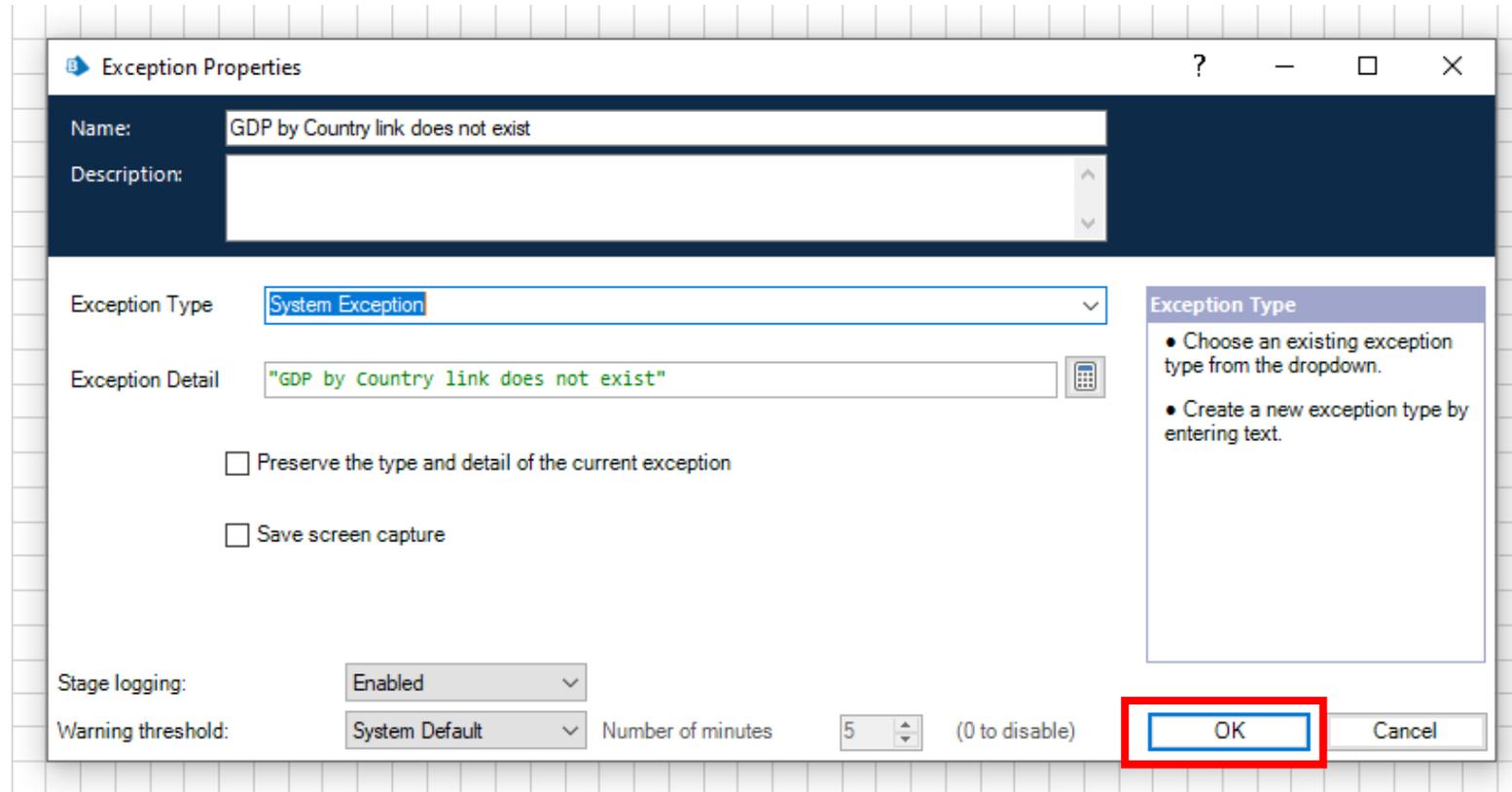
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

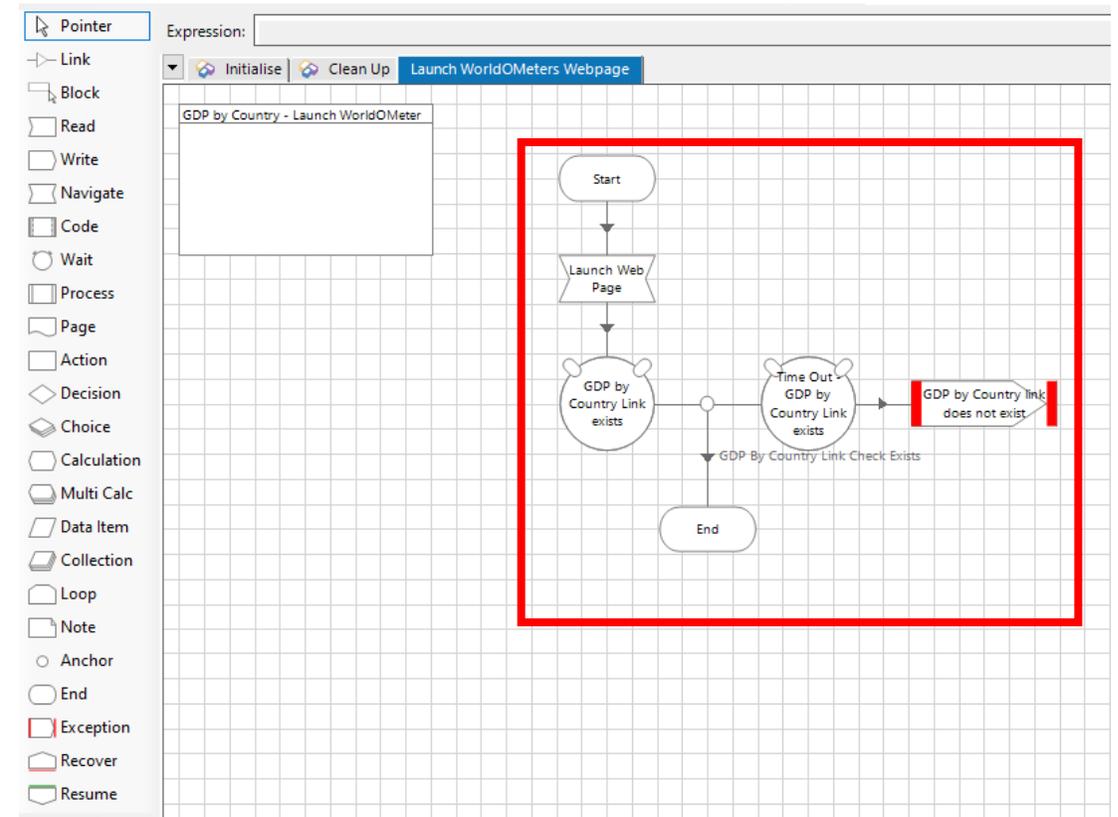
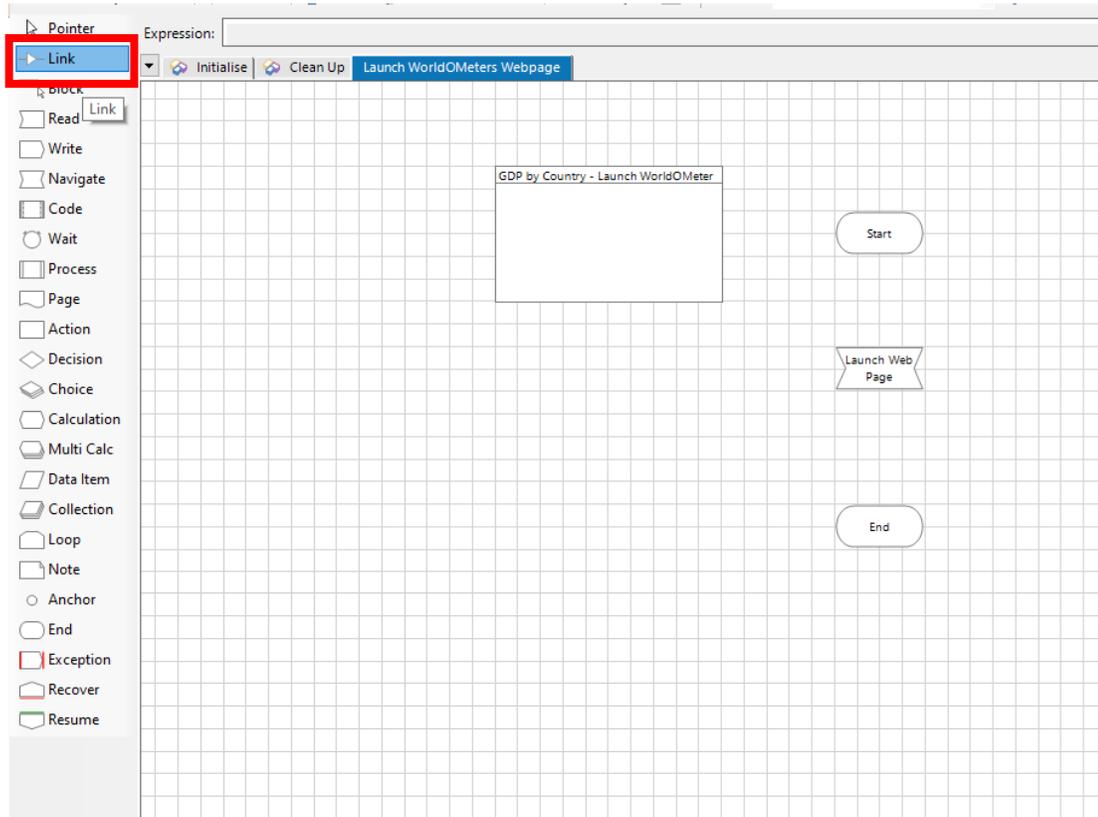
Exception Type

- Choose an existing exception type from the dropdown.
- Create a new exception type by entering text.

SELECT THE “EXCEPTION TYPE” DROP DOWN MENU AND SELECT THE “SYSTEM EXCEPTION” TYPE AND REPEAT THE “GDP BY COUNTRY LINK DOES NOT EXIST” IN EXCEPTION DETAIL



LINK THE STAGES TOGETHER USING THE “LINK” TOOL



SECTION 3.4.

*The Attach
Action in Business
Objects*

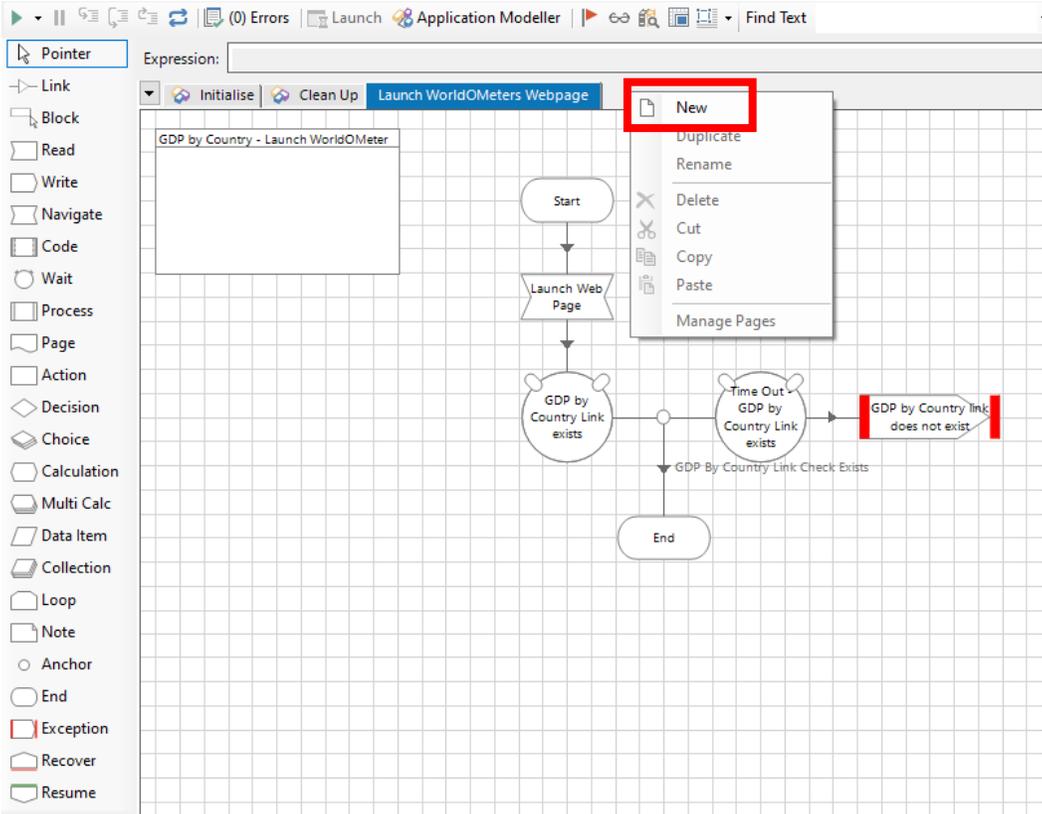
SECTION
3.4.1

*Using the “Read”
tool*

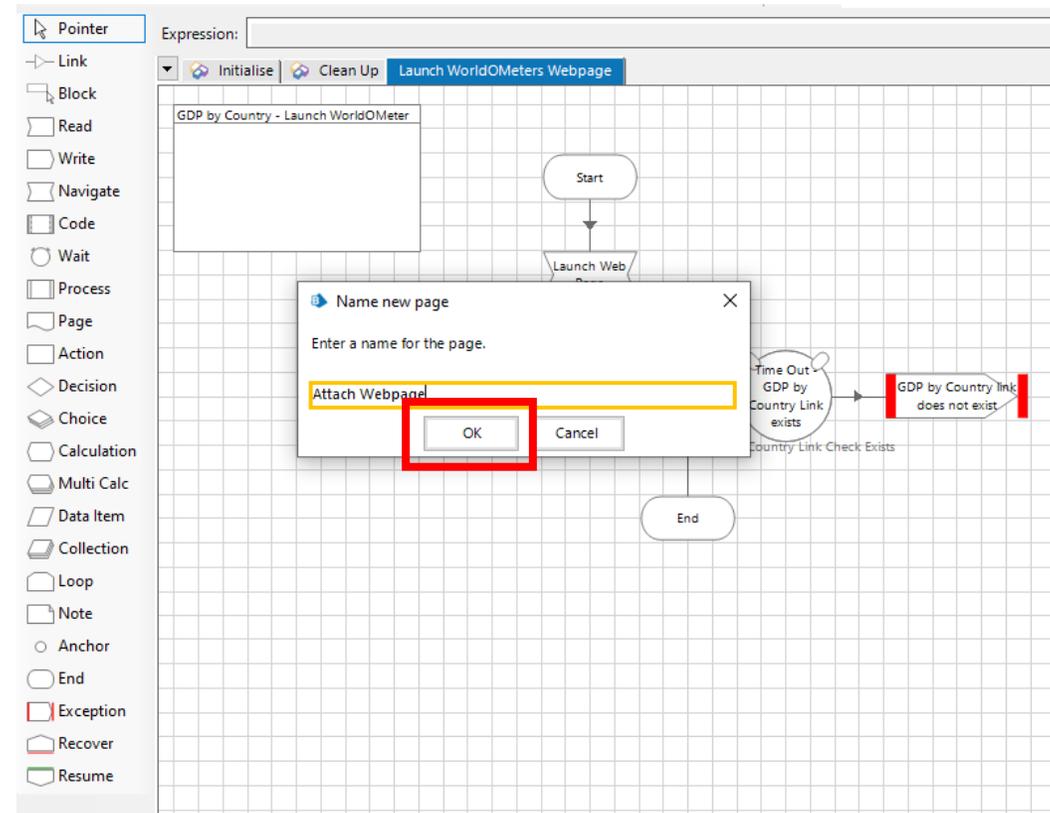
THE ATTACH ACTION IN BUSINESS OBJECTS

1. In the Pages section, right click to open the pages menu and select “New”
2. Name the new page “Attach Webpage”
3. Add a “Read” tool to the page
4. Double click on the “Read” tool to open the “Read Properties”
5. Rename the “Reader 1” to “Read if Web Page is Connected”
6. Drag the “WorldOMeter web page” from the Applications Explorer to the Actions Element window
7. Select the “Data” drop down menu and select the “Is Connected” attribute
8. In the “Store In” option, select the icon to create a “Value From” Data tool.
9. Add a “Decision” tool to validate whether the webpage is connected or not

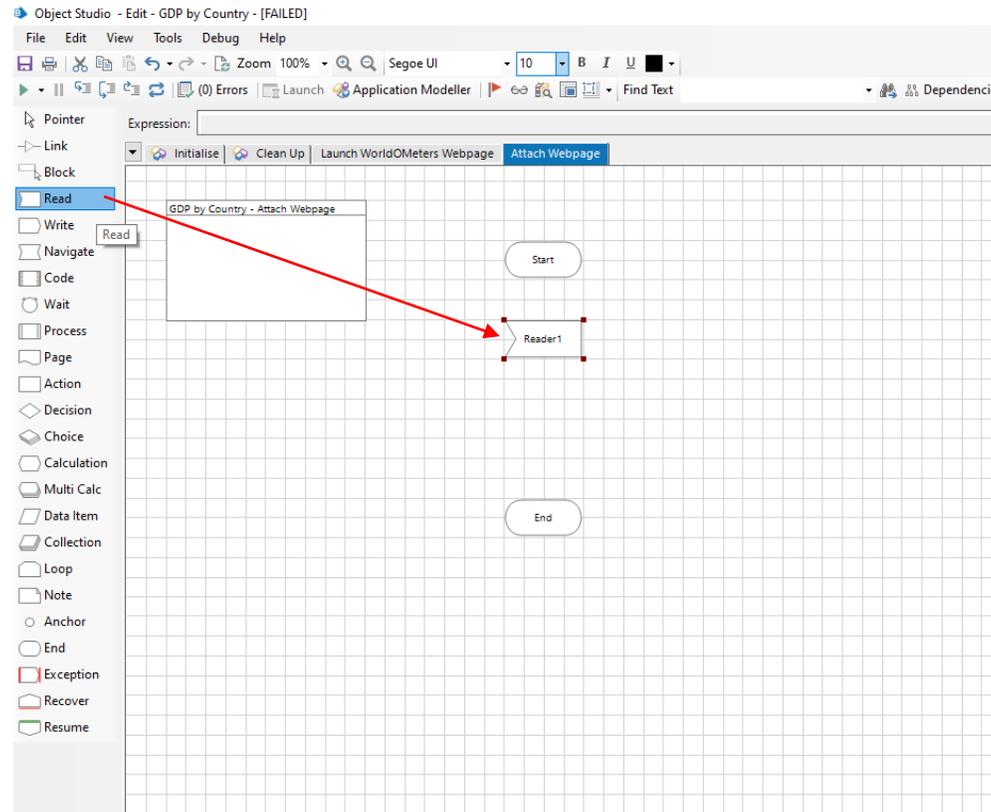
IN THE PAGES SECTION, RIGHT CLICK TO OPEN THE PAGES MENU AND SELECT “NEW”



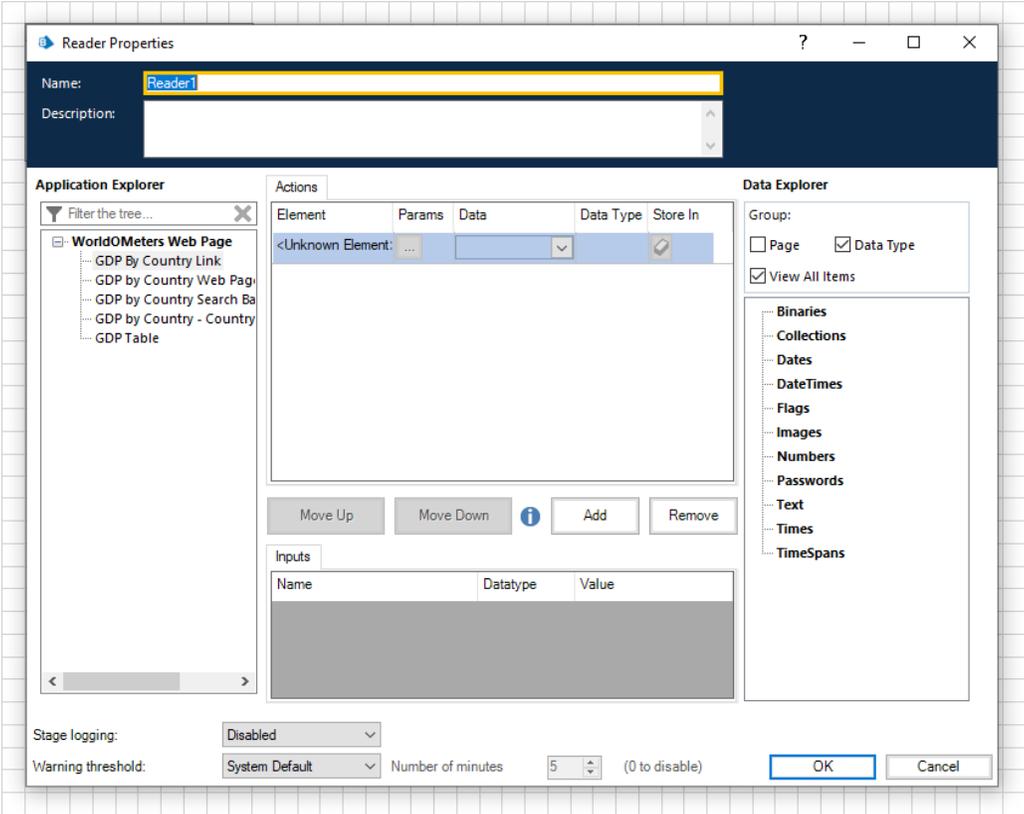
NAME THE NEW PAGE “ATTACH WEBPAGE”



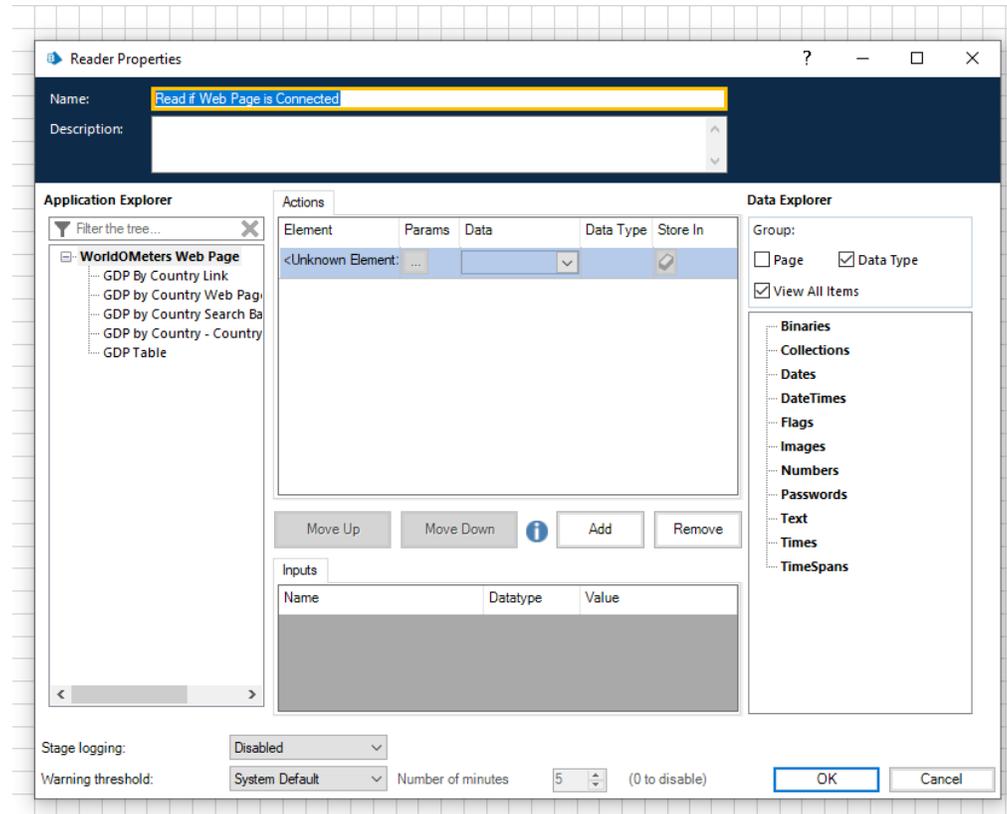
ADD A “READ” TOOL TO THE PAGE



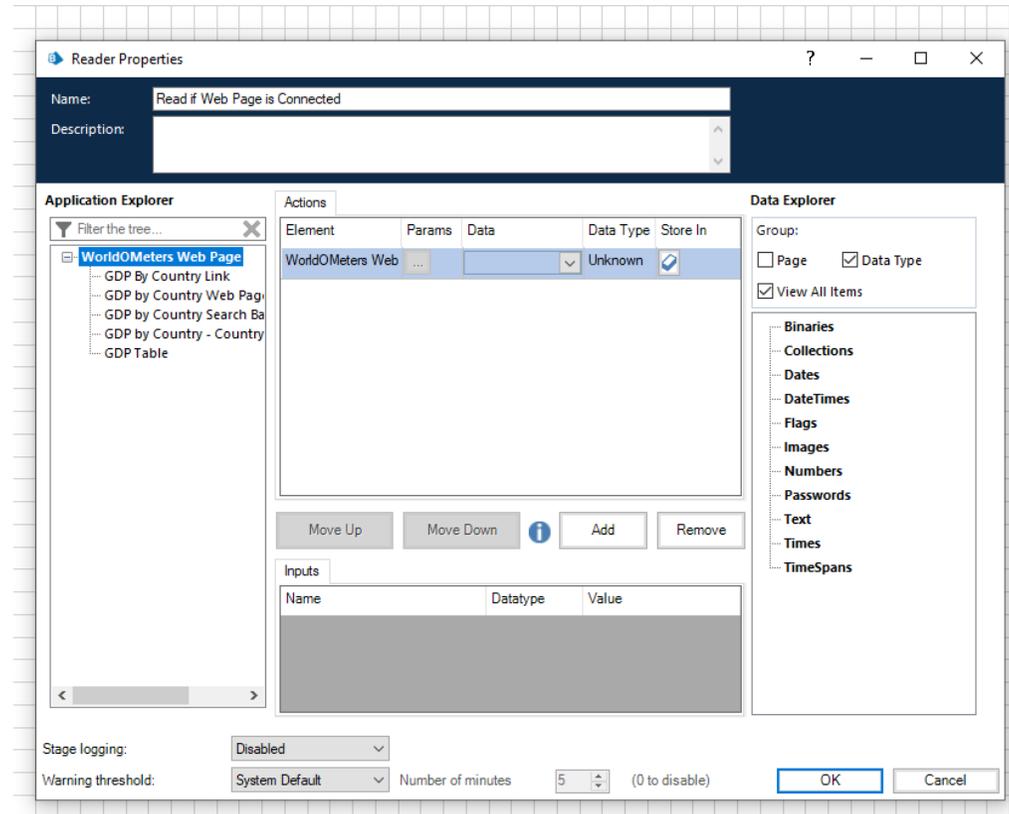
DOUBLE CLICK ON THE “READ” TOOL TO OPEN THE “READ PROPERTIES”



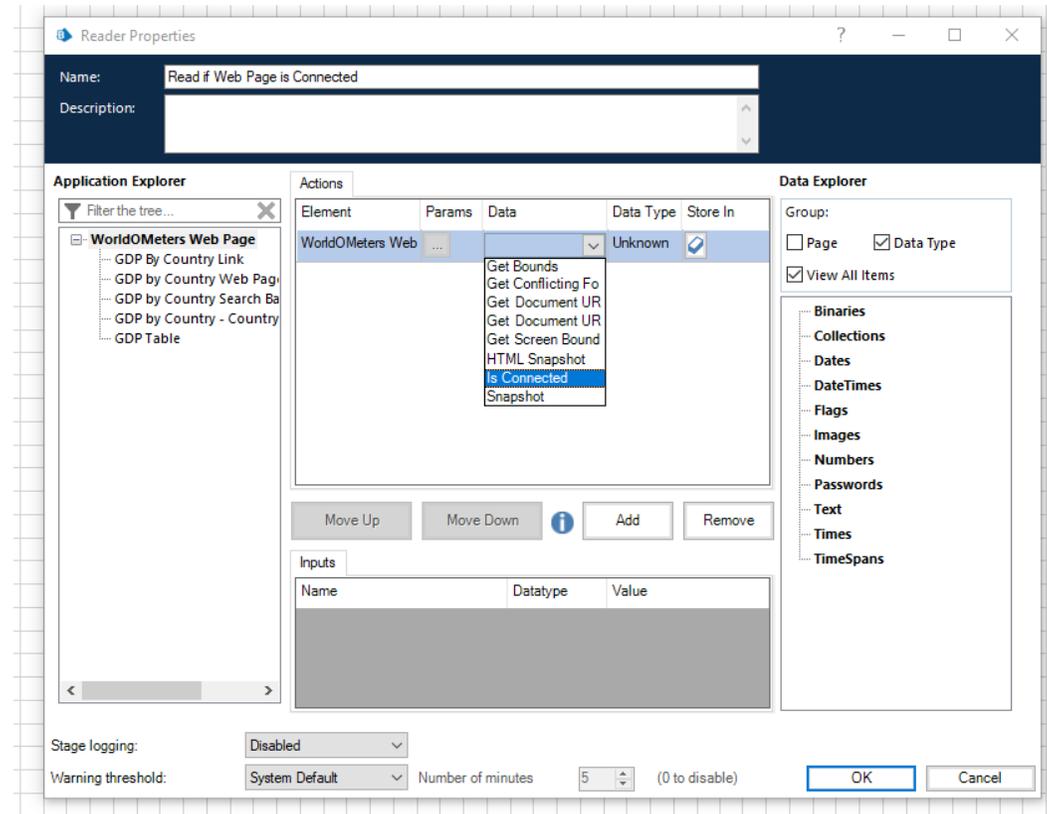
RENAME THE “READER 1” TO “READ IF WEB PAGE IS CONNECTED”



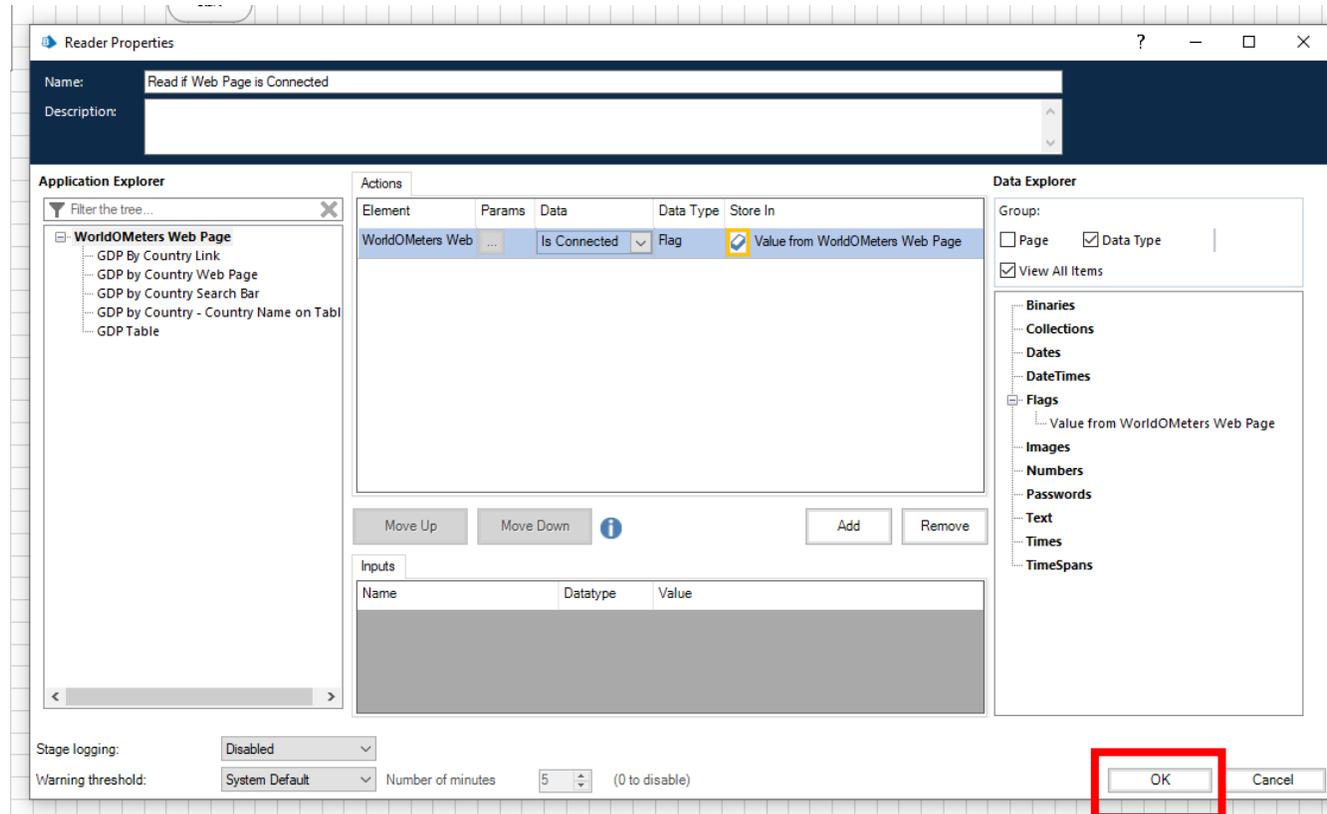
DRAG THE “WORLDOMETER WEB PAGE”
FROM THE APPLICATIONS EXPLORER TO THE
ACTIONS ELEMENT WINDOW



SELECT THE “DATA” DROP DOWN MENU AND
SELECT THE “IS CONNECTED” ATTRIBUTE



IN THE “STORE IN” OPTION, SELECT THE LITTLE  ICON TO CREATE A “VALUE FROM” DATA TOOL.



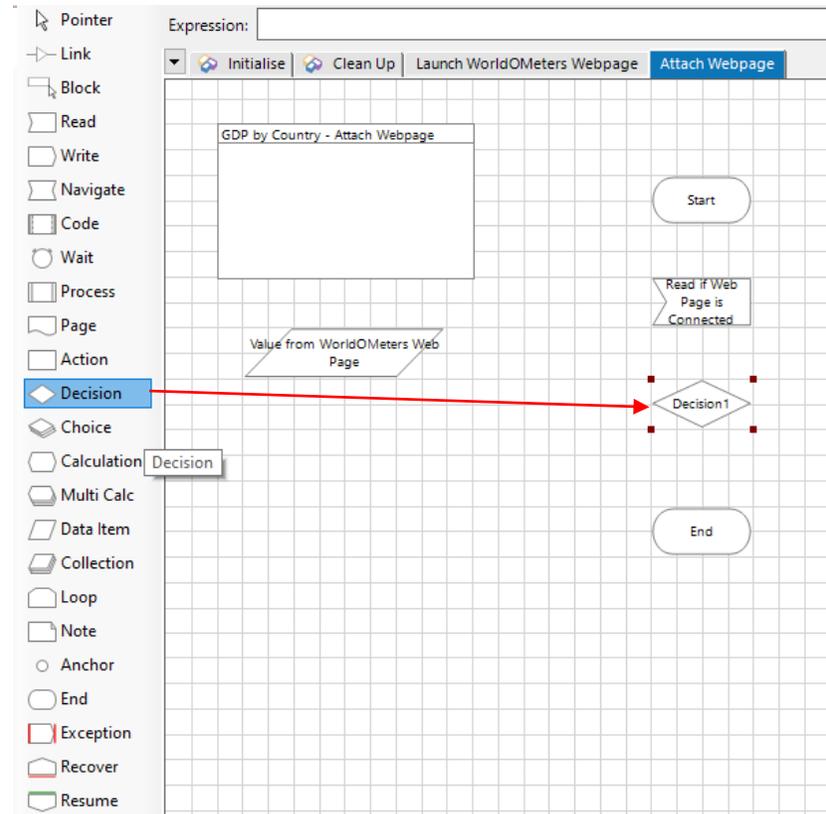
SECTION
3.4.2

*Using the
“Decision” tool*

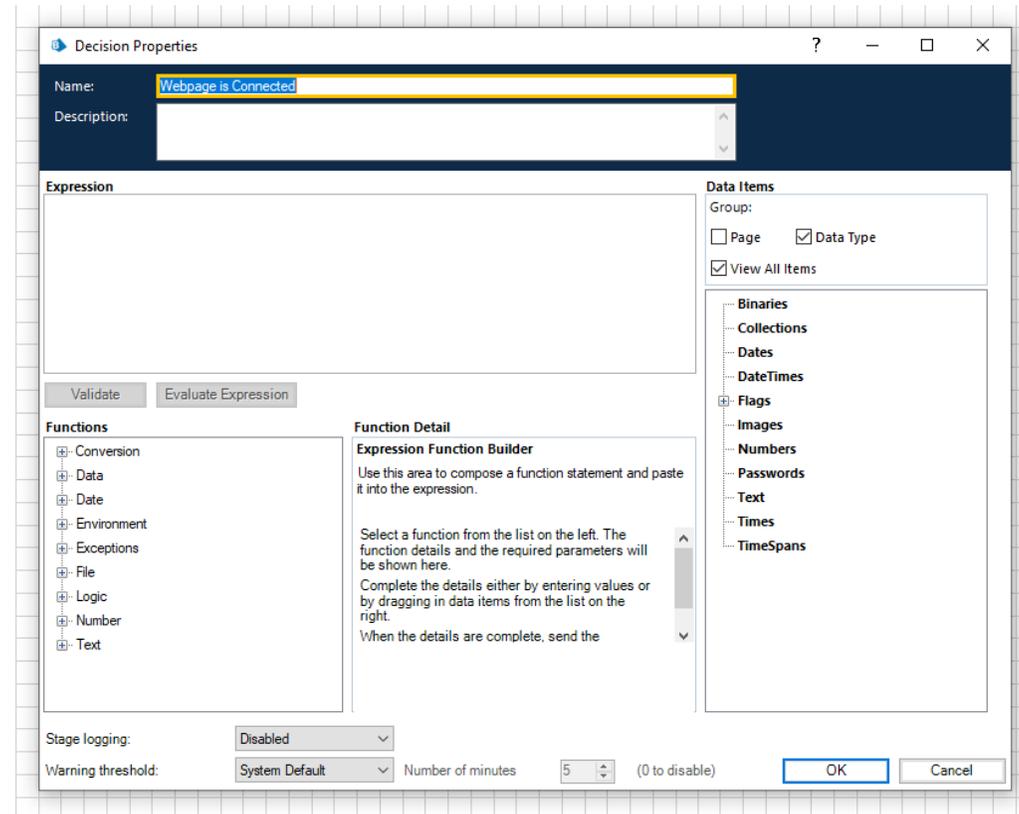
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Add a “Decision” tool to validate whether the webpage is connected or not
2. Double click on the “Decision” tool to open the “Decision Properties”
3. Rename the “Decision 1” to “Web Page is Connected”
4. Drag the “Value from WordOMeters Web Page” Data Flag
5. Add a “Notes” tool and “Navigate” tool to the page
6. Add an “Anchor” tool to help link the “Navigate” tool to the “End”
7. Link all the stages from Start to End, ensure that the Decision stage “Yes” goes to notes, and “No” goes to the Navigate panel.

