

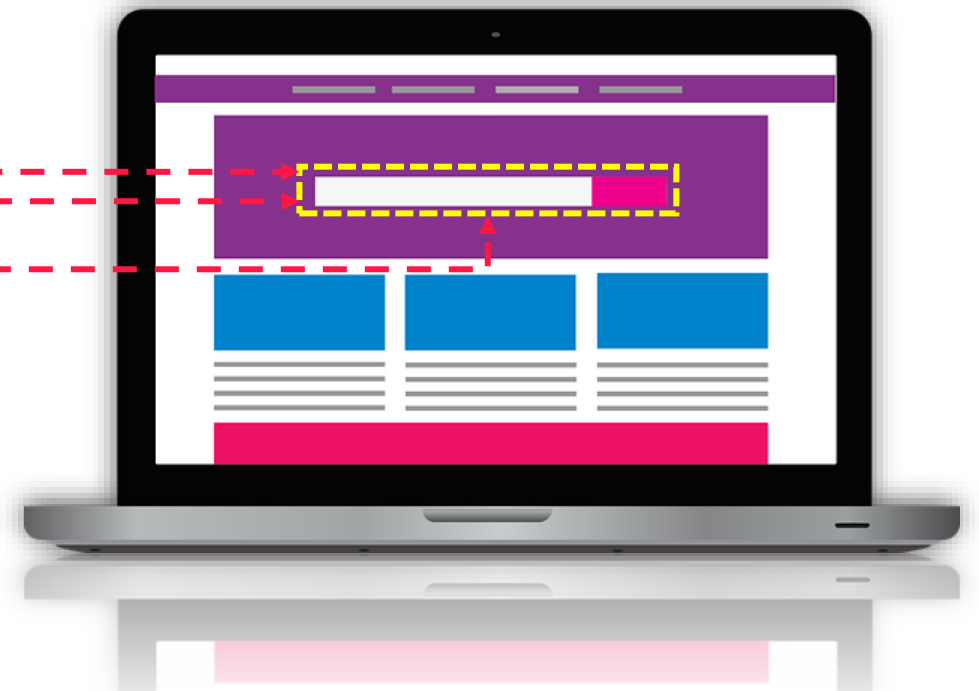
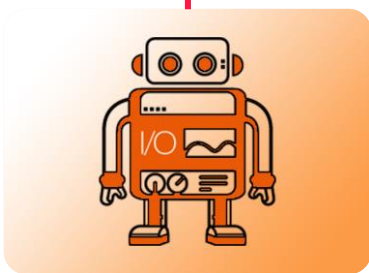
AUTOMATION TESTING FRAMEWORK(S) & SELECTORS

WHY STUDY SELECTORS?

- Major skill / component required when building effective automation test(s) and test automation framework(s).
- Improve the efficiency and robustness of your tests.
- We require a means of interacting with the System Under Test (SUT); selectors enable us to locate whilst interact with given web element(s) etc.

SELECTORS & TEST AUTOMATION FRAMEWORKS

- Many of the Popular Test Automation Frameworks require selectors to interact with the target system (SUT):
 - **Selenium WebDriver** (Java, Python etc)
 - **Cypress**
 - **WebdriverIO** etc.

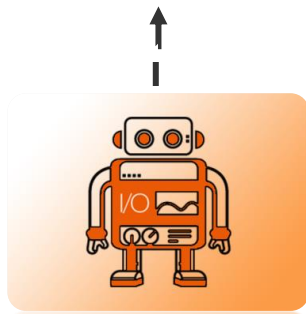


PRACTICAL EXAMPLE

- We need an automated test which interacts with the following 'Send' button.

- The following CSS selector will locate the 'Send' button:

`button[id='sendMessageButton']`



Phone Number

Message

Send

```
<div class="form-group">  
  <button class="btn btn-primary btn-xl" id="sendMessageButton"  
    type="submit">Send</button> == $0  
</div>  
</form>
```

SELECTORS & AUTOMATION TESTING TECHNOLOGIES

Selenium WebDriver

```
driver.findElement(By.cssSelector,"button[id='sendMessageButton']").click();  
driver.findElement(By.id,"sendMessageButton").click();  
By.name  
By.className  
By.tagName  
By.linkText  
By.partialLinkText
```

WebdriverIO

```
const elem = $(selector)  
  
const elem = $('button[id='sendMessageButton']')  
elem.click()  
  
elem.getText()
```

Cypress

```
cy.get(selector)  
  
cy.get('button[id='sendMessageButton']").click()  
  
cy.get('#sendMessageButton').click()
```