**Practice Automation Form**

We will be practicing how to automate below objects in a webpage

Accordion in an iframe

Accordion without iframe

AutoComplete textbox with fixed Xpath

AutoComplete textbox with variable Xpath

Button

Radio button wrapped in label tab

Closing a Dialog box

Moving mouse in a menu and sub-menu

Dropdown box - Approach 1

Dropdown box - Approach 2

Dropdown box - Approach 3

Clicking incrementing and decrementing Spinner

Clicking through tabs

Moving mouse and fetching tootltip

**package** pack5;

**import** java.util.List;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.interactions.Actions;

**import** org.openqa.selenium.support.ui.Select;

**public** **class** jqueryui {

**public** **static** **void** main(String[] args) **throws** InterruptedException {

WebDriver driver = **new** ChromeDriver();

driver.manage().timeouts().implicitlyWait(15, TimeUnit.***SECONDS***);

driver.navigate().to("https://jqueryui.com/");

// Example for Accordion in an iframe

/\* driver.findElement(By.linkText("Accordion")).click();

//below code is used to switch to iframe

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

driver.findElement(By.xpath("//\*[@id='ui-id-3']")).click();

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id='ui-id-5']")).click();

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id='ui-id-7']")).click();

\*/

// Another example for Accordion without iframe

/\* driver.navigate().to("http://angular-ui.github.io/bootstrap/#!#%2Faccordion");

List<WebElement> accordian = driver.findElements(By.xpath("//span[@ng-class=\"{'text-muted': isDisabled}\"]"));

for (int i = 0; i < accordian.size(); i++) {

System.out.println(accordian.get(i).getText());

}

\*/

// Example for AutoComplete textbox with fixed Xpath

/\* driver.findElement(By.linkText("Autocomplete")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

driver.findElement(By.id("tags")).sendKeys("Sc");

Thread.sleep(2000);

WebElement autooption = driver.findElement(By.id("ui-id-1"));

Thread.sleep(2000);

List<WebElement> autodropdown = autooption.findElements(By.xpath("//ul[@id='ui-id-1']/li/div"));

System.out.println(autodropdown.size());

for (int i = 0; i < autodropdown.size(); i++) {

System.out.println(autodropdown.get(i).getText());

}\*/

// Example for AutoComplete textbox with variable Xpath

/\* driver.findElement(By.linkText("Autocomplete")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

driver.findElement(By.id("tags")).sendKeys("Sc");

Thread.sleep(2000);

String part1 = "//ul[@id='ui-id-1']/li[";

String part2 = "]/div";

for (int i = 1; i < 6; i++) {

System.out.println(driver.findElement(By.xpath(part1+i+part2)).getText());

}

\*/

// Example of Button

/\* driver.findElement(By.linkText("Button")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

System.out.println(driver.findElement(By.xpath("//button[@class='ui-button ui-corner-all ui-widget']")).getText());

\*/

// Example of Radio button wrapped in label tab

/\* driver.findElement(By.linkText("Checkboxradio")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

Thread.sleep(2000);

List<WebElement> radiobutton\_in\_label = driver.findElements(By.xpath("//label[contains(@for,'radio')]"));

List<WebElement> radiobutton\_in\_input = driver.findElements(By.xpath("//input[contains(@name,'radio')]"));

//Use Lable field for displaying the lable and clicking the radio button

// Use input field for displaying isSelected

System.out.println("1. Use 'lable' tag for displaying the lable and clicking the radio button");

System.out.println("2. Use 'input' tag for checking if radio button is selected or not");

for (int i = 0; i < radiobutton\_in\_label.size(); i++) {

System.out.println(radiobutton\_in\_label.get(i).getText() + " - " + radiobutton\_in\_input.get(i).isSelected());

}

System.out.println("Clicked New York");

radiobutton\_in\_label.get(0).click();

Thread.sleep(2000);

System.out.println("Radio button lables and selected state after clicking New York radio button");

for (int i = 0; i < radiobutton\_in\_label.size(); i++) {

System.out.println(radiobutton\_in\_label.get(i).getText() + " - " + radiobutton\_in\_input.get(i).isSelected());

