

Kofax Kapow 10.3 Training and Certification

Module 7 – Basic Loops

Extracting from multiple items on a page

Kofax
Kapow™



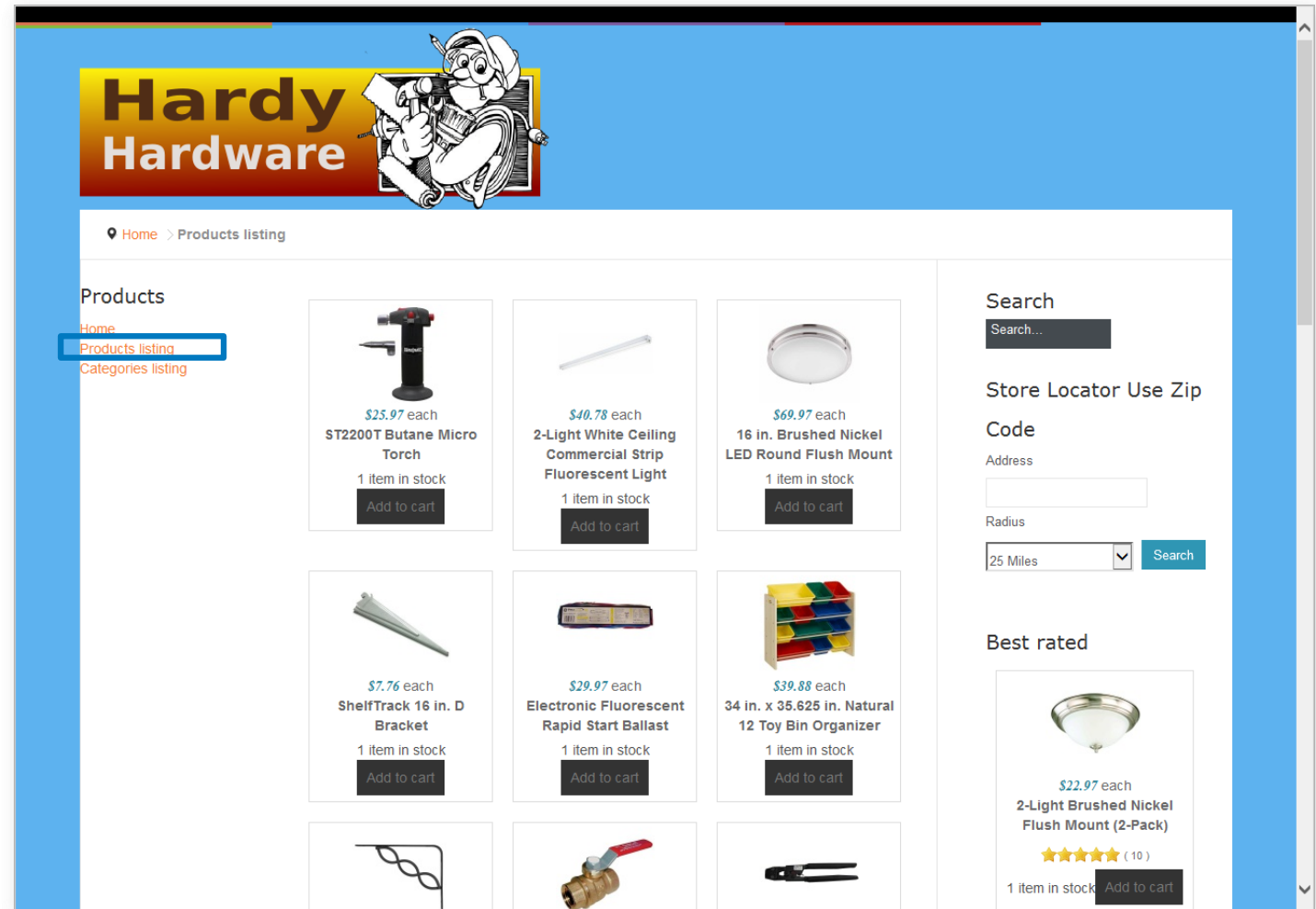
Kofax Kapow Module Overview

- ◆ Going to a page listing multiple items
- ◆ Looping through multiple items on a page
- ◆ Using Snippets
- ◆ Extracting Data
- ◆ Returning Results
- ◆ Testing and Debugging



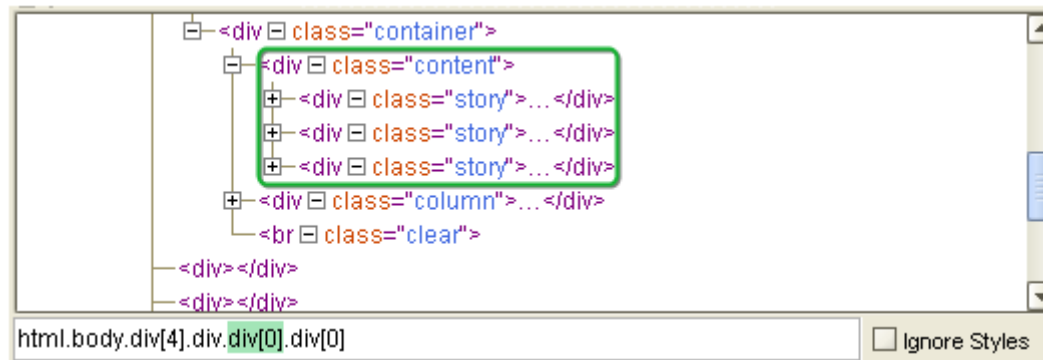
We Want to get Details for All Items on this Page

- ◆ This is page 1 of the Products listed on our website.
- ◆ Let's imagine that we want our Robot to click on every item on this page and for each item, extract the same detail that we extracted earlier for a single item.
- ◆ The answer is a loop.



