

# Spy on a Web Object in a Browser

## ◆ Steps to Use Web Spy in Katalon Studio

1. **Open Katalon Studio** and click **"Spy Web"** from the top menu.
2. Enter the **URL of the web application** to inspect.
3. Select the browser (Chrome, Firefox, Edge).
4. Click **"Start"** – This will open the browser and start capturing elements.
5. **Hover and click** on elements to capture them (e.g., buttons, input fields).
6. The **captured elements** appear in Katalon's Object Spy window.
7. Click **"Add to Object Repository"** to save the elements for later use.

## ◆ Using Browser DevTools for Manual Inspection

- Open **Chrome DevTools** (Press **F12** or **Right-click** → **Inspect**).
  - Select elements manually and copy locators (XPath, CSS).
  - Validate locators in **Selectors Hub** (if installed).
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## 3. Object Locators & Strategies

### ◆ Types of Locators in Katalon Studio

To interact with web elements, Katalon uses different locators:

Locator Type	Example	Usage
ID	<code>id="username"</code>	Fastest and most reliable
Class Name	<code>class="btn-primary"</code>	Used for styling-based elements
Name	<code>name="email"</code>	Common for form fields
Tag Name	<code>tagName("input")</code>	Identifies elements by tag (button, input, etc.)
Link Text	<code>linkText("Sign In")</code>	For hyperlink elements
Partial Link Text	<code>partialLinkText("Sign")</code>	When full text is dynamic

<b>CSS Selector</b>	<code>cssSelector("#loginButton")</code>	Faster than XPath
<b>XPath</b>	<code>xpath="//input[@id='password']"</code>	Used for complex scenarios

#### ♦ Best Practices for Choosing Locators

- ✓ **Prefer ID or Name:** If available, these are the fastest.
  - ✓ **Use CSS Selectors:** More efficient than XPath for most cases.
  - ✓ **Avoid Absolute XPath** (`/html/body/...`): Instead, use **Relative XPath** (`//div[@class='form-group']`).
  - ✓ **Use Unique Attributes:** Combine multiple attributes if needed (e.g., `//button[@class='btn' and @type='submit']`).
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## 4. Example: Capturing and Using an Object in Katalon Studio

#### ♦ Capturing an Object Using Web Spy

1. Start **Spy Web** and capture the "Login" button.
2. Save it in the **Object Repository** as `Login_Button`.

#### ♦ Using the Captured Object in a Test Case (Script Mode)

```

groovy
CopyEdit
import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as WebUI

WebUI.openBrowser('https://example.com')
WebUI.click(findTestObject('Object Repository/Login_Button')) //
Click on the captured button
WebUI.verifyElementPresent(findTestObject('Object
Repository/HomePage_Welcome'), 10)
WebUI.closeBrowser()

```