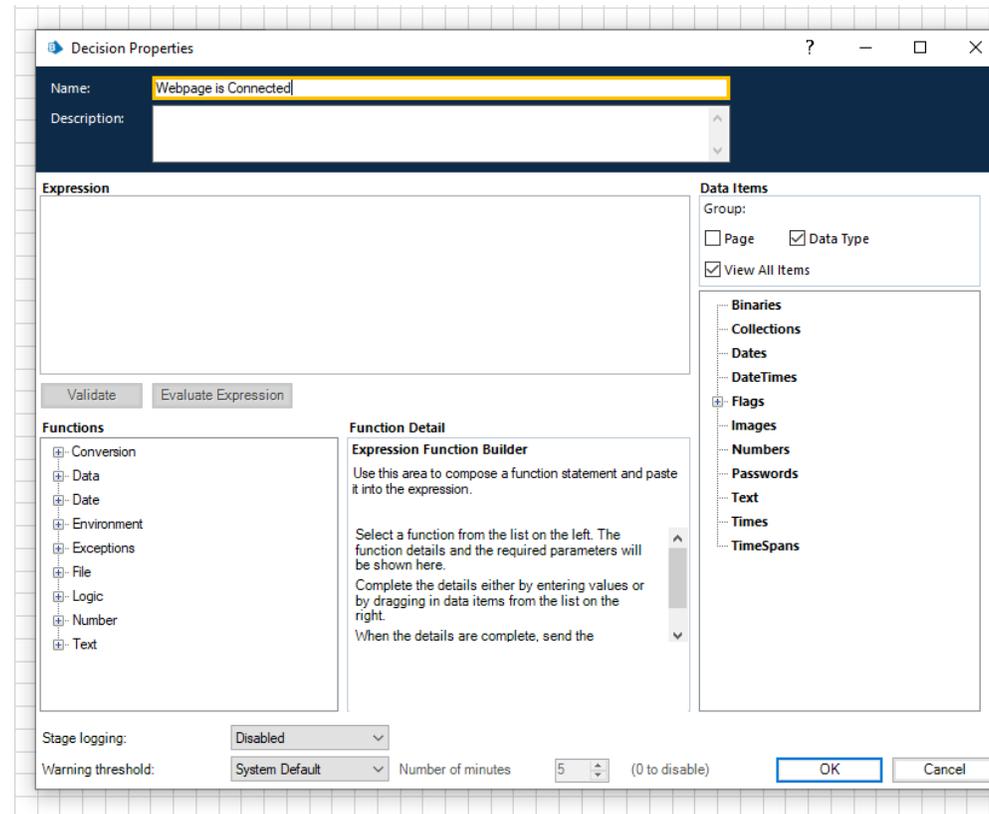
ADD A “DECISION” TOOL TO VALIDATE WHETHER THE WEBPAGE IS CONNECTED OR NOT



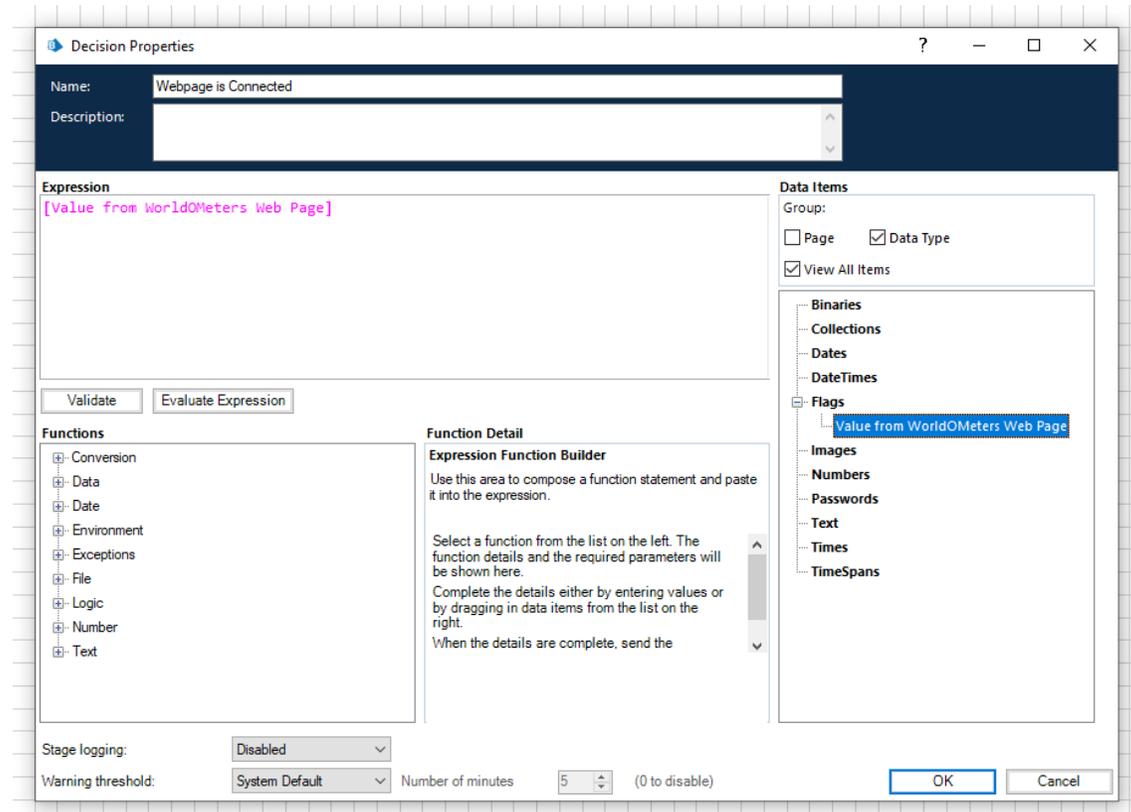
DOUBLE CLICK ON THE “DECISION” TOOL
TO OPEN THE “DECISION PROPERTIES”



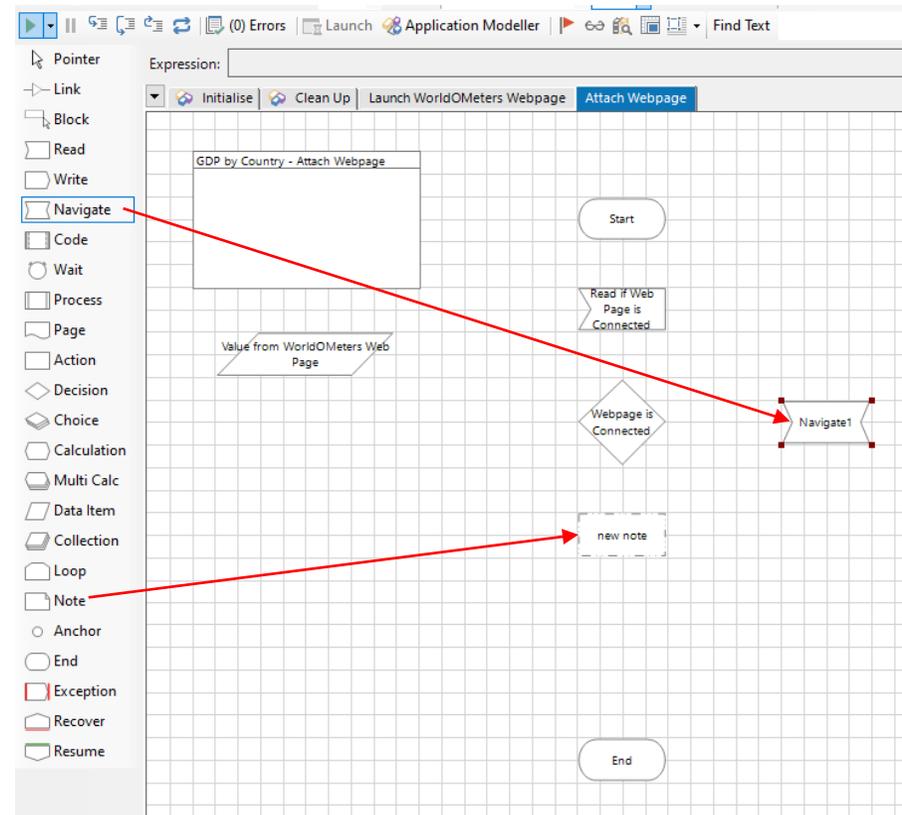
RENAME THE “DECISION 1” TO “WEB PAGE IS CONNECTED”



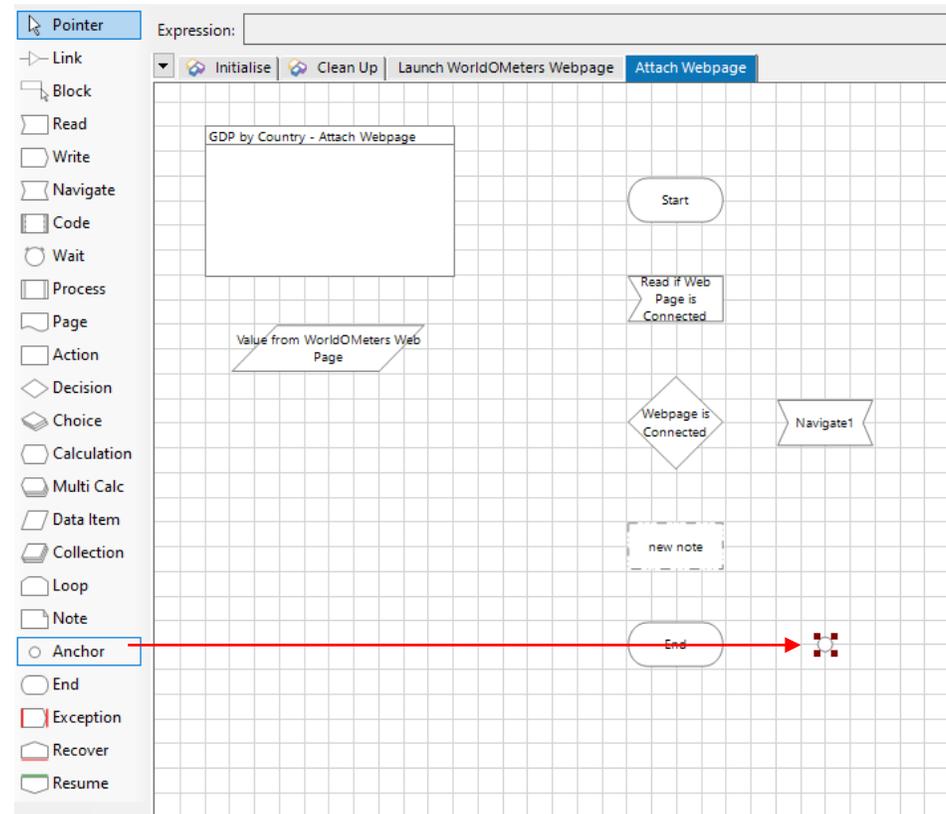
DRAG THE “VALUE FROM WORDOMETERS WEB PAGE” DATA FLAG



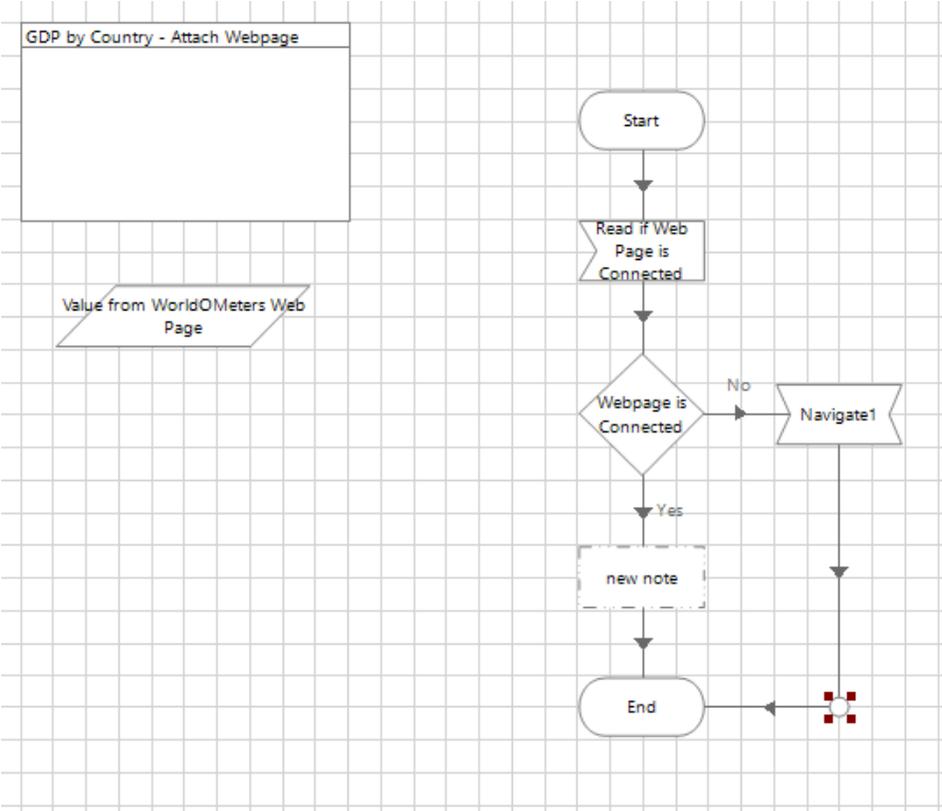
ADD A “NOTES” TOOL AND “NAVIGATE” TOOL TO THE PAGE



ADD AN “ANCHOR” TOOL TO HELP LINK THE “NAVIGATE” TOOL TO THE “END”



LINK ALL THE STAGES FROM START TO END



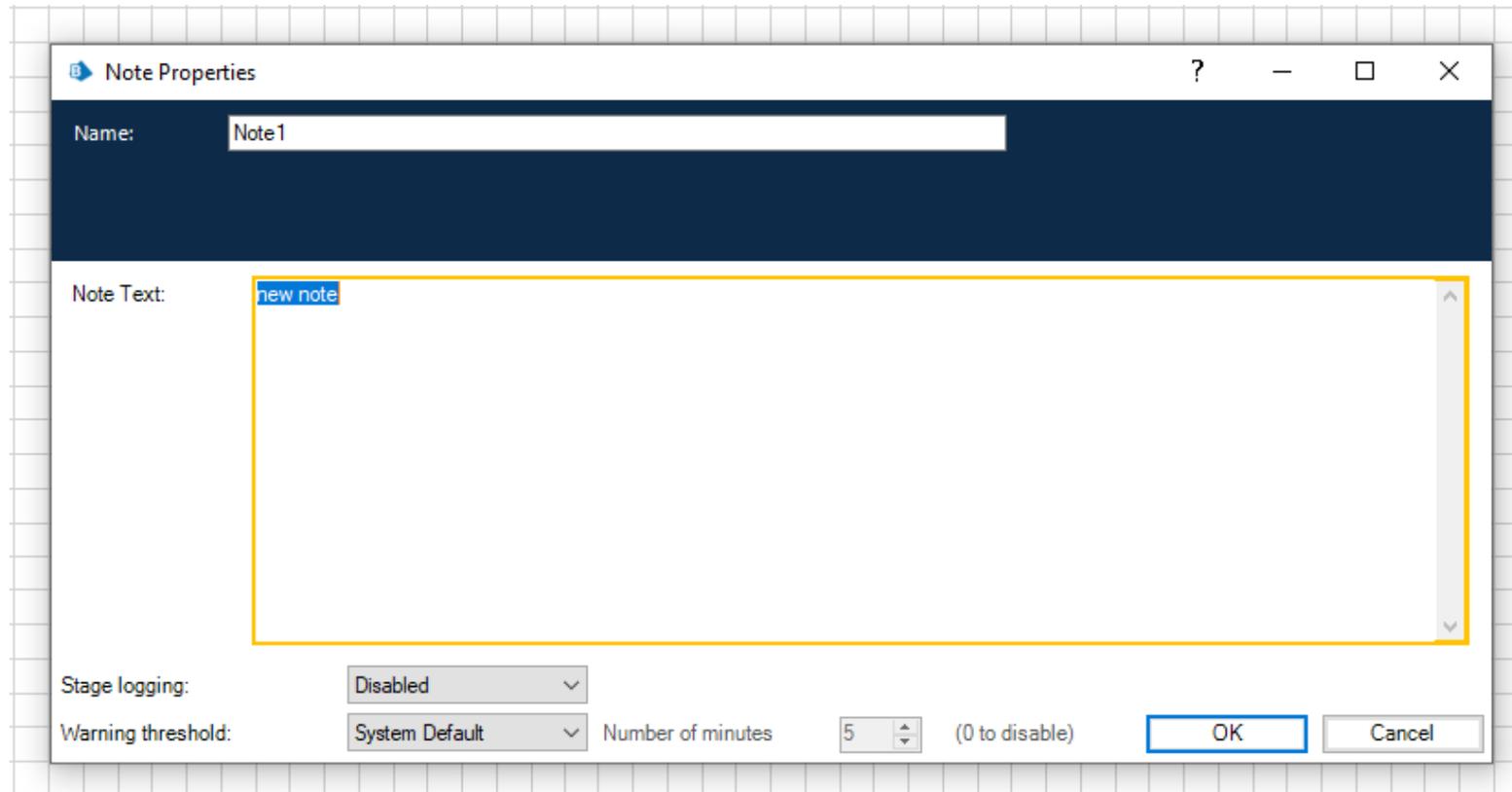
SECTION
3.4.3

*Using the “Notes”
tool*

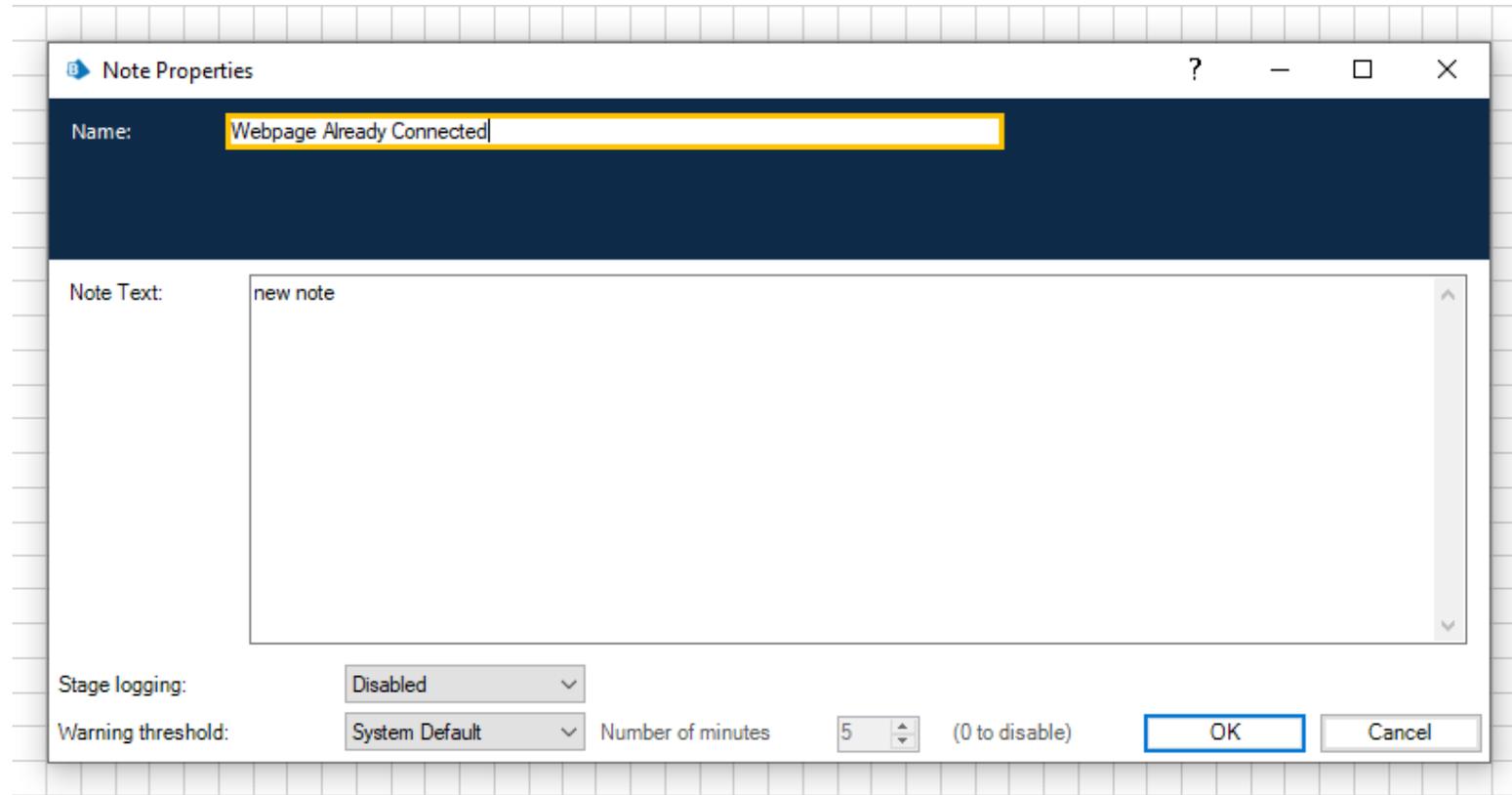
THE NOTES ACTION IN BUSINESS OBJECTS

1. Double click on the “Notes” tool to open the “Notes Properties”
2. Rename the “Note 1” to “Web Page already Connected”
3. Add a note text describing what the note indicates

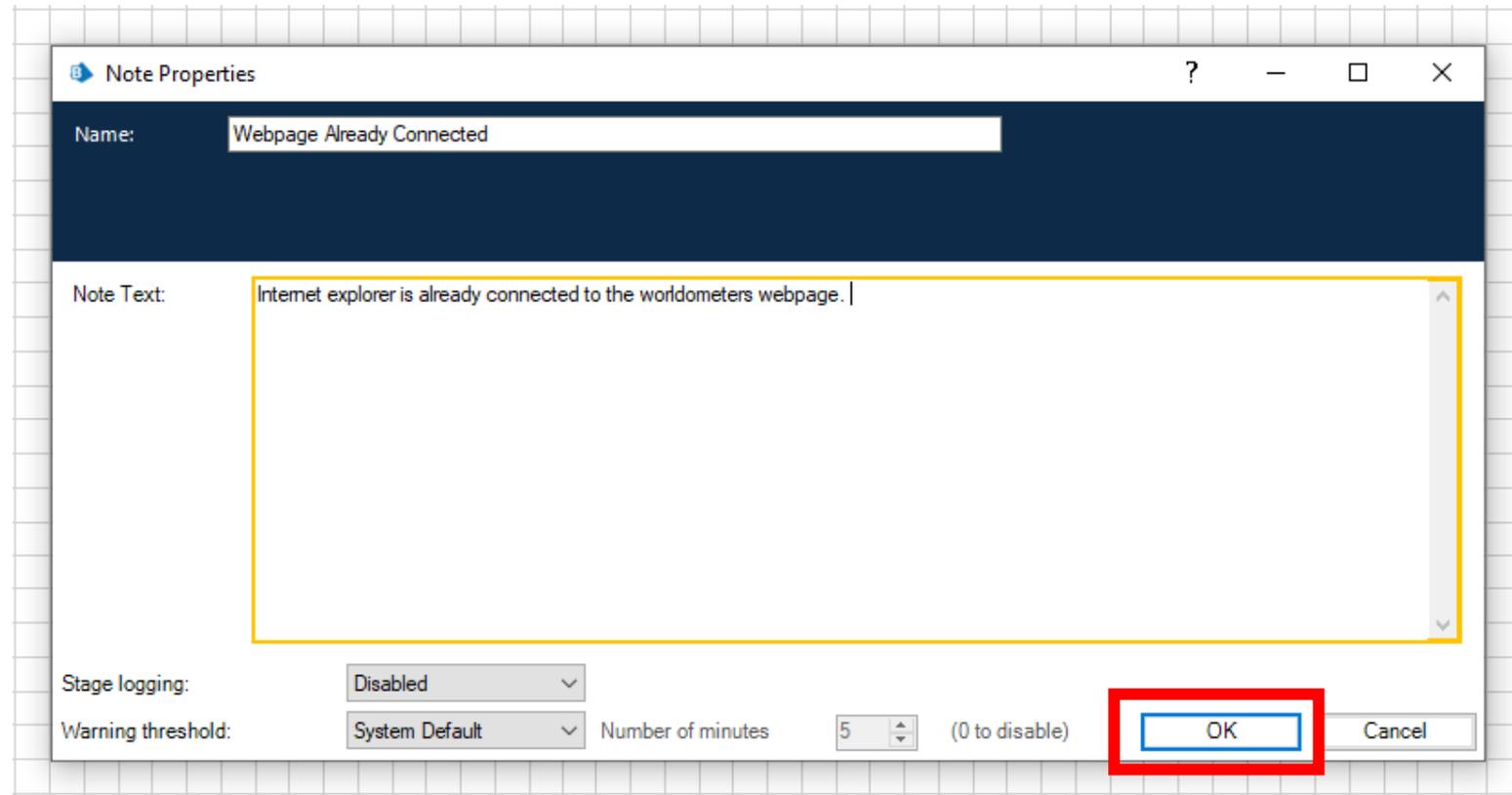
DOUBLE CLICK ON THE “NOTES” TOOL
TO OPEN THE “NOTES PROPERTIES”



RENAME THE “NOTE 1” TO “WEB PAGE ALREADY CONNECTED”



ADD A NOTE TEXT DESCRIBING WHAT THE NOTE INDICATES



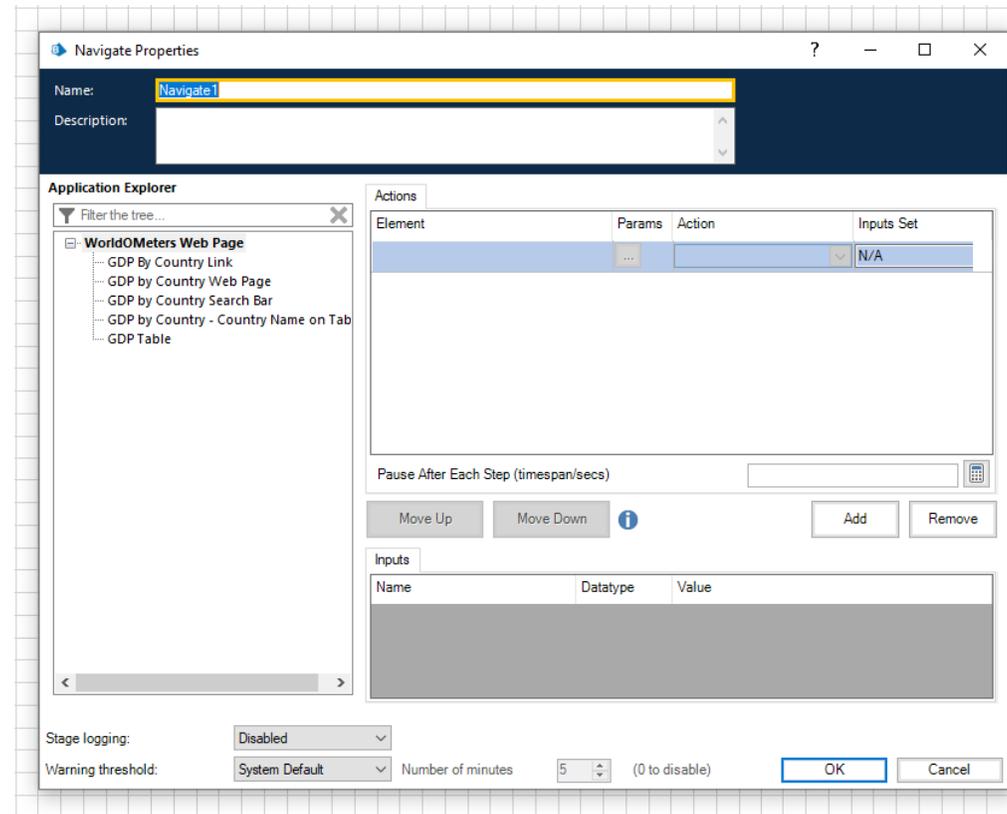
SECTION
3.4.4

*Using the
“Navigate” tool*

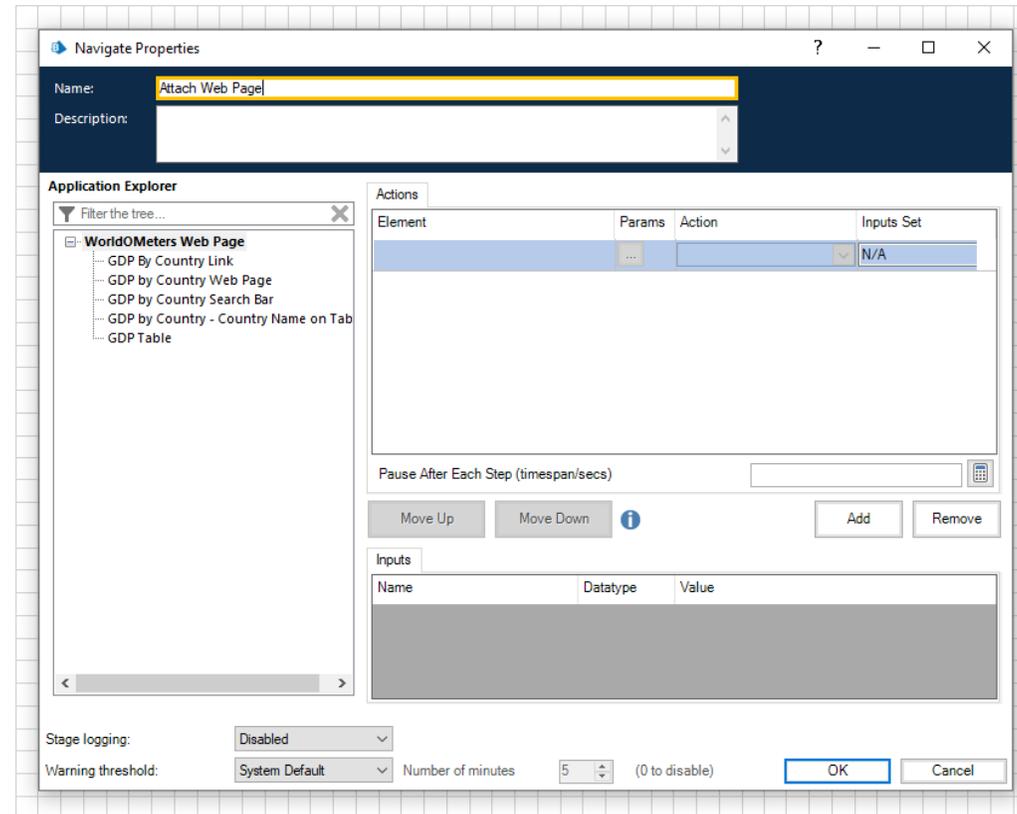
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Double click on the “Navigate” tool to open the “navigate Properties”
2. Rename the “Navigate 1” to “attach webpage”
3. Drag the “WorldOmers WEB PAGE” from the application explorer to the action elements
4. Select the action to “Attach”

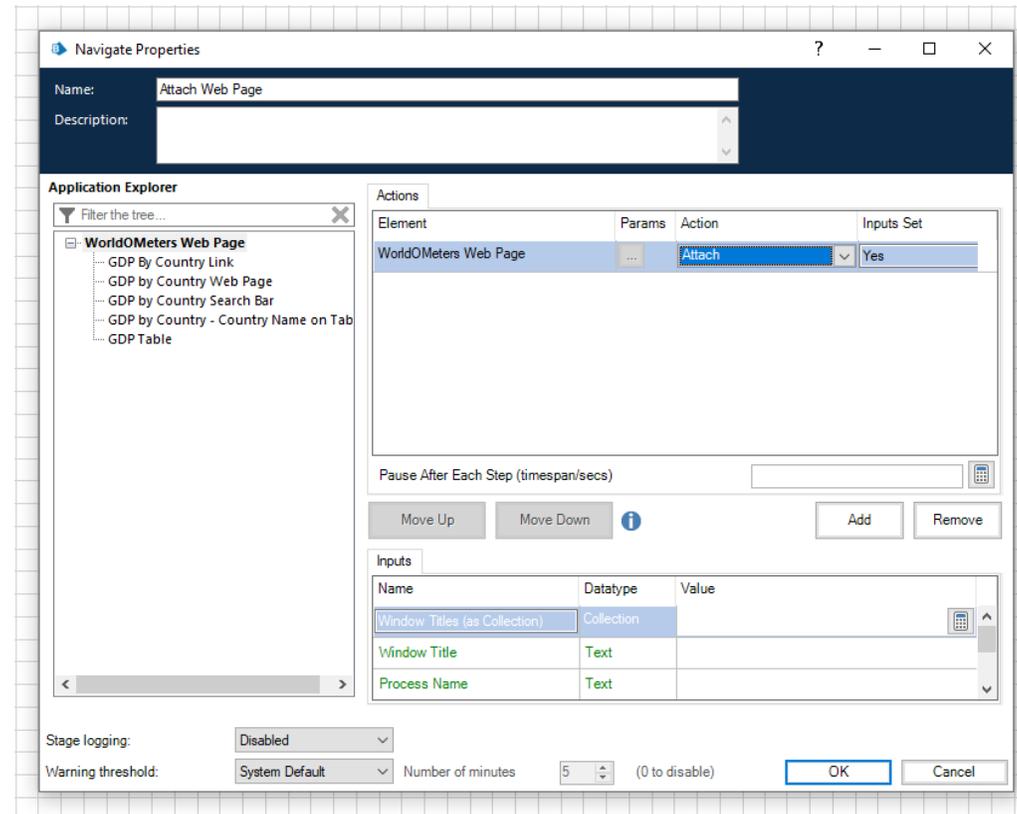
DOUBLE CLICK ON THE “NAVIGATE” TOOL
TO OPEN THE “NAVIGATE PROPERTIES”



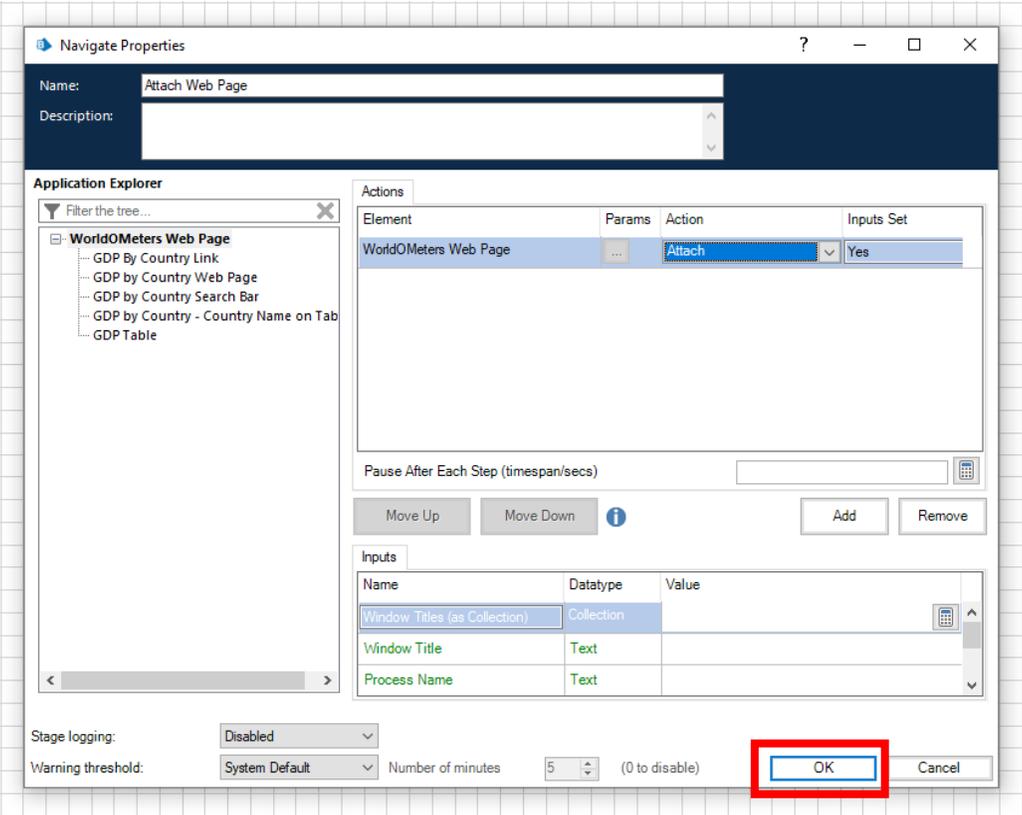
RENAME THE “NAVIGATE 1” TO “ATTACH WEBPAGE”



DRAG THE “WORLDOMETERS WEB PAGE” FROM THE APPLICATION EXPLORER TO THE ACTION ELEMENTS



SELECT THE ACTION TO “ATTACH”



SECTION 3.5

*Using BP to
interact with the
webpage*

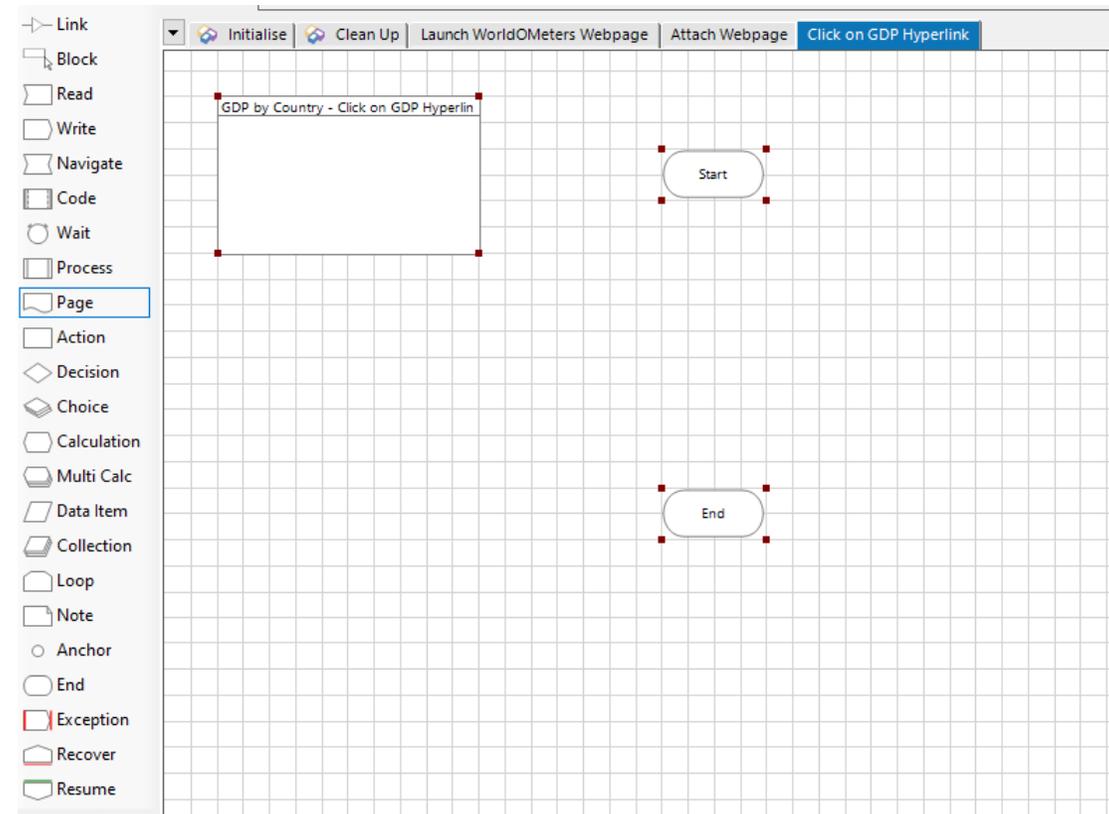
SECTION
3.5.1

*Clicking links on
the Web Page*

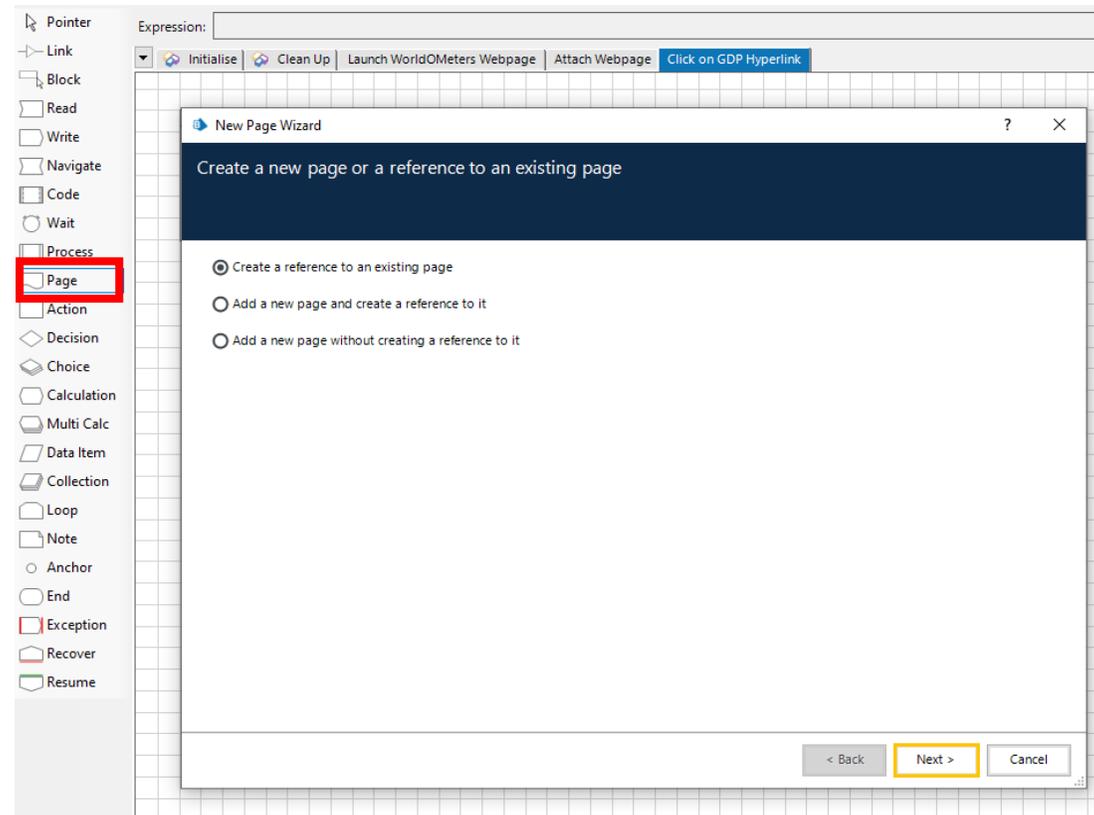
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Launch IE through the “Launch” page in Object Studio
2. Create a new page and name the page “Click on GDP Hyperlink”
3. Select the “Page” tool from the tool bar and click between the ‘Start’ and ‘End’ Stages
4. Configure and reference the “Attach” page
5. Create a “Wait” stage from the previous example
6. Create an “Exception” stage from the previous example
7. Create a “Navigation” stage to click on the GDP Hyperlink
8. Use another “Wait” stage to verify that the “GDP by Country” page is open
9. Link all the different stages