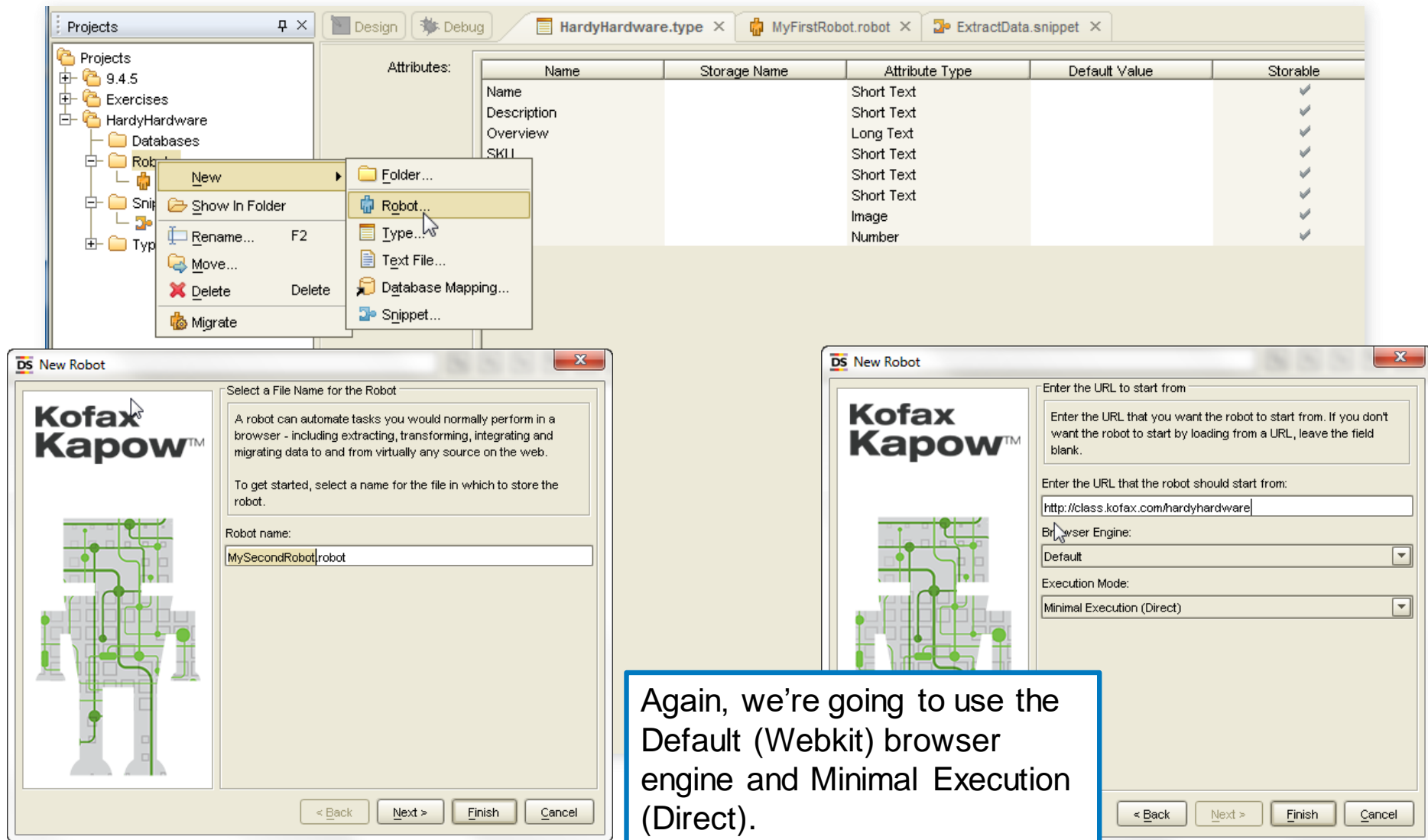
Looping through Tags with the Same Class

- ◆ There are a couple of ways to set up a loop. The first way is the easiest if it is viable, and involves looping over tags which all share a class attribute. For example...



