Hidden, Bootstrap and Autosuggest Dropdowns

Hidden Dropdown: The dropdown options are hidden, meaning we cannot directly inspect them because they disappear or are not visible in the DOM.

Bootstrap Dropdown: This type of dropdown does not use the `<select>` tag. It is commonly used in modern web applications.

Auto Suggest / Auto Complete: Options are displayed dynamically as you type. The options are usually fetched from the server at runtime.

Techniques to get hidden options in the dropdown:

Technique 1: Use SelectorsHub **Turn on Debugger** option.

Technique 2:

1. Open the DOM
2. Press Ctrl+Shift+P
3. Then type **emulate a focused page** and select.
4. Locate hidden elements on the page
5. After locating repeat the steps 1,2.
6. Then type **Do not emulate a focused page** and select.

textContent() Vs innerText():

In **Playwright**, both **textContent()** and **innerText()** are used to retrieve the text from a web element, but they have key differences in **how** and **what** they return.

textContent()

- **Returns**: The **raw text content**, including hidden elements and extra whitespace.

- **Includes**:

    o Text from hidden elements (e.g., display: none)

    o Extra whitespaces, line breaks, etc.

- **Use Case**: When you want the exact DOM text, regardless of visibility or formatting.

const text = await page.locator('selector').textContent();

innerText()

- **Returns**: The **visible rendered text**, similar to what a user sees on the screen.

- **Excludes**:
    - Hidden elements
    - Invisible text due to CSS

- **Normalizes**:
    - Eliminates Whitespace and line breaks (like a browser does)

- **Use Case**: When you want to verify visible text on a page, like for assertions.

const visibleText = await page.locator('selector').innerText();

Feature	textContent()	innerText()
Visibility matters?	❌ No	✅ Yes
Whitespace?	Preserved as-is	Normalized
Hidden text?	✅ Included	❌ Excluded
Use case	Exact DOM text (e.g., parsing)	Visible user text (e.g., testing)

Example:

Sample DOM:

```
<div id="demo">
  Welcome
  <span style="display:none">To India</span>
</div>
```

- textContent() → "Welcome To India"

- innerText() → "Welcome"

Summary of Concepts:

Concept	Explanation
page.locator()	To locate a single or group of elements
fill()	Type text into input
click()	Click on a button or element
waitForTimeout()	Wait for a few seconds
Locator.count()	Get number of matching elements
Locator.nth(i)	Access the i-th element in a group
textContent() or innerText()	Get text from elements
Loop through dropdown options	Used to print and select items dynamically