
Pop Up

What is pop-up?

- A pop-up is a graphical user interface (GUI) display area, usually a small window, which appears in the foreground of the visual interface. Pop-ups can be initiated by a single or double mouse click or rollover (sometimes called a mouse-over).
- A window that appears (pops up) when you select an option with a mouse or press a special function key/link/button.
- A pop-up window must be smaller than the background window or interface; otherwise, it's a replacement interface.

Pop ups are categorized into following types

➔ **HTML Pop up**

1. Invisible pop ups
 - Hidden division pop up
 - Advertisement pop up
 - Calendar pop up
2. Child-browser pop up or HTML pop up

➔ **Non-HTML pop up**

1. Alert/Confirmation/Java Script pop up
2. Notification pop up
3. File upload pop up
4. File download pop up
5. Window pop up

HTML pop up

- Pop up which is built using the HTML is called as HTML pop ups.
- HTML pop ups are categorized into following type based on the characteristics.

Invisible pop-ups

1. Hidden division pop up

- The characteristics Hidden division pop-up are
 1. We can inspect it.
 2. We cannot move it.
 3. It will be colorful.

How to handle the hidden division pop-up?

- In order to handle any pop-up, first we need to understand the nature and characteristics of the pop-ups.
- Hidden division pop-ups are created using div (division) html tag, which contains a property called display with the initial value 'none [hidden]' whenever it is required developer, will change it to 'block [Display]'.
- Since it is part of web page itself we never use 'switch to' in order to handle hidden division pop-up we use 'find element ()' method only.

Sample HTML page:

```
<!DOCTYPE html>
<html>
  <head>
    <title>Popup contact form</title>
    <link href="D:/HTML Pages/Practice/HiddenDivisionPopUp/elements.css" rel="stylesheet">
    <script src="D:/HTML Pages/Practice/HiddenDivisionPopUp/my_js.js"></script>
  </head>
  <!-- Body Starts Here -->
  <body id="body" style="overflow:hidden;">
    <div id="abc">
      <!-- Popup Div Starts Here -->
      <div id="popupContact">
        <!-- Contact Us Form -->
        <form action="#" id="form" method="post" name="form">
          
          <h2>Contact Us</h2><hr>
          <input id="name" name="name" placeholder="Name" type="text">
          <input id="email" name="email" placeholder="Email" type="text">
          <textarea id="msg" name="message" placeholder="Message"></textarea>
          <a href="javascript:%20check_empty()" id="submit">Send</a>
        </form>
      </div>
      <!-- Popup Div Ends Here -->
    </div>
    <!-- Display Popup Button -->
    <h1>Click Button To Popup Form Using Javascript</h1>
    <button id="popup" onclick="div_show()">Popup</button>
  </body>
  <!-- Body Ends Here -->
</html>
```



my_js.js



elements.css

Refer above two ".js" and ".css" file under the HEAD tag

Write a script to handle the hidden division pop up

```
package pop_up_invisible;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class HiddenDivision {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("file:///D:/HTML%20Pages/Practice/HiddenDivisionPopUp/HiddenDivisionPopUp.html");
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

        driver.findElement(By.id("popup")).click();
        driver.findElement(By.id("name")).sendKeys("Qspiders");
        driver.findElement(By.name("email")).sendKeys("qsp@qsp.com");
        driver.findElement(By.name("message")).sendKeys("Testing Institute");
        driver.findElement(By.id("submit")).click();

        driver.close();
    }
}
```

Write a script to create the task in actiTIME?

- Write a script which checks the task name first, if task name is already exists, delete the task and create the new task. If task name is not present, create the new task.

```
package pop_up_invisible;

import java.util.List;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class HiddenDivision_Task_Create {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://demo.actitime.com/login.do");
        driver.manage().timeouts().implicitlyWait(100, TimeUnit.SECONDS);

        String TaskName = "Backup controlling";

        driver.findElement(By.name("username")).sendKeys("admin");
        driver.findElement(By.name("pwd")).sendKeys("manager");
        driver.findElement(By.id("loginButton")).click();

        driver.findElement(By.xpath("//div[contains(text(),'TASKS')]")).click();

        List allTask = driver
            .findElements(By.xpath("//div[@class='tasksTable']//tbody//div[@class='title ellipsis']"));
    }
}
```

```

JavascriptExecutor js = (JavascriptExecutor) driver;
for (WebElement task : allTask) {
    js.executeScript("arguments[0].scrollIntoView()", task);
    if (task.getText().contains(TaskName)) {
        String taskCheckBox = "//div[contains(text(),' " + task.getText()
            + ")]/../../div[@class='checkbox inactive']";
        driver.findElement(By.xpath(taskCheckBox)).click();
        WebElement deleteButton = driver.findElement(By.xpath("//span[text()='Delete']/.."));
        deleteButton.click();
        WebElement confirmDelete = driver
            .findElement(By.xpath("//div[@id='deleteTaskPopup_deleteConfirm_submitBtn']"));
        confirmDelete.sendKeys(Keys.ENTER);
        break;
    }
}
Thread.sleep(4000);
driver.findElement(By.xpath("//div[text()='Add New Task']")).click();
driver.findElement(By.xpath("//div[text()='Create new tasks']")).click();
WebElement selectCustomer = driver
    .findElement(By.xpath("//div[@id='createTasksPopup_customerSelector']/button"));
Thread.sleep(2000);
js.executeScript("arguments[0].click()", selectCustomer);
driver.findElement(By.xpath("//a[contains(text(),'Boston Chocolate')]")).click();
WebElement selectProject = driver
    .findElement(By.xpath("//div[contains(@id,'createTasksPopup_projectSelector')]/button"));
js.executeScript("arguments[0].click()", selectProject);
driver.findElement(By.xpath("//a[contains(text(),'Web site creation')]")).click();
driver.findElement(By.xpath("//input[@placeholder='Enter task name']")[1]).sendKeys(TaskName);
driver.findElement(By.xpath("//input[@placeholder='Enter task name']")[1]/../../td[4])).click();

0      driver.findElement(By.xpath("//a[contains(text(),'design')]")).click();
1      driver.findElement(By.xpath("//input[@placeholder='Enter task name']")[1]/../../td[5])).click();
2      driver.findElement(By.xpath("//span[text()='Create Tasks']")).click();
3
4      driver.close();
5  }
6 }
7