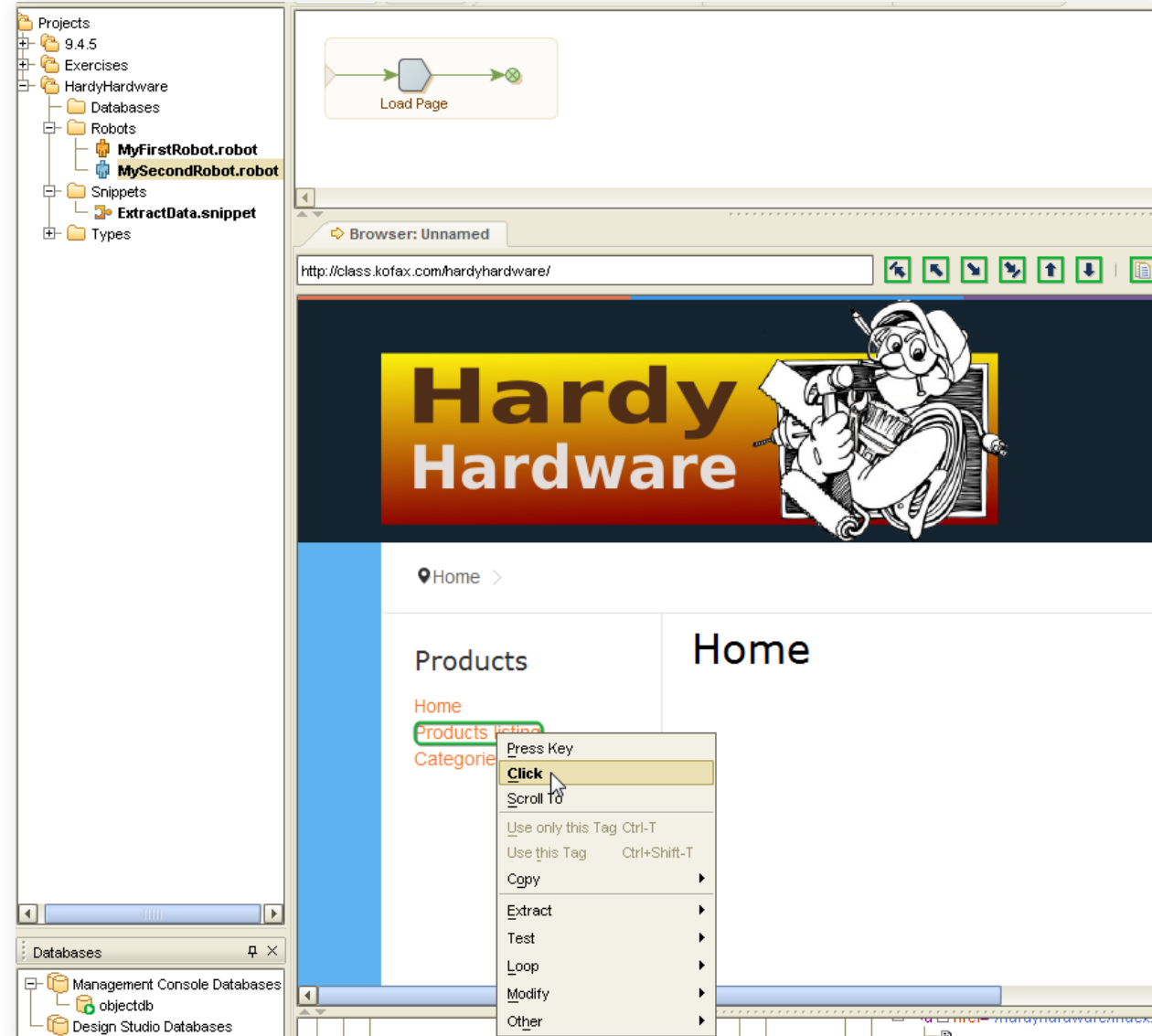
- ◆ Each div element has the attribute class="story".
- ◆ To determine whether looping through tags with the same class might be possible, find the elements in the HTML view. In the case shown above, it would be possible to loop through the three div tags with the attribute class="story".
- ◆ The easiest way to create the loop, is to right click the first tag and select to Loop For Tags With Class.

Before We Create Our Loop, Lets Create Our New Robot



Add Click Step to Go to the Products Page

- ◆ Right mouse-click on the "Products Listing" link and select "Click" from the context menu.




