

Selenium Commands

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Explicit Wait

- Element Specific Wait, Not Global
- We can provide specific conditions
- `Wait<WebDriver> wait = new WebDriverWait(driver, Duration.ofSeconds(2));`
- `Wait<WebDriver> wait =`
- `new FluentWait<>(driver)`
- `.withTimeout(Duration.ofSeconds(2))`
- `.pollingEvery(Duration.ofMillis(300))`
- `.ignoring(ElementNotInteractableException.class);`

Expected Conditions – 54 conditions

- AlertsPresent()
- AttributeContains(By by, String name, String value)
- AttributeContains(WebElement element, String name, String value)
- AttributeToBe(By by, String name, String value)
- AttributeToBe(WebElement element, String name, String value)
- AttributeToBeNotEmpty(WebElement element, String name)
- DomAttributeToBe(WebElement element, String name, String value)
- DomPropertyToBe(WebElement element, String name, String value)
- ElementSelectionModeToBe(By by, Boolean selected)
- ElementSelectionModeToBe(WebElement element, Boolean selected)

Expected Conditions

- `ElementToBeCickable(By by)`
- `ElementToBeCickable(WebElement element)`
- `ElementToBeSelected(By by)`
- `ElementToBeSelected(WebElement element)`
- `FrameToBeAvailableAndSwitchTolt(By by)`
- `FrameToBeAvailableAndSwitchTolt(Int index)`
- `FrameToBeAvailableAndSwitchTolt(String IdOrName)`
- `FrameToBeAvailableAndSwitchTolt(WebElement element)`
- `InvisibilityOf(Webelement element)`
- `InvisibilityOfAllElements(List<Webelement> elements)`
- `InvisibilityOfElementLocated(By by)`

Expected Conditions

- `InvisibilityOfElementWithText(By by, String text)`
- `JavaScriptThrowsNoExceptions(String javascript)`
- `JsReturnsValue(String javascript)`
- `NumberOfElementsToBe(By locator, int number)`
- `NumberOfElementsToBeLessThan(By locator, int number)`
- `NumberOfElementsToBeMoreThan(By locator, int number)`
- `NumberOfWindowsToBe(int number)`
- `PresenceOfAllElementsLocatedBy(By locator)