```

The above program, first checks for the task name. If it is available, it will delete and creates the new. If it is not available. It will create the new task.

2. Advertisement pop up

- The characteristics Advertisement pop-up are
 1. We can inspect it.
 2. We cannot move it.
 3. It will be colorful.

HTML Code to generate the Advertisement pop up

```

<!DOCTYPE html>
<html>
<head>
  <meta charset=utf-8 />
  <title>Qspiders</title>
  <link rel="stylesheet" href="http://www.jacklmoore.com/colorbox/example1/colorbox.css" />
</head>
<body>
  <h1>Hello, there!</h1>
  <h2>This is some content</h2>
  <p>The popup will open in <span id="seconds">5</span> seconds</p>
  <script src="http://ajax.googleapis.com/ajax/libs/jquery/1.9.1/jquery.min.js"></script>
  <script src="http://www.jacklmoore.com/colorbox/jquery.colorbox.js"></script>
  <script>
    function openColorBox() {
      $.colorbox({iframe:true, width:"80%", height:"80%", href:"http://www.google.com"});
    }

    function countDown() {
      seconds--
      $("#seconds").text(seconds);
      if (seconds === 0) {
        openColorBox();
        clearInterval(i);
      }
    }

    var seconds = 5,
        i = setInterval(countDown, 1000);
  </script>
</body>
</html>

```

Code to handle the advertisement pop up

```

package pop_up_invisible;

import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

public class Advertisement_popUp {
  public static void main(String[] args) throws InterruptedException {
    System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
    WebDriver driver = new ChromeDriver();
    driver.manage().window().maximize();
    driver.get("file:///D:/HTML%20Pages/Practice/HiddenDivisionPopUp/AdvertisementPopUp.html");
    driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

    driver.findElement(By.id("cboxClose")).click();

    driver.close();
  }
}

```

3 Calendar pop up

Characteristics of Calendar pop up

1. We can inspect the elements
2. We can't move this pop up

Practice application for calendar pop up

<https://www.cleartrip.com/>

Write a program to print all the dates of a month

```
package pop_up_calendar;

import java.util.List;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class PrintAllTheDates {
    public static void main(String[] args) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        driver.get("https://www.cleartrip.com/");

        WebElement departDate = driver.findElement(By.id("DepartDate"));
        departDate.click();
        String xpath = "//span[text()='July']/../../../../*[contains(@class,'ui-state-default')]";
        List Dates = driver.findElements(By.xpath(xpath));
        System.out.println("Number of days in the month of July is: " + Dates.size());

        for (WebElement date : Dates) {
            String d = date.getText();
            System.out.println(d);
        }
        driver.close();
    }
}
```

Activate Wi
Fi

Write a program to select the date

```
public class SelectTheDate {
    public static void main(String[] args) throws InterruptedException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the month");
        String month = s.next();
        System.out.println("Enter the date: ");
        String day = s.next();

        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        driver.get("https://www.cleartrip.com/");

        WebElement departDate = driver.findElement(By.id("DepartDate"));
        departDate.click();
        String xpath = "//span[text()='"+month+"']/../../../../*[contains(@class,'ui-state-default')]";
        List Dates = driver.findElements(By.xpath(xpath));

        for (WebElement date : Dates) {
            if (date.getText().equals(day)) {
                date.click();
                break;
            }
        }
        driver.close();
    }
}
```

Write a program to check the date is enabled or not. Select if the date is enabled or else print the message.

```
package pop_up_calendar;

import java.util.List;
import java.util.Scanner;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class CheckTheDate {
    public static void main(String[] args) throws InterruptedException {
        Scanner s = new Scanner(System.in);
        System.out.println("Enter the month");
        String month = s.next();
        System.out.println("Enter the date: ");
        String day = s.next();

        System.setProperty("webdriver.chrome.driver", "D:/Softwares/Drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        driver.get("https://www.cleartrip.com/");

        WebElement departDate = driver.findElement(By.id("DepartDate"));
        departDate.click();
        String xPath = "//span[text()='"+month+"']/../../*[contains(@class,'ui-state-default')]";
        List Dates = driver.findElements(By.xpath(xPath));
        System.out.println("Number of days in the month of July is: " + Dates.size());

        for (WebElement date : Dates) {
            if (date.getText().equals(day)) {
                String tagName = date.getTagName();
                if (!tagName.equals("span")) {
                    System.out.println("Element is clickable");
                    date.click();
                } else {
                    System.out.println("Element is disabled, Please select the current date or future date");
                }
            }
        }

        Thread.sleep(4000);
        driver.close();
    }
}
```

Activate Windows

Activate