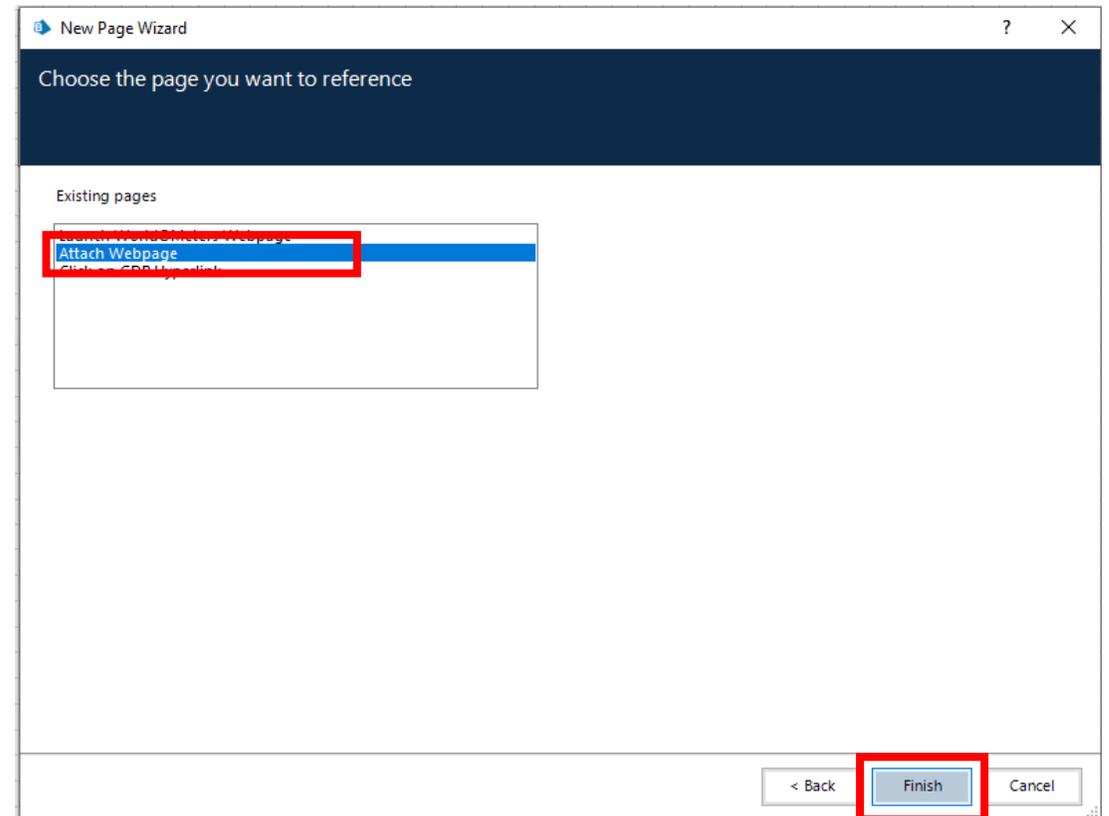
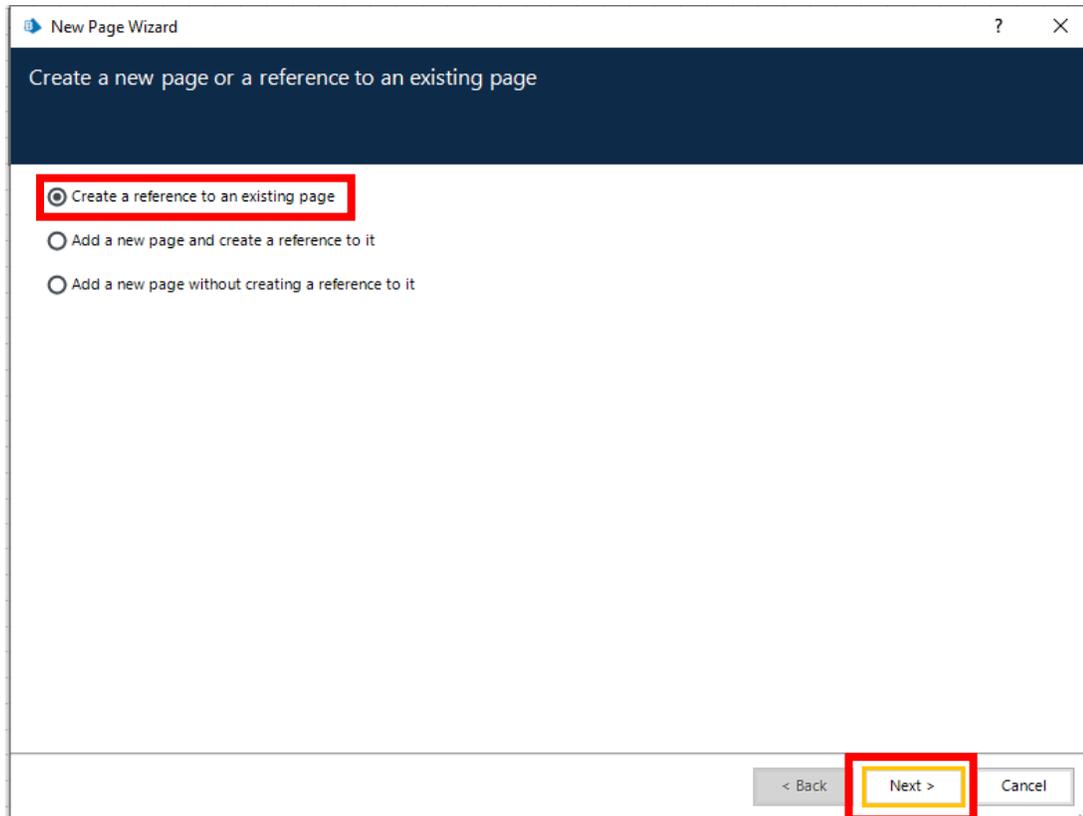
CREATE A NEW PAGE AND NAME THE PAGE “CLICK ON GDP HYPERLINK”



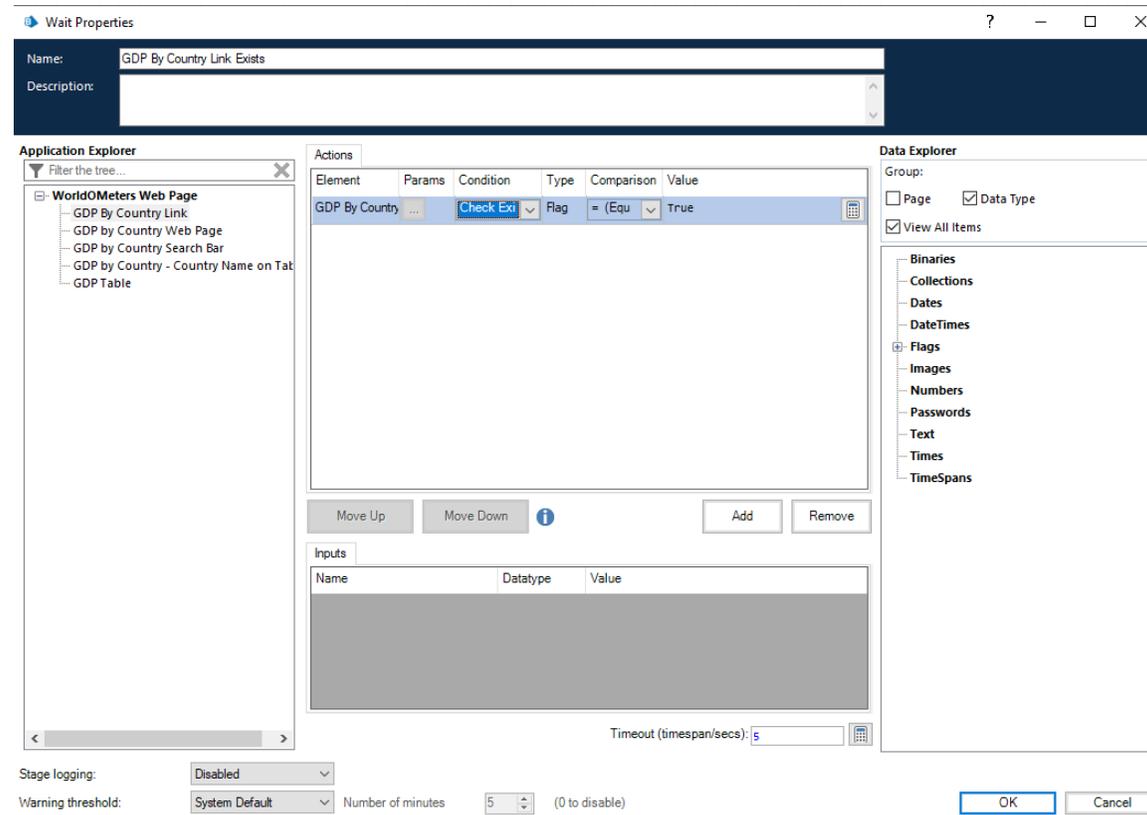
SELECT THE “PAGE” TOOL FROM THE TOOL BAR AND CLICK BETWEEN THE ‘START’ AND ‘END’ STAGES



CONFIGURE AND REFERENCE THE “ATTACH” PAGE



ATTACH A “WAIT” STAGE FROM THE PREVIOUS EXAMPLE



CREATE AN “EXCEPTION” STAGE FROM THE PREVIOUS EXAMPLE

Exception Properties

Name:

Description:

Exception Type:

Exception Detail:

Preserve the type and detail of the current exception

Save screen capture

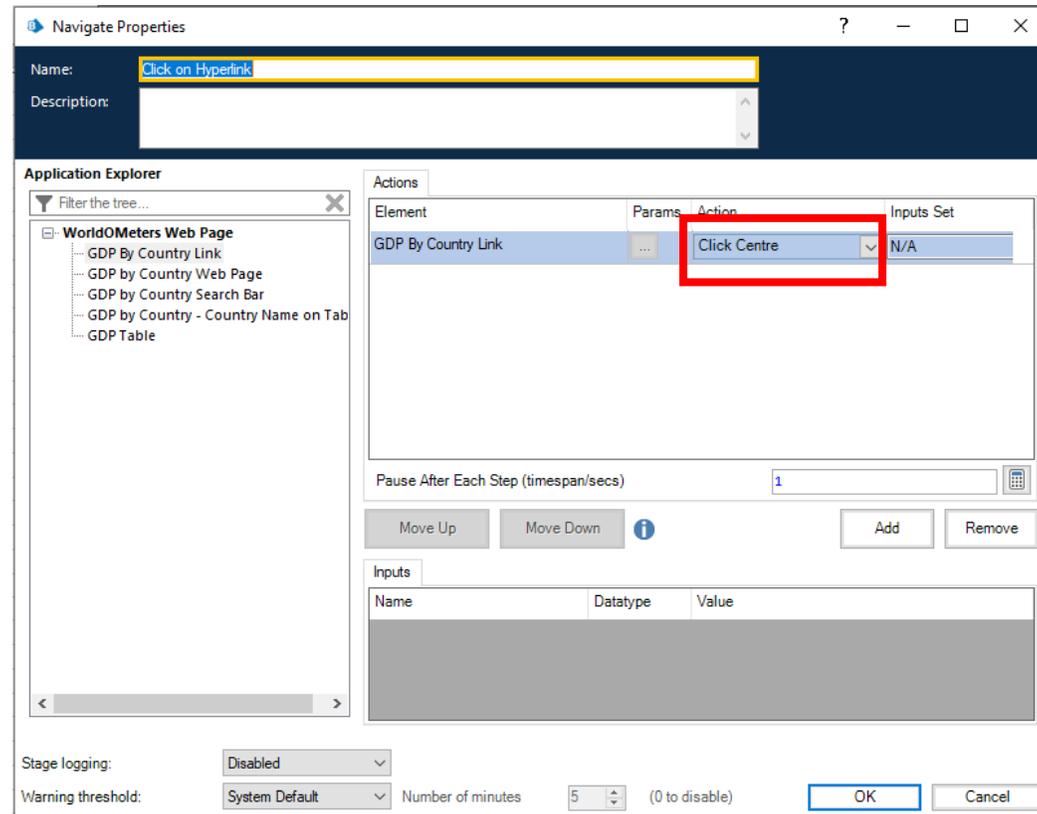
Stage logging:

Warning threshold: Number of minutes (0 to disable)

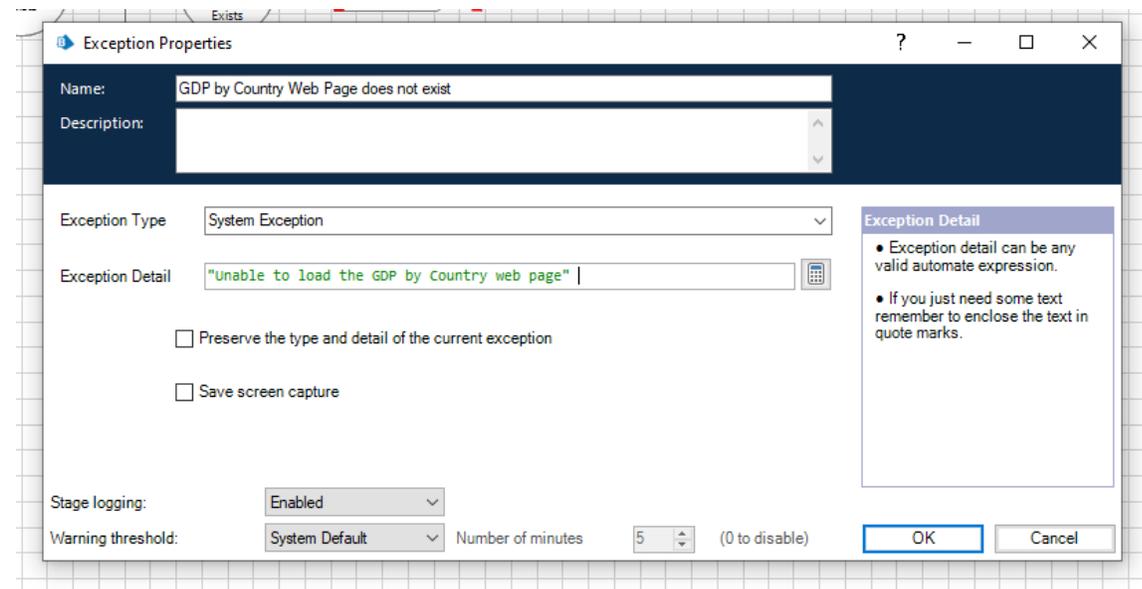
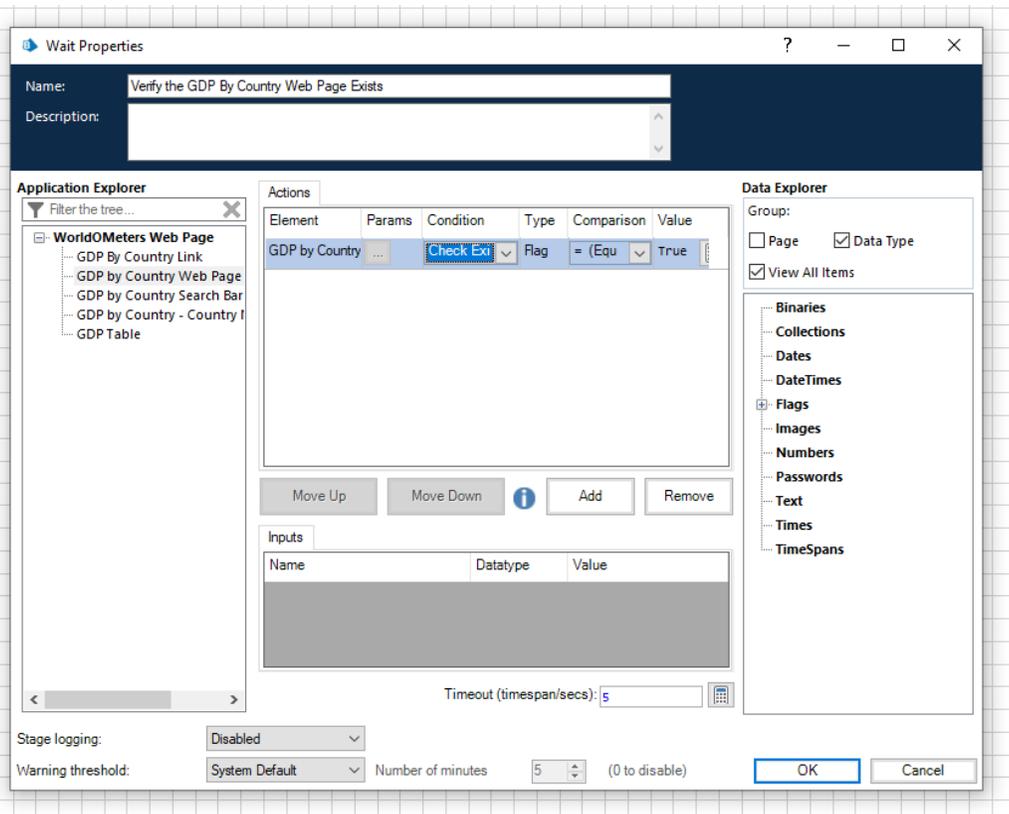
Exception Detail

- Exception detail can be any valid automate expression.
- If you just need some text remember to enclose the text in quote marks.

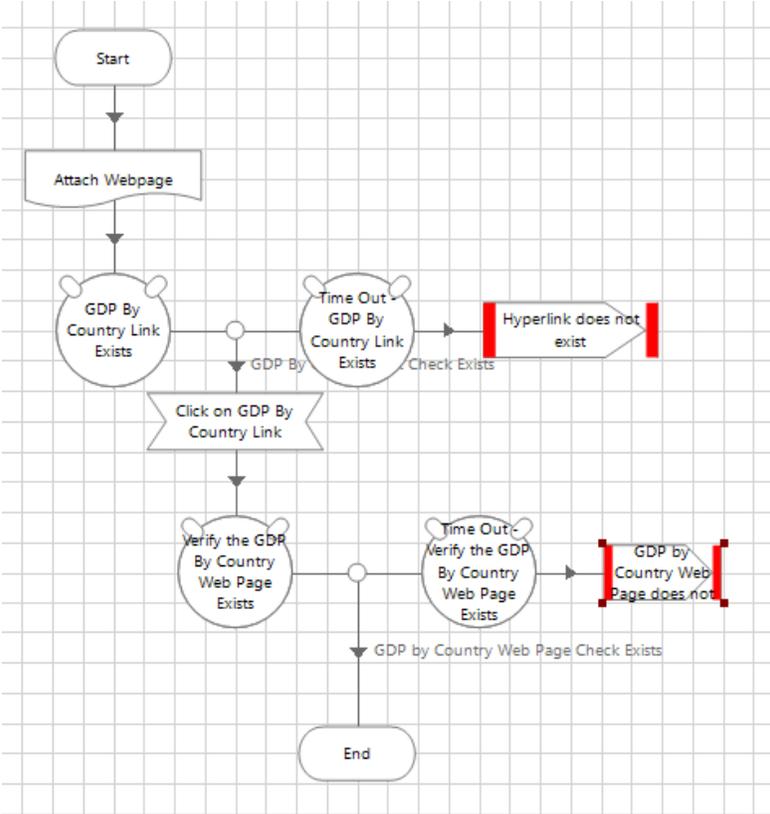
CREATE A “NAVIGATION” STAGE TO CLICK ON THE GDP HYPERLINK BY USING THE “CLICK CENTER” ACTION



USE ANOTHER “WAIT” AND “EXCEPTION” STAGE TO VERIFY THAT THE “GDP BY COUNTRY” PAGE IS OPEN



LINK ALL THE STAGES



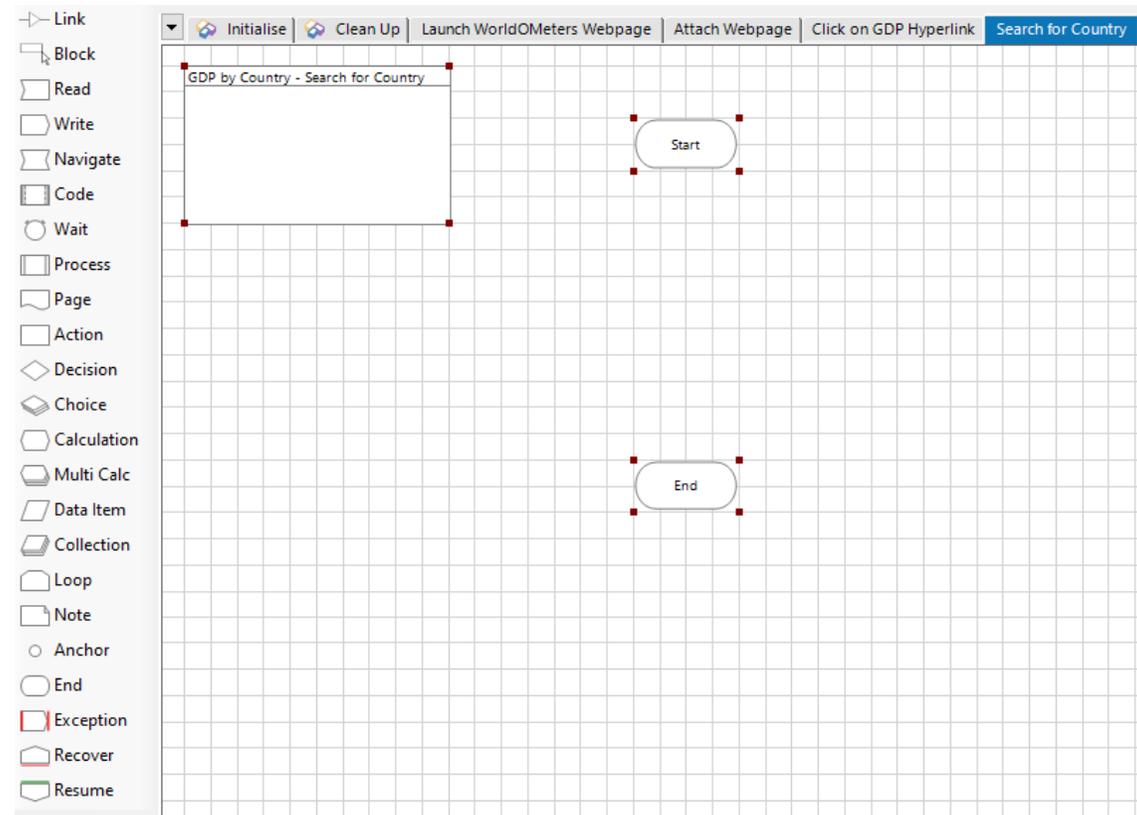
SECTION
3.5.2

*Inputting data into
the Web Page*

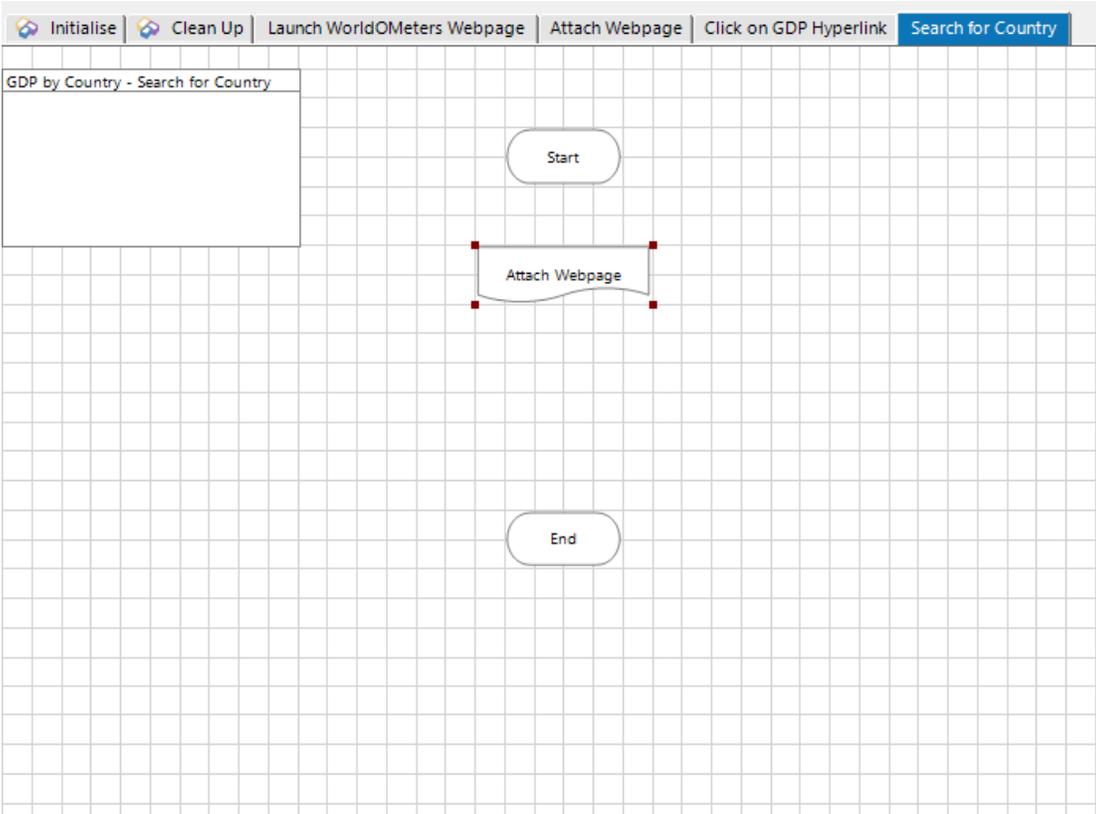
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Create a new page and name the page “Search for Country”
2. Use the “Page” tool to link to the “attach” page as in the previous example
3. Use the “Wait” Tool to validate that the “Search” box exists
4. Create an “Exception” as in the previous examples
5. Use the “Navigate” stage to click and interact with the Search Box
6. In the “INPUT” section, select the icon next to the text
7. Drag and drop the “Country Name” text data item from the right to the expression tab
8. Link all the stages together.

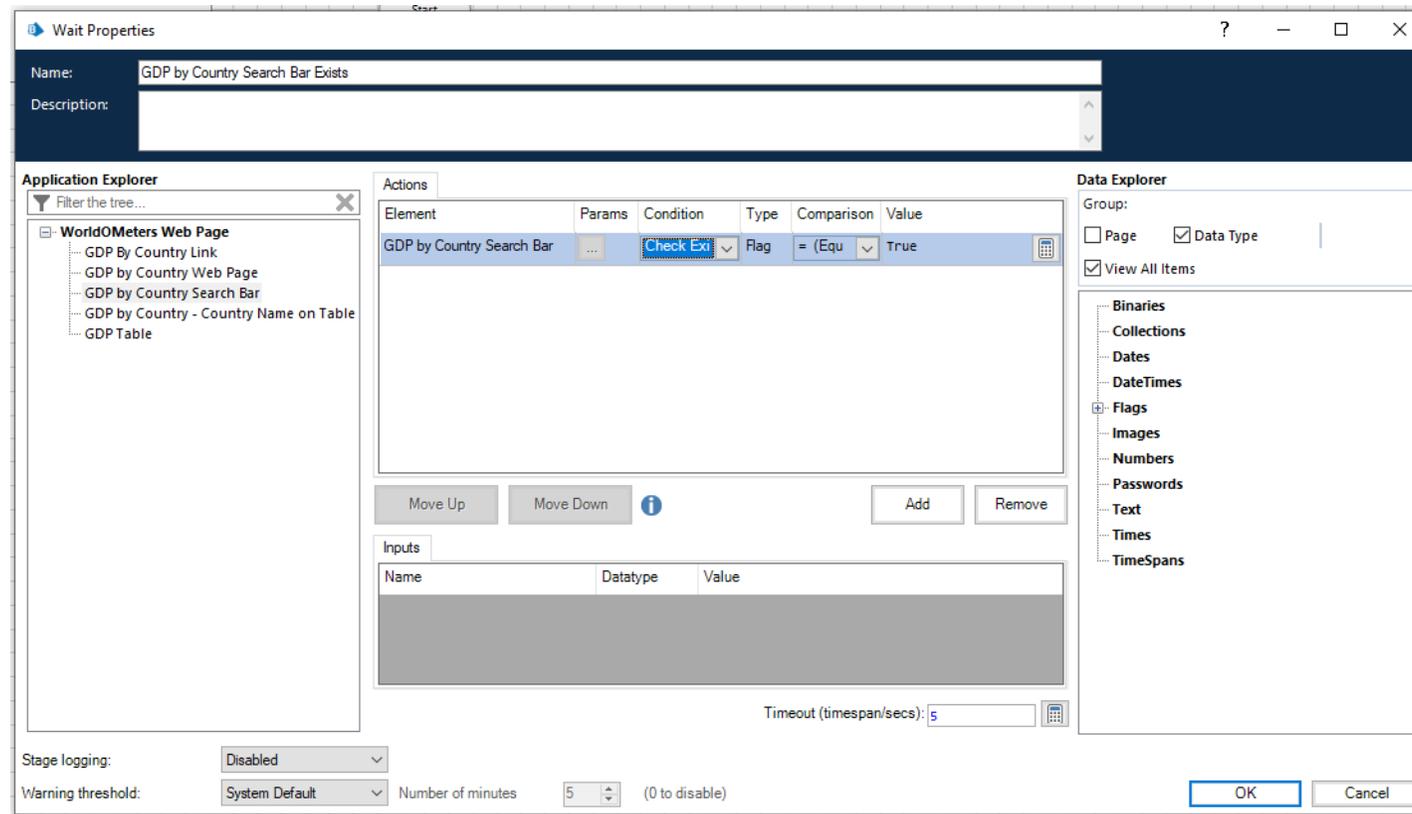
CREATE A NEW PAGE AND NAME THE PAGE “SEARCH FOR COUNTRY”



USE THE “PAGE” TOOL TO LINK TO THE “ATTACH” PAGE AS IN THE PREVIOUS EXAMPLE



USE THE “WAIT” TOOL TO VALIDATE THAT THE “SEARCH” BOX EXISTS



CREATE AN “EXCEPTION” AS IN THE PREVIOUS EXAMPLES

The screenshot shows the 'Exception Properties' dialog box with the following configuration:

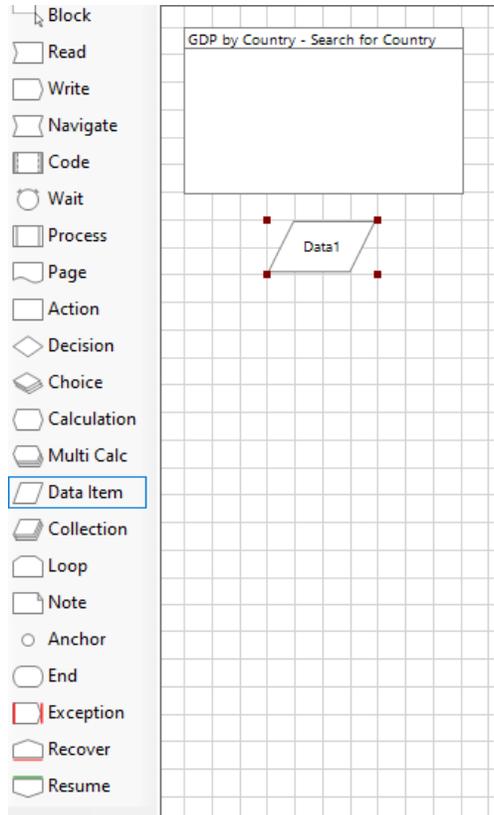
- Name:** Search Bar does not exist
- Description:** (Empty text area)
- Exception Type:** System Exception
- Exception Detail:** "Search box does not exist." |
- Preserve the type and detail of the current exception
- Save screen capture
- Stage logging:** Enabled
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)

Exception Detail

- Exception detail can be any valid automate expression.
- If you just need some text remember to enclose the text in quote marks.

Buttons: OK, Cancel

CREATE A TEXT DATA ITEM FOR COUNTRY NAME



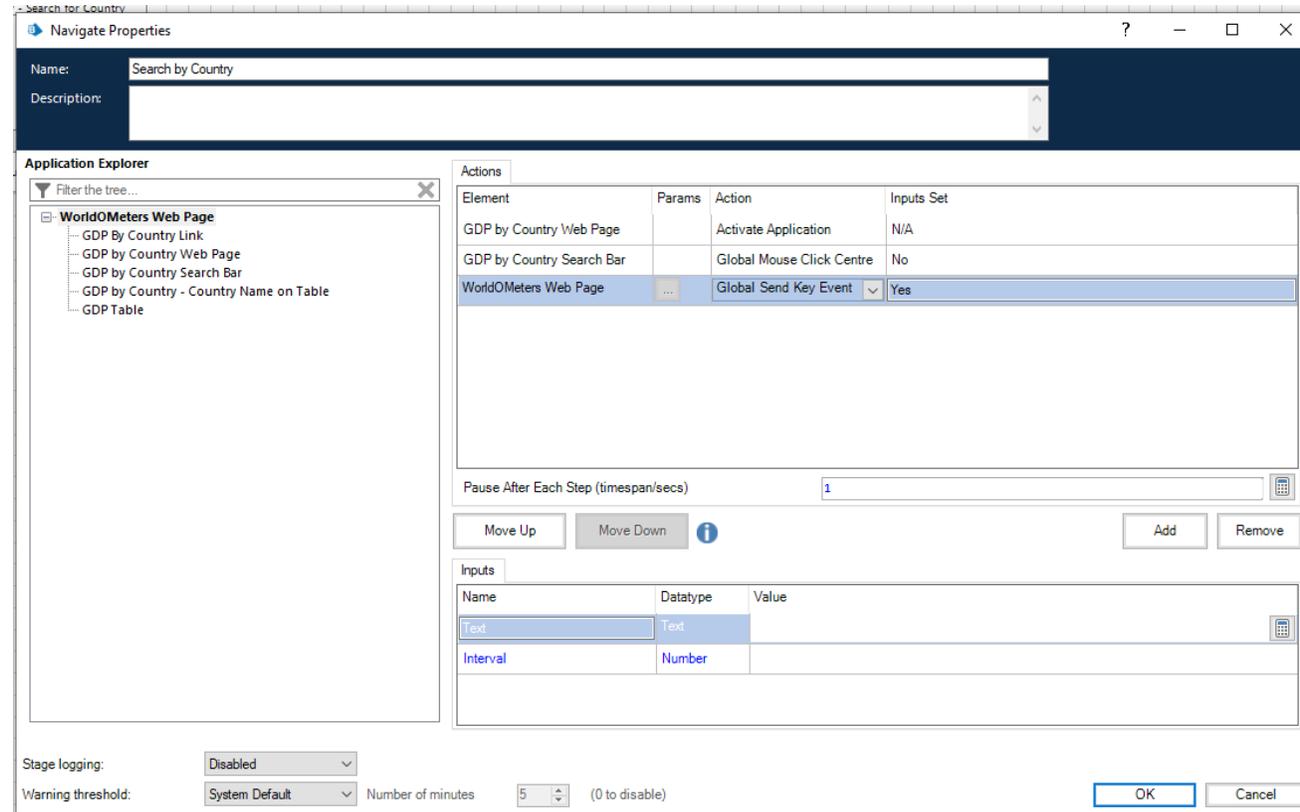
The 'Data Properties' dialog box is shown with the following settings:

- Name: Country Name
- Description: (empty text area)
- Data Type: Text
- Initial Value: India
- Exposure: None
- Current Value: (empty text field)
- Visibility: Hide from other pages in the process
- Initialisation: Reset to Initial Value whenever this page runs

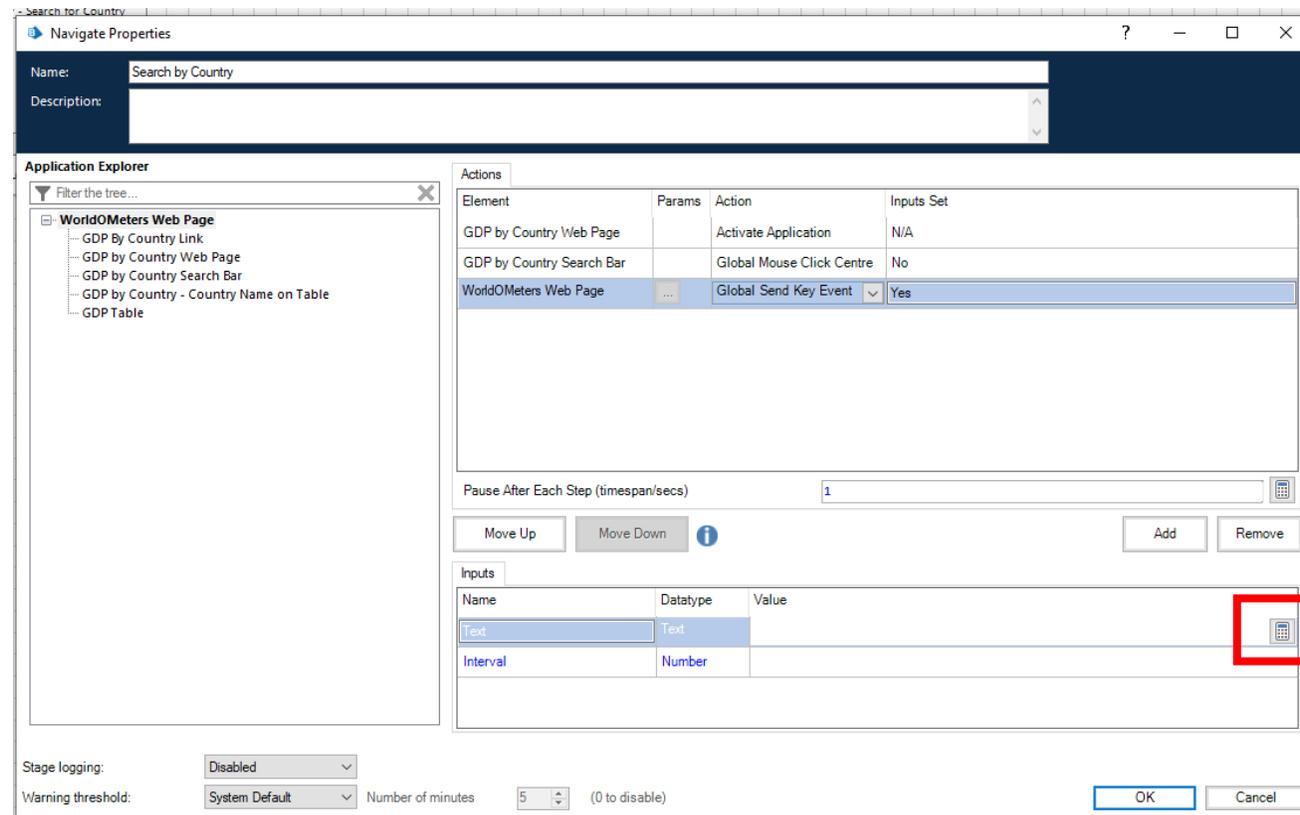
A 'Text' tooltip is visible on the right side of the dialog, stating: "Text items are used to store alphanumeric data. This information may be names, addresses, telephone numbers, etc."

