Exceptions in Selenium

**NoSuchElementException:**

1. The page is still being rendered and you've already finished your element search and obtained no element exception.

By using fluent wait above exception can be resolved

**public** **class** NoSUchElementByFluentWait {

**static** WebDriver *driver*;

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

System.*setProperty*("webdriver.crome.driver", "E:\\Selenium-Workspace\\launchingcrome\\drivers\\chromedriver.exe");

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

WebElement Login =*driver*.findElement(By.*xpath*("//div[text()=\\\"Login\\\"]"));

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

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

*driver*.manage().timeouts().implicitlyWait(30, TimeUnit.***SECONDS***);

*driver*.findElement(By.*xpath*("//div[text()=\"Login\"]")).click();

WebDriverWait wait = **new** WebDriverWait(*driver*, 10);

wait.until(ExpectedConditions.*visibilityOf*(Login));

}

}

1. Incorrect Xpath /Locator

**static** **void** selectElement() **throws** Exception {

WebElement dropDownElement=*driver*.findElement(By.*xpath*("//div[text()=\"Login\"]")); //incorrect Xpath

1. The third is most obvious: The element is really not on the page.

**InvalidSelectorException**

* The error you are getting can be due to the reason that there are multiple elements having the same id. There can be multiple sub-element not having a similar id. **Try using some other locator to locate the element**. Xpath can be the best for this scenario.
* It occurs **when a selector is incorrect or syntactically invalid**

**StaleElementException**

* Stale means old, no longer fresh.
* Stale Element means an old element or no longer available elements.
* It happens when you refresh the page or navigate from one page to another.

While navigating through webpages:

**package** chrome;

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

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

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

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

**public** **class** StaleException {

**static** WebDriver *driver*;

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

System.*setProperty*("webdriver.crome.driver", "E:\\Selenium-Workspace\\launchingcrome\\drivers\\chromedriver.exe");

*driver*.get("https://ksrtc.in/oprs-web/");

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

*driver*.manage().timeouts().implicitlyWait(30, TimeUnit.***SECONDS***);

WebElement page=*driver*.findElement(By.*xpath*("//a[text()=\" Sign In\"]"));

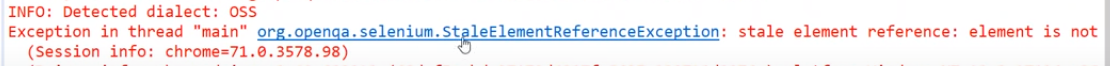
page.click();

*driver*.navigate().back();

page.click();

}

}



**Handling StaleElementException using try and catch**

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

System.*setProperty*("webdriver.crome.driver", "E:\\Selenium-Workspace\\launchingcrome\\drivers\\chromedriver.exe");

*driver*.get("https://ksrtc.in/oprs-web/");

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

*driver*.manage().timeouts().implicitlyWait(30, TimeUnit.***SECONDS***);

WebElement page=*driver*.findElement(By.*xpath*("//a[text()=\" Sign In\"]"));

page.click();

*driver*.navigate().back();

page.click();

**try** {

page.click();

}

**catch**(StaleElementReferenceException e){

page=*driver*.findElement(By.*xpath*("//a[text()=\" Sign In\"]"));

page.click();

} }

While Refreshing WebPages:

**package** chrome;

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

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

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

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

**public** **class** StaleExceptionAnotherExample {

**static** WebDriver *driver*;

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

System.*setProperty*("webdriver.crome.driver", "E:\\Selenium-Workspace\\launchingcrome\\drivers\\chromedriver.exe");

*driver*.get("https://ksrtc.in/oprs-web/");

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

*driver*.manage().timeouts().implicitlyWait(30, TimeUnit.***SECONDS***);

WebElement page=*driver*.findElement(By.*xpath*("//a[text()=\" Sign In\"]"));

page.click();

WebElement username=*driver*.findElement(By.*xpath*("//lable[text()=\"User Name\"]"));

username.sendKeys("ksrtc");

WebElement password=*driver*.findElement(By.*xpath*("//lable[text()=\"Password\"]"));

password.sendKeys("abcd");

*driver*.navigate().refresh();

username.sendKeys("ksrtc");

}

}

Handling the above exception using try and catch:

**try** {

username.sendKeys("ksrtc");

}

**catch**(StaleElementReferenceException e) {

username=*driver*.findElement(By.*xpath*("//lable[text()=\"User Name\"]"));

username.sendKeys("ksrtc");

}