Click Step Has Been Added

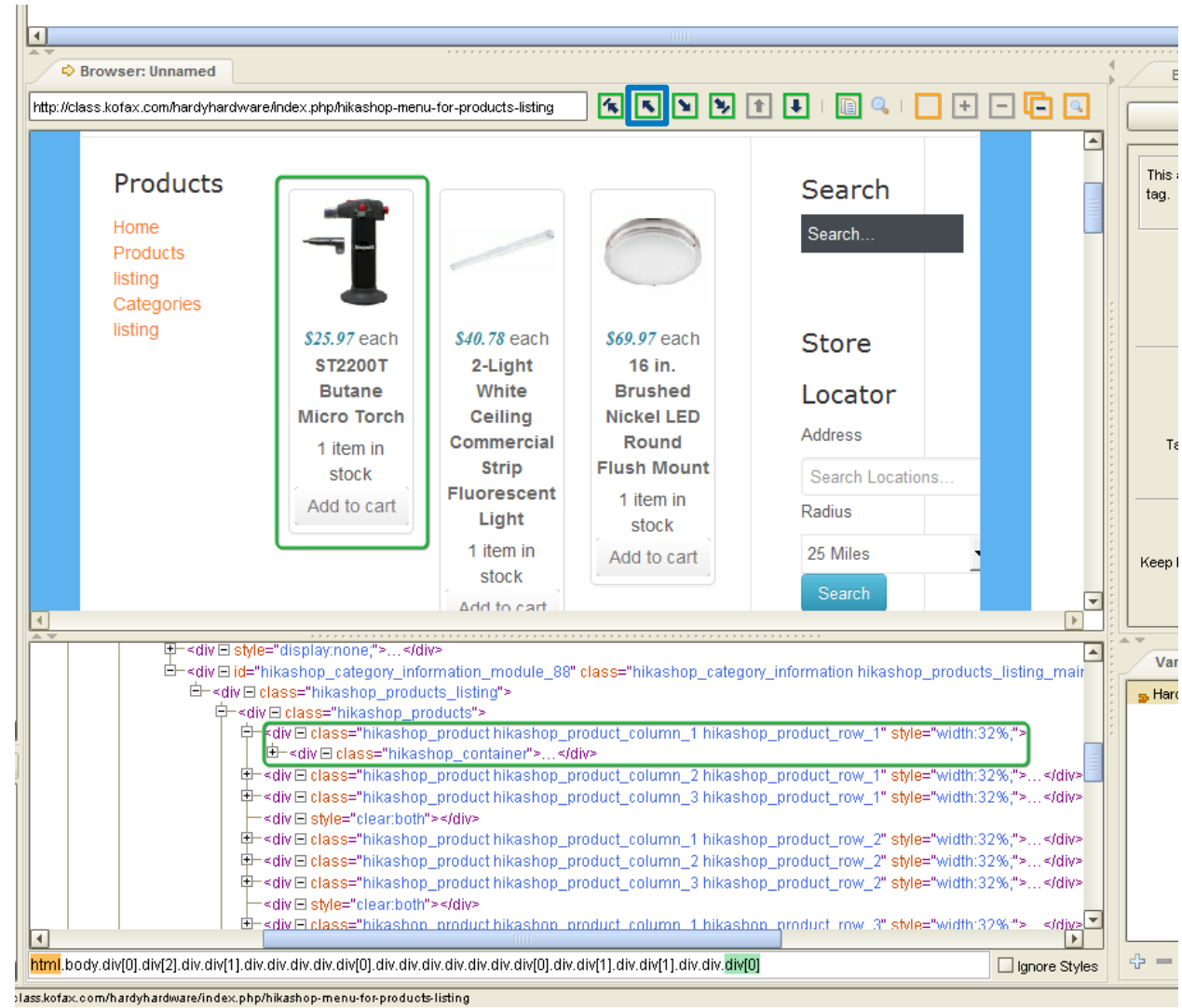
Notice that we are on the end step

This is an End step n

Variables

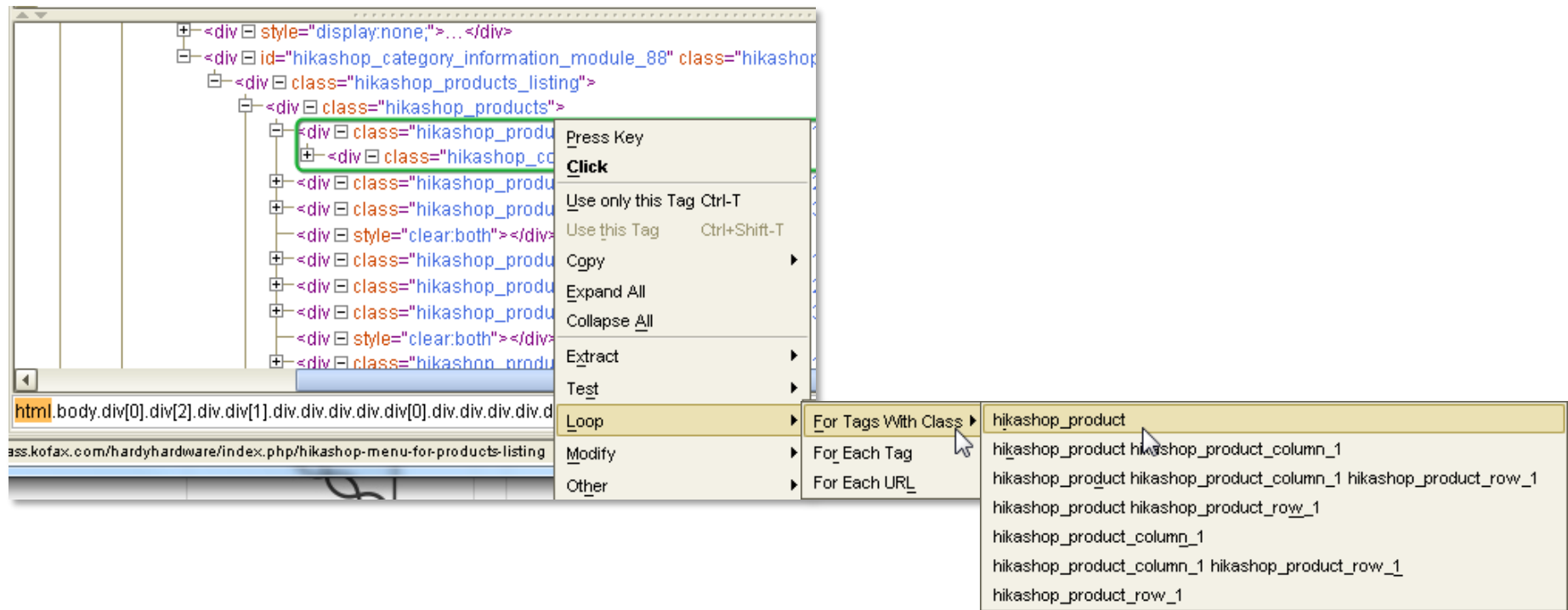
Examine HTML Code for One Item. Compare it to Others

- ◆ Adding our Loop:
 - ◆ If we click on the first item on our page and begin expanding the code up using the  button, we'll eventually see that there is a class=hikashop_product tag that begins every item.
 - ◆ *NOTE: In this screen capture we've collapsed several tags in the HTML view to display the class tag we're going to use.*