Buttons: OK, Cancel

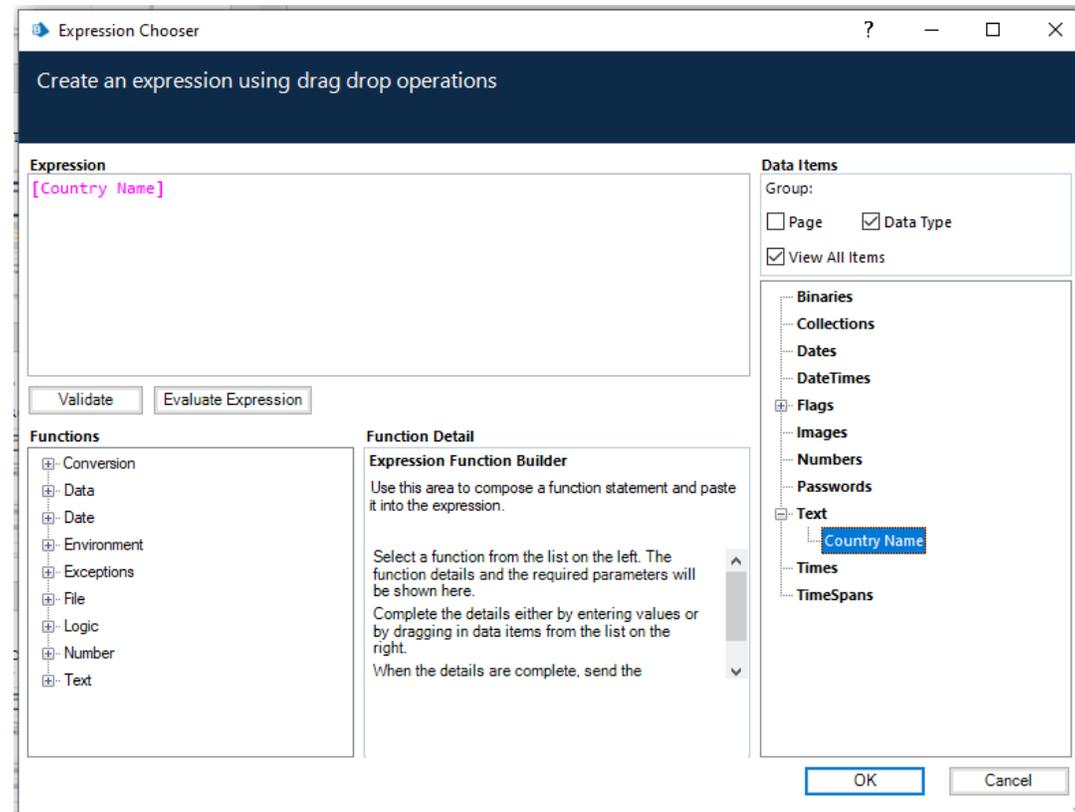
USE THE “NAVIGATE” STAGE TO CLICK AND INTERACT WITH THE WEB PAGE AND INPUT DATA INTO THE SEARCH BOX



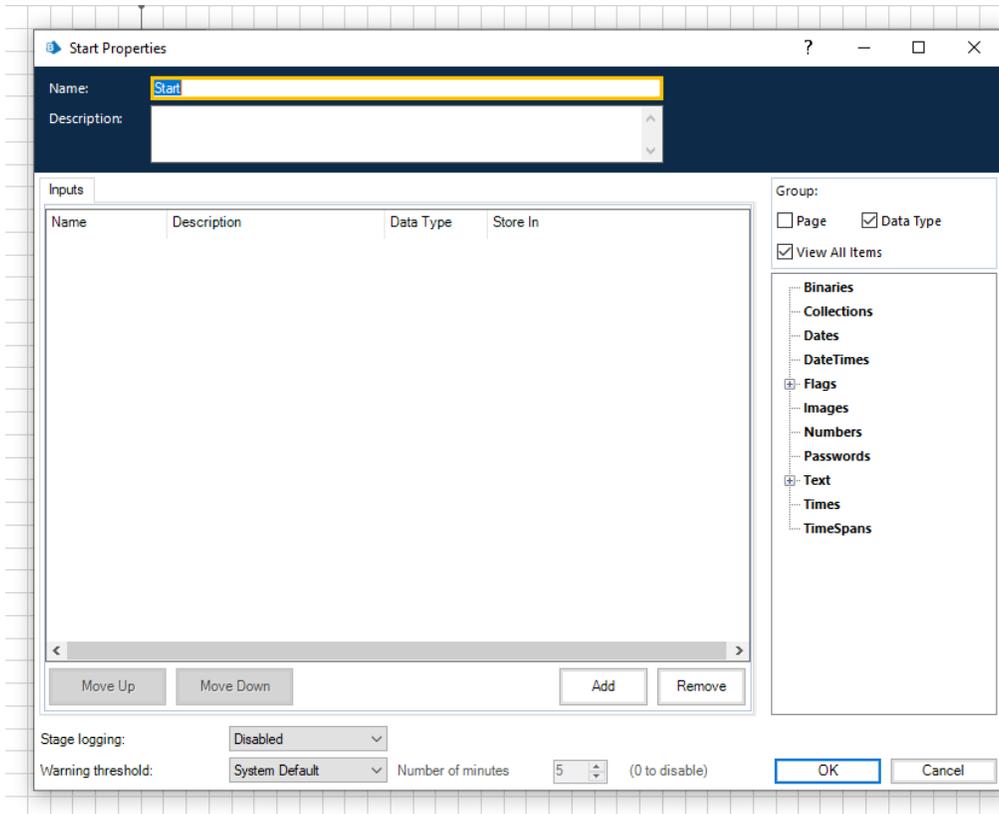
IN THE “INPUT” SECTION, SELECT THE
ICON NEXT TO THE TEXT



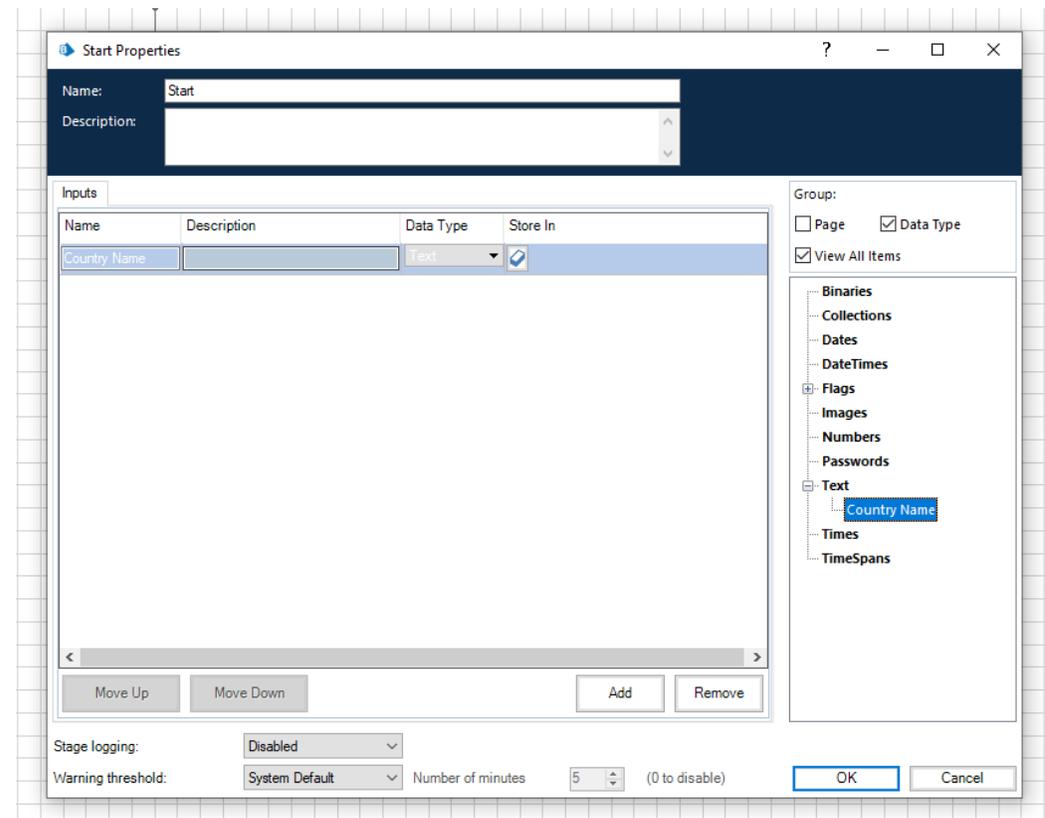
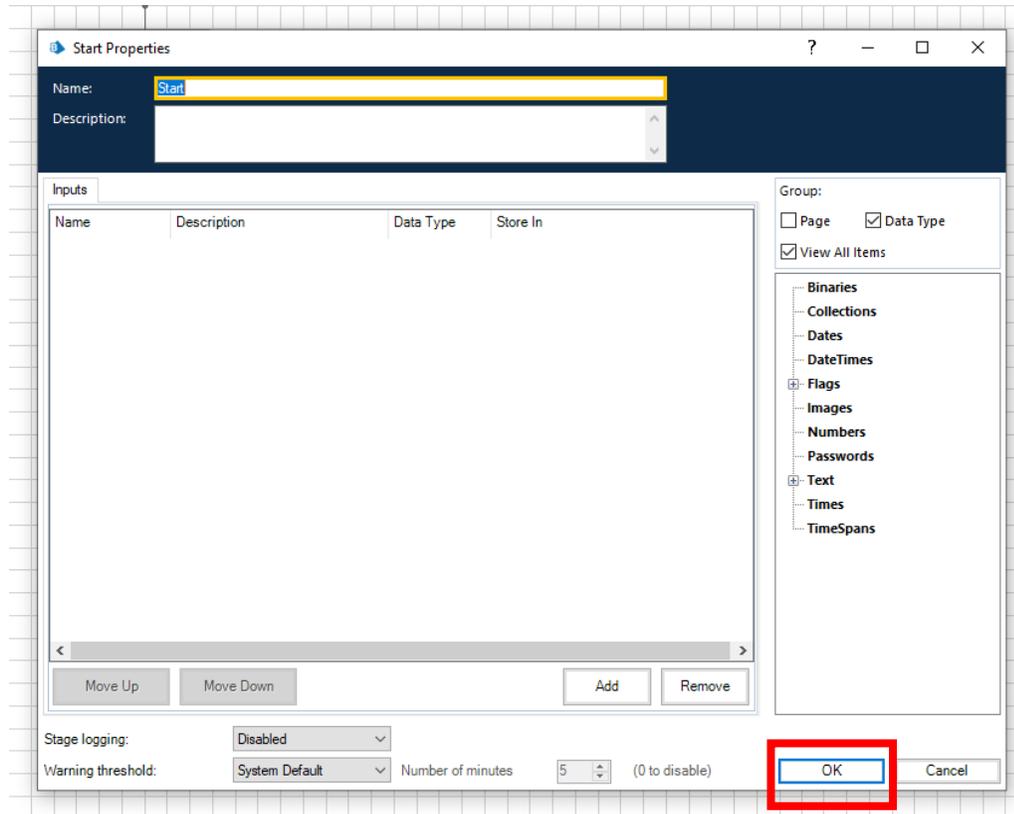
DRAG AND DROP THE “COUNTRY NAME”
TEXT DATA ITEM FROM THE RIGHT TO THE
EXPRESSION TAB



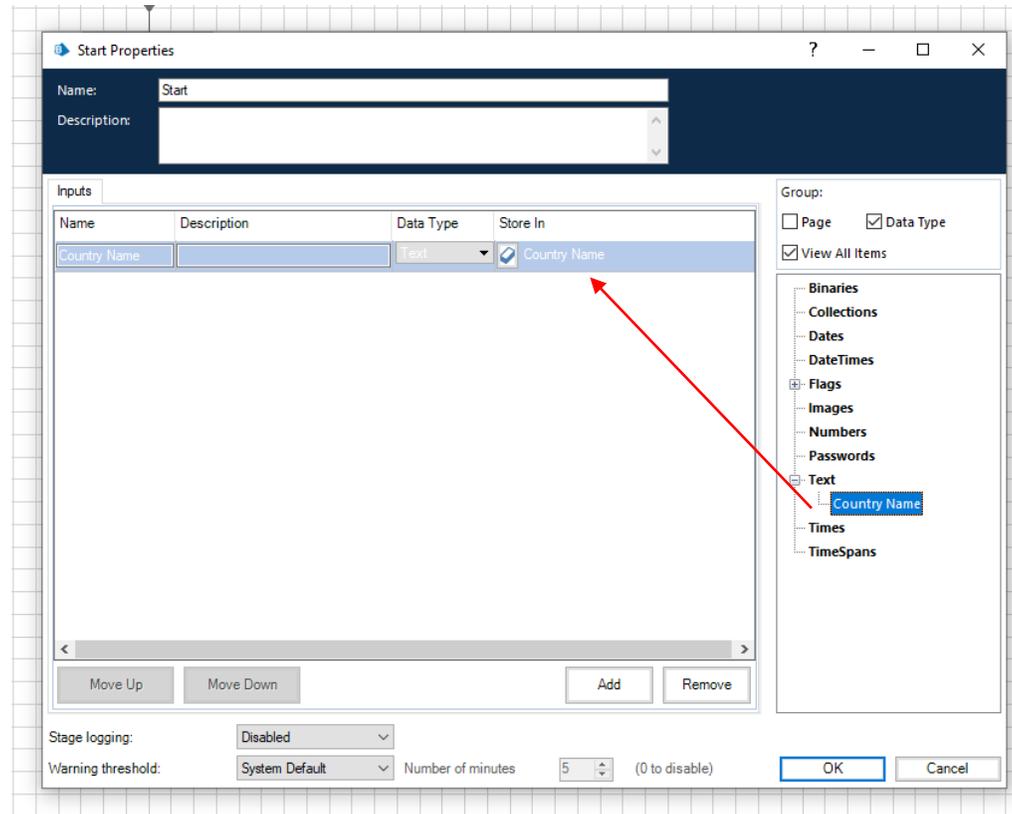
CINFIGURE THE “START” STAGE TO HAVE THE INPUT DATA STAGE, DOUBLE CLICK TO OPEN PROPERTIES



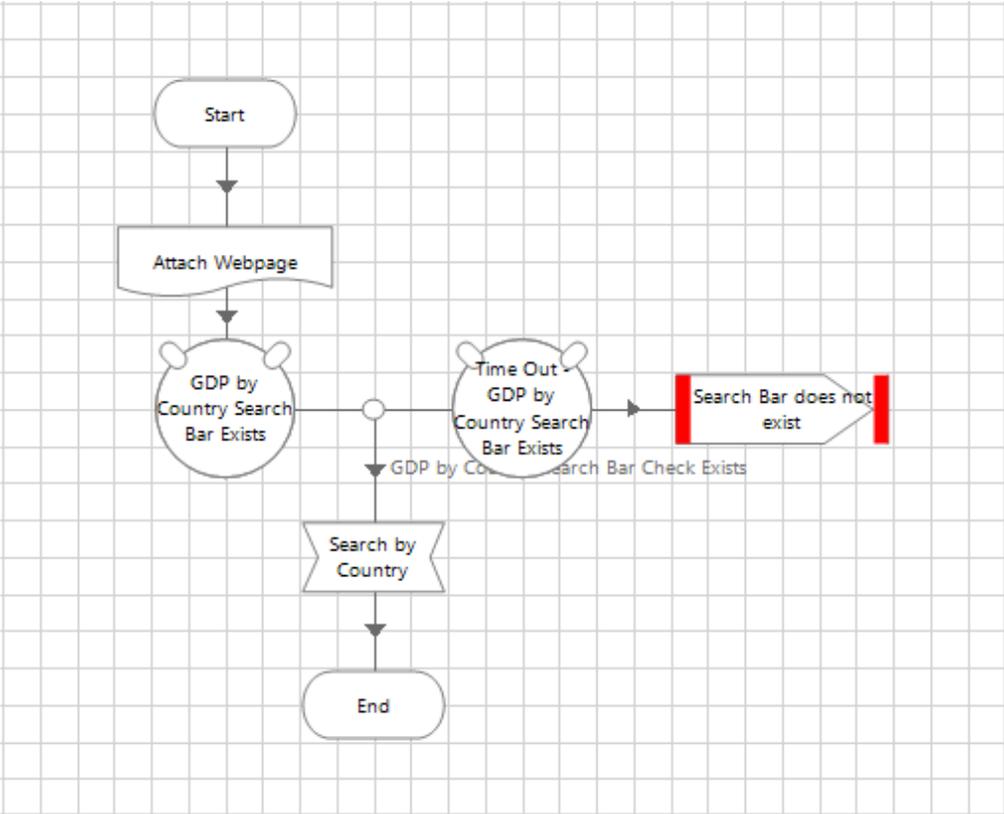
ADD AN INPUT



DRAG THE “COUNTRY NAME” DATA TYPE TO THE “STORE IN” SECTION OF THE INPUT



LINK ALL THE STAGES TOGETHER



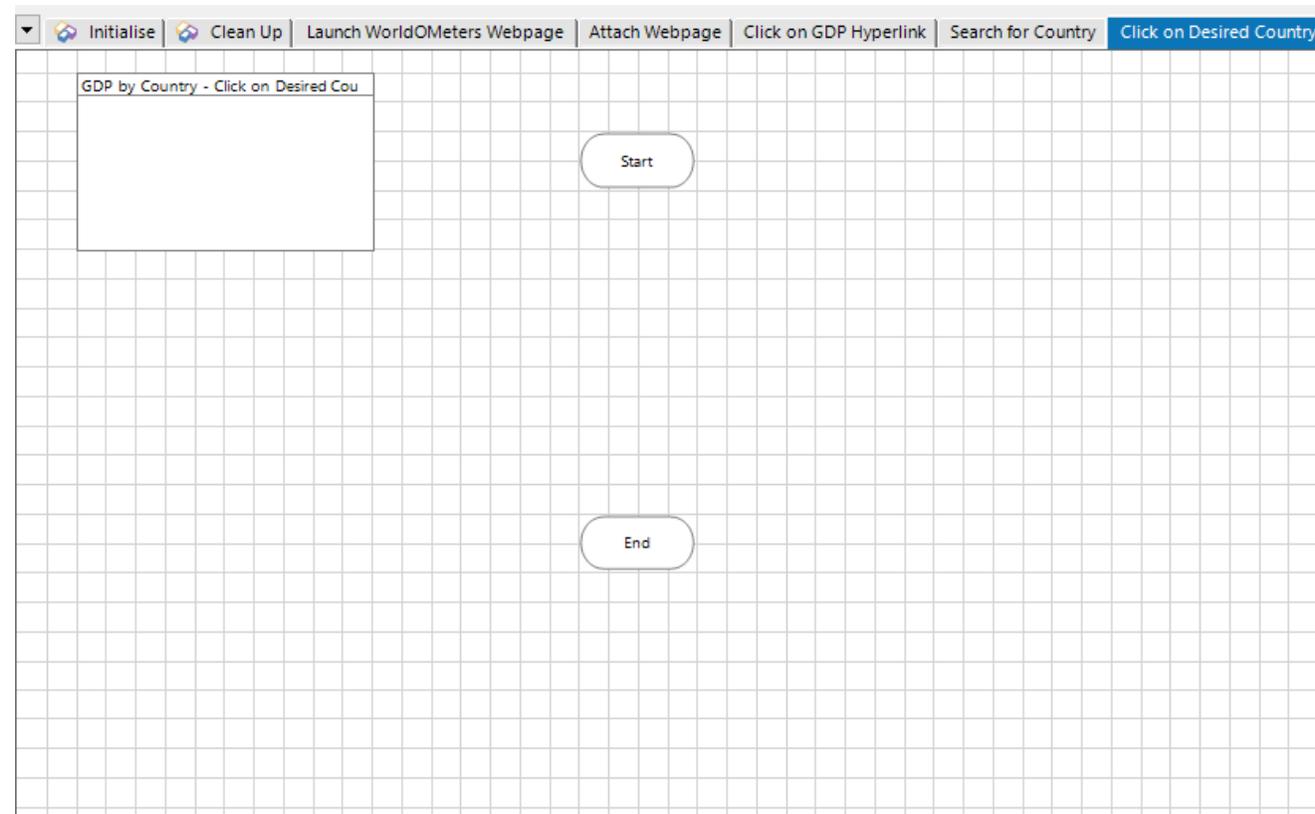
SECTION
3.5.3

*Selecting the data
on the webpage*

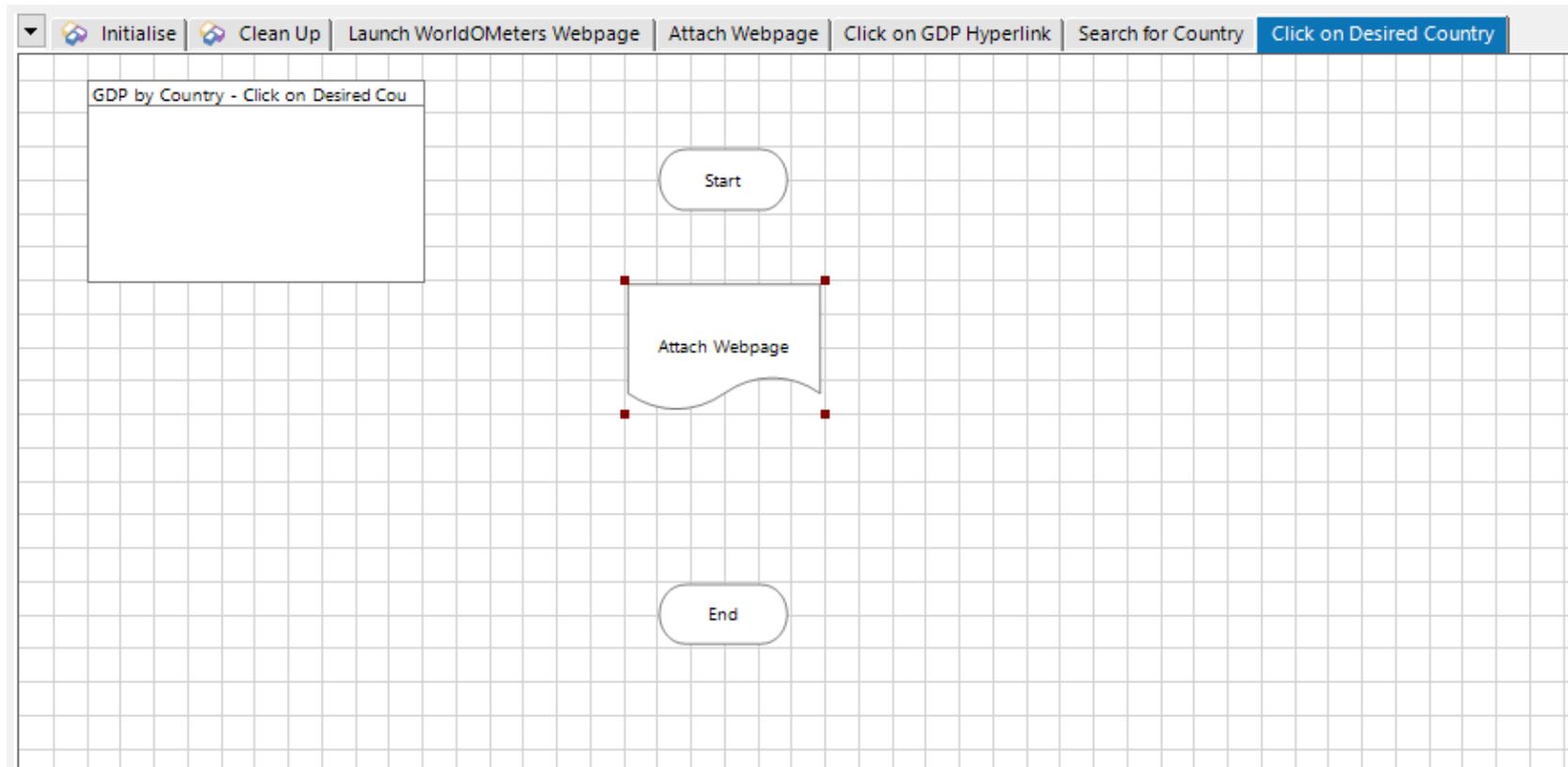
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Create a new page and name the page “Click on Desired Country”
2. Use the “Page” tool to link to the “attach” page as in the previous example
3. Use the “Wait” Tool to validate that the searched country name exists
4. Use the “Navigate” stage to click and interact with the desired country
5. Create an “Exception”
6. Use the “Navigate” tool and use the actions to click on the desired country

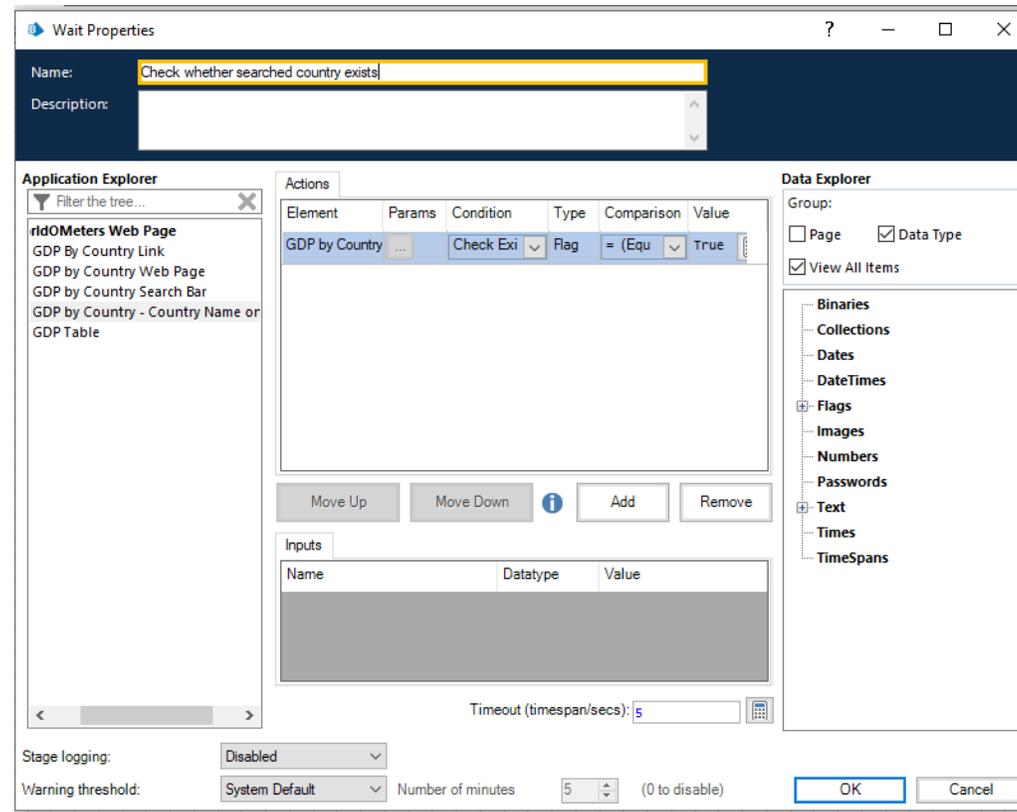
CREATE A NEW PAGE AND NAME THE PAGE “CLICK ON DESIRED COUNTRY”



USE THE “PAGE” TOOL TO LINK TO THE “ATTACH” PAGE AS IN THE PREVIOUS EXAMPLE



USE THE “WAIT” TOOL TO VALIDATE THAT THE SEARCHED COUNTRY NAME EXISTS



CREATE AN EXCEPTION

Exception Properties

Name:

Description:

Exception Type:

Exception Detail:

Preserve the type and detail of the current exception

Save screen capture

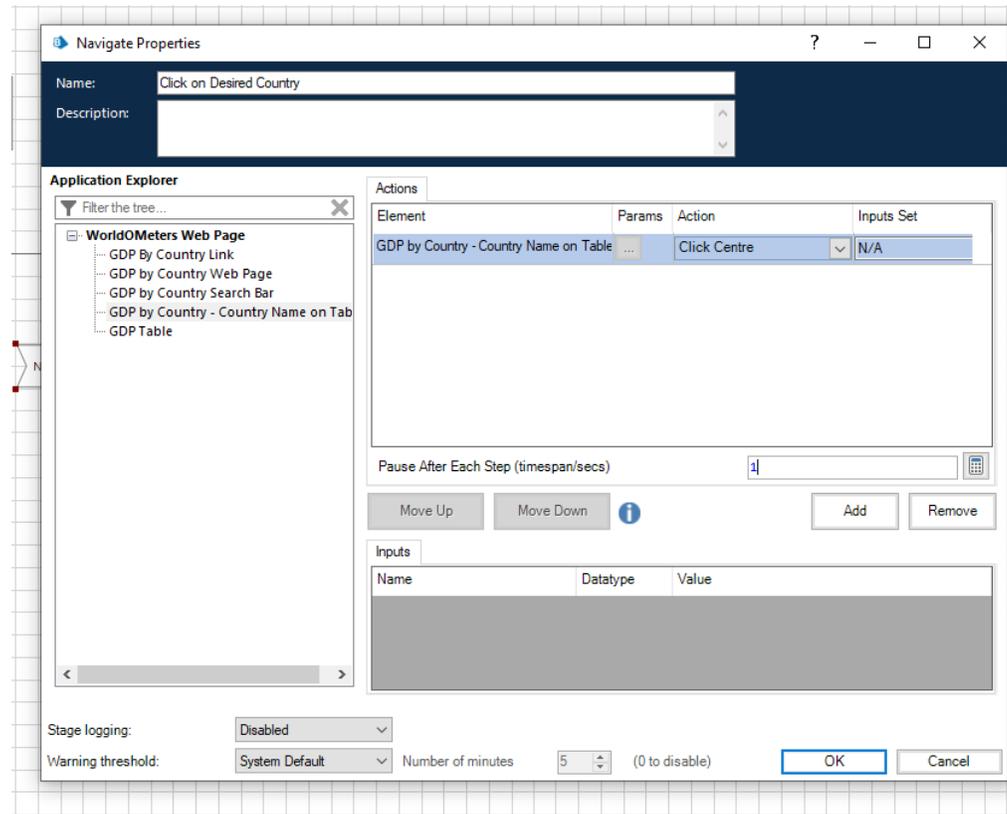
Stage logging:

Warning threshold: Number of minutes (0 to disable)

Exception Detail

- Exception detail can be any valid automate expression.
- If you just need some text remember to enclose the text in quote marks.

USE THE “NAVIGATE” STAGE TO CLICK AND INTERACT WITH THE DESIRED COUNTRY



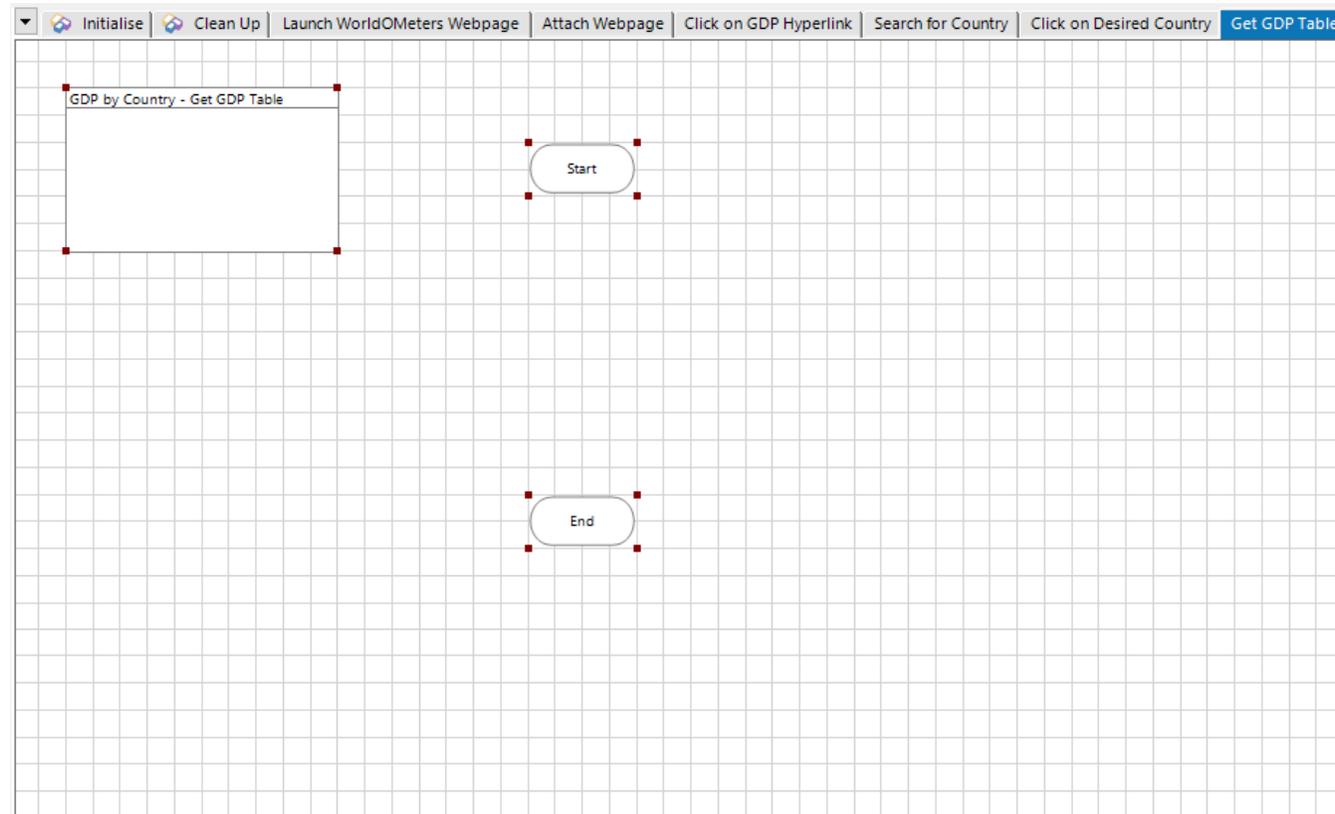
SECTION
3.5.4

*Extracting the data
on the webpage*

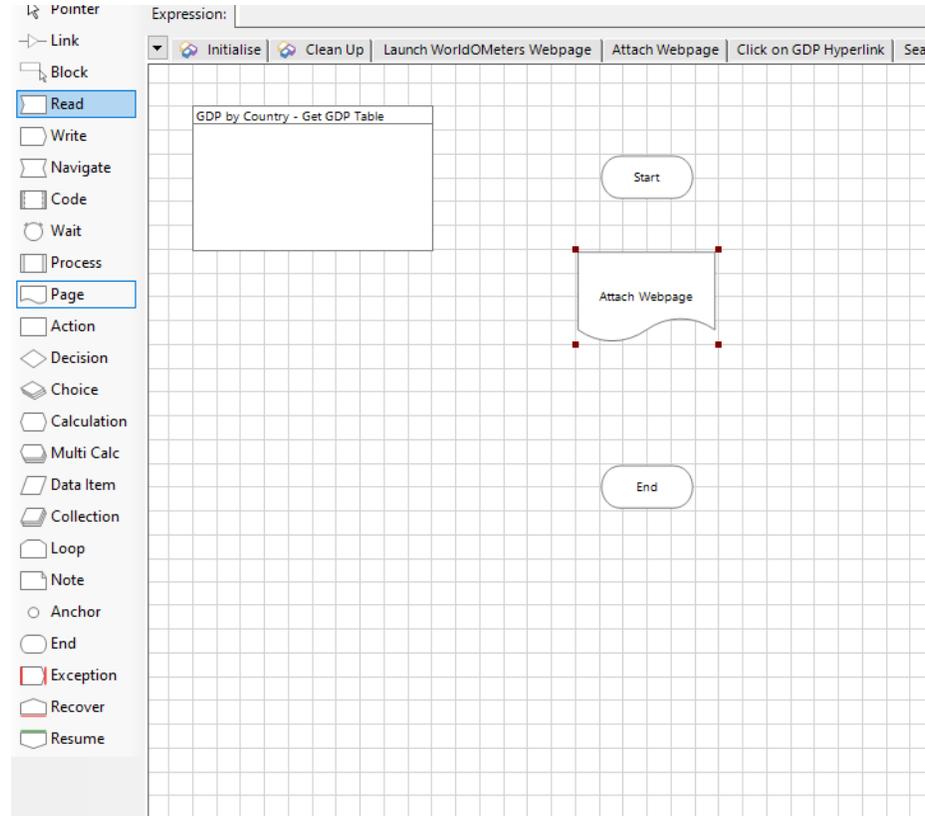
THE ATTACH ACTION IN BUSINESS OBJECTS

1. Create a new page and name the page “Get GDP Table”
2. Use the “Page” tool to link to the “Attach” page as in the previous example
3. Use the “Wait” Tool to validate that the table exists
4. Use the “Navigate” stage to click and interact with the desired country
5. Create an “Exception”
6. Use the “Navigate” tool and use the actions to copy the data from the table
7. Select the icon in the “Store in” section to create a collection of data for the page
8. Link all the stages together

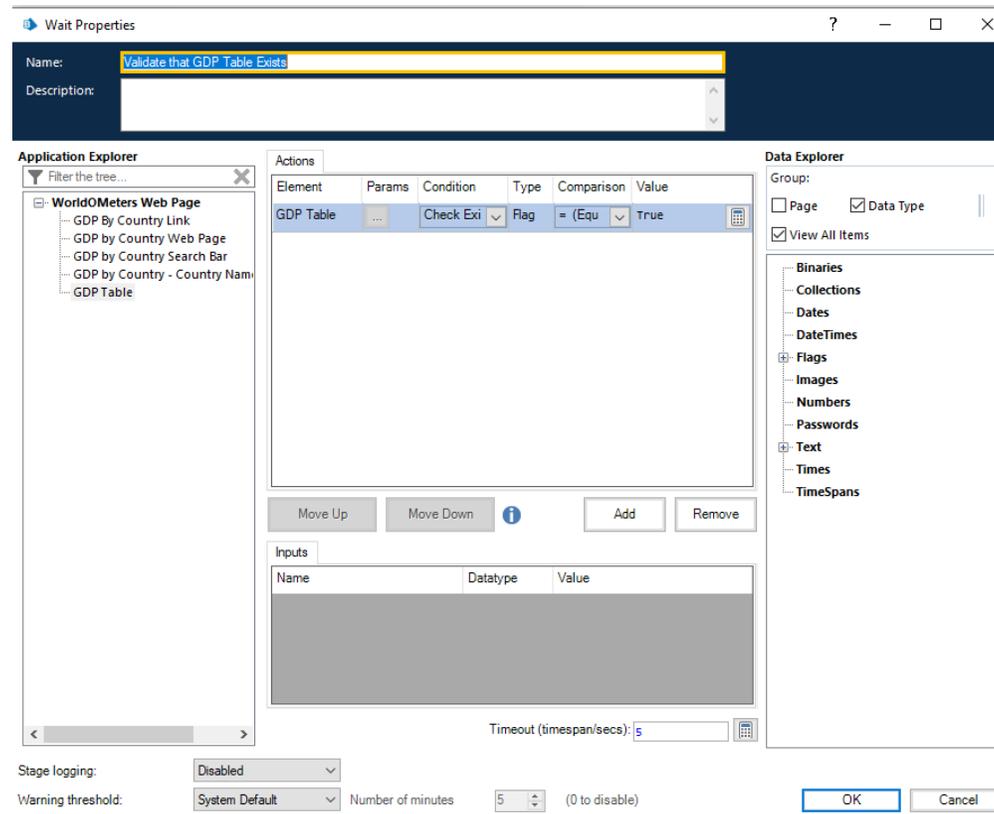
CREATE A NEW PAGE AND NAME THE PAGE “GET GDP TABLE”



USE THE “PAGE” TOOL TO LINK TO THE “ATTACH” PAGE AS IN THE PREVIOUS EXAMPLE



USE THE “WAIT” TOOL TO VALIDATE THAT THE TABLE EXISTS



CREATE AN “EXCEPTION”

Exception Properties

Name: GDP Table does not exist

Description:

Exception Type: System Error

Exception Detail: "GDP Table does not exist"

Preserve the type and detail of the current exception

Save screen capture

Stage logging: Enabled

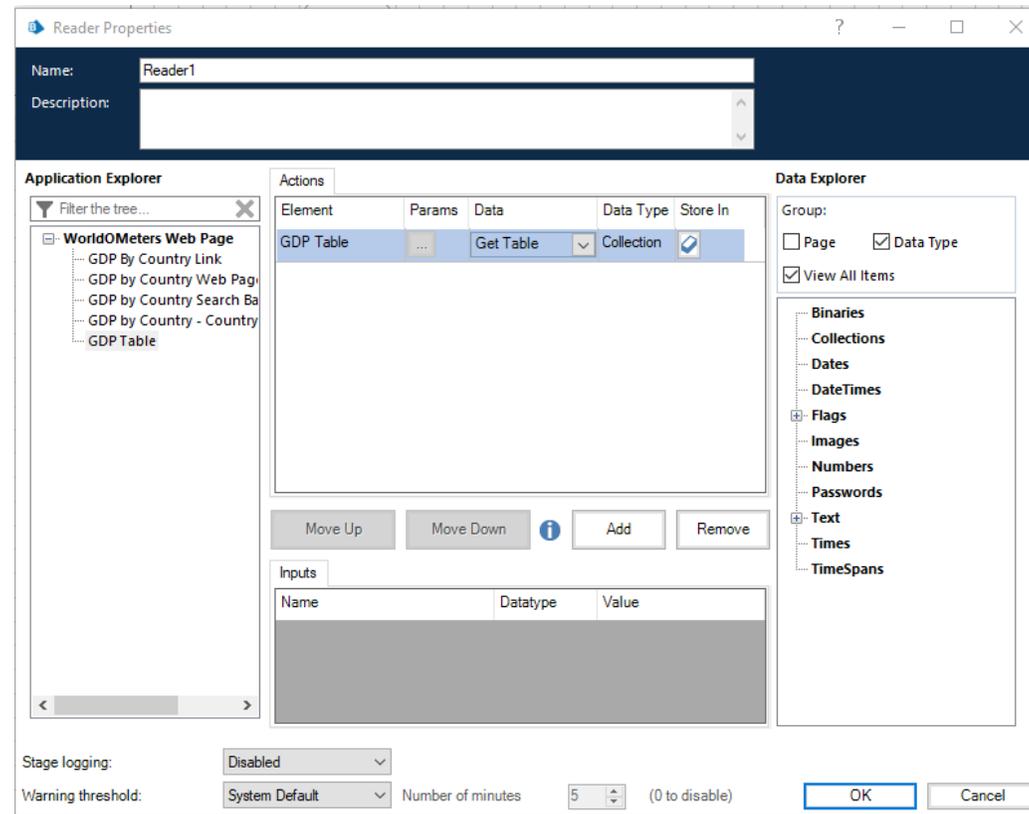
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

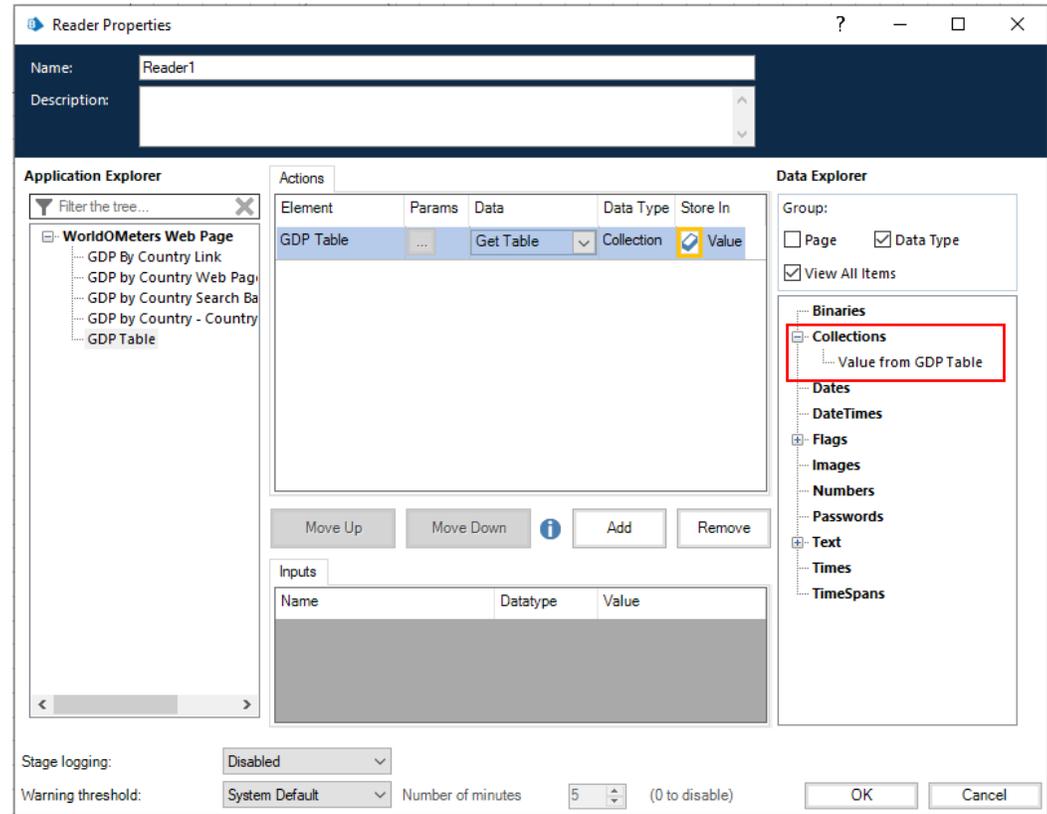
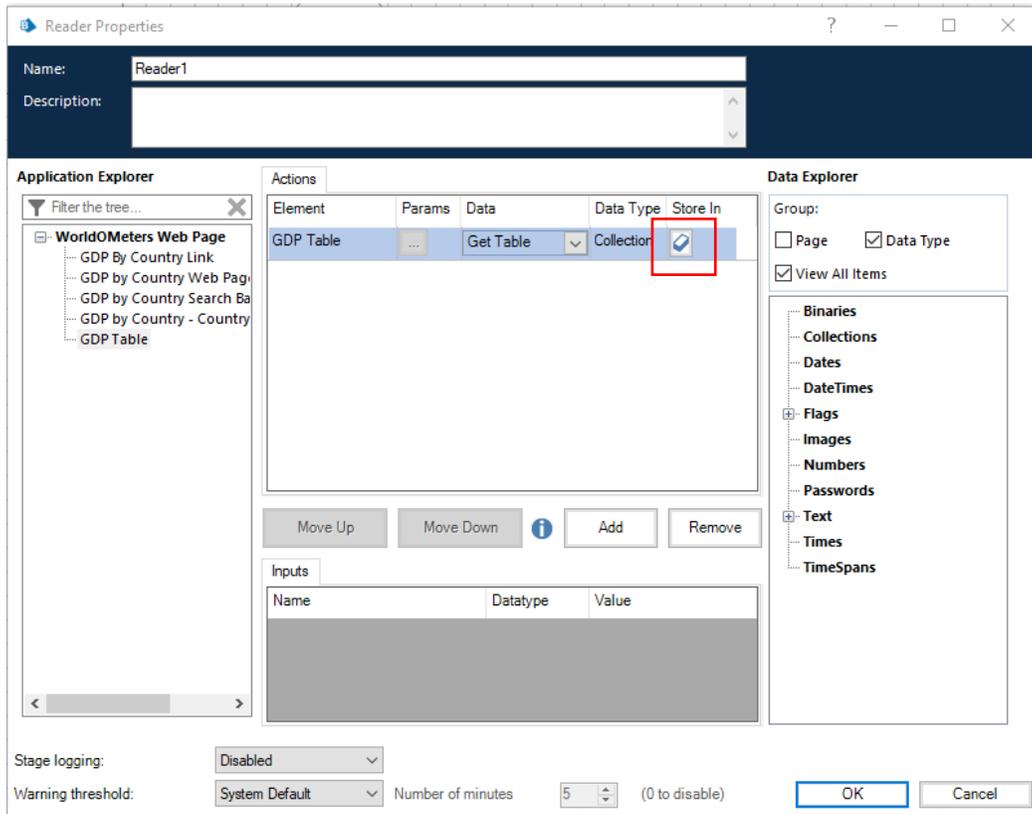
Exception Type

- Choose an existing exception type from the dropdown.
- Create a new exception type by entering text.

