

1. What is SelectorsHub?

SelectorsHub is a browser extension that helps testers and developers **generate accurate XPath and CSS Selectors** for web elements. It works inside the browser's DevTools and provides smart, unique, and reliable locators for Selenium, Playwright, Cypress, TestCafe, WebdriverIO, etc.

It is widely used because it improves productivity and reduces errors while writing automation scripts.

2. Why SelectorsHub is Used?

SelectorsHub is used mainly for the following reasons:

a. Auto-generation of Locators

It automatically creates clean and unique XPath, CSS Selectors, and Relative XPath for any element on the page.

b. Detection of Shadow DOM and iFrames

SelectorsHub identifies whether an element is inside a **Shadow DOM** or an **iFrame**, which normal DevTools do not clearly highlight. This helps testers know the correct approach for locating such elements.

c. View All Element Attributes

It displays all HTML attributes of the inspected element so that users can choose the most stable and unique attribute for locator creation.

d. XPath Validation

SelectorsHub validates the XPath typed or generated, showing:

- Whether the XPath is correct
- Number of matched elements
- Whether the XPath is unique

This helps avoid errors while writing Selenium scripts.

e. Avoids Using Dynamic Attributes

SelectorsHub automatically marks dynamic or changing attributes and prevents the tool from using them in locators.

f. Improves Learning

It helps beginners learn XPath and CSS by showing how locators are formed.