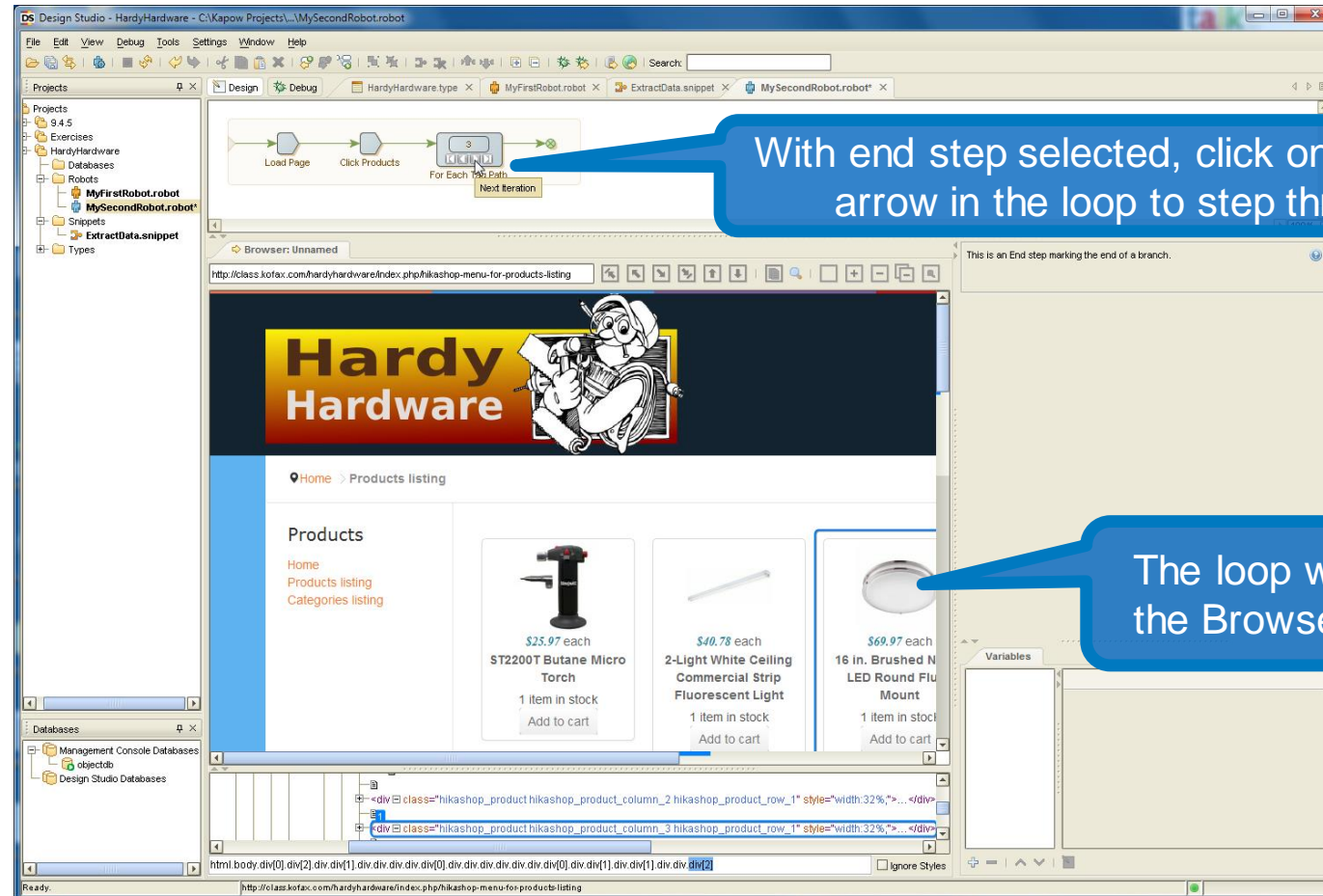
Loop for Tags With Class

- Right mouse-click the first tag and select Loop For Tags With Class. Then select hikashop_product. That tag is generic for every item on the page.



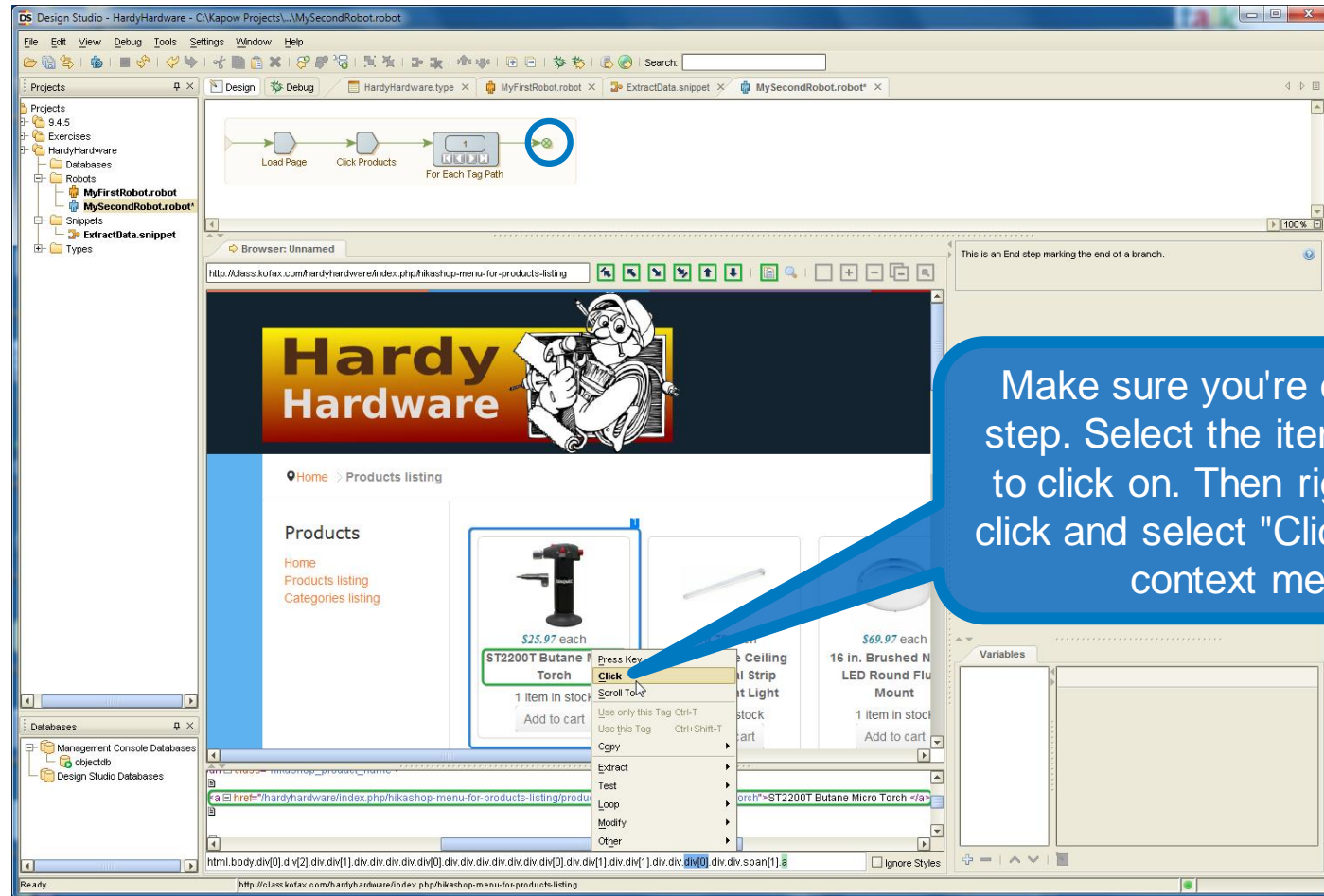
Click on End Step and Test Your Loop

- Remember, to see the results of a step, you have to go past that step (then, it will have already occurred).