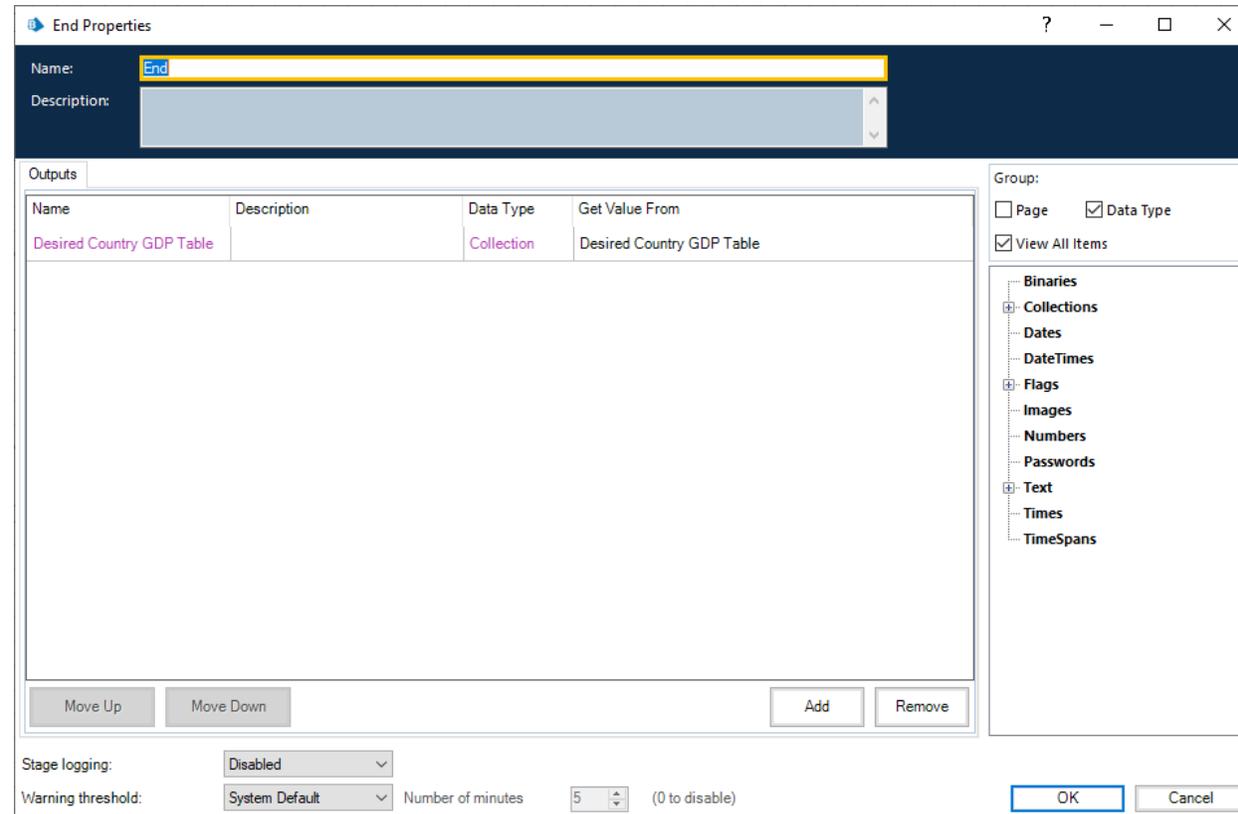
USE THE “READ” TOOL AND USE THE ACTIONS TO COPY THE DATA FROM THE TABLE



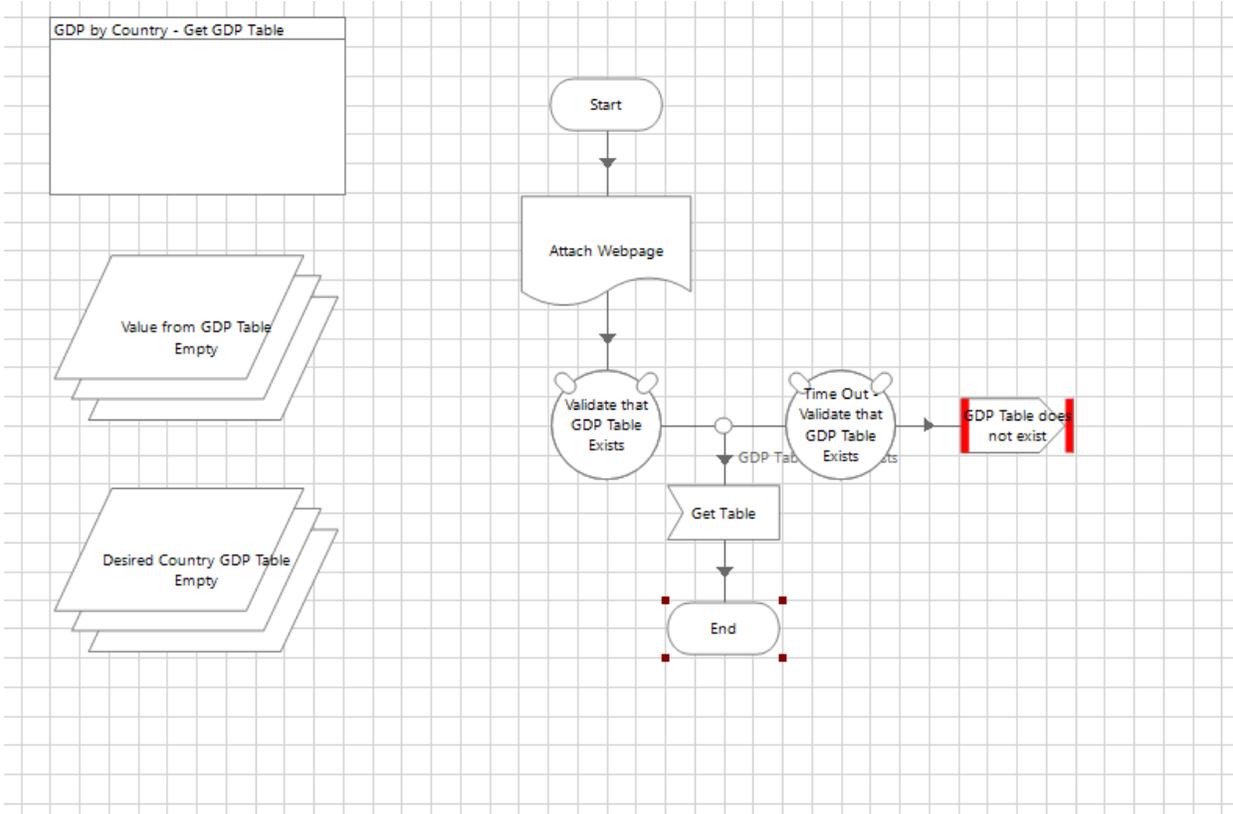
SELECT THE ICON IN THE “STORE IN” SECTION TO CREATE A COLLECTION OF DATA FOR THE PAGE



STORE OUTPUT IN THE END - DOUBLE CLICK "END" TO OPEN PROPERTIES



LINK ALL THE STAGES TOGETHER



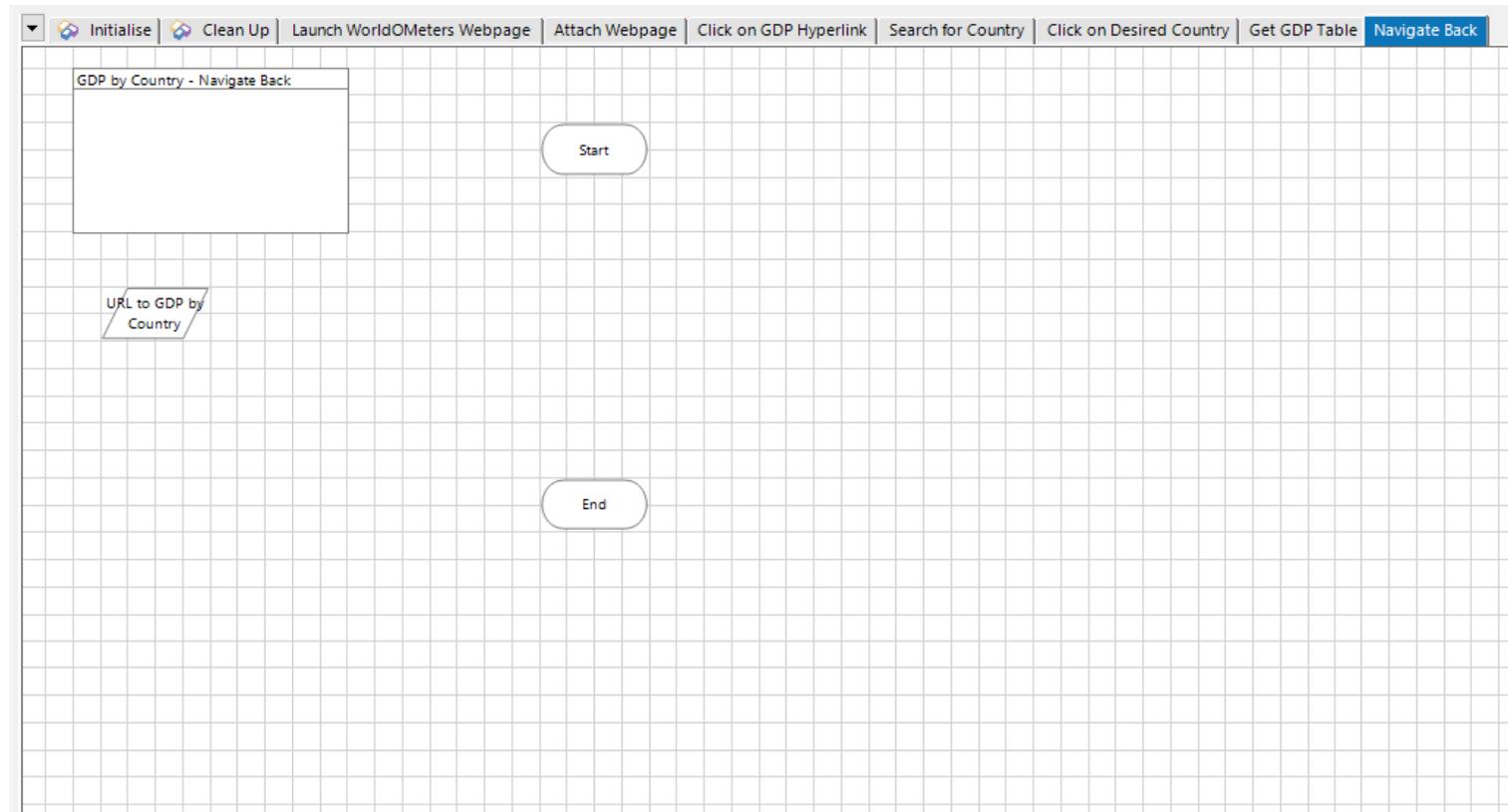
SECTION
3.5.5

*Navigating back to
home page*

THE ATTACH ACTION IN BUSINESS OBJECTS

1. Create a New Page and name the page “Navigate Back”
2. Create a Data Item tool with the link to the GDP by Country webpage
3. Use the “Page” tool to link to the “Attach” page as in the previous example
4. Use the “Navigate” stage to click go back to the GDP by Country Webpage
5. Link all the stages
6. Right click to Publish the Pages from Object Studio
7. Close and save the object studio

CREATE A NEW PAGE AND NAME THE PAGE “NAVIGATE BACK”



CREATE A DATA ITEM TOOL WITH THE LINK TO THE GDP BY COUNTRY WEBPAGE

Data Properties

Name:

Description:

Data Type:

Initial Value:

Exposure:

Current Value:

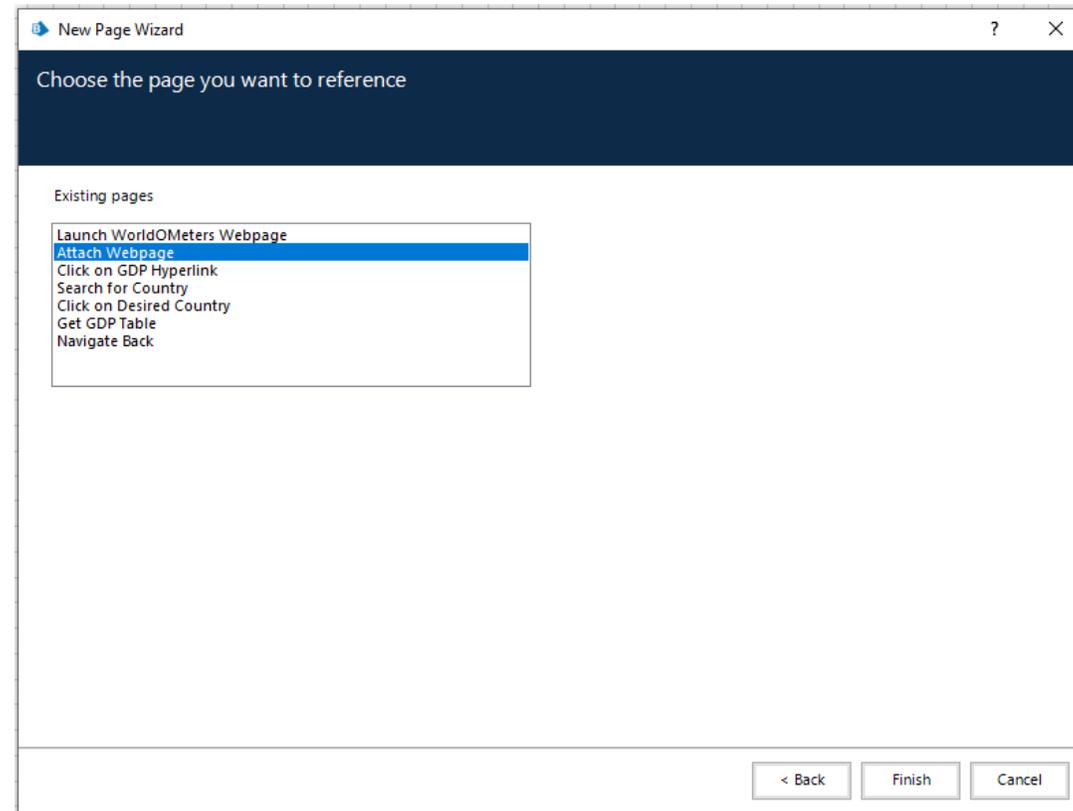
Visibility: Hide from other pages in the process

Initialisation: Reset to Initial Value whenever this page runs

Text
Text items are used to store alphanumeric data.
This information may be names, addresses, telephone numbers, etc.

OK Cancel

USE THE “PAGE” TOOL TO LINK TO THE
“ATTACH” PAGE AS IN THE PREVIOUS
EXAMPLE



USE THE “NAVIGATE” STAGE TO CLICK GO BACK TO THE GDP BY COUNTRY WEBPAGE, ADD THE DATA ITEM TO THE URL STAGE

Navigate Properties

Name:

Description:

Application Explorer

- WorldOMeters Web Page
 - GDP By Country Link
 - GDP by Country Web Page
 - GDP by Country Search Bar
 - GDP by Country - Country Name on Tab
 - GDP Table

Element	Params	Action	Inputs Set
WorldOMeters Web Page	...	Navigate	Yes

Pause After Each Step (timespan/secs)

Move Up Move Down Add Remove

Name	Datatype	Value
URL	Text	

Stage logging:

Warning threshold: Number of minutes (0 to disable)

OK Cancel

Expression Chooser

Create an expression using drag drop operations

Expression:

Validate Evaluate Expression

Functions

- Conversion
- Data
- Date
- Environment
- Exceptions
- File
- Logic
- Number
- Text

Function Detail

Expression Function Builder

Use this area to compose a function statement and paste it into the expression.

Select a function from the list on the left. The function details and the required parameters will be shown here.

Complete the details either by entering values or by dragging in data items from the list on the right.

When the details are complete, send the

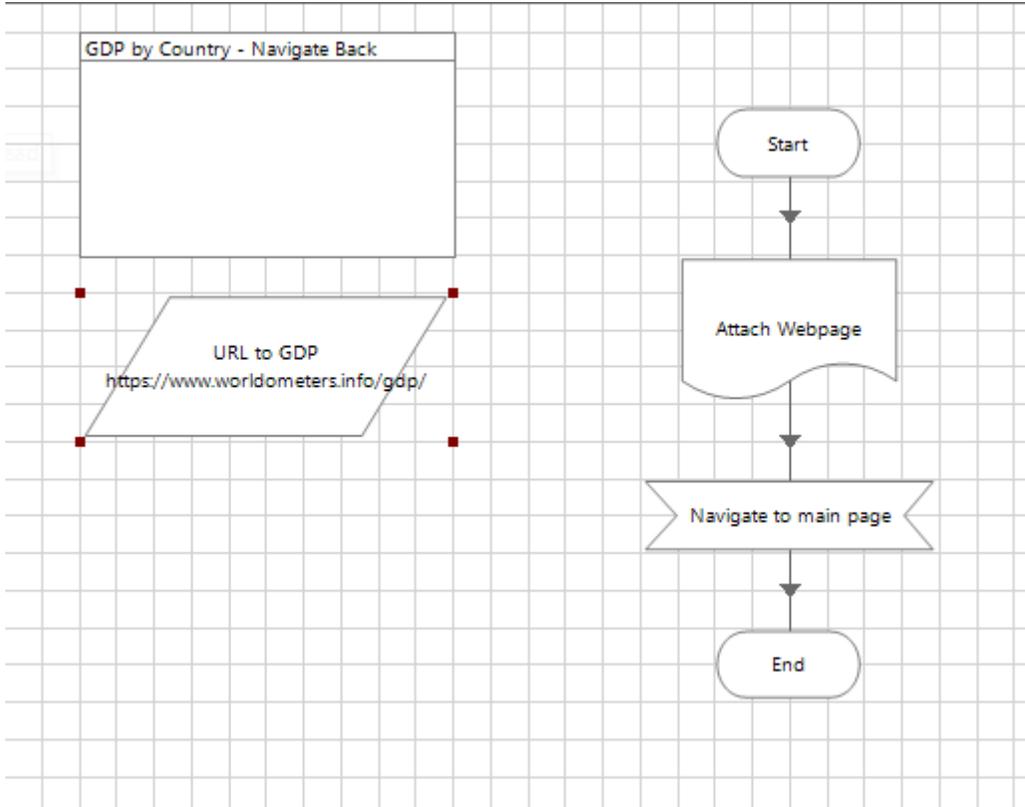
Data Items

Group: Page Data Type View All Items

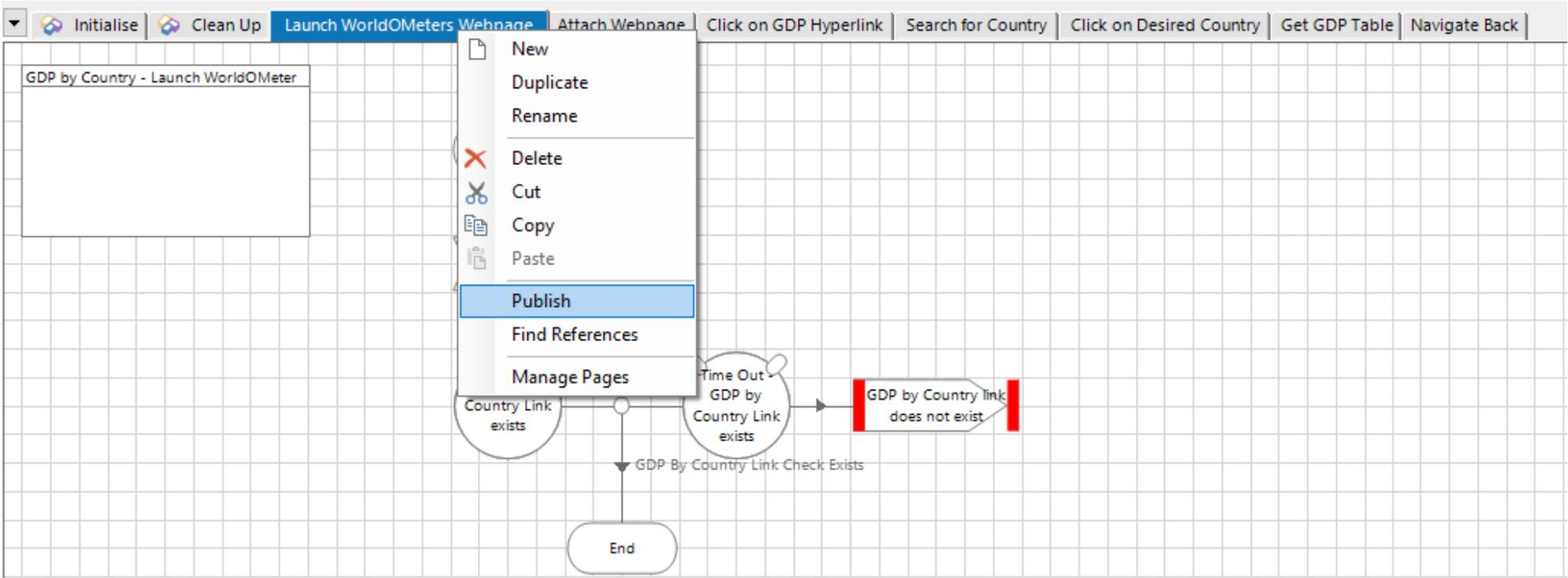
- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
 - Country Name
 - URL to GDP by Country**
- Times
- TimeSpans

OK Cancel

LINK ALL THE STAGES



RIGHT CLICK TO PUBLISH THE PAGES FROM OBJECT STUDIO



CHAPTER 4

*BluePrism
Studios*

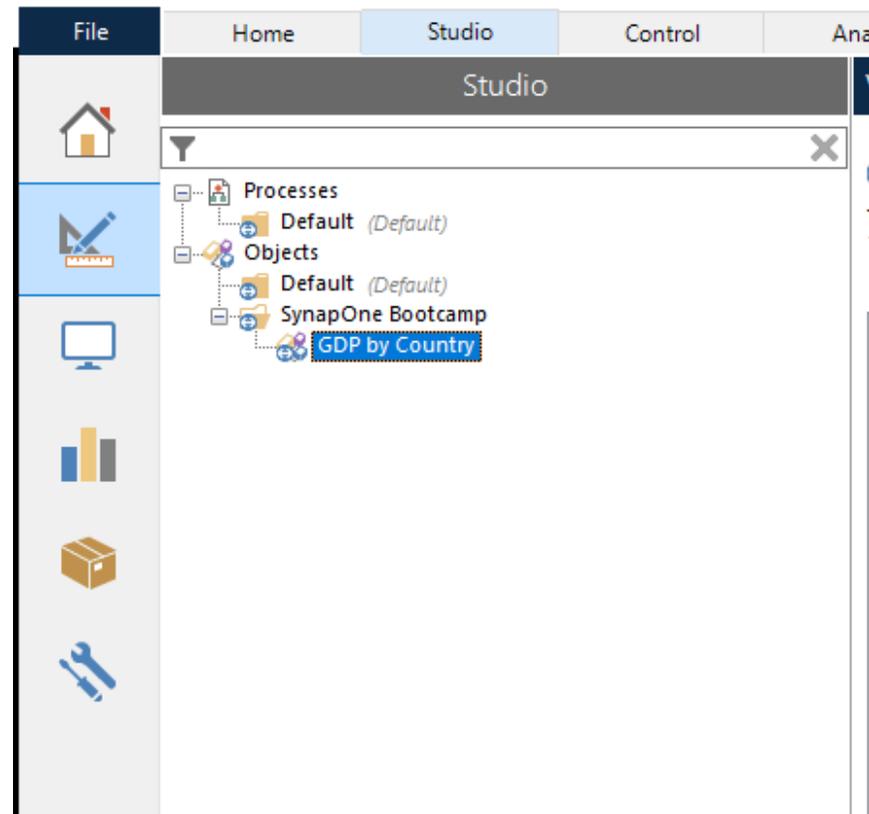
SECTION 4.1

*Creating a
BluePrism Studio
Process*

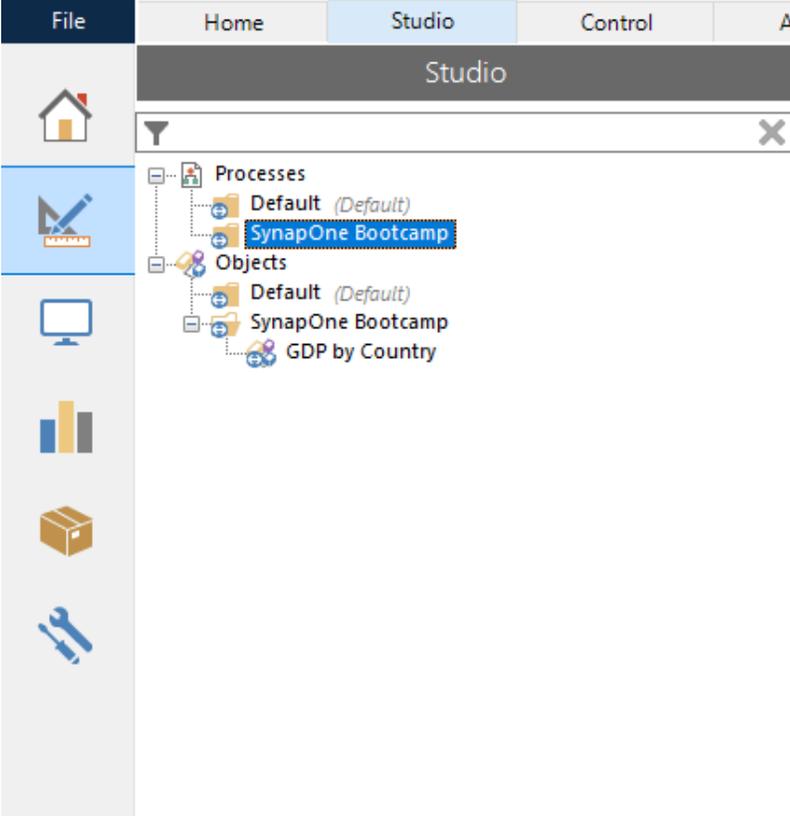
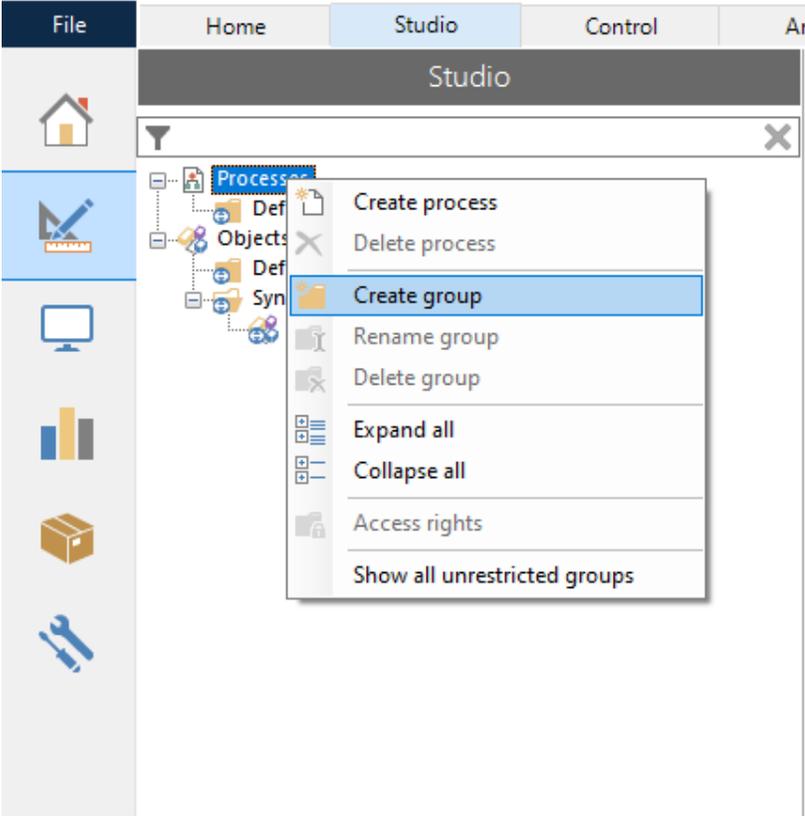
CREATING A BLUEPRISM STUDIO PROCESS

1. Navigate back to the BluePrism Studio
2. Right click the Process Studio object and create a new group
3. Right click the Synapone bootcamp group and create a new process
4. Enter a description for the process

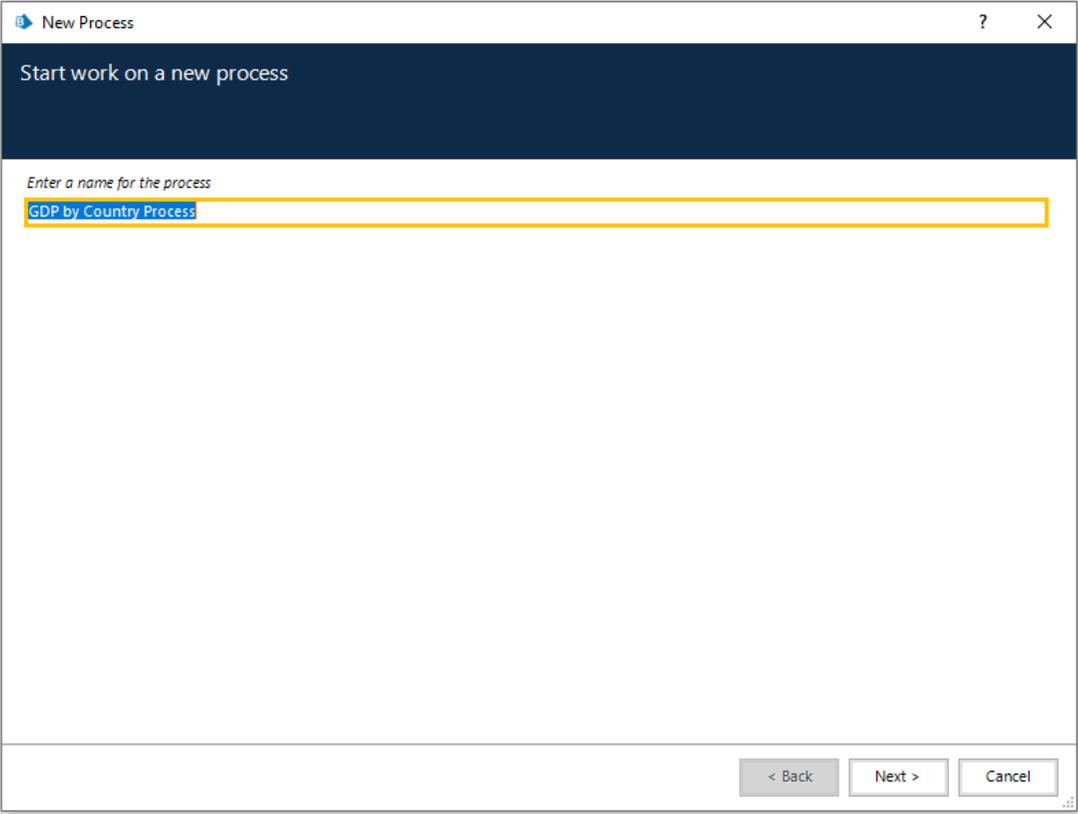
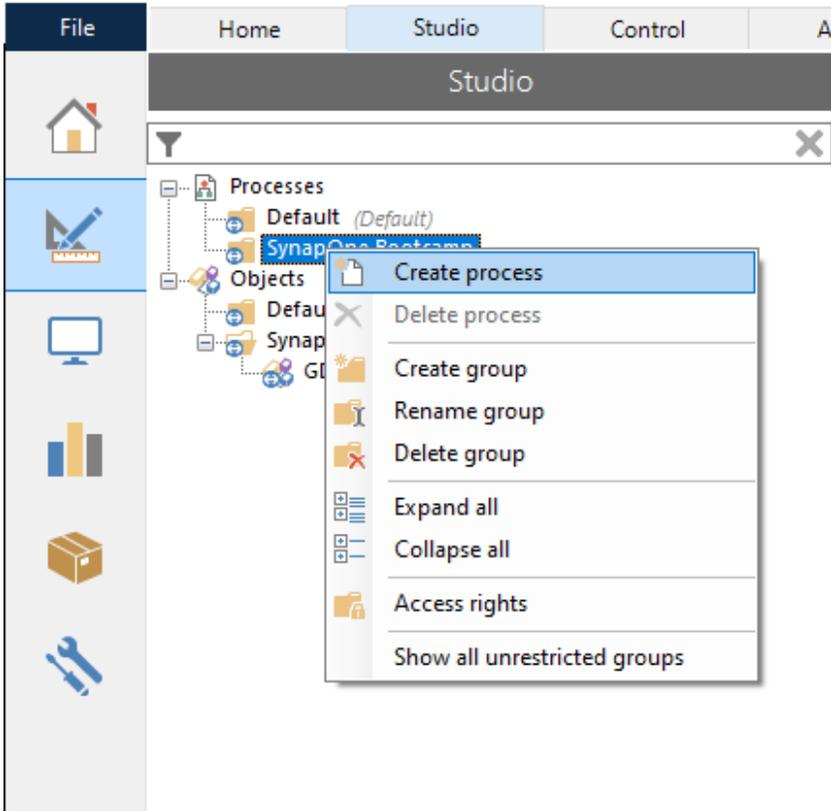
NAVIGATE BACK TO THE BLUEPRISM STUDIO



RIGHT CLICK THE PROCESS STUDIO OBJECT AND CREATE A NEW GROUP



RIGHT CLICK THE SYNAPONE BOOTCAMP GROUP AND CREATE A NEW PROCESS



ENTER A DESCRIPTION FOR THE PROCESS

The image displays two side-by-side screenshots of a 'New Process' dialog box. Both windows have a dark blue header with the text 'Start work on a new process' and a title bar with 'New Process', a question mark, and a close button. Below the header, the text 'Enter a description of the process' is displayed above a large text input field. The left screenshot shows an empty text input field. The right screenshot shows the same dialog box with the text 'This Process will help with extracting the GDP by Country exercise for SynapOne' entered into the text input field. At the bottom of each window, there are three buttons: '< Back', 'Finish', and 'Cancel'.

