



Selenium

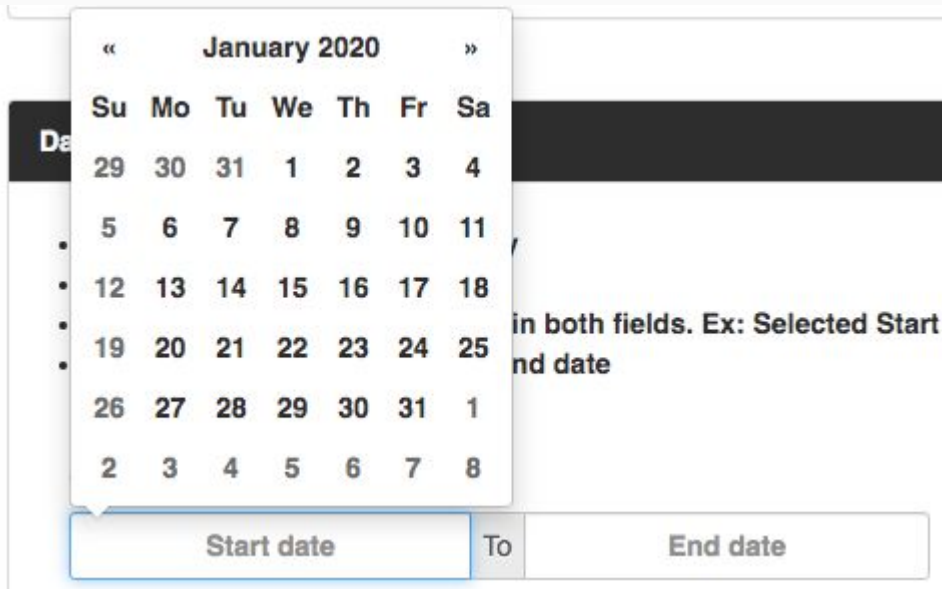
Class 9

Agenda

How to handle Calendars

Select Date from DatePicker in Selenium [calendar]

When we need to automate an airway, hotel, or similar websites we need to deal with Date Pickers.



What Is A Date Time Picker Control?

A date-time picker (**aka DTP**) control provides a simple and user-friendly interface for exchanging date and time information with a user.

For example, you can use a DTP control for asking the user to input a date and then quickly fetch the selection. Most of the time, it appears as an input field in an HTML form.

When the user selects a date, the feedback gets shown as the input's value.

Approach to handle calendar in Selenium Webdriver

Step 1- Click on calendar

Step 2- Get all td of table using findElements method

Step 3- using for loop get text of all td elements

Step 4- using if else condition we will check specific date

Step 5- If date is matched then click and break the loop.

Select Date from Calendar

```
public class CalendarDemo extends CommonMethods {
    public static void main(String[] args) {

        setUp("chrome", Constants.HRMS_URL);
        // login into HRMS
        driver.findElement(By.id("txtUsername")).sendKeys("admin");
        driver.findElement(By.id("txtPassword")).sendKeys("Hum@nhrm123");
        driver.findElement(By.id("btnLogin")).click();
        // wait until Leave link becomes clickable
        WebDriverWait wait = new WebDriverWait(driver, 30);
        wait.until(ExpectedConditions.elementToBeClickable(By.id("menu_leave_viewLeaveModule")));
        // navigate to the leave page
        driver.findElement(By.id("menu_leave_viewLeaveModule")).click();
        driver.findElement(By.linkText("Leave List")).click();
        // click on calendar
        driver.findElement(By.xpath("//img[@class='ui-datepicker-trigger']")).click();
        // get all cells from the table
        List<WebElement> cells = driver.findElements(By.xpath("//table[@class='ui-datepicker-calendar']/tbody/tr/td"));
        // loop through each cell
        for (WebElement cell : cells) {
            // retrieve text of each cell and check if it matches expected value
            if (cell.getText().equals("16")) {
                // once found click and break
                cell.click();
                break;
            }
        }
        driver.quit();
    }
}
```

```
9 public class Test3 {
10     public static void main(String[] args) throws InterruptedException {
11         // set up
12         System.setProperty("webdriver.chrome.driver", "src/Drivers/chromedriver");
13         WebDriver driver = new ChromeDriver();
14         // driver.manage().window().fullscreen();
15         driver.manage().timeouts().pageLoadTimeout(30, TimeUnit.SECONDS);
16         driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);
17         String url = "https://www.spirit.com/";
18         driver.get(url);
19         //click to open calendar
20         driver.findElement(By.id("departDate")).click();
21         //Capture month that currently displayed
22         String xPath="//div[@class='ui-datepicker-header ui-widget-header ui-helper-clearfix ui-corner-left']//span[@class='ui-datepicker-month']";
23         String month=driver.findElement(By.xpath(xPath)).getText();
24         System.out.println(month);
25         //Loop untill specific month is selected
26         if(!month.equals("January")) {
27             do {
28                 driver.findElement(By.xpath("//span[text()='Next']")).click();
29             }while(!driver.findElement(By.xpath(xPath)).getText().equals("January"));
30         }
31         //get all cells from table
32         String xPathCells="//div[@class='ui-datepicker-group ui-datepicker-group-first']/table[@class='ui-datepicker-calendar']/tbody//td";
33         List<WebElement> cells = driver.findElements(By.xpath(xPathCells));
34         //loop through each cell, get text and compare to specific date
35         for (WebElement cell : cells) {
36             String data = cell.getText();
37             if(data.equals("17")) {
38                 cell.click();
39                 break;
40             }
41         }
42         driver.quit();
43     }
44 }
```