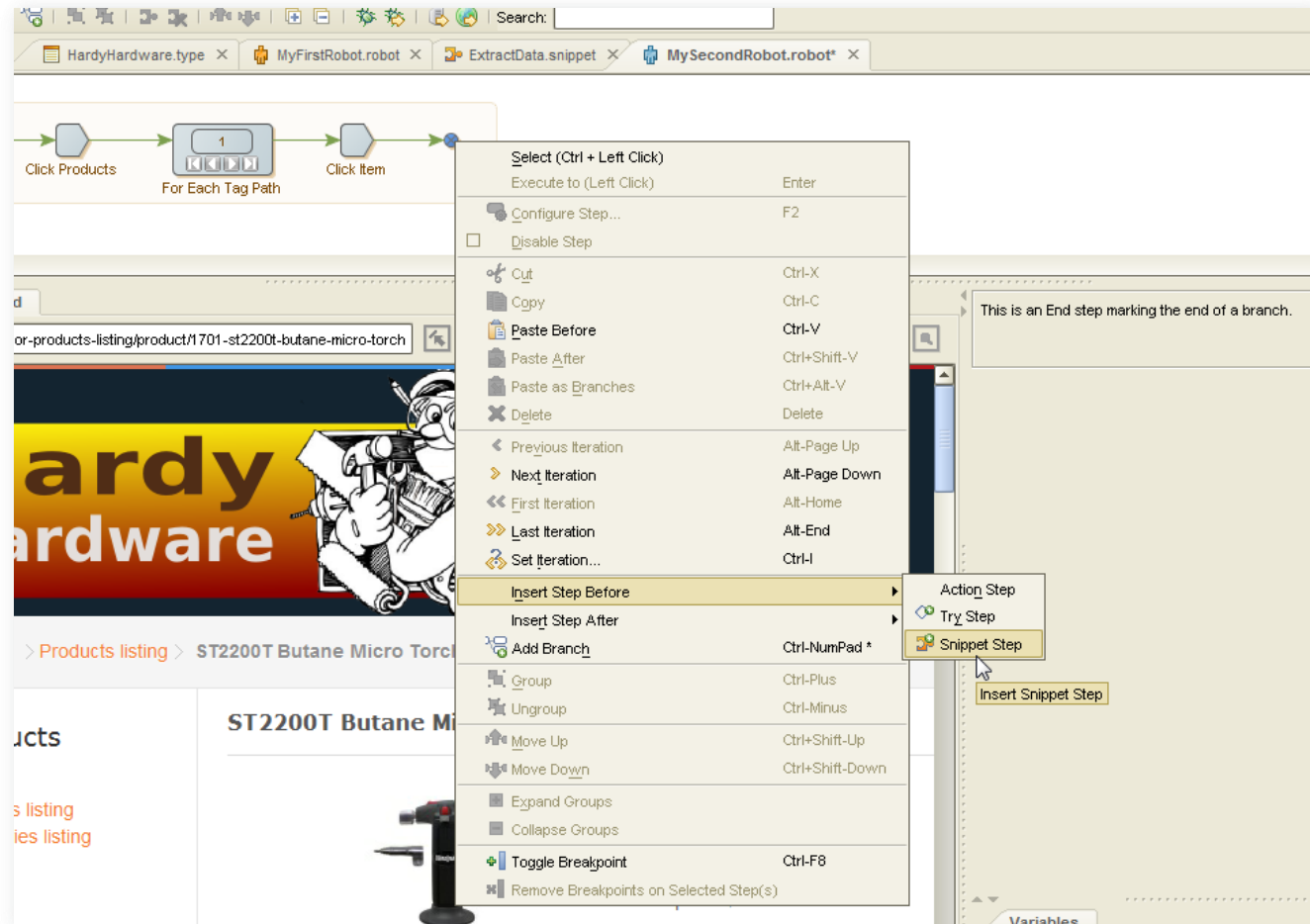
Now We Want to Click on the Item

- ◆ Let's create a Click Action Step to select the item and bring up its details.