}

\*/

// Example of closing a Dialog box

/\* driver.findElement(By.linkText("Dialog")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

Thread.sleep(2000);

driver.findElement(By.xpath("//span[@class='ui-button-icon ui-icon ui-icon-closethick']")).click();

\*/

// Example of moving mouse in a menu and sub-menu

/\* driver.findElement(By.linkText("Menu")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

Actions menu\_action = new Actions(driver);

WebElement Electronics = driver.findElement(By.xpath("//\*[@id=\"ui-id-4\"]"));

Thread.sleep(2000);

menu\_action.moveToElement(Electronics);

menu\_action.click().build().perform();

\*/

// Example of Dropdown box - Approach 1

/\* driver.findElement(By.linkText("Selectmenu")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

Thread.sleep(2000);

driver.findElement(By.xpath("//\*[@id=\"speed-button\"]/span[1]")).click();

Thread.sleep(2000);

List<WebElement> drop\_down\_options = driver.findElements(By.xpath("//li[@class='ui-menu-item']/div"));

System.out.println(drop\_down\_options.size());

for (int i = 0; i < drop\_down\_options.size(); i++) {

System.out.println(drop\_down\_options.get(i).getText());

}

\*/

// Example of Dropdown box - Approach 2

/\* driver.findElement(By.linkText("Selectmenu")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

WebElement drop\_down\_options2 = driver.findElement(By.xpath("//select[@name='speed']"));

JavascriptExecutor js = (JavascriptExecutor) driver;

js.executeScript("document.getElementById('speed').setAttribute('style', 'display: inline')");

System.out.println(drop\_down\_options2.getAttribute("style"));

Select s = new Select(drop\_down\_options2);

for (int i = 0; i < s.getOptions().size(); i++) {

System.out.println(i + " - " + s.getOptions().get(i).getText());

}

s.selectByIndex(0);

Thread.sleep(2000);

\*/

// Example of Dropdown box - Approach 3

/\* driver.navigate().to("https://login.yahoo.com/account/create");

WebElement dropdown\_box = driver.findElement(By.xpath("//select[@type='select']"));

Select s = new Select(dropdown\_box);

System.out.println("getFirstSelectedOption = " + s.getFirstSelectedOption().getText());

s.selectByIndex(2);

Thread.sleep(4000);

s.selectByValue("AU");

// for (int i = 0; i < s.getOptions().size(); i++) {

// System.out.println(s.getOptions().get(i).getText());

// }

\*/

// Example of clicking incrementing and decrementing Spinner

/\* driver.findElement(By.linkText("Spinner")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

List<WebElement> drop\_down\_options2 = driver.findElements(By.xpath("//a[@role='button']/span"));

Thread.sleep(2000);

drop\_down\_options2.get(0).click();

Thread.sleep(2000);

drop\_down\_options2.get(0).click();

Thread.sleep(2000);

drop\_down\_options2.get(2).click();

Thread.sleep(2000);

drop\_down\_options2.get(2).click();

Thread.sleep(2000);

\*/

// Example of clicking through tabs

/\* driver.findElement(By.linkText("Tabs")).click();

driver.switchTo().frame(driver.findElement(By.className("demo-frame")));

Thread.sleep(2000);

List<WebElement> tabs = driver.findElements(By.xpath("//a[@role='presentation']"));

tabs.get(1).click();

Thread.sleep(2000);

tabs.get(2).click();

Thread.sleep(2000);

tabs.get(0).click();

\*/

// Example of moving mouse and fetching tootltip

driver.manage().window().maximize();

driver.findElement(By.*linkText*("Tooltip")).click();

driver.switchTo().frame(driver.findElement(By.*className*("demo-frame")));

Thread.*sleep*(2000);

WebElement tooltip1 = driver.findElement(By.*xpath*("//input[@id='age']"));

System.***out***.println("1st - " + tooltip1.getAttribute("title"));

Actions action = **new** Actions(driver);

action.moveToElement(tooltip1).build().perform();

}

}

