Python with selenium content Online

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SELENIUM: Selenium Introduction

- **Locators :**

- **Inspecting elements in different browsers .**

- ➢ Id   driver.find_element(By.ID, "username")

- ➢ name   driver.find_element(By.NAME, "email")

- ➢ classname   driver.find_element(By.CLASS_NAME, "btn")

- ➢ x path   driver.find_element(By.XPATH,

-      "//input[@id='username']")

- ➢ tagName   driver.find_element(By.TAG_NAME, "input")

- ➢ linkText   driver.find_element(By.LINK_TEXT, "Click Here")

- ➢ partiallyLinkText   driver.find_element(By.PARTIAL_LINK_TEXT, "Click")

- ➢ cssSelector   driver.find_element(By.CSS_SELECTOR, "#username")

- ➢ Contains Xpath   //tag[contains(@attribute, 'value')]

- ➢ Text Xpath   //tag[text()='Exact Text']   //button[text()='Submit']

- ➢ Text Contains Xpath //tag[contains(text(), 'Partial Text')]

- ➢ Attribute with contains //tag[contains(@attribute, 'partialValue')]

- ➢ Following   //tag[@attribute='value']/following::tagName

- ➢ Ancestor   //tag[@attribute='value']/ancestor::tagName

- ➢ Child   //tag[@attribute='value']/child::tagName

- ○
- ○
- ○
- ○ ➢ Preceding
- ○ ➢ Following-sibling
- ○ ➢ Parent
- ○ ➢ Self
- ○ ➢ Descendant
- ○ **Types Of Xpath**
- ○ ➢ Relative X path
- ○ ➢ Absolute Xpath
- ○ ➢ Difference between Absolute Xpath and Relative Xpath
- ○ ➢ Limitations in Absolute x path
- ○ ➢ Advantages of using Relative x path
- ○ **Check Box**
- ○ ➢ Finding checkboxes count
- ○ ➢ Checking the visibility of Check Box
- ○ ➢ Checking the properties of Check Box
- ○ ➢ Identifying common locator for all checkboxes
- ○ **Text Box**
- ○ ➢ Handling the Text Box
- ○ ➢ Checking the visibility of Text Box
- ○ ➢ Checking the properties of Text Box
- ○ ➢ Identifying common locator for all TextBoxes
- ○ ➢ Finding Textboxes count
- ○ ➢ Entering text into textbox
- ○ ➢ Getting the user entered text from textbox
- ○ **Radio Button**
- ○ ➢ Handling the Radio Button

- ○ ➢ Refresh Command
- ○ ➢ navigate method over get method
- ○ ➢ Navigation by using JavascriptExecutor
- ○ **WebDriver Commands**
- ○ ➢ Fetching a web page
- ○ ➢ Locating elements and sending user inputs
- ○ ➢ Clearing User inputs
- ○ ➢ Fetching data over any web element
- ○ ➢ Performing Click event
- ○ ➢ Navigating backward in browser history
- ○ ➢ Navigating forward in browser history
- ○ ➢ Refresh/ Reload a web page
- ○ ➢ Closing Windows
- ○ ➢ Closing Browser
- ○ ➢ Handling Windows
- ○ ➢ Handling Frames
- ○ ➢ Handling Drag and Drop
- ○ **Actions**
- ○ ➢ Drag and Drop
- ○ ➢ Mouseover Action
- ○ ➢ Right Click
- ○ ➢ Double Click
- ○ ➢ Performing Multiple Actions
- ○ ➢ Accessing modifier keys using Actions class
- ○ **Alerts**
- ○ ➢ Switching into Alert
- ○ ➢ Alert methods
- ○ ➢ Types of Alert
- ○ ➢ Handling the Alert