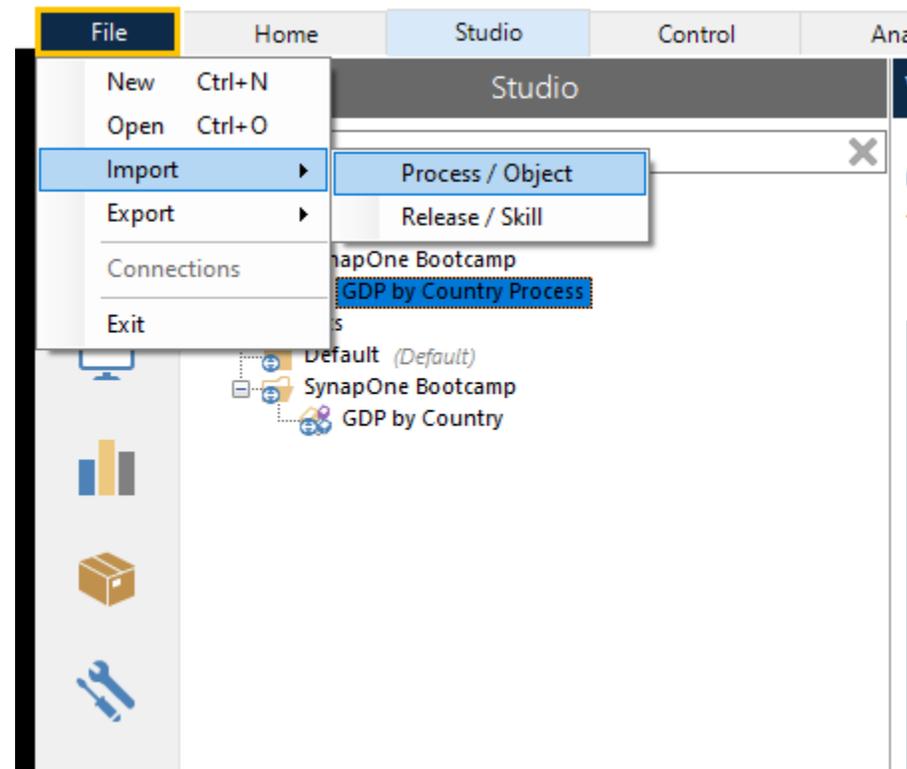
SECTION 4.2

Importing VBOs

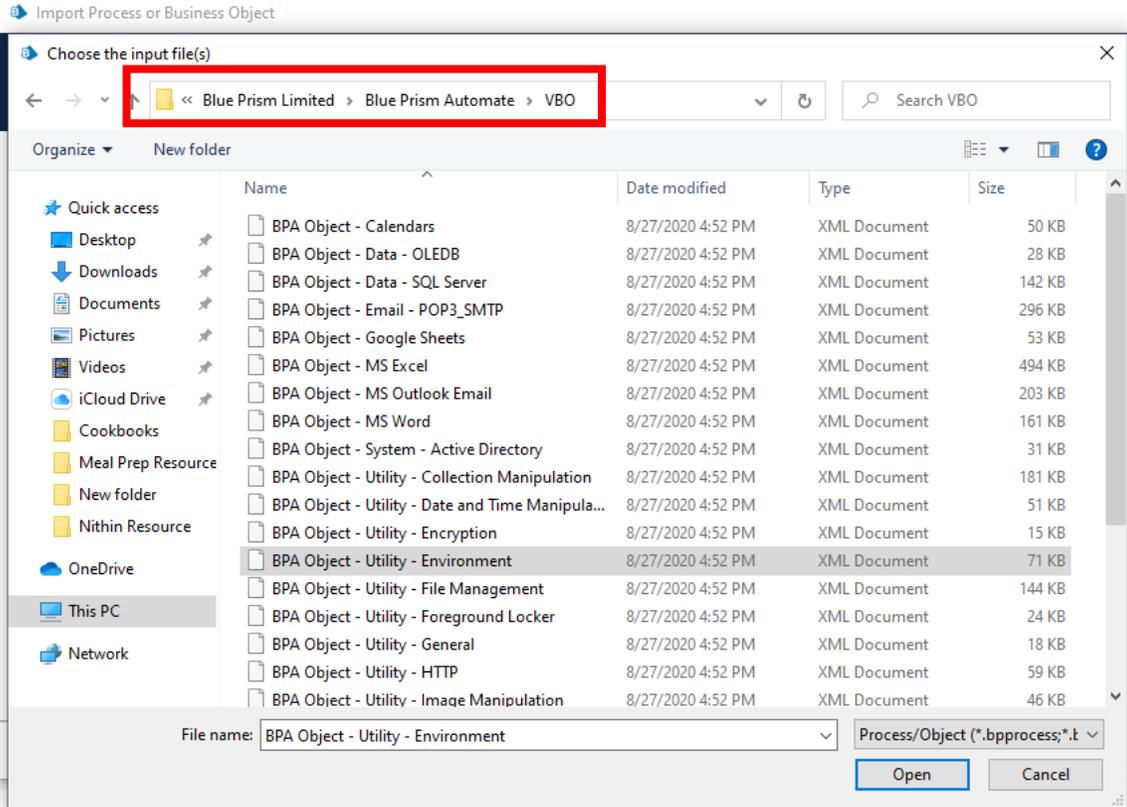
IMPORTING VBOS

1. In the top left-hand corner select the file option and navigate through Import to Process / object
2. Select browse and Navigate through to - C:\Program Files\Blue Prism Limited\Blue Prism Automate\VBO
3. Select the “BPA Object - Utility - Environment” and select open
4. Select the default “Next” till you reach the finish screen
5. Use the same steps to import BPA Object MS Excel & Outlook

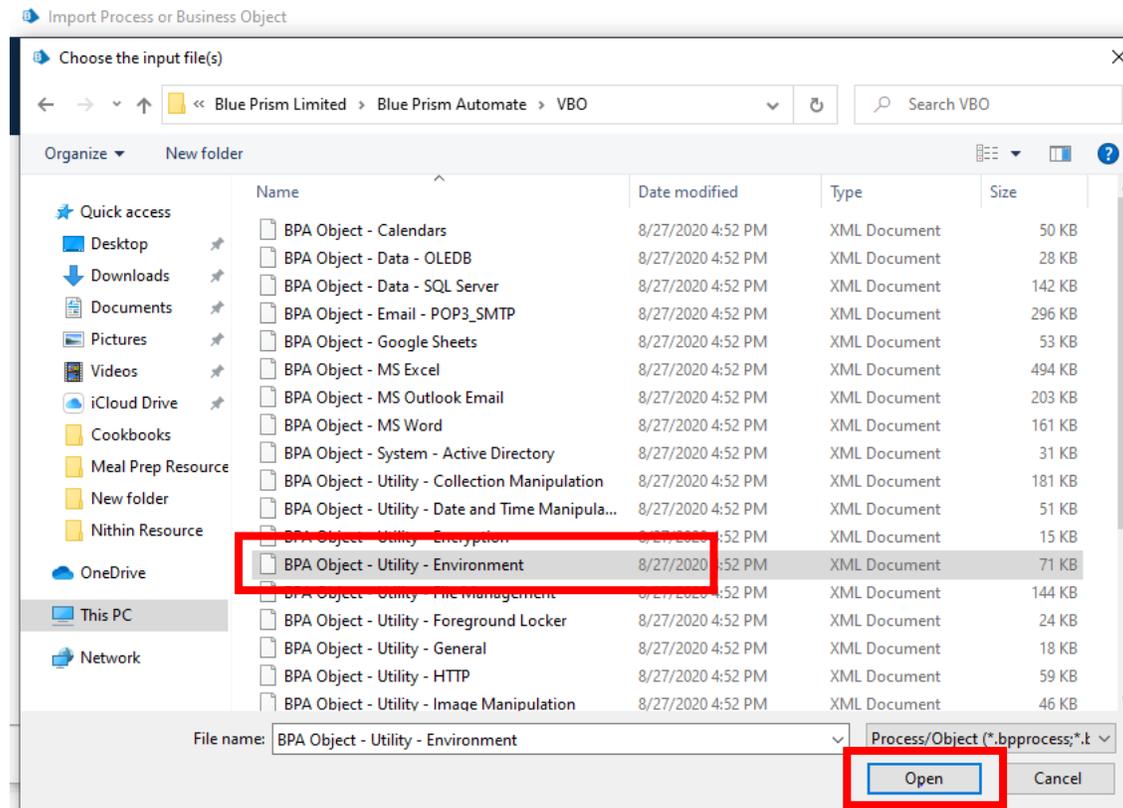
IN THE TOP LEFT HAND CORNER SELECT THE FILE OPTION AND NAVIGATE THROUGH IMPORT TO PROCESS / OBJECT



SELECT BROWSE AND NAVIGATE THROUGH TO - C:\PROGRAM FILES\BLUE PRISM LIMITED\BLUE PRISM AUTOMATE\VBO



SELECT THE BPA OBJECT - UTILITY - ENVIRONMENT AND SELECT OPEN



SELECT THE DEFAULT “NEXT” TILL YOU REACH THE FINISH SCREEN

Import Process or Business Object

Import Report

Process / Object Name	Imported	Issue	Resolution	Additional Information
Utility - Environment	✓			

Export

< Back Finish Cancel

USE THE SAME STEPS TO IMPORT

- BPA Object MS Excel
- BPA Object MS Outlook Email

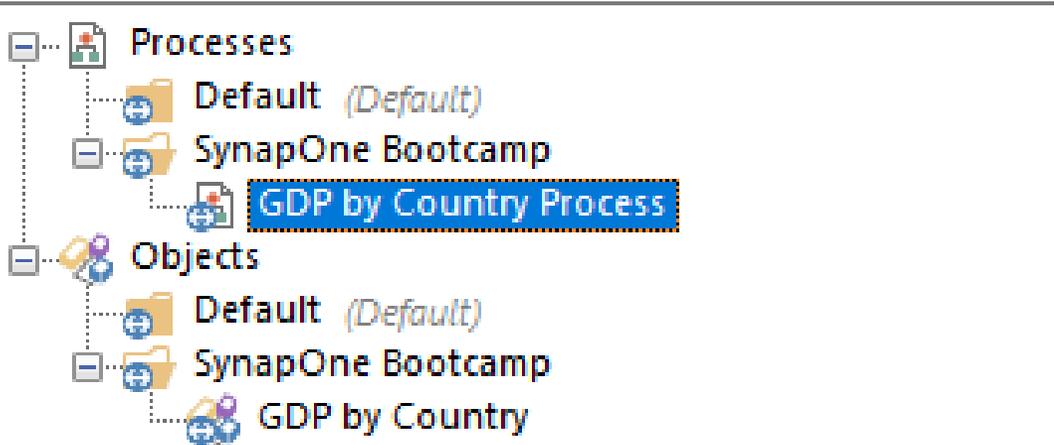
SECTION 4.3

*Creating New
Processes*

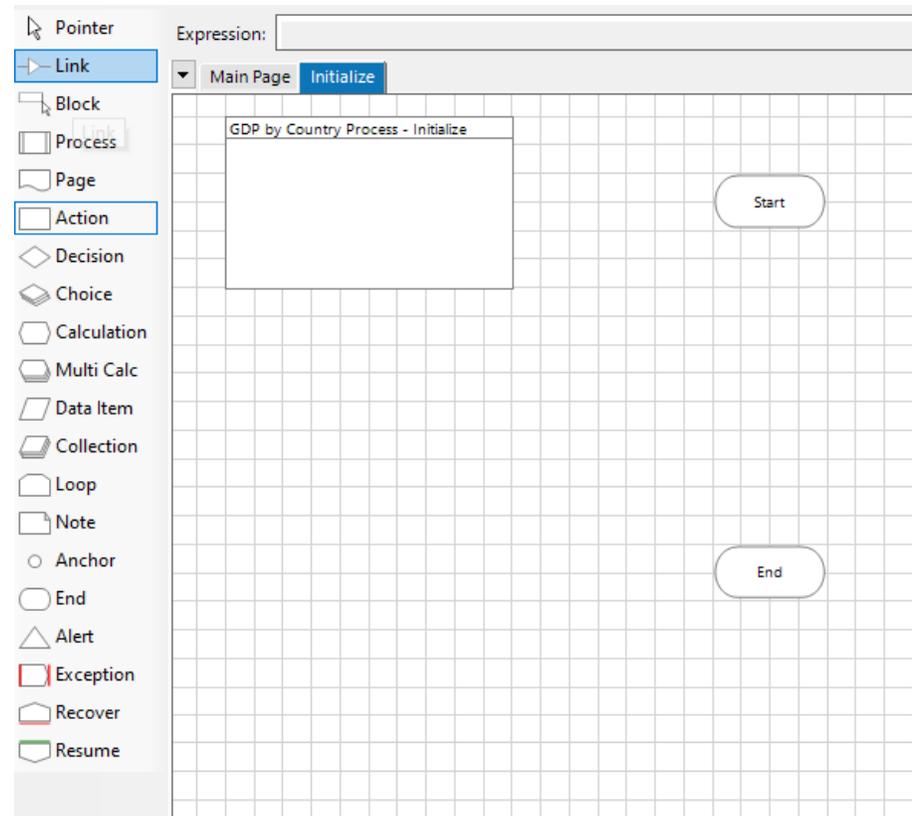
CREATING A NEW BP STUDIO PROCESS

1. Open the GDP by country process
2. Create a new page named “Initialize”
3. Create a Collection stage with the new field name “processes”
4. Navigate to the initial values tab and add “EXCEL” and “IEXPLORE”
5. Drag and drop the “Action” Tool
6. Double click the action properties
7. In the business objects dropdown select “Utility - environment” and in action select “Kill Process
8. Drag the “[Process.Process]” text value to the value in the inputs and select “OK”
9. Create a Loop section between the action stage
10. Double click to open the loop properties
11. Link All Stages

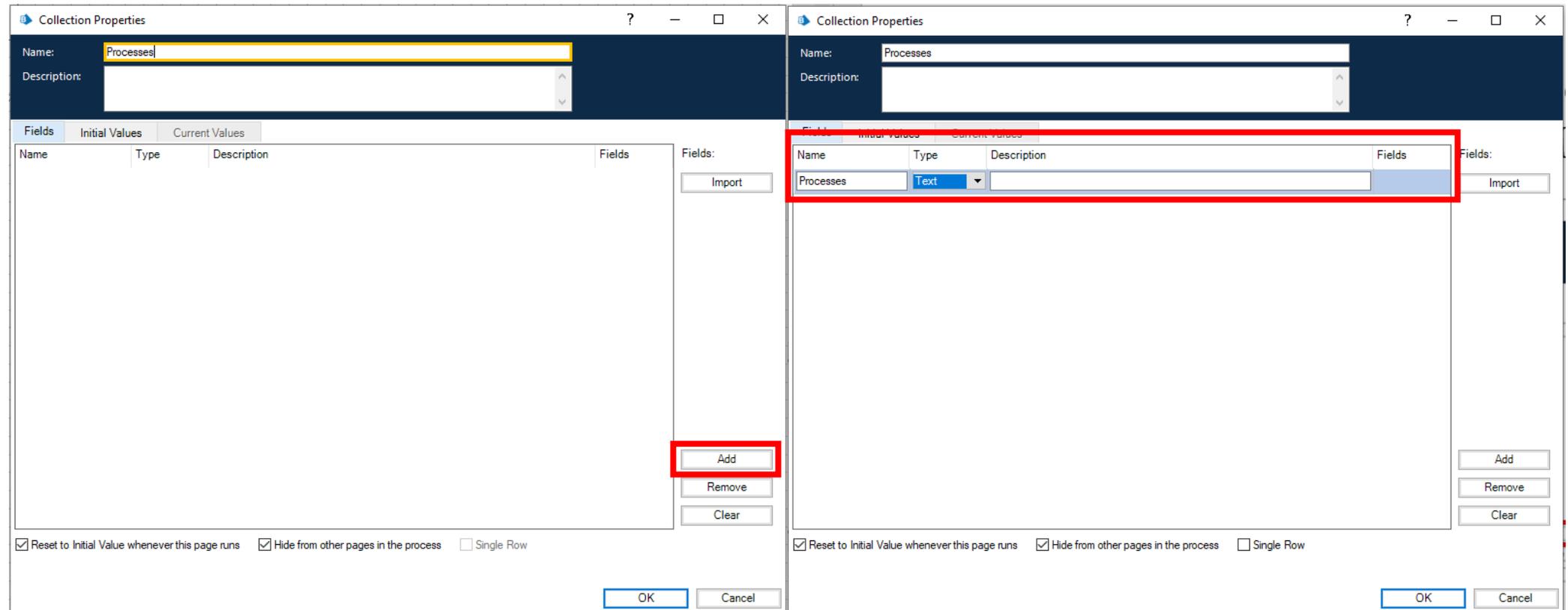
OPEN THE GDP BY COUNTRY PROCESS



CREATE A NEW PAGE NAMED “INITIALIZE”



CREATE A COLLECTION STAGE WITH THE NEW FIELD NAME “PROCESSES”

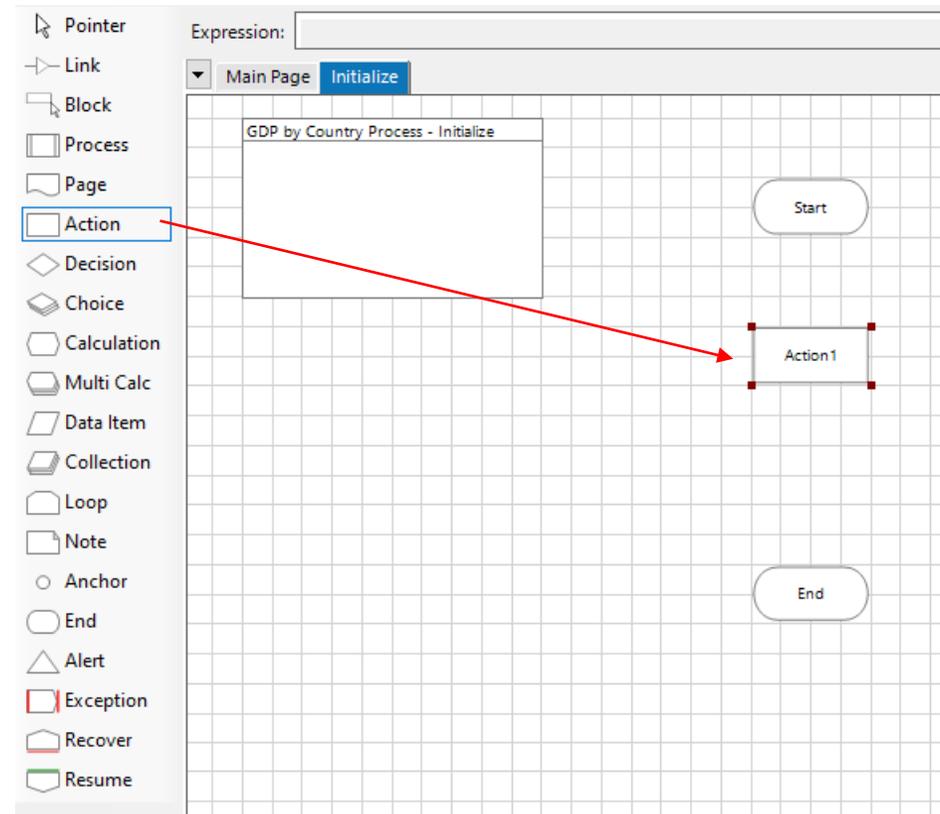


NAVIGATE TO THE INITIAL VALUES TAB
AND ADD “EXCEL” AND “IEXPLORE”

The screenshot shows the 'Collection Properties' dialog box with the 'Initial Values' tab selected. The 'Name' field is 'Processes' and the 'Description' field is empty. The 'Initial Values' tab is highlighted with a red box. Below the tab, the 'Processes (Text)' field contains 'EXCEL' and 'IEXPLORE'. The 'IEXPLORE' entry is highlighted with a yellow box. The 'Add' and 'Remove' buttons are visible on the right side of the dialog. At the bottom, there are checkboxes for 'Reset to Initial Value whenever this page runs' (checked), 'Hide from other pages in the process' (checked), and 'Single Row' (unchecked). The 'OK' and 'Cancel' buttons are at the bottom right.

Fields	Initial Values	Current Values
	Processes (Text)	
	EXCEL	
	IEXPLORE	

DRAG AND DROP THE “ACTION” TOOL



DOUBLE CLICK THE ACTION PROPERTIES

Action Properties

Name:

Description:

Business Object:

Action:

Inputs | Outputs | Conditions

Name	Data Type	Value
------	-----------	-------

Group:

Page Data Type

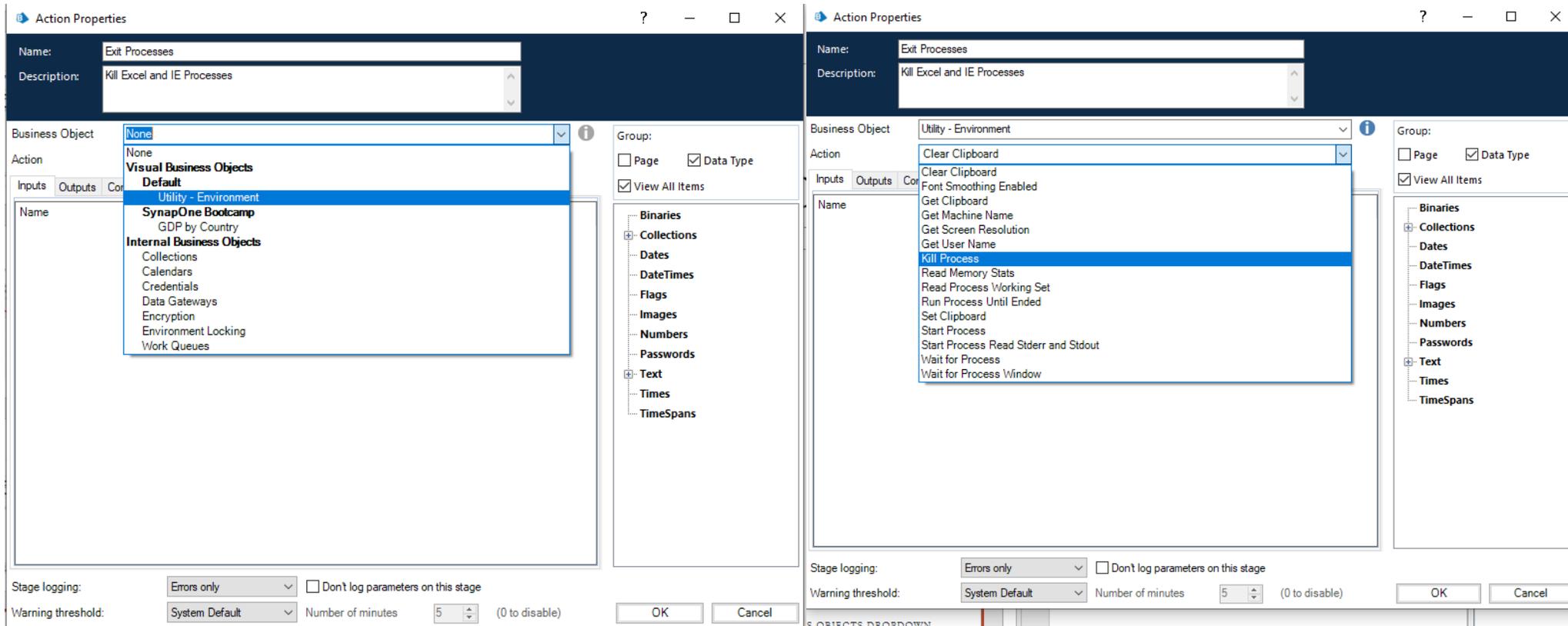
View All Items

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

IN THE BUSINESS OBJECTS DROPDOWN
SELECT “UTILITY - ENVIRONMENT” AND IN
ACTION SELECT “KILL PROCESS”



DRAG THE “[PROCESS.PROCESS]” TEXT VALUE TO THE VALUE IN THE INPUTS AND SELECT “OK”

Action Properties

Name:

Description:

Business Object:

Action:

Inputs Outputs Conditions

Name	Data Type	Value
Process Name	Text	[Processes.Processes]

Group:

Page Data Type

View All Items

Binaries

Collections

Processes

Processes.Processes

Dates

DateTimes

Flags

Images

Numbers

Passwords

Text

Processes.Processes

Times

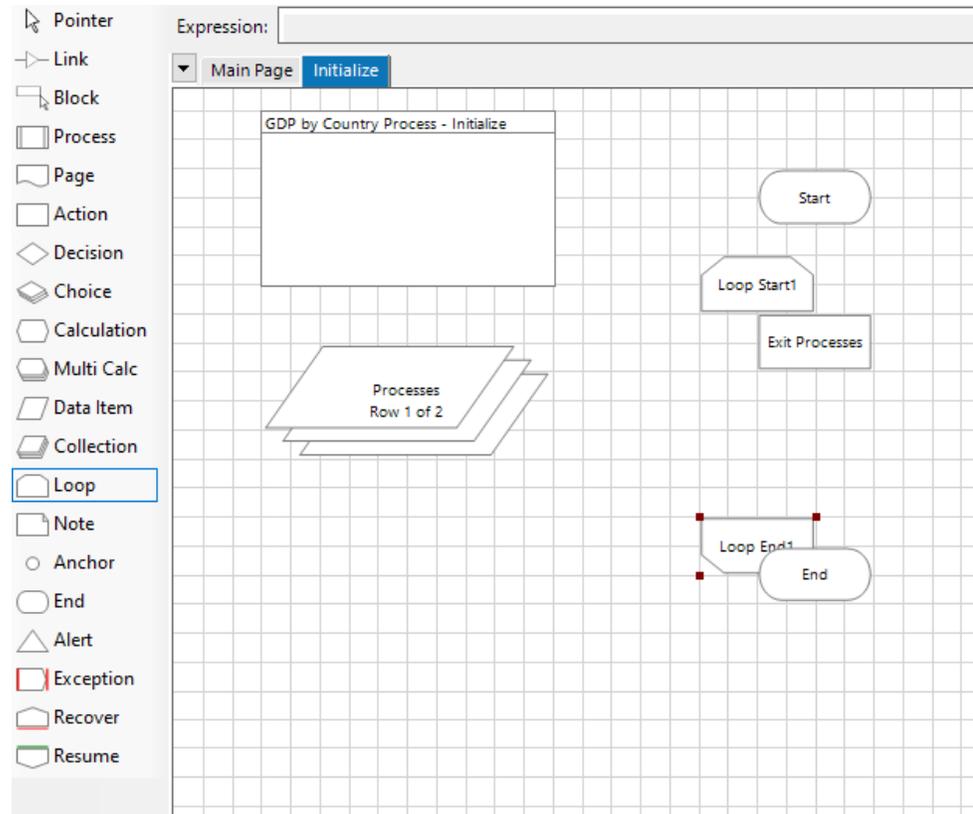
TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

OK Cancel

CREATE A LOOP SECTION BETWEEN THE ACTION STAGE



DOUBLE CLICK TO OPEN THE LOOP PROPERTIES

Loop Properties

Name: Kill Process

Description:

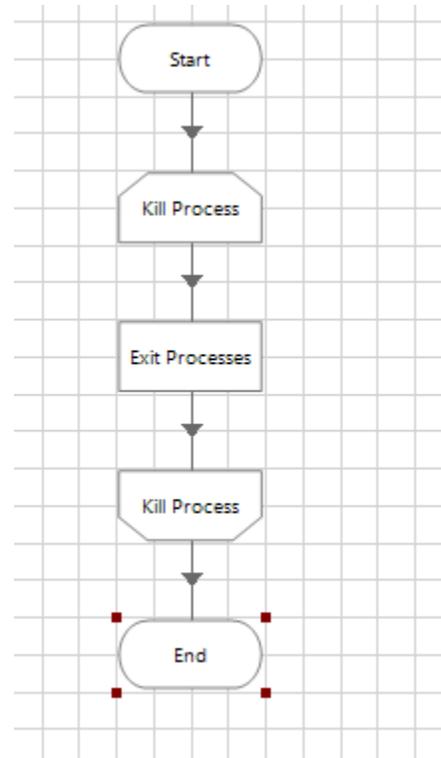
Collection: Processes

Stage logging: Errors only

Warning threshold: System Default Number of minutes: 5 (0 to disable)

OK Cancel

LINK ALL STAGES



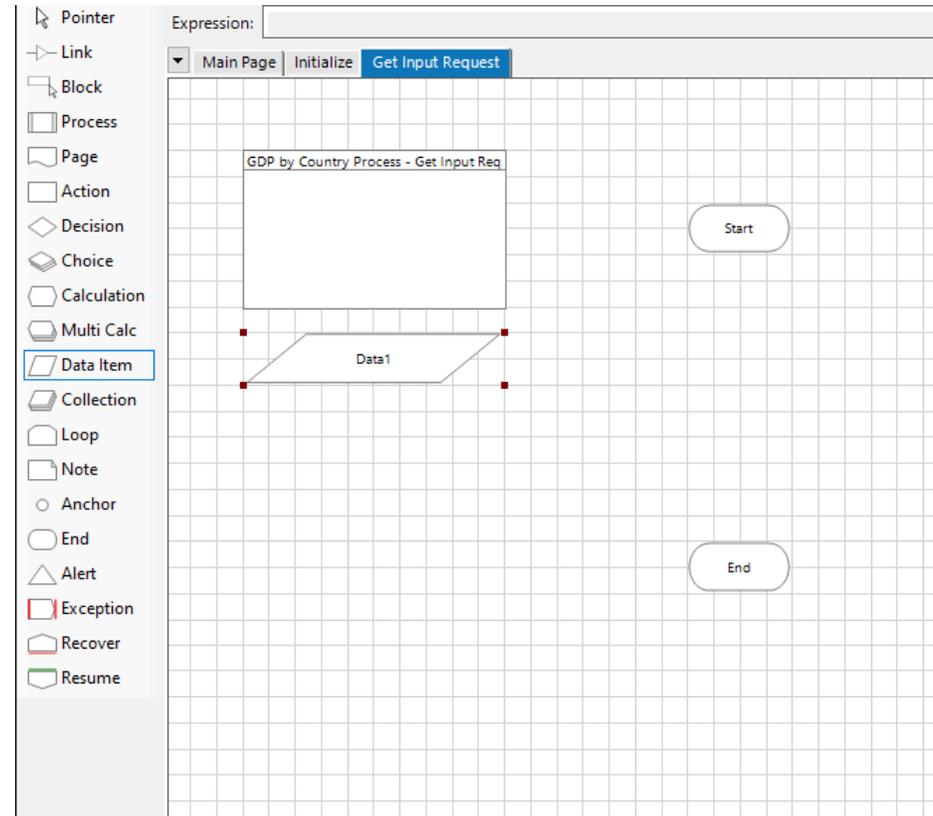
SECTION 4.4

Get input requests

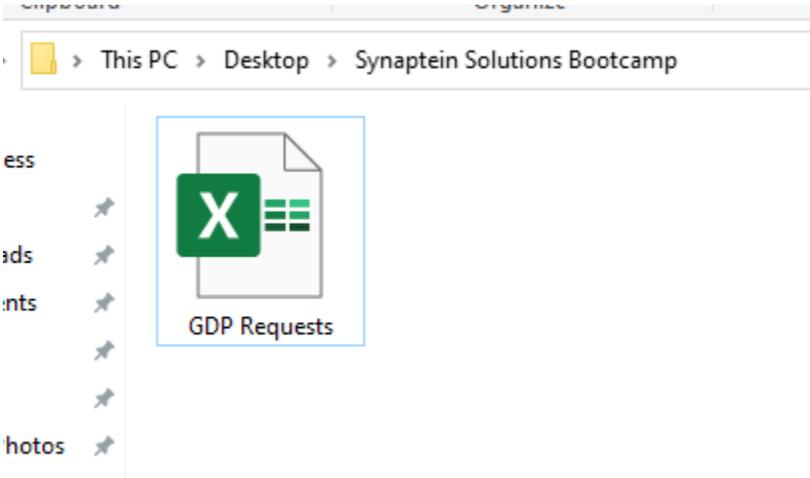
CREATING A NEW BP STUDIO PROCESS

1. Create a new page called “Get Input Requests”
2. Save the excel file to a folder you can easily find, I have used the desktop
3. Create a data item and use it to store the excel file Path
4. Create another action stage to create an instance of excel and in the “output” tab create a handle data value
5. Create an action stage to open workbook and add the handle and excel file name data to the VALUE
6. Go to the output tab and store the data output as workbook name
7. Create another action tool to activate workbook and add the data by dragging and dropping
8. Create an action stage to get worksheet and save the output using the “store in” button
9. Navigate to the system tab and the work queue section and create new queue
10. Create a data tab the exact same name as the queue
11. Create an action stage to add data to the queue
12. Link all the stages

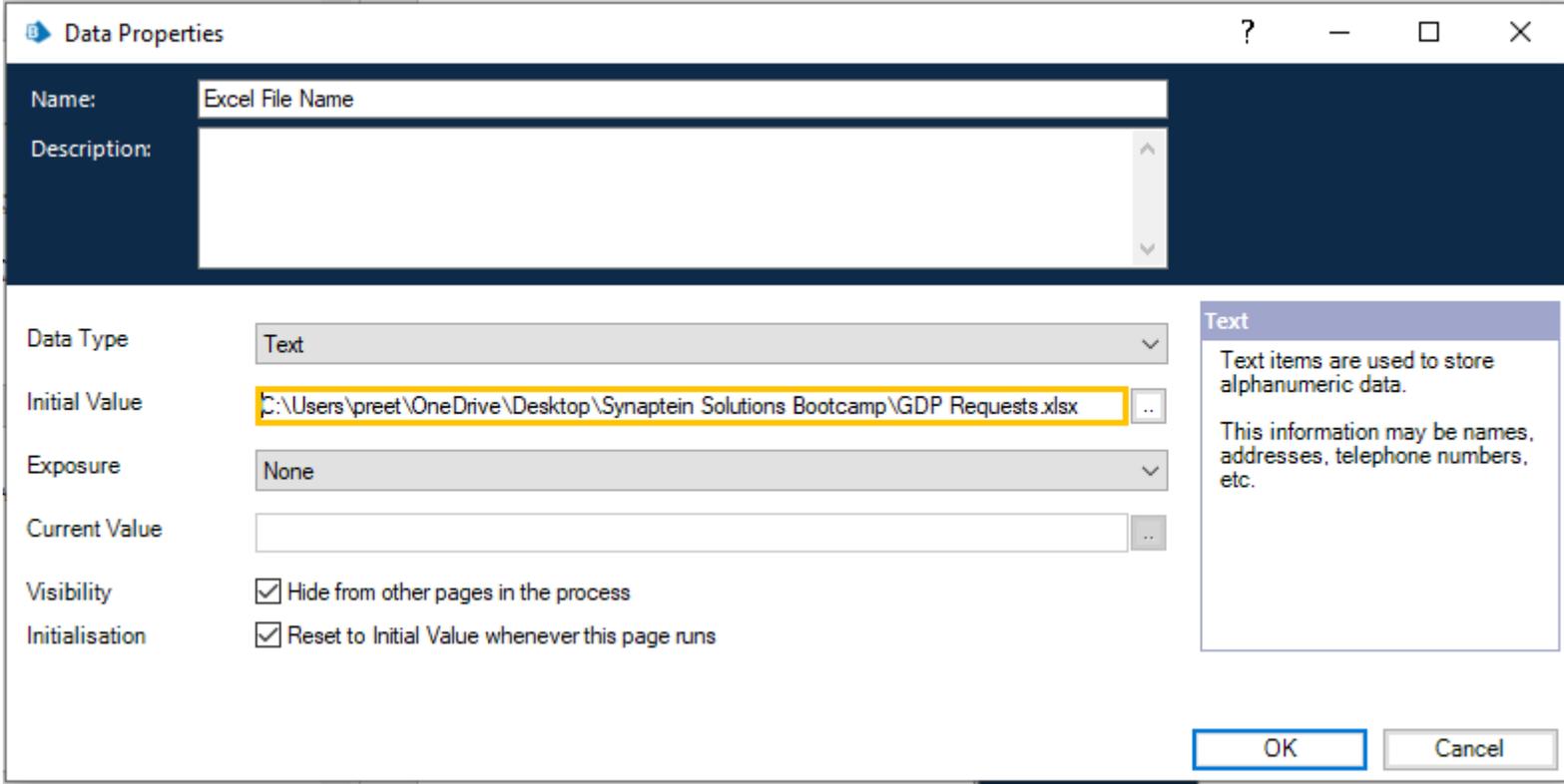
CREATE A NEW PAGE CALLED “GET INPUT REQUESTS”



SAVE THE EXCEL FILE TO A FOLDER YOU CAN EASILY FIND, I HAVE USED THE DESKTOP



CREATE A DATA ITEM AND USE IT TO STORE THE EXCEL FILE PATH



CREATE ANOTHER ACTION STAGE TO CREATE AN INSTANCE OF EXCEL AND IN THE “OUTPUT” TAB CREATE A HANDLE DATA VALUE

The image displays two side-by-side screenshots of the 'Action Properties' dialog box for the 'MS Excel VBO::Create Instance' action. Both windows show the same configuration for the 'Business Object' (MS Excel VBO) and 'Action' (Create Instance). The left window is on the 'Inputs' tab, showing a table with one input: 'Enable Events' of type 'Flag'. The right window is on the 'Outputs' tab, showing a table with one output: 'handle' of type 'Number' and 'Store In' checked. Both windows also feature a 'Group' section with 'Page' unchecked and 'Data Type' checked, and a 'View All Items' checkbox. The bottom of each window includes 'Stage logging' options (set to 'Errors only') and a 'Warning threshold' of 5 minutes.

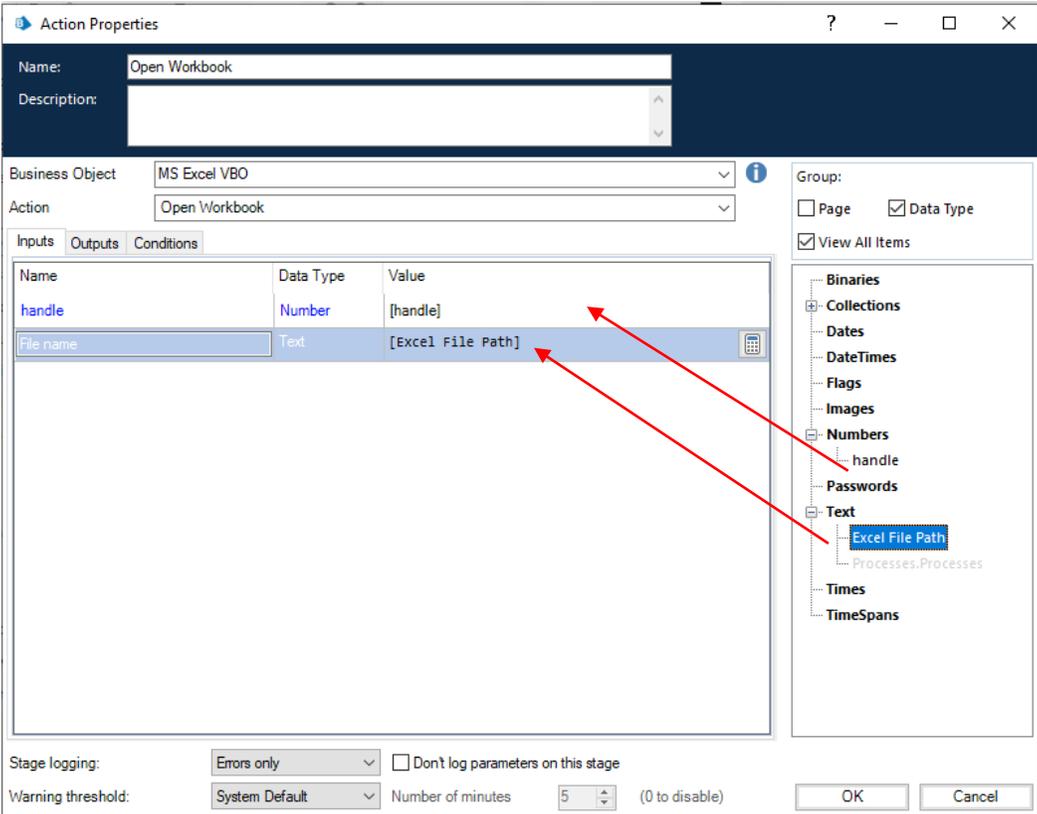
Left Screenshot (Inputs Tab):

Name	Data Type	Value
Enable Events	Flag	

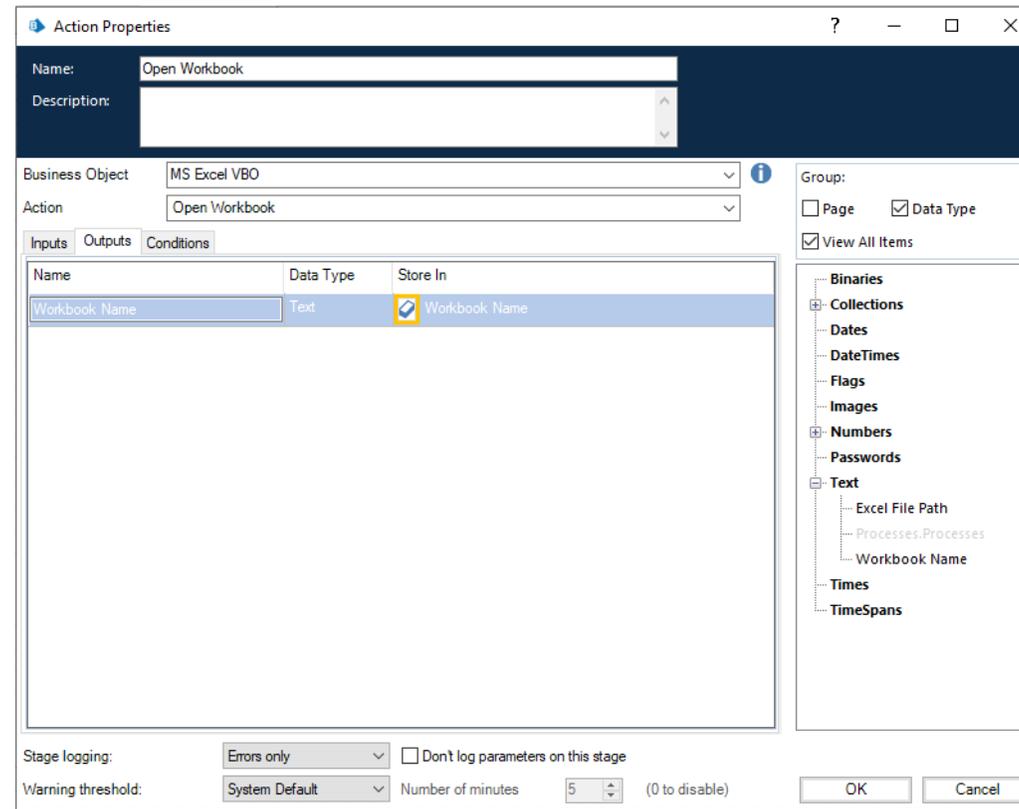
Right Screenshot (Outputs Tab):

Name	Data Type	Store In
handle	Number	<input checked="" type="checkbox"/> handle

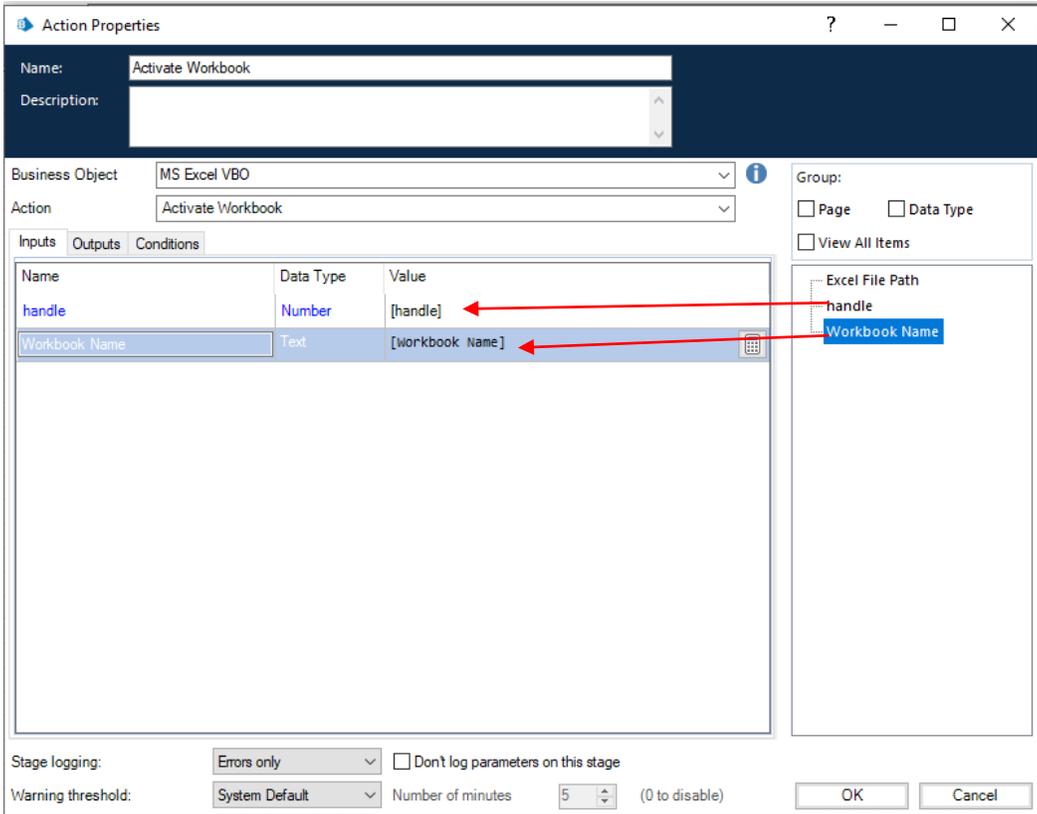
CREATE AN ACTION STAGE TO OPEN WORKBOOK AND ADD THE HANDLE AND EXCEL FILE NAME DATA TO THE VALUE



GO TO THE OUTPUT TAB AND STORE THE DATA OUTPUT AS WORKBOOK NAME



CREATE ANOTHER ACTION TOOL TO ACTIVATE WORKBOOK AND ADD THE DATA BY DRAGGING AND DROPPING



CREATE AN ACTION STAGE TO GET WORKSHEET AND SAVE THE OUTPUT USING THE “STORE IN” BUTTON

The image displays two side-by-side screenshots of the 'Action Properties' dialog box, illustrating the configuration of an action stage to get a worksheet and save the output.

