4.6 Date Picker



This section will guide you to:

* Work with the date picker library and automate calendars on web pages.

This guide has three subsections, namely:

4.6.1 Create a Selenium project

4.6.2 Write code for calendar automation

4.6.3 Push the code to your GitHub repository

**Step 4.6.1:** Create a Selenium project

* Open Eclipse and create a new Java project.
* Add selenium jar files to the build path.
* Add browser executable files in the **resource** folder.

**Step 4.6.2:** Write code for calendar automation

* Create a Java file with the name **calendar.java** and write the code given below:

**import java.util.List;**

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

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

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

**public class DatePicker**

**{**

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

**{**

**String dot="9/October/2018";**

**String date,month,year;**

**String caldt,calmonth,calyear;**

**/\***

**\* Split the String into String Array**

**\*/**

**String dateArray[]= dot.split("/");**

**date=dateArray[0];**

**month=dateArray[1];**

**year=dateArray[2];**

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

**driver.get("http://cleartrip.com");**

**driver.findElement(By.id("DepartDate")).click();**

**WebElement cal;**

**cal=driver.findElement(By.className("calendar"));**

**calyear=driver.findElement(By.className("ui-datepicker-year")).getText();**

**/\*\***

**\* Select the year**

**\*/**

**while (!calyear.equals(year))**

**{**

**driver.findElement(By.className("nextMonth")).click();**

**calyear=driver.findElement(By.className("ui-datepicker-year")).getText();**

**System.out.println("Displayed Year::" + calyear);**

**}**

**calmonth=driver.findElement(By.className("ui-datepicker-month")).getText();**

**/\*\***

**\* Select the Month**

**\*/**

**while (!calmonth.equalsIgnoreCase(month))**

**{**

**driver.findElement(By.className("nextMonth ")).click();**

**calmonth=driver.findElement(By.className("ui-datepicker-month")).getText();**

**}**

**cal=driver.findElement(By.className("calendar"));**

**/\*\***

**\* Select the Date**

**\*/**

**List<WebElement> rows,cols;**

**rows=cal.findElements(By.tagName("tr"));**

**for (int i = 1; i < rows.size(); i++)**

**{**

**cols=rows.get(i).findElements(By.tagName("td"));**

**for (int j = 0; j < cols.size(); j++)**

**{**

**caldt=cols.get(j).getText();**

**if (caldt.equals(date))**

**{**

**cols.get(j).click();**

**break;**

**}**

**}**

**}**

**}**

**}**

* Run the project as a Java application.

**Step 4.6.3:** Push the code to your GitHub repository

* Open your command prompt and navigate to the folder where you have created your files.

**cd <folder path>**

* Initialize your repository using the following command:

**git init**

* Add all the files to your Git repository using the following command:

**git add .**

* Commit the changes using the following command:

**git commit . -m “Changes have been committed.”**

* Push the files to the folder you initially created using the following command:

**git push -u origin master**