- ○ ➢ Passing the inputs to Alerts
- ○ ➢ Entering text into Alert
- ○ ➢ Get the text present in Alert
- ○ **Robot Class**
- ○ ➢ Need of Robot Class
- ○ ➢ Methods to implement this class
- ○ ➢ Mouse click using Robot class
- ○ ➢ Limitations
- ○ ➢ Copy Operations
- ○ ➢ Cut Operations
- ○ ➢ Paste Operations
- ○ ➢ File Uploading
- ○ ➢ Alert Handling
- ○ Waits
- ○ ➢ Need for Waits
- ○ ➢ Static waits
- ○ ➢ Dynamic waits
- ○ ➢ Implicit Waits
- ○ ➢ Explicit Waits
- ○ ➢ Fluent Waits
- ○ ➢ WebDriver Waits
- ○ **JavaScript**
- ○ ➢ JavascriptExecutor
- ○ ➢ Purpose of JavascriptExecutor
- ○ ➢ Click Operation
- ○ ➢ Fetching the Data from Webelement
- ○ ➢ Sending the Inputs to WebElement
- ○ ➢ Scrolling Operations
- ○ ➢ Highlighting a WebElement

- **ScrollUp/ScrollDown**
- ➢ Scroll the web page by pixel
- ➢ Scroll the web page by the visibility of the element
- ➢ Scroll down the web page at the bottom of the page
- ➢ Horizontal scroll on the web page
- ➢ Multiple Scroll
- ➢ ScrollBy coordinates
- **Frames**
- ➢ Need for Frames
- ➢ Identifying a Frame
- ➢ Switching to Frames using Selenium WebDriver
- ➢ Different ways of switching
- ➢ Dynamic frames handling
- ➢ Frames Size
- ➢ Concept of Nested Frames
- **Windows Handling**
- ➢ Importance of Windows Handling
- ➢ Handling the Multiple Windows
- ➢ Windows Handling using Set
- ➢ Windows Handling using List
- **WebTable**
- ➢ Analyzing WebTable structure in DOM
- ➢ Handling multiple web tables in a page
- ➢ Dynamically changing WebTable handling
- ➢ Extracting values from webTable
- ➢ Analyzing the Tag Names
- ➢ Different Scenarios with WebTable
- **Dynamic WebTable**
- ➢ Handling Dynamic Tables In Selenium

- ○ ➢ Analyzing the Dynamic WebTable
- ○ ➢ Analyzing the HTML Tags in Dynamic WebTable
- ○ ➢ Different Scenario with Dynamic WebTable
- ○ **ScreenShot**
- ○ ➢ Need of Screenshot in Automation testing
- ○ ➢ Capture Screenshot in Selenium
- ○ ➢ Capture Full Page Screenshot
- ○ ➢ Taking a Screenshot of a particular element of the page
- ○ ➢ Taking a Screenshot with different file formates
- ○ ➢ Random name generation for screenshots
- ○ ➢ Screenshot creation for each test case
- ○ **Image**
- ○ ➢ Finding images count in webpage
- ○ ➢ Finding broken images count in webpage
- ○ ➢ Finding broken image URL
- ○ ➢ JavaScriptExecutor code to verify if image
- ○ ➢ code to print desired output as per image
- ○ **Links**
- ○ ➢ Identifying URL
- ○ ➢ Validating URL
- ○ ➢ To Find a broken links
- ○ ➢ HTTP response code
- ○ ➢ Collect all the links in the web page
- ○ **DropDown**
- ○ ➢ Select class in Selenium WebDriver
- ○ ➢ Different Select commands
- ○ ➢ Multiple Select commands
- ○ ➢ DeSelect Commands
- ○ ➢ Get All options

- ○ ➢ Dropdown without Select tag

- ○ ➢ Handling dropdown with values changing its position dynamically.

- ○ **File Upload/File Download**

- ○ ➢ Uploading files in Selenium WebDriver using Sendkeys

- ○ ➢ Uploading files in Selenium WebDriver using Robot Class

- ○ ➢ Uploading files in Selenium WebDriver using AutoIT

- ○ ➢ Download files in Selenium WebDriver using Sendkeys

- ○ ➢ Download files in Selenium WebDriver using Robot Class

- ○ ➢ Download files in Selenium WebDriver using AutoIT

- ○ **Auto IT**

- ○ ➢ download and install AutoIT

- ○ ➢ Finding element through element Identifier

- ○ ➢ Writing script on AutoIT editor

- ○ ➢ AutoIT Upload file in Selenium Webdriver

- ○ **Tooltip:**

- ○ ➢ Advanced User Interactions API

- ○ ➢ Get Tooltip Text in Selenium Webdriver

- ○ ➢ Tooltip using the "title" attribute

- ○ ➢ Tooltip using a jQuery plugin