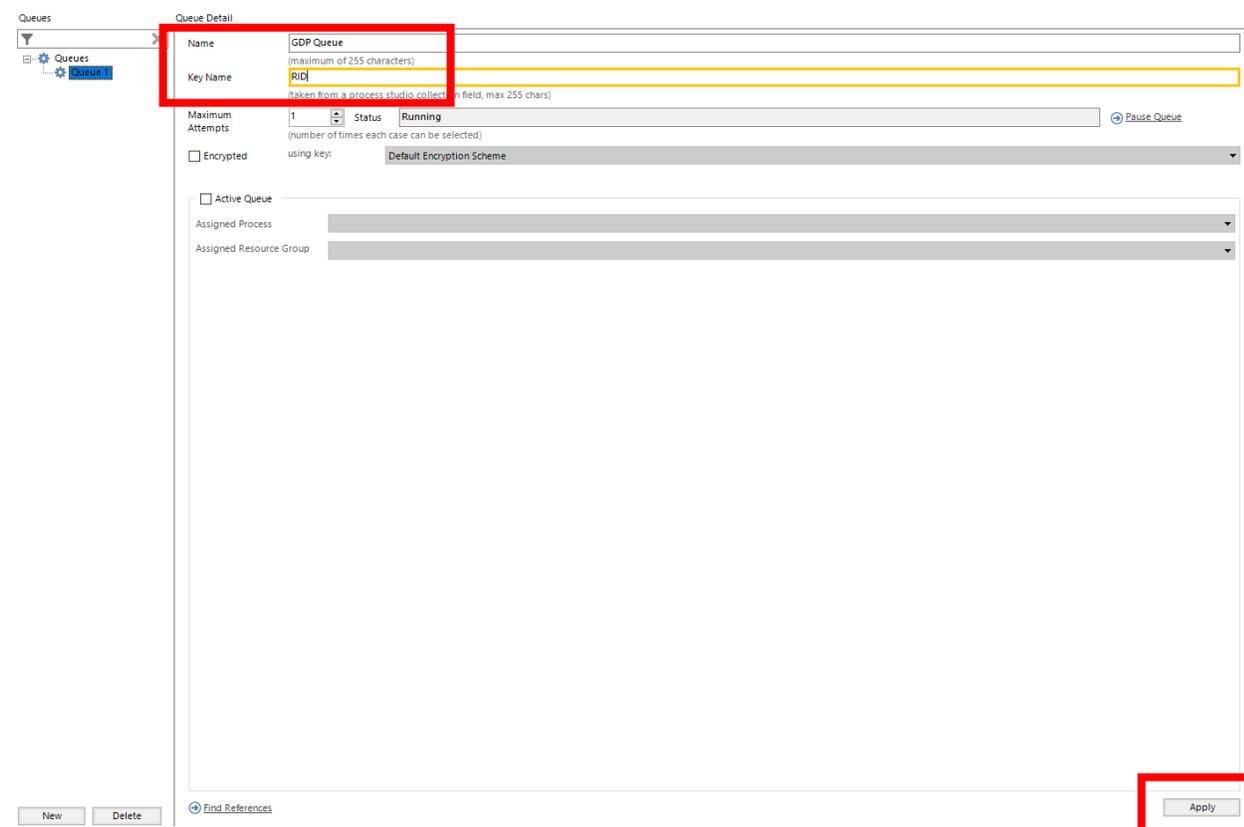
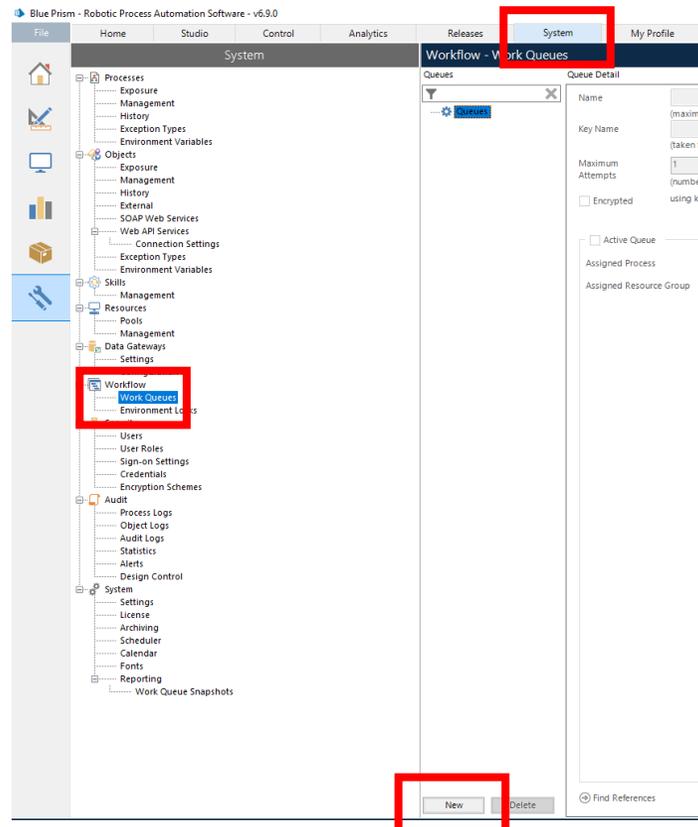
Left Screenshot:

- Name:** Get worksheet as collection
- Description:** (empty)
- Business Object:** MS Excel VBO
- Action:** Get Worksheet As Collection (Fast)
- Group:** Page Data Type View All Items
- Inputs Tab:** A table with columns 'Name', 'Data Type', and 'Value'. The table is currently empty.
- Stage logging:** Errors only (selected), Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)
- Buttons:** OK, Cancel

Right Screenshot:

- Name:** Get worksheet as collection
- Description:** (empty)
- Business Object:** MS Excel VBO
- Action:** Get Worksheet As Collection (Fast)
- Group:** Page Data Type View All Items
- Outputs Tab:** A table with columns 'Name', 'Data Type', and 'Store In'. The 'Data' row is highlighted, and 'Input Collection' is selected in the 'Store In' column.
- Stage logging:** Errors only (selected), Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)
- Buttons:** OK, Cancel

NAVIGATE TO THE SYSTEM TAB AND THE WORK QUEUE SECTION AND CREATE NEW QUEUE



CREATE A DATA TAB THE EXACT SAME NAME AS THE QUEUE

The screenshot shows a 'Data Properties' dialog box with the following fields and options:

- Name:** GDP Queue (highlighted with a yellow border)
- Description:** (empty text area)
- Data Type:** Text
- Initial Value:** GDP Queue
- Exposure:** None
- Current Value:** (empty text field)
- Visibility:** Hide from other pages in the process
- Initialisation:** Reset to Initial Value whenever this page runs

A 'Text' information box on the right contains the following text:

Text items are used to store alphanumeric data.
This information may be names, addresses, telephone numbers, etc.

Buttons for 'OK' and 'Cancel' are located at the bottom right.

CREATE AN ACTION STAGE TO ADD DATA TO THE QUEUE

The screenshot shows the 'Action Properties' dialog box for an 'Add to Queue' action. The dialog is configured with the following details:

- Name:** Add to Queue
- Description:** (Empty)
- Business Object:** Work Queues
- Action:** Add To Queue
- Group:** Data Type (checked), View All Items (checked)

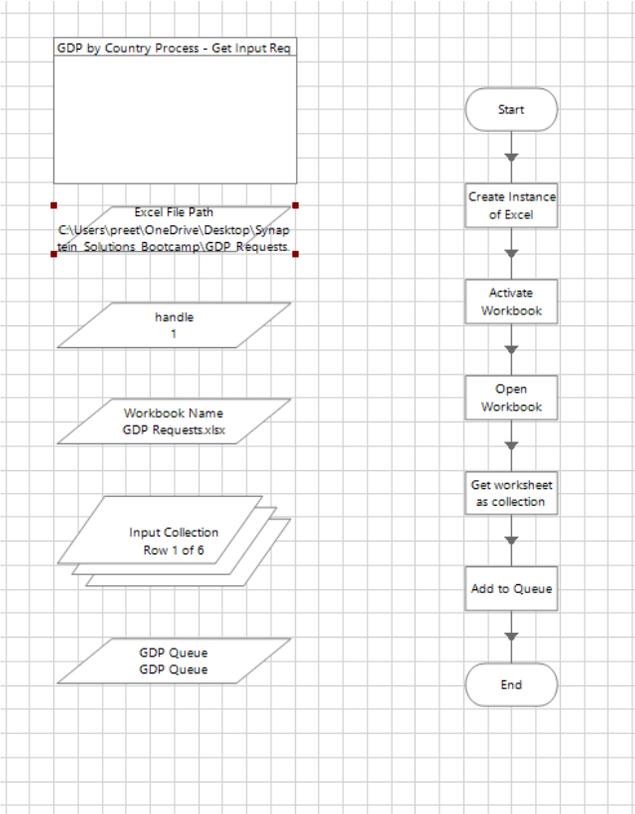
The 'Inputs' tab is active, showing a table with the following columns: Name, Data Type, and Value.

Name	Data Type	Value
Queue Name	Text	[GDP Queue]
Data	Collection	[Input Collection]
Defer Until	DateTime	
Priority	Number	
Tags	Text	"ItemAcquired"
Status	Text	"Received"
Batch Size	Number	

The right-hand side of the dialog features a tree view of data types. The 'Text' category is expanded, and 'GDP Queue' is selected. A red arrow points from 'GDP Queue' in the tree view to the 'Value' column of the 'Queue Name' row in the table. Another red arrow points from 'Input Collection' in the tree view to the 'Value' column of the 'Data' row in the table.

At the bottom of the dialog, there are settings for 'Stage logging' (Errors only) and 'Warning threshold' (System Default, 5 minutes). 'OK' and 'Cancel' buttons are located at the bottom right.

LINK ALL THE STAGES



SECTION 4.5

Get GDP Table

GET GDP TABLE

1. Create a new page with the name “Get GDP Table”
2. Create a new action stage to
 1. Launch the Country by GDP business object
 2. Click on GDP Hyperlink
 3. Search for country
 4. Click on desired country
 5. Get the GDP table and store output in a collection
3. Link all the stages

LAUNCH GDP BY COUNTRY BUSINESS OBJECT

Action Properties

Name:

Description:

Business Object:

Action:

Inputs | Outputs | Conditions

Name	Data Type	Value
------	-----------	-------

Group:

Page Data Type

View All Items

- Binaries
- [-] Collections
- Dates
- DateTimes
- Flags
- Images
- [-] Numbers
- Passwords
- [-] Text
- Times
- TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

OK Cancel

CLICK ON GDP HYPERLINK

Action Properties

Name:

Description:

Business Object:

Action:

Inputs | Outputs | Conditions

Name	Data Type	Value
------	-----------	-------

Group: Page Data Type View All Items

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

OK Cancel

SEARCH FOR COUNTRY

The screenshot shows the 'Action Properties' dialog box for an action named 'Search for Country'. The dialog is titled 'Action Properties' and has a dark blue header. The 'Name' field is highlighted in yellow and contains the text 'Search for Country'. The 'Description' field is empty. The 'Business Object' is set to 'GDP by Country' and the 'Action' is 'Search for Country'. The 'Inputs' tab is selected, showing a table with one input: 'Country Name' of type 'Text'. The 'Outputs' and 'Conditions' tabs are also visible. On the right side, there are checkboxes for 'Page' (unchecked), 'Data Type' (checked), and 'View All Items' (checked). Below these is a tree view of data types: Binaries, Collections, Dates, DateTimes, Flags, Images, Numbers, Passwords, Text, Times, and TimeSpans. At the bottom, there are settings for 'Stage logging' (set to 'Errors only') and 'Warning threshold' (set to 'System Default' with a value of 5 minutes). 'OK' and 'Cancel' buttons are at the bottom right.

Name: Search for Country

Description:

Business Object: GDP by Country

Action: Search for Country

Inputs Outputs Conditions

Name	Data Type	Value
Country Name	Text	

Group: Page Data Type View All Items

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CLICK ON DESIRED COUNTRY

Action Properties

Name:

Description:

Business Object:

Action:

Inputs | Outputs | Conditions

Name	Data Type	Value
------	-----------	-------

Group:

Page Data Type

View All Items

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

GET THE GDP TABLE AND STORE OUTPUT IN A COLLECTION

The image displays two side-by-side screenshots of the 'Action Properties' dialog box, illustrating the configuration of an action to retrieve GDP data and store it in a collection.

Left Screenshot:

- Name:** Get GDP Table
- Description:** (Empty)
- Business Object:** GDP by Country
- Action:** Get GDP Table
- Group:** Page Data Type
- View All Items:**
- Inputs/Outputs/Conditions:** (Empty table)
- Data Type Selection:** Collections, Dates, DateTimes, Flags, Images, Numbers, Passwords, Text, Times, TimeSpans
- Stage logging:** Errors only, Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)

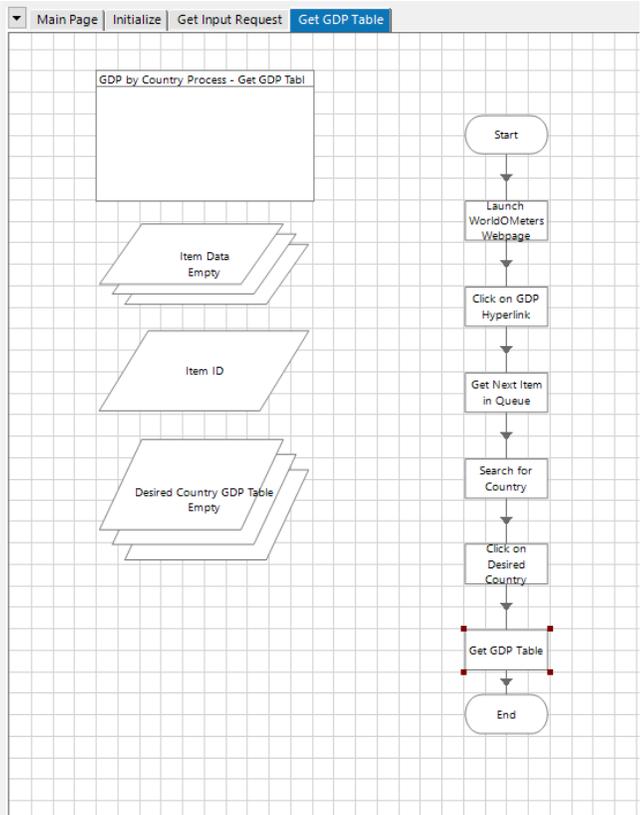
Right Screenshot:

- Name:** Get GDP Table
- Description:** (Empty)
- Business Object:** GDP by Country
- Action:** Get GDP Table
- Group:** Page Data Type
- View All Items:**
- Inputs/Outputs/Conditions:**

Name	Data Type	Store In
Desired Country GDP Table	Collection	<input checked="" type="checkbox"/> Desired Country GDP Table

- Data Type Selection:** Binaries, Collections, Dates, DateTimes, Flags, Images, Numbers, Passwords, Text, Times, TimeSpans
- Stage logging:** Errors only, Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)

LINK ALL THE STAGES



SECTION 4.6

*Write Output
Data*

GET GDP TABLE

1. Create a new page with the name “Write Output Data”
2. Create a new Data Item to link to the path of the Output Excel File
3. Create an action stage to
 1. Open an instance of excel and store the handle in a new data item
 2. Open an excel workbook and save the output
 3. Show the excel workbook
 4. Create worksheet
 5. Write collection
 6. Save current workbook
 7. Close instance

CREATE A NEW DATA ITEM TO LINK TO THE PATH OF THE OUTPUT EXCEL FILE

Data Properties

Name: Output Excel File

Description:

Data Type: Text

Initial Value: C:\Users\preet\OneDrive\Desktop\Synaptein Solutions Bootcamp\OutputGDP.xlsx

Exposure: None

Current Value:

Visibility: Hide from other pages in the process

Initialisation: Reset to Initial Value whenever this page runs

Text

Text items are used to store alphanumeric data.

This information may be names, addresses, telephone numbers, etc.

OK Cancel

CREATE AN ACTION STAGE TO OPEN ANOTHER INSTANCE OF EXCEL AND STORE THE HANDLE IN A NEW DATA ITEM

Action Properties

Name: MS Excel VBO::Create Instance
Description:

Business Object: MS Excel VBO
Action: Create Instance

Group: Page Data Type
 View All Items

Inputs Outputs Conditions

Name	Data Type	Value
Enable Events	Flag	

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage
Warning threshold: System Default Number of minutes: 5 (0 to disable)

OK Cancel

Action Properties

Name: MS Excel VBO::Create Instance
Description:

Business Object: MS Excel VBO
Action: Create Instance

Group: Page Data Type
 View All Items

Inputs Outputs Conditions

Name	Data Type	Store In
handle	Number	<input checked="" type="checkbox"/> handle

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- handle
- handle
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage
Warning threshold: System Default Number of minutes: 5 (0 to disable)

OK Cancel

CREATE AN ACTION STAGE TO OPEN AN EXCEL WORKBOOK AND SAVE THE OUTPUT

Action Properties

Name: MS Excel VBO::Open Workbook
Description:

Business Object: MS Excel VBO
Action: Open Workbook

Group: Page Data Type
 View All Items

Inputs Outputs Conditions

Name	Data Type	Value
handle	Number	[handle]
File name	Text	[Output Excel File]

- Processes
 - Dates
 - DateTimes
 - Flags
 - Images
 - Numbers
 - handle
 - handle
 - Passwords
 - Text
 - Excel File Path
 - GDP Queue
 - Item ID
 - Output Excel File
 - Processes.Processes
 - Workbook Name
 - Times

Stage logging: Errors only Don't log parameters on this stage
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

Action Properties

Name: MS Excel VBO::Open Workbook
Description:

Business Object: MS Excel VBO
Action: Open Workbook

Group: Page Data Type
 View All Items

Inputs Outputs Conditions

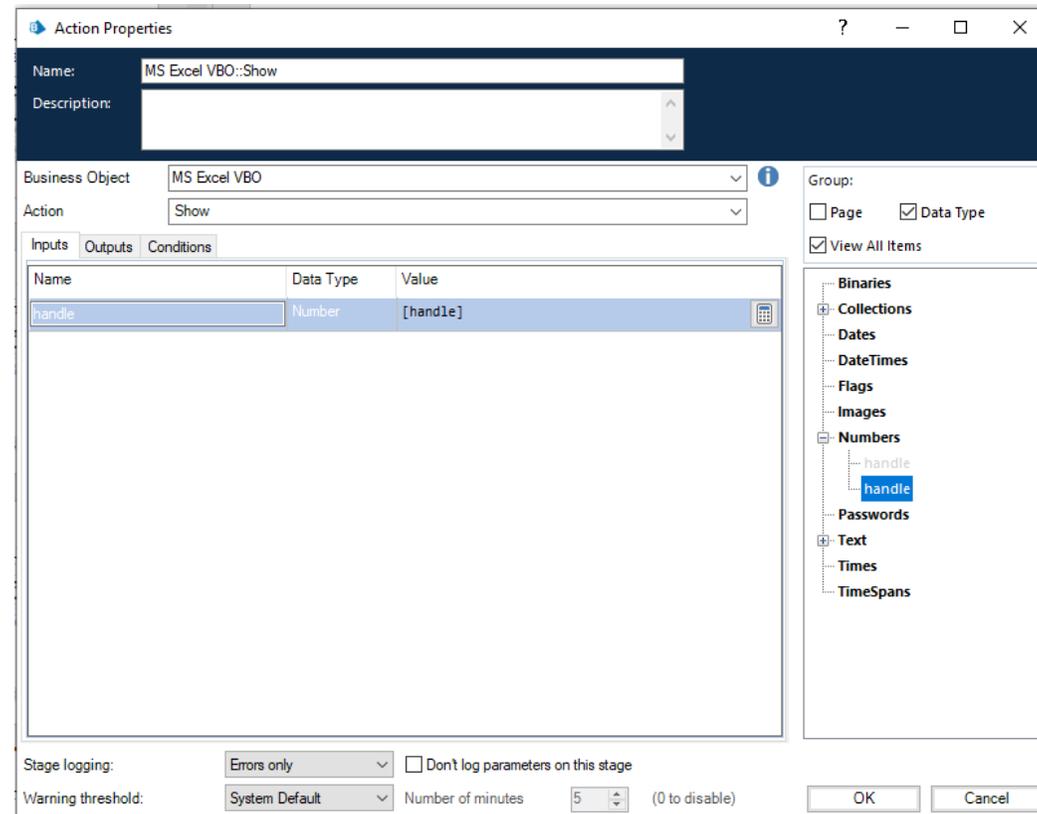
Name	Data Type	Store In
Workbook Name	Text	<input checked="" type="checkbox"/> Workbook Name

- Binaries
- Collections
- Dates
- DateTimes
- Flags
- Images
- Numbers
- Passwords
- Text
 - Excel File Path
 - GDP Queue
 - Item ID
 - Output Excel File
 - Processes.Processes
 - Workbook Name
 - Workbook Name
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CREATE AN ACTION STAGE TO SHOW THE EXCEL WORKBOOK



CREATE AN ACTION STAGE TO CREATE WORKSHEET

The screenshot shows the 'Action Properties' dialog box for the 'MS Excel VBO::Create Worksheet' action. The dialog is divided into several sections:

- Name:** MS Excel VBO::Create Worksheet
- Description:** (Empty text area)
- Business Object:** MS Excel VBO
- Action:** Create Worksheet
- Inputs/Outputs/Conditions:** A table with columns for Name, Data Type, and Value.

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[Workbook Name]
Worksheet Name	Text	[ItemData.Country]
- Group:** A list of actions with checkboxes: Page (checked), Data Type (checked), and View All Items (checked). Below this is a vertical flow diagram showing: Get GDP Table -> Get Input Request -> Initialize -> Write Output Data.
- Stage logging:** Errors only (selected), with a checkbox for 'Don't log parameters on this stage'.
- Warning threshold:** System Default (selected), Number of minutes: 5 (0 to disable).
- Buttons:** OK and Cancel.

CREATE AN ACTION STAGE TO WRITE COLLECTION

The screenshot shows the 'Action Properties' dialog box for a 'Write Collection' action. The 'Name' field is highlighted with a yellow border and contains the text 'Write Collection'. The 'Business Object' is set to 'MS Excel VBO' and the 'Action' is 'Write Collection'. The 'Inputs' tab is active, showing a table of input parameters. The 'Outputs' and 'Conditions' tabs are also visible. On the right, there is a 'Group' section with checkboxes for 'Page' (checked) and 'Data Type' (unchecked), and a 'View All Items' checkbox (unchecked). Below this, a tree view shows the action's dependencies: 'Get GDP Table' (with sub-items 'Desired Country GDP Table' and 'Item ID'), 'Get Input Request' (with sub-item 'GDP Queue'), and 'Write Output Data' (with sub-items 'handle', 'Output Excel File', and 'Workbook Name'). At the bottom, there are settings for 'Stage logging' (set to 'Errors only') and 'Warning threshold' (set to 'System Default' with a value of 5 minutes). 'OK' and 'Cancel' buttons are at the bottom right.

Name: Write Collection

Description:

Business Object: MS Excel VBO

Action: Write Collection

Inputs | **Outputs** | **Conditions**

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[Workbook Name]
Worksheet Name	Text	[ItemData.Countries]
Collection	Collection	[Desired Country GDP Table]
Cell Reference	Text	"A1"
Include Column Names	Flag	True

Group:

Page Data Type

View All Items

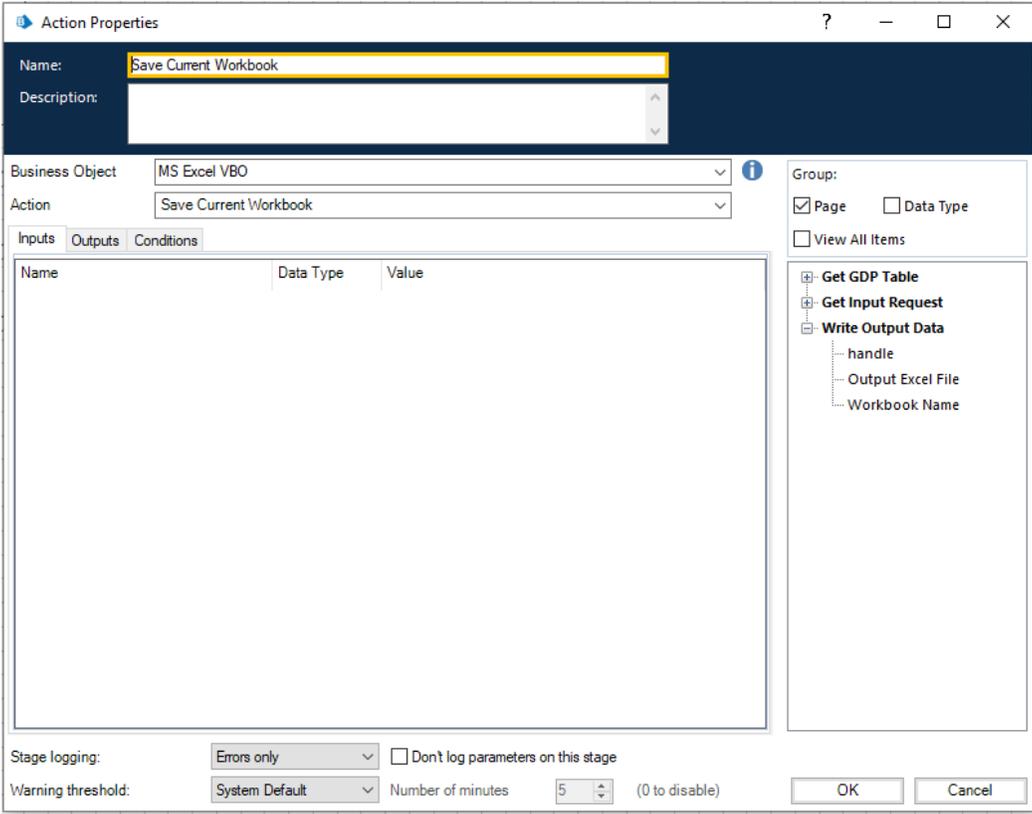
- Get GDP Table
 - Desired Country GDP Table
 - Item ID
- Get Input Request
 - GDP Queue
- Write Output Data
 - handle
 - Output Excel File
 - Workbook Name

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CREATE AN ACTION STAGE TO SAVE CURRENT WORKBOOK



CREATE AN ACTION STAGE TO CLOSE INSTANCE

Action Properties

Name: MS Excel VBO:Close Instance
Description:

Business Object: MS Excel VBO
Action: Close Instance

Inputs | Outputs | Conditions

Name	Data Type	Value
handle	Number	
Save Changes	Flag	

Group:
 Page Data Type
 View All Items

- Get GDP Table
 - Get Input Request
 - Write Output Data
 - handle
 - Output Excel File
 - Workbook Name

Stage logging: Errors only Don't log parameters on this stage
Warning threshold: System Default Number of minutes: 5 (0 to disable)

OK Cancel

SECTION 4.7

Notify

NOTIFY VIA EMAIL

1. Create a new page with the name “Notify”
2. Create an action stage to open another instance of outlook to send email
3. Link the stages

CREATE AN ACTION STAGE TO OPEN ANOTHER INSTANCE OF OUTLOOK TO SEND EMAIL

Action Properties

Name:

Description:

Business Object:

Action:

Group: Page Data Type View All Items

Inputs Outputs Conditions

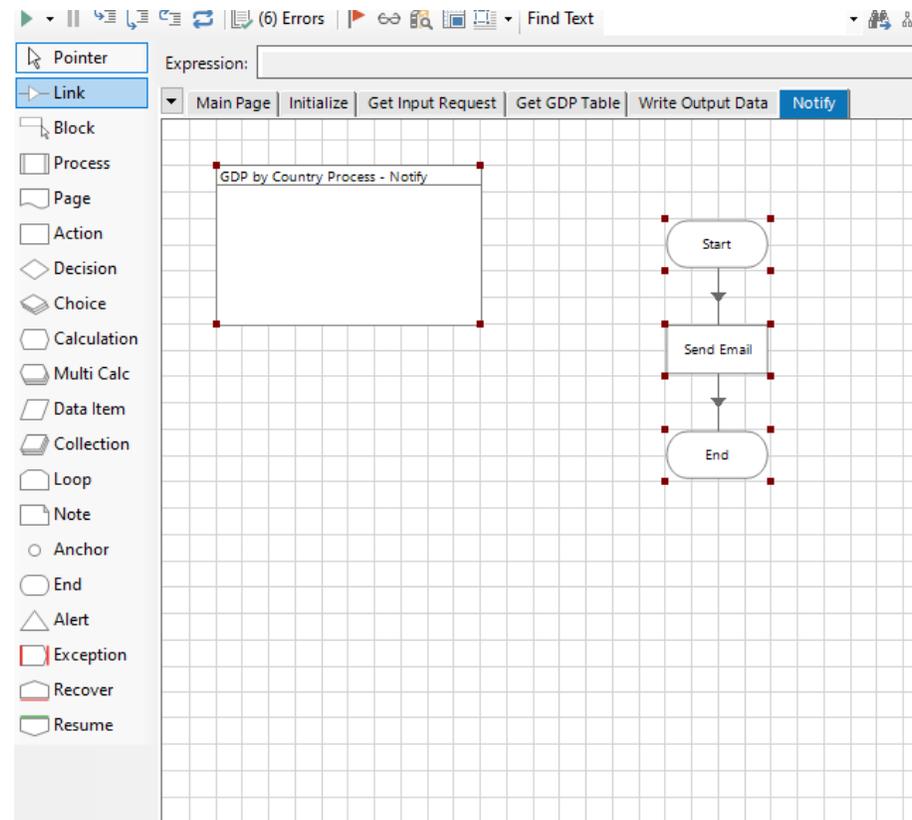
Name	Data Type	Value
To	Text	preethi.k@synapone.com
CC	Text	
BCC	Text	
Subject	Text	BP GDP Desired Country
Message	Text	Hello, BP has saved your requested files attached
Attachments	Text	[Output Excel File]
IsHTML	Flag	
Sensitivity	Number	
Importance	Number	
Account Display Name	Text	

Binaries
Collections
Dates
DateTimes
Flags
Images
Numbers
Passwords
Text
Times
TimeSpans

Stage logging: Don't log parameters on this stage

Warning threshold: Number of minutes (0 to disable)

LINK THE STAGES



SECTION 4.8

*Exception
Handling*

SECTION
4.8.1

*Getting Exception
Data*

GETTING EXCEPTION DATA

1. Create a new “Get exception data” Page
2. Create an action in the work queue to get exception items
3. Create two data items representing time and date
4. Create a loop for the exception items
5. Create a collection called final data
6. Use an action to add a row to a collection
7. Use an action stage get item data
8. Add a multi calc stage
9. Link all the stages at the end

CREATE AN ACTION IN THE WORK QUEUE TO GET EXCEPTION ITEMS

Action Properties

Name: Work Queues::Get Exception Items

Description:

Business Object: Work Queues

Action: Get Exception Items

Group: Page Data Type View All Items

Name	Data Type	Value
Queue Name	Text	[GDP Queue]
Start Date	DateTime	[Start Date]
End Date	DateTime	[End Date]
Key Filter	Text	
Tag Filter	Text	
Maximum Rows	Number	
Resource Name	Text	

Binaries

- Collections
- Dates
 - DateTime
 - End Date
 - Start Date
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

Action Properties

Name: Work Queues::Get Exception Items

Description:

Business Object: Work Queues

Action: Get Exception Items

Group: Page Data Type View All Items

Name	Data Type	Store In
Exception Items	Collection	<input checked="" type="checkbox"/> Exception Items

Binaries

- Collections
 - Desired Country GDP Table
 - Exception Items
 - Item Data
- Dates
- DateTime
 - End Date
 - Start Date
- Flags
- Images
- Numbers
- Passwords
- Text
- Times
- TimeSpans

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CREATE TWO DATA ITEMS REPRESENTING TIME AND DATE

The image displays two screenshots of the 'Data Properties' dialog box, illustrating the configuration of two data items representing time and date.

Top Screenshot: Start Date

- Name:** Start Date
- Description:** (Empty text area)
- Data Type:** DateTime
- Initial Value:** 1/1/2021 12:00:00 AM
- Exposure:** None
- Current Value:** (Empty text area)
- Visibility:** Hide from other pages in the process
- Initialisation:** Reset to Initial Value whenever this page runs

Bottom Screenshot: End Date

- Name:** End Date
- Description:** (Empty text area)
- Data Type:** DateTime
- Initial Value:** 12/31/2021 12:00:00 AM
- Exposure:** None
- Current Value:** (Empty text area)
- Visibility:** Hide from other pages in the process
- Initialisation:** Reset to Initial Value whenever this page runs

DateTime Help Text:

DateTime items are used to store date and time data. Values may range from 1/1/0001 12:00:00 AM to 12/31/9999 11:59:59 PM.

They are similar to Date items, but Date items cannot store time data.

Buttons: OK, Cancel

CREATE A LOOP FOR THE EXCEPTION ITEMS

The image shows a 'Loop Properties' dialog box with the following fields and values:

- Name:** Loop Start1
- Description:** (Empty text area)
- Collection:** Exception Items
- Stage logging:** Errors only
- Warning threshold:** System Default
- Number of minutes:** 5 (0 to disable)

Buttons: OK, Cancel

CREATE A COLLECTION CALLED FINAL DATA

Collection Properties

Name: Final Data

Description:

Fields Initial Values Current Values

Name	Type	Description	Fields
RID	Unknown		
Country Name	Unknown		
Exception	Unknown		

Fields:

Import

Add

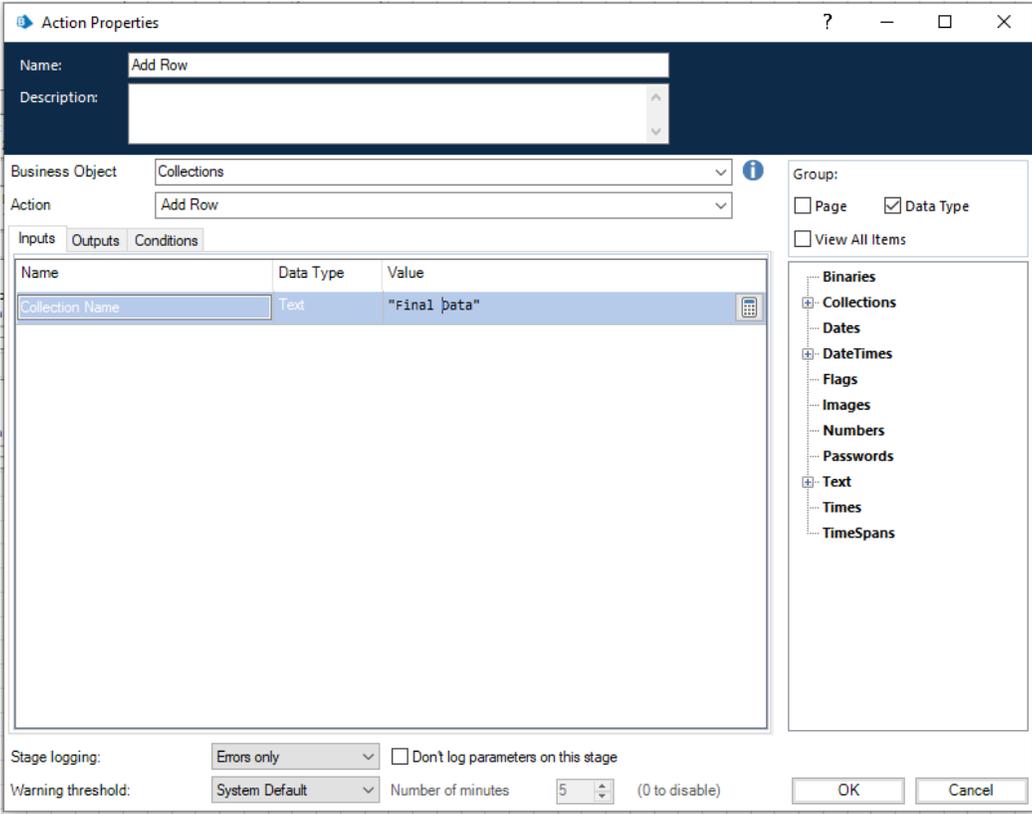
Remove

Clear

Reset to Initial Value whenever this page runs Hide from other pages in the process Single Row

OK Cancel

USE AN ACTION TO ADD A ROW TO A COLLECTION



USE AN ACTION STAGE GET ITEM DATA

The image displays two side-by-side screenshots of the 'Action Properties' dialog box for the 'Get Item Data' action. Both windows show the 'Business Object' set to 'Work Queues' and the 'Action' set to 'Get Item Data'. The left window is on the 'Inputs' tab, showing a table with one input: 'Item ID' of type 'Text' with the value '[Exception Items.Item ID]'. The right window is on the 'Outputs' tab, showing a table with multiple outputs, including 'Data' of type 'Collection' which is checked. Both windows also feature a 'Group' section with 'Data Type' selected, and a 'Stage logging' section at the bottom with 'Errors only' selected and a warning threshold of 5 minutes.