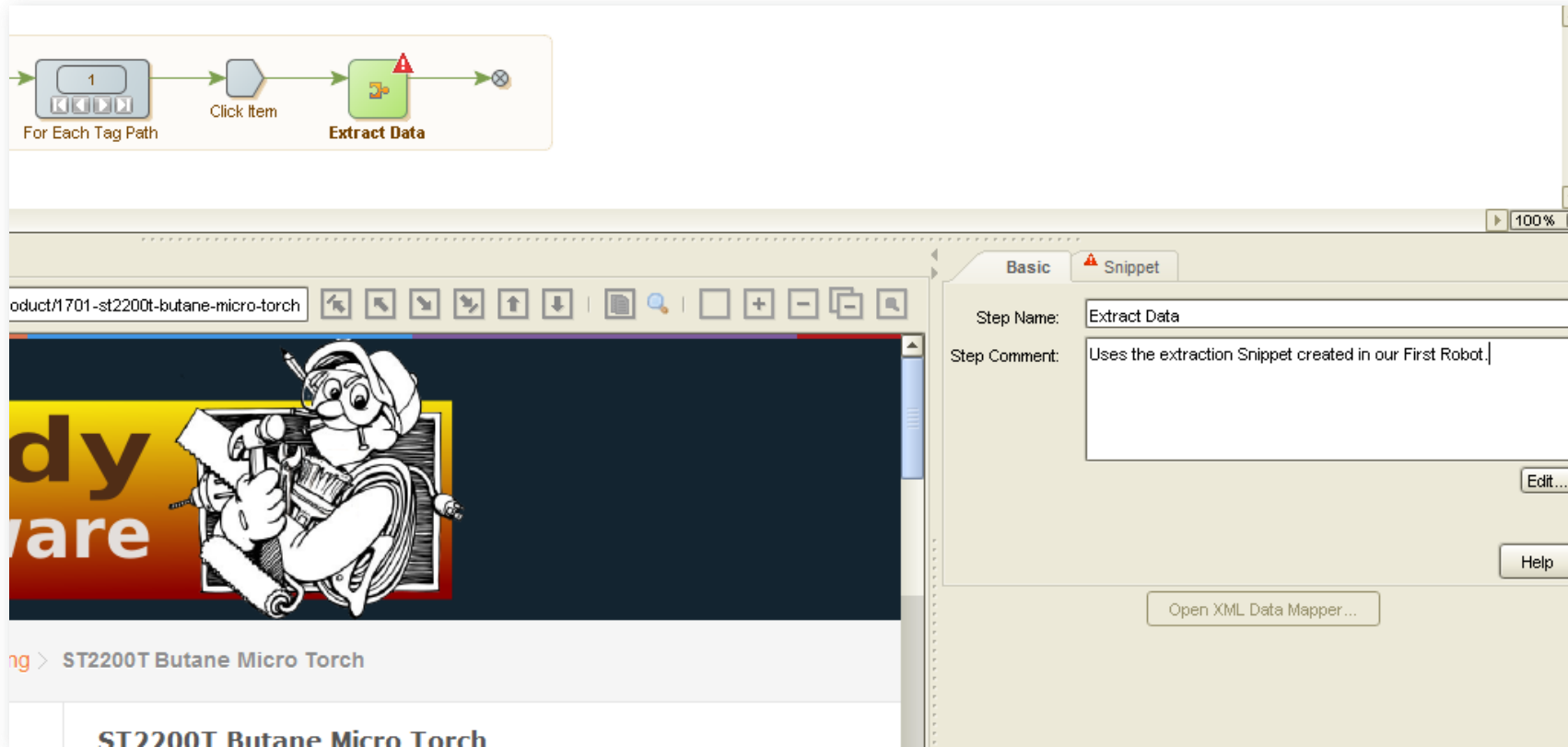
And Perform Extraction...But Wait...There's a Snippet for That!

- Now, we're going to add the Snippet we created in the last Robot. It will perform all the extraction steps for us.



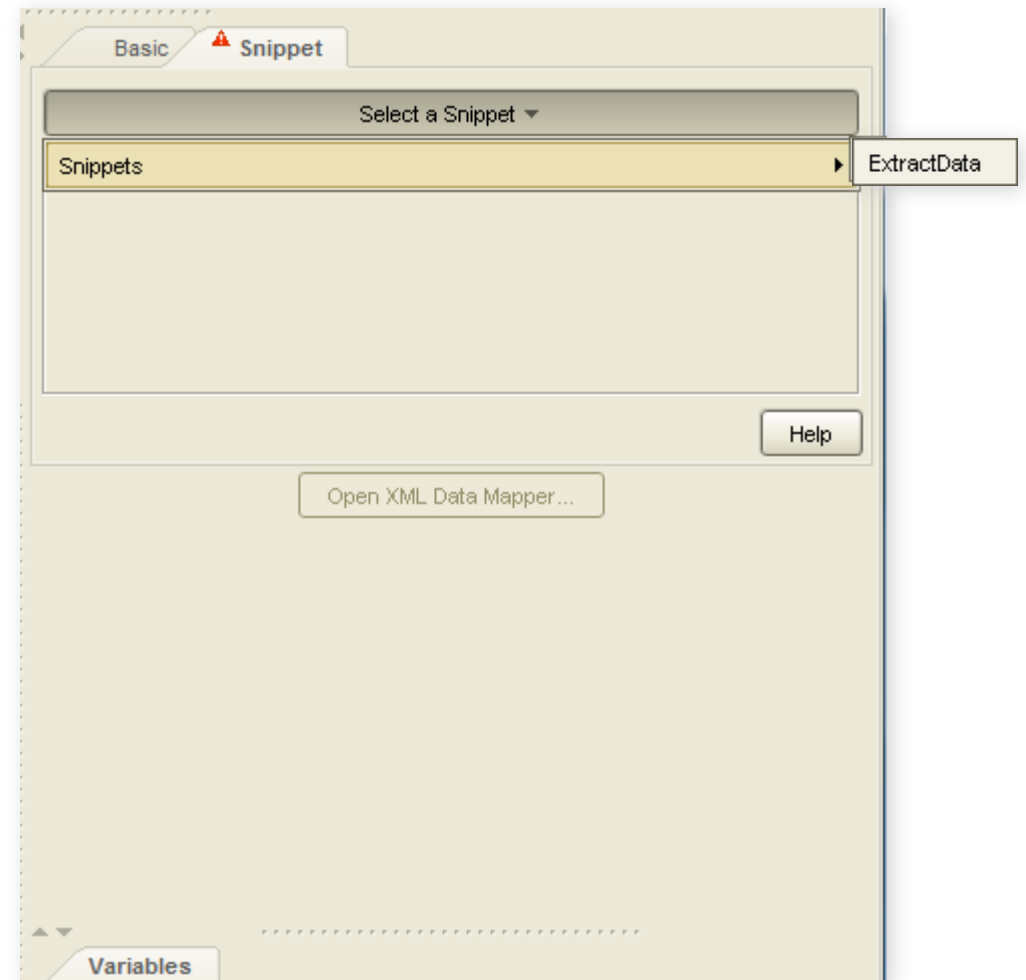
Snippet Added

- ◆ A Snippet has been added. On the Basic tab, we've given it a name: Extract Data. The Step Comment is optional.



The Snippet Tab

- ◆ Then select the Snippet called ExtractData. This is the one you created earlier.
- ◆ NOTE: Snippets and Robots MUST use the same browser engine. If the engines (Default or Classic) are different, the Snippet will not be available from the list. Likewise, Snippets and Robots must belong to the same Project.
- ◆ When a Snippet is selected, you'll notice that the Variables come across with it.



Finally, Let's Add a Return Data Step

The screenshot shows the Design Studio interface for a project named 'HardyHardware'. The workflow in the center includes steps: Load Page, Click Products, For Each Tag Path, Click Item, Extract Data, and Return Value. A blue callout box points to the 'Return Value' step with the text: 'The Return Value Step has been added. Notice the Variables extracted in the Variables panel.' Below the workflow, a browser preview shows a product page for 'ST2200T Butane Micro Torch' from 'Hardy Hardware'. The page displays the product name, a star rating, common price (\$25.97), our price (\$25.97 each), and stock status (1 item in stock). The right sidebar contains a search bar and a 'Store Locator' section. The bottom right panel shows the 'Variables' section for the 'Return Value' step, listing extracted data for 'HardyHardware' (Snippet: Extract) with fields: Name (ST2200T Butane Micro Torch), Description (Bernzomatic ST2200T Butane Micro Torch), Overview (Bernzomatic Butane Micro Torch Kit is for precision light soldering, poly foam cutting and heating, craft and hobby projects, electronic repairs and small household projects. It is), SKU (836093355), Aisle (13), and Bay (018).

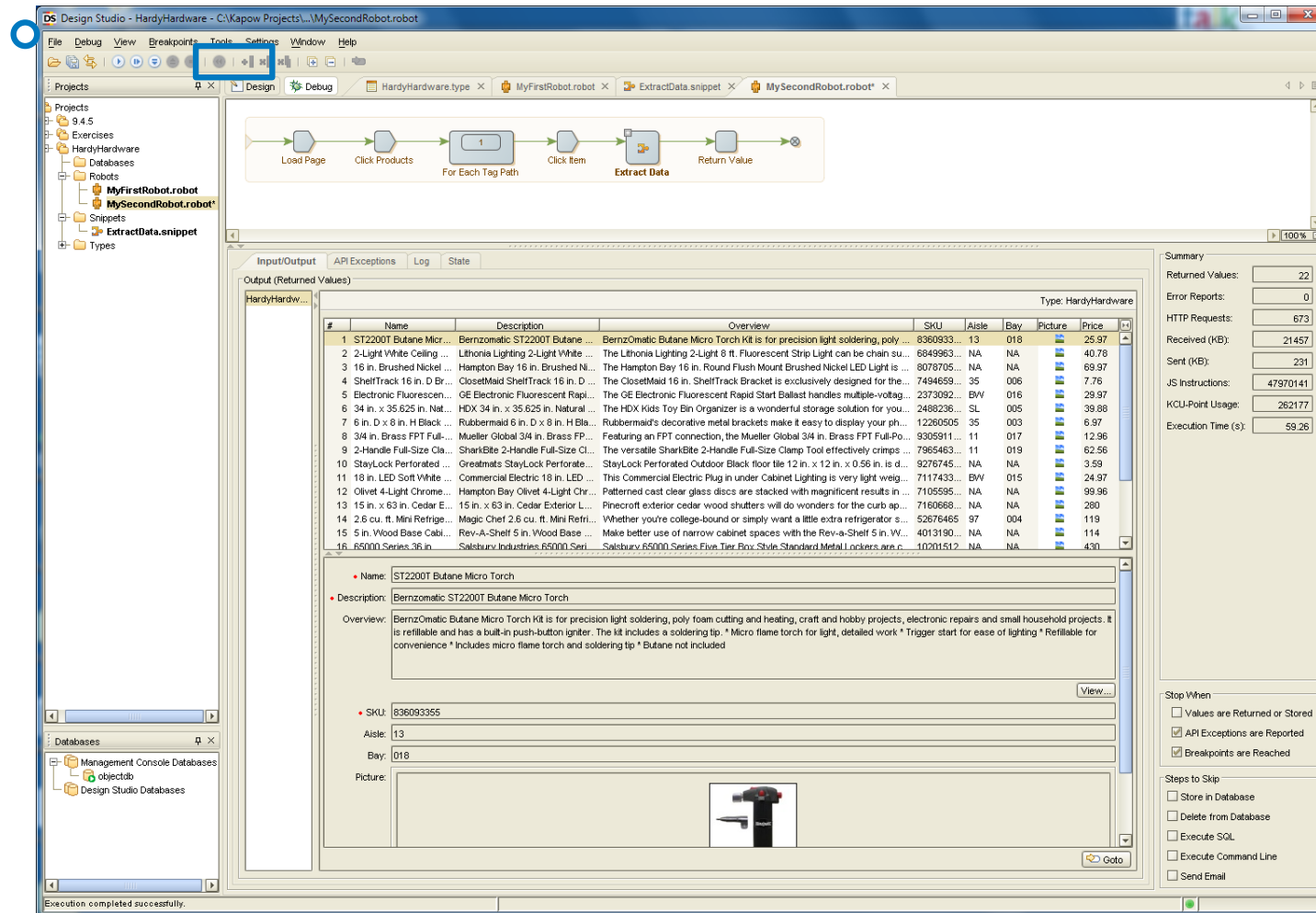
Test the Robot in Design View

The screenshot displays the Kofax Design View interface. At the top, a workflow diagram shows a sequence of actions: 'Click Products', 'For Each Tag Path' (containing a loop with a forward arrow), 'Click Item', 'Extract Data', and 'Return Value'. A blue arrow points from the forward arrow in the loop to a text box. Below the workflow, a browser window shows a product page for '2-Light White Ceiling Commercial Strip Fluorescent Light' from 'Hardy Hardware'. The page includes a search bar, a 'Store Locator' button, and a 'Use Zip Code' button. To the right, a 'Return Value' panel shows the extracted data for the selected item, including its name, description, and overview. The 'Variables' panel on the right shows the 'HardyHardware' variable.

If we click on the forward arrow in our loop, we go to the second item and its extracted results are displayed in the Variables panel.

Test in the Debugger

- After saving our Robot, let's test in Debug Mode





Demo & Lab

Setting up a basic loop step