Left Screenshot (Inputs Tab):

Name	Data Type	Value
Item ID	Text	[Exception Items.Item ID]

Right Screenshot (Outputs Tab):

Name	Data Type	Store In
Key	Text	
Priority	Number	
Status	Text	
Attempts	Number	
Worktime	TimeSpan	
Attempt Worktime	TimeSpan	
Loaded DateTime	DateTime	
Deferred DateTime	DateTime	
Completed DateTime	DateTime	
Exception DateTime	DateTime	
Exception Reason	Text	Exception Reason
Tags	Text	Tags
Data	Collection	<input checked="" type="checkbox"/> Data

ADD A MULTICALC STAGE

Multiple Calculation Properties

Name: Set Data
Description:

Expression	Store In
[ExceptionData.RID]	Final Data.RID
[Data]	Final Data.Country Name
[Exception Reason]	Final Data.Exception

Group:
 Page Data Type
 View All Items

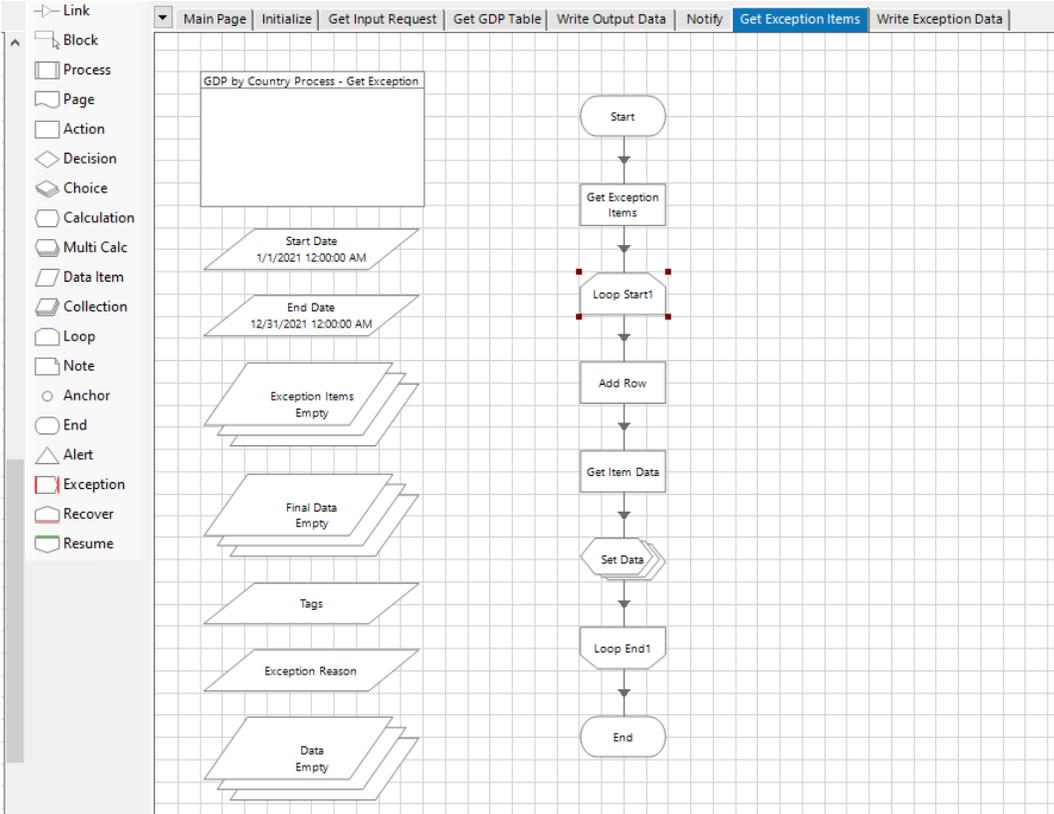
- Data
 - Desired Country GDP Table
 - End Date
 - Exception Items
 - Exception Reason
- Final Data
 - Final Data.Country Name
 - Final Data.Exception
 - Final Data.RID
- GDP Queue
- Item Data
- Item ID
- Output Excel File
- Start Date
- Tags

Move Up Move Down Add Remove

Stage logging: Errors only
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

LINK ALL THE STAGES AT THE END



SECTION
4.8.2

*Writing Exception
Data*

GETTING EXCEPTION DATA

1. Create a new “Write exception data” Page
2. Create an action to create an excel instance

CREATE AN ACTION TO CREATE AN EXCEL INSTANCE

Action Properties

Name: Create Excel Instance

Description:

Business Object: MS Excel VBO

Action: Create Instance

Inputs Outputs Conditions

Name	Data Type	Store In
handle	Number	<input checked="" type="checkbox"/> handle

Group:

Page Data Type

View All Items

Desired Country GDP Table

GDP Queue

handle

Item Data

Item ID

Output Excel File

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CREATE AN ACTION TO CREATE A WORKBOOK

The screenshot shows the 'Action Properties' dialog box for the 'Create Workbook' action. The 'Inputs' tab is selected, displaying a table with one input parameter:

Name	Data Type	Value
handle	Number	[handle]

The 'Outputs' tab is also visible, showing a tree view of output parameters:

- Desired Country GDP Table
 - GDP Queue
 - handle
 - Item Data
 - Item ID
 - Output Excel File
 - Workbook Name

At the bottom, the 'Stage logging' is set to 'Errors only' and the 'Warning threshold' is set to 5 minutes.

The screenshot shows the 'Action Properties' dialog box for the 'Create Workbook' action. The 'Outputs' tab is selected, displaying a table with one output parameter:

Name	Data Type	Store In
Workbook Name	Text	<input checked="" type="checkbox"/> Workbook Name

The 'Inputs' tab is also visible, showing a tree view of input parameters:

- Desired Country GDP Table
 - GDP Queue
 - handle
 - Item Data
 - Item ID
 - Output Excel File
 - Workbook Name

At the bottom, the 'Stage logging' is set to 'Errors only' and the 'Warning threshold' is set to 5 minutes.

CREATE AN ACTION TO CREATE A WORKSHEET

The screenshot shows the 'Action Properties' dialog box for the 'Create Worksheet' action. The dialog is titled 'Action Properties' and has a dark blue header. The 'Name' field is set to 'Create Worksheet'. The 'Description' field is empty. The 'Business Object' is set to 'MS Excel VBO'. The 'Action' is set to 'Create Worksheet'. The 'Inputs' tab is selected, showing a table with three input parameters: 'handle' (Number), 'Workbook Name' (Text), and 'Worksheet Name' (Text). The 'Worksheet Name' input is highlighted. The 'Outputs' tab is also visible, showing a list of output parameters: 'Desired Country GDP Table', 'GDP Queue', 'handle', 'Item Data', 'Item ID', 'Output Excel File', and 'Workbook Name'. The 'Stage logging' is set to 'Errors only' and 'Don't log parameters on this stage' is checked. The 'Warning threshold' is set to 'System Default' and 'Number of minutes' is set to 5. The 'OK' and 'Cancel' buttons are at the bottom right.

Name: Create Worksheet

Description:

Business Object: MS Excel VBO

Action: Create Worksheet

Inputs

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[Workbook Name]
Worksheet Name	Text	"Exception Sheet"

Outputs

- Desired Country GDP Table
- GDP Queue
- handle
- Item Data
- Item ID
- Output Excel File
- Workbook Name

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

CREATE AN ACTION TO WRITE EXCEPTION DATA

The screenshot shows the 'Action Properties' dialog box for the 'MS Excel VBO::Write Collection' action. The dialog is divided into several sections:

- Name:** MS Excel VBO::Write Collection
- Description:** (Empty text area)
- Business Object:** MS Excel VBO
- Action:** Write Collection
- Inputs/Outputs/Conditions:** A table with the following data:

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[Workbook Name]
Collection	Collection	[Data]
Worksheet Name	Text	"Exception Sheet"
Cell Reference	Text	"A1"
Include Column Names	Flag	True
- Group:** A tree view showing the following structure:
 - Desired Country GDP Table
 - GDP Queue
 - handle
 - Item Data
 - Item ID
 - Output Excel File
 - Workbook Name

- Stage logging:** Errors only (selected), Don't log parameters on this stage
- Warning threshold:** System Default (selected), Number of minutes: 5 (0 to disable)
- Buttons:** OK, Cancel

USE A NEW ACTION TO SAVE WORKBOOK AS

The image displays two side-by-side screenshots of the 'Action Properties' dialog box, illustrating the configuration for the 'Save Workbook As' action.

Left Screenshot:

- Name:** Save Workbook
- Description:** (Empty)
- Business Object:** MS Excel VBO
- Action:** Save Workbook As
- Inputs:** A table with columns 'Name', 'Data Type', and 'Value'.

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[Workbook Name]
Filename	Text	[Exception File Path]&"\"Exception.xlsx"
- Outputs:** (Empty)
- Conditions:** (Empty)
- Group:** Page Data Type View All Items
- Available Parameters:** A list of parameters including: Desired Country GDP Table, Exception File Path, GDP Queue, handle, Item Data, Item ID, New Workbook Name, Output Excel File, and Workbook Name.
- Stage logging:** Errors only (selected), Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)
- Buttons:** OK, Cancel

Right Screenshot:

- Name:** Save Workbook
- Description:** (Empty)
- Business Object:** MS Excel VBO
- Action:** Save Workbook As
- Inputs:** A table with columns 'Name', 'Data Type', and 'Store In'.

Name	Data Type	Store In
New Workbook Name	Text	<input checked="" type="checkbox"/> New Workbook Name
- Outputs:** (Empty)
- Conditions:** (Empty)
- Group:** Page Data Type View All Items
- Available Parameters:** A list of parameters including: Desired Country GDP Table, Exception File Path, GDP Queue, handle, Item Data, Item ID, New Workbook Name, Output Excel File, and Workbook Name.
- Stage logging:** Errors only (selected), Don't log parameters on this stage
- Warning threshold:** System Default, Number of minutes: 5 (0 to disable)
- Buttons:** OK, Cancel

USE A NEW ACTION TO CLOSE WORKBOOK

The screenshot shows the 'Action Properties' dialog box for a 'Close Workbook' action. The 'Name' field is highlighted with a yellow border and contains the text 'Close Workbook'. The 'Business Object' is set to 'MS Excel VBO' and the 'Action' is 'Close Workbook'. The 'Inputs' tab is active, showing a table with three input parameters: 'handle' (Number), 'Workbook Name' (Text), and 'Save Data' (Flag). The 'Save Data' flag is set to 'True'. The 'Outputs' and 'Conditions' tabs are also visible. On the right side, there is a 'Group' section with checkboxes for 'Page', 'Data Type', and 'View All Items'. Below this is a list of output parameters: 'Desired Country GDP Table', 'Exception File Path', 'GDP Queue', 'handle', 'Item Data', 'Item ID', 'New Workbook Name', 'Output Excel File', and 'Workbook Name'. At the bottom, there are settings for 'Stage logging' (set to 'Errors only') and 'Warning threshold' (set to 'System Default' with a value of 5 minutes). 'OK' and 'Cancel' buttons are at the bottom right.

Action Properties

Name:

Description:

Business Object: MS Excel VBO

Action: Close Workbook

Inputs Outputs Conditions

Name	Data Type	Value
handle	Number	[handle]
Workbook Name	Text	[New Workbook Name]
Save Data	Flag	True

Group:

Page Data Type

View All Items

- Desired Country GDP Table
- Exception File Path
- GDP Queue
- handle
- Item Data
- Item ID
- New Workbook Name
- Output Excel File
- Workbook Name

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

USE A NEW ACTION TO CLOSE INSTANCE

Action Properties

Name: MS Excel VBO::Close Instance

Description:

Business Object: MS Excel VBO

Action: Close Instance

Inputs Outputs Conditions

Name	Data Type	Value
handle	Number	[handle]
Save Changes	Flag	True

Group:

Page Data Type

View All Items

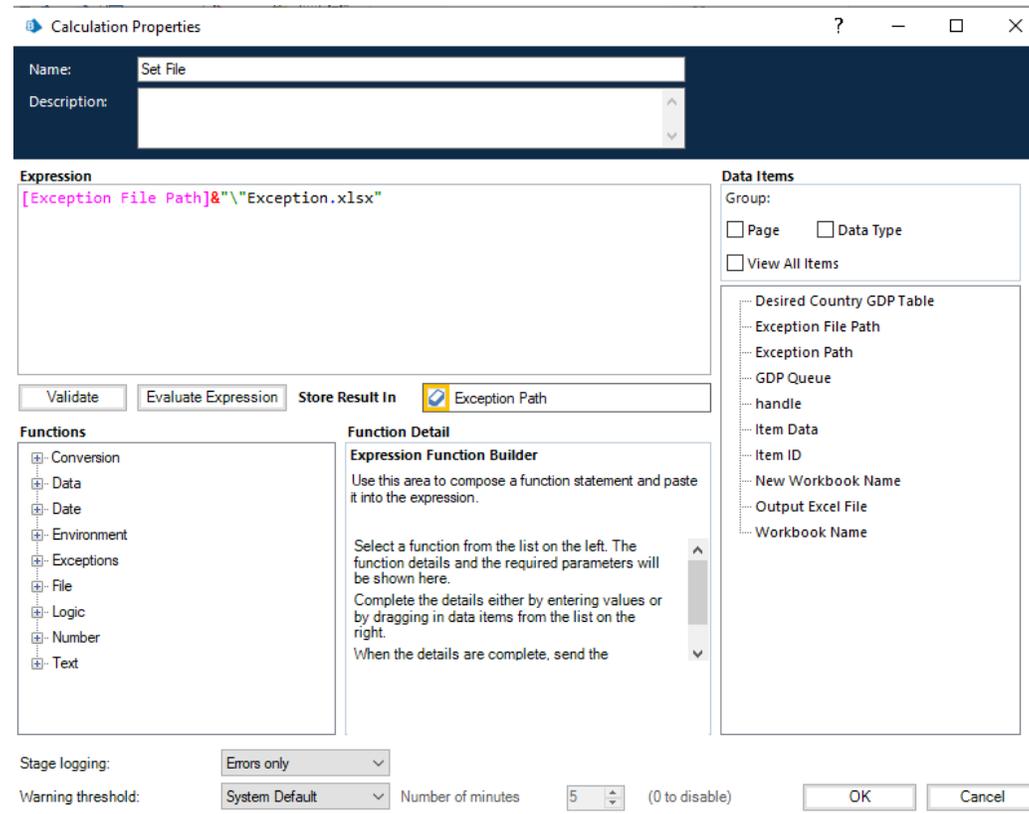
- Desired Country GDP Table
- Exception File Path
- GDP Queue
- handle
- Item Data
- Item ID
- New Workbook Name
- Output Excel File
- Workbook Name

Stage logging: Errors only Don't log parameters on this stage

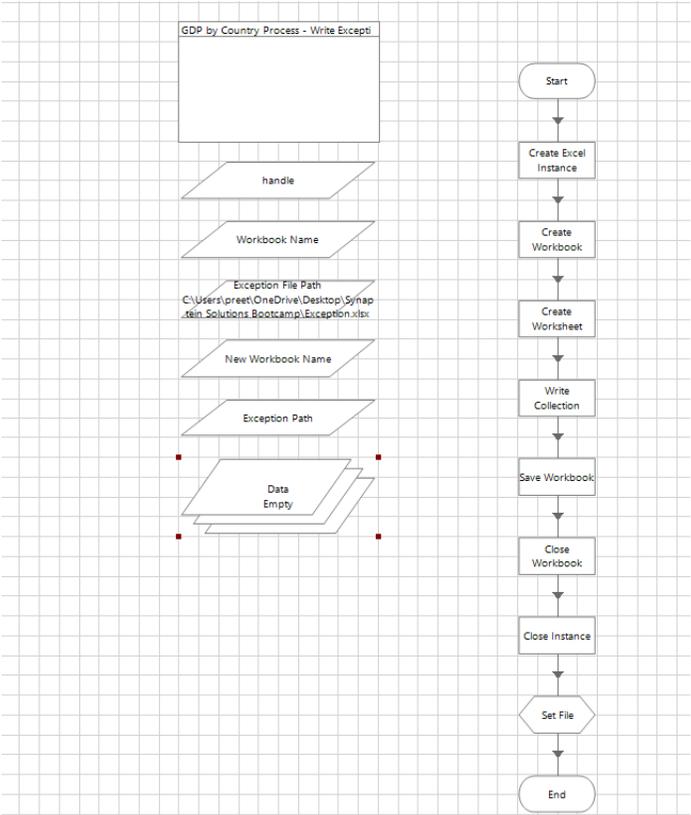
Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

USE THE CALCULATION TOOL TO SET FILE PATH



LINK ALL THE STAGES TOGETHER



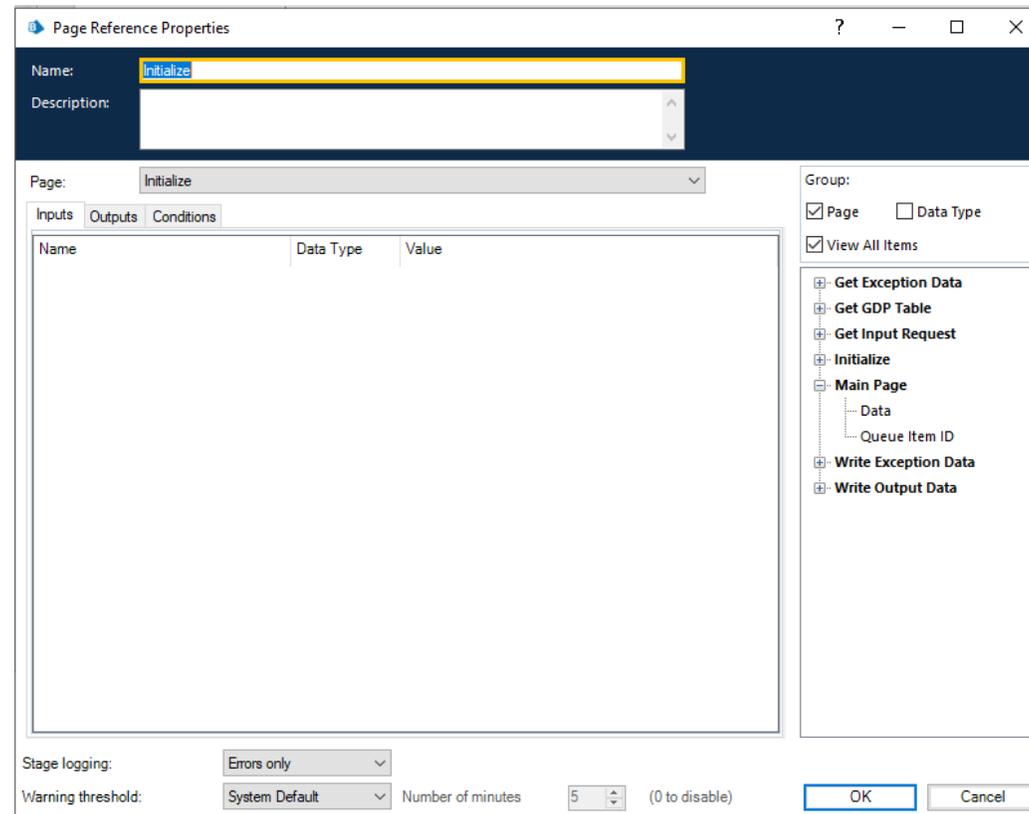
SECTION 4.9

*Configuring the
Main Page*

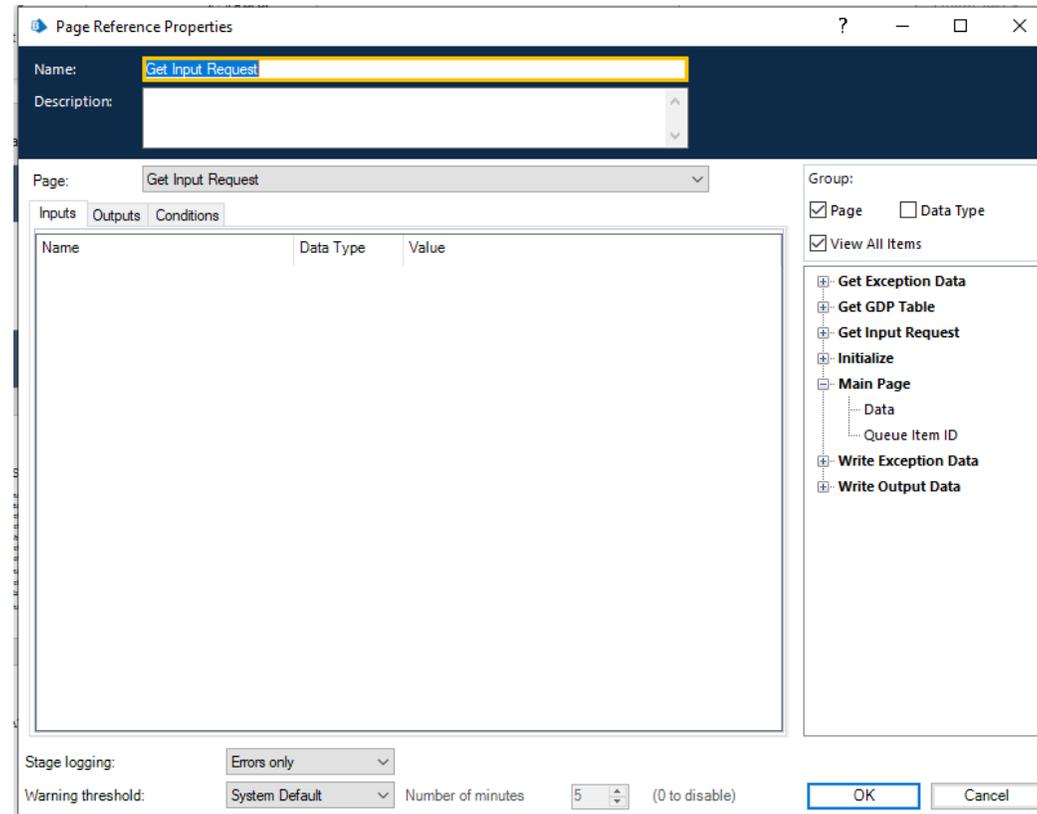
STEPS IN CREATING THE MAIN PAGE

1. Use the Page tool to reference
 1. The Initialize Page
 2. Get Input Requests
 3. Get GDP Tables
 4. Write Output Data
 5. Get Exception Data
 6. Notify
2. Use the Action Tool to
 1. Get Next Item
 2. Mark Complete
3. Use the Decision Tool to check for items in the queue

USE THE PAGE TOOL TO REFERENCE THE “INITIALIZE” PAGE



USE THE PAGE TOOL TO REFERENCE THE “GET INPUT REQUEST” PAGE



GET NEXT ITEM IN QUEUE AND STORE OUTPUT

The screenshot shows the 'Action Properties' dialog for the 'Get Next Item in Queue' action. The 'Business Object' is 'Work Queues' and the 'Action' is 'Get Next Item'. The 'Inputs' tab is active, displaying a table with the following data:

Name	Data Type	Value
Queue Name	Text	[GDP Queue]
Key Filter	Text	
Tag Filter	Text	

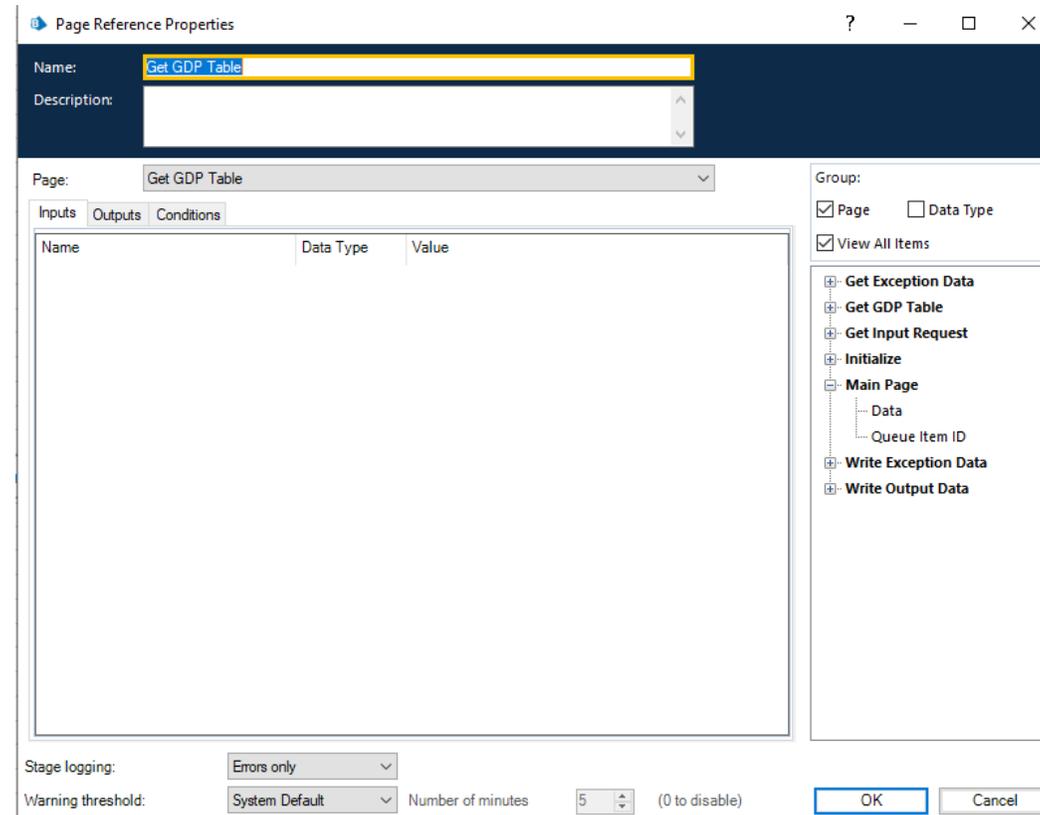
On the right, a tree view shows the 'Data Type' hierarchy: Binaries, Collections (Input Collection, Item Data), Processes, Dates, DateTimes, Flags, Images, Numbers, Passwords, Text, Times, and TimeSpans. The 'Data Type' checkbox is checked, and 'View All Items' is also checked. At the bottom, 'Stage logging' is set to 'Enabled' and the 'Warning threshold' is 'System Default'.

The screenshot shows the 'Action Properties' dialog for the 'Get Next Item in Queue' action, with the 'Outputs' tab active. The 'Business Object' is 'Work Queues' and the 'Action' is 'Get Next Item'. The 'Outputs' table is as follows:

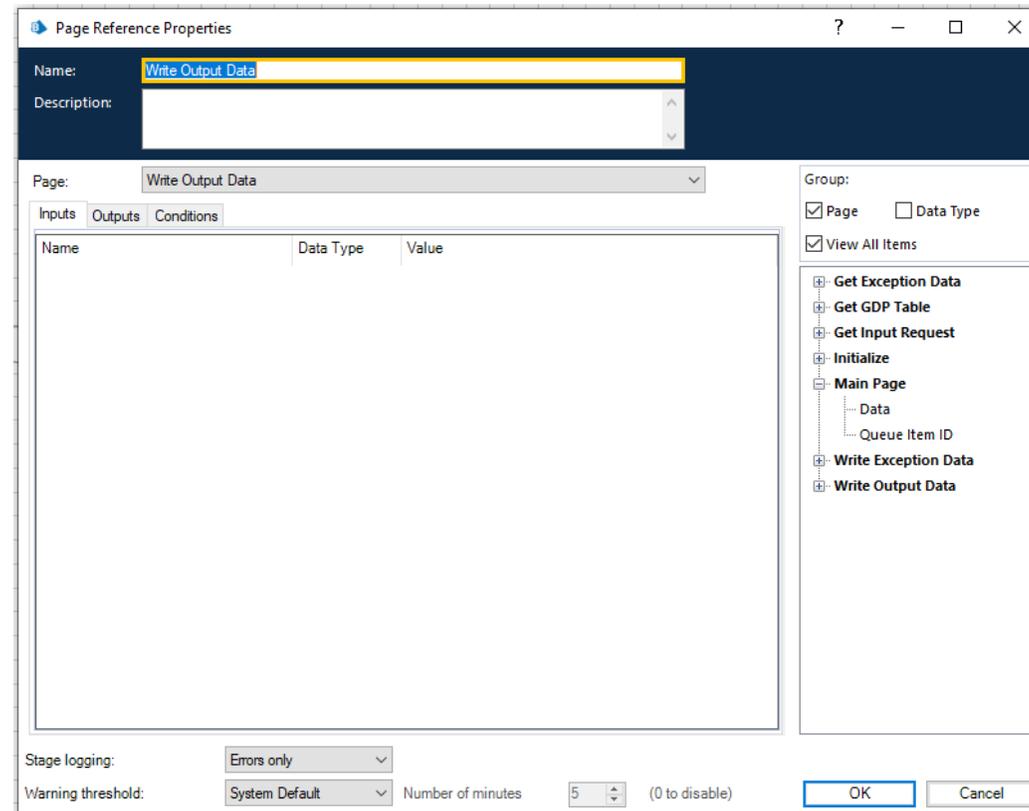
Name	Data Type	Store In
Item ID	Text	Item ID
Data	Collection	<input checked="" type="checkbox"/> Item Data
Status	Text	
Attempts	Number	

The right-hand tree view is identical to the first screenshot. The 'Data Type' checkbox is checked, and 'View All Items' is also checked. At the bottom, 'Stage logging' is set to 'Enabled' and the 'Warning threshold' is 'System Default'.

USE THE PAGE TOOL TO REFERENCE THE “GET GDP TABLE” PAGE



USE THE PAGE TOOL TO REFERENCE THE “WRITE OUTPUT DATA” PAGE



USE THE ACTION TOOL TO MARK ITEMS ON THE QUEUE COMPLETE

Action Properties

Name: **Mark Completed**

Description: Marks the item as completed, by updating the Completed timestamp and setting Locked to null. The item must be 'owned' by the calling process - i.e. it must have been retrieved using Get Next Item.

Business Object: Work Queues

Action: Mark Completed

Inputs | Outputs | Conditions

Name	Data Type	Value
Item ID	Text	[Queue Item ID]

Group:

Page Data Type

View All Items

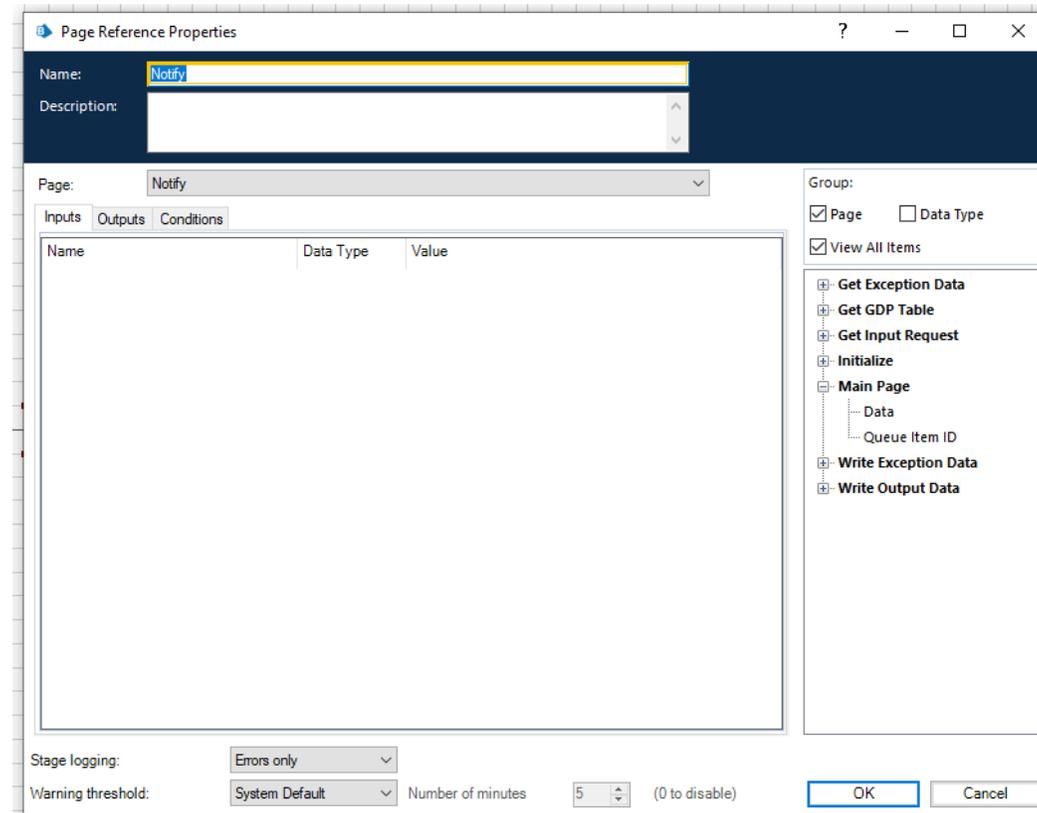
- Get Exception Data
- Get GDP Table
- Get Input Request
- Initialize
- Main Page
 - Data
 - Queue Item ID
- Write Exception Data
- Write Output Data

Stage logging: Errors only Don't log parameters on this stage

Warning threshold: System Default Number of minutes 5 (0 to disable)

OK Cancel

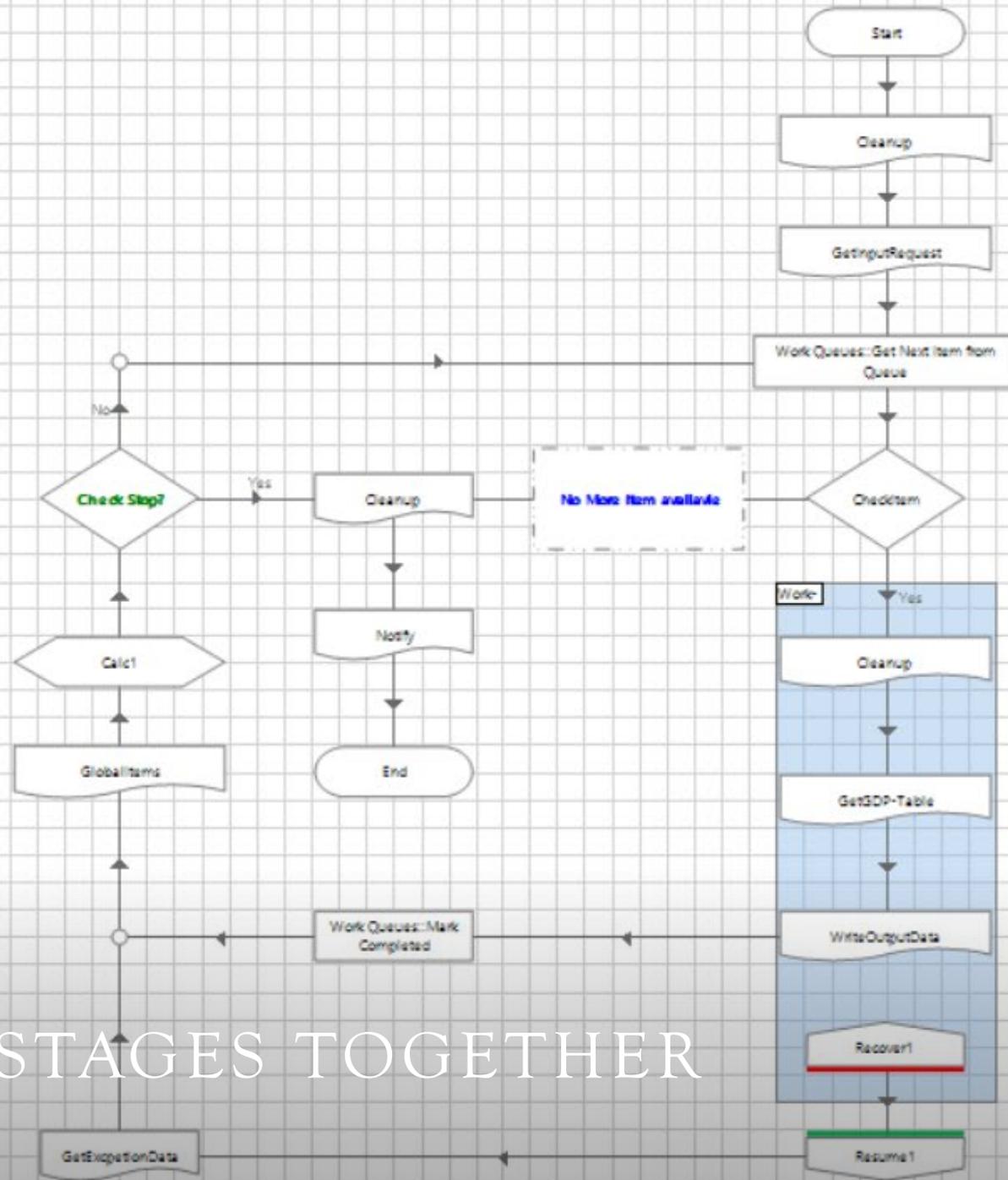
USE THE PAGE TOOL TO REFERENCE THE “NOTIFY” PAGE



GDP-Process
 This process will work on GDP process
 Created by naveed at 3/5/2021 7:39:27 AM
 Last changed by admin at 4/7/2021 7:22:24 AM

Queue-Process
 GDPQueue
 GDPQueue

Stopping Control settings
 Item Count 50
 Time 9:23:49 PM
 Count 1



LINK ALL THE STAGES TOGETHER

CHAPTER 5

*Documentation
Requirements*

BLUEPRISM ROADMAP

- Every BluePrism project comes complete with solution documents as part of the process solution production.
- Each section of the process comes with its own documentation
 - Initial Process Analysis (IPA)
 - Process Definition Document (PDD)
 - Functional Requirement Questionnaire (FRQ)
 - Solution Design Document (SDD)
 - Operational Impact Document (OID)
 - Process Design Instruction (PDI)
 - Object Design Instruction (ODI)

INITIAL PROCESS ANALYSIS (IPA)

- The IPA has two main stakeholders
 - The analysis is created by a BluePrism developer
 - The analysis is read and approved by the Client Sponsor
- The objective of the IPA is to
 - Provide a high level analysis of the process solution
 - The automation efficiency (how much of the work can be performed by a robot) and
 - The effort involved in delivering and supporting the solution.

PROCESS DEFINITION DOCUMENT

- The PDD has three main stakeholders
 - Created by the Client Subject Matter Experts (SME) along with Blue Prism Developers
 - Read by the Client SME, Blue Prism Developer
 - Approved by the Client operation team.
- The objective of the PDD is to
 - Enable a novice with no prior knowledge of a business process to work cases correctly.
 - Expose and rectify any missing scope, ambiguity or incorrect flow.
 - Reveal gaps in the process definition.

FUNCTIONAL REQUIREMENT QUESTIONNAIRE (FRQ)

- The two main stakeholders for the FRQ are:
 - The Client SME
 - BluePrism Developer
- The Functional Requirements Questionnaire (FRQ) helps define the business process further to allow the solution to run unattended while still meeting the business needs. The document acts as a checklist that takes into consideration several areas of the business process:
 - Workload
 - Resource Requirement
 - Service Level Agreements
 - Operating Hours
 - Alerting
 - Data Management
 - Exception forwarding
 - Management Information and other reporting
 - Data Preservation
 - Business Continuity

SOLUTION DESIGN DOCUMENT (SDD)

- The purpose of the Solution Design Document (SDD) is to describe how Blue Prism will automate the process described in the PDD.
- The stakeholders for the SDD document are the BluePrism developers who create it, and the Client Operations who read and approve the document.
- The objective of the SDD is to provide:
 - Detail of the automated process for Client to understand and ultimately approve the proposed solution.
 - Include details of any other deliverables that are required
 - Mention other derivatives such as security requirements, scheduling, alerting, management information, and exception handling procedure, etc.

OPERATIONAL IMPACT DOCUMENT (OID)

- The OID is required to inform the client operation team of their responsibilities once the automated solution is in place. It is a description of the change that will be impacted upon them once the solution has been successfully implemented.
- It is created by the BluePrism Developer to be read and approved by the Client Operation Team.
- The SDD and OID document are accompanied by workshops to walk through and check the proposed automated solution and its effect on the wider business.

PROCESS DESIGN INSTRUCTION (PDI)

- The PDI is created by the BluePrism Developer to be read and approved by the other BluePrism professionals through a peer review.
- PDI are created for all Blue Prism processes that are to be created and should describe in detail the Blue Prism process, together with all the elements (components, business objects, work queues, environment locks, environment variables etc.) that support it.
- The logic for working each type of case should also be included, together with instructions on how to handle different types of exception.
- A completed PDI will form a work task for a developer.

OBJECT DESIGN INSTRUCTION (ODI)

- The ODI is created by the BluePrism Developer to be read and approved by the other BluePrism professionals through a peer review.
- The ODI is created as a blueprint from which business objects can be developed.
- The object design instruction describes each object to be built and for each action within that object lists the input and output parameters and the start and end screens.

BLUEPRISM PROVIDES A MORE EFFICIENT AND SCALABLE DESIGN BECAUSE

- More developers can work concurrently
- A running process consumes only the actions it requires.
- Application modeler is smaller and less prone to latent error
- Whenever a change is made within the object layer the effect on and risk to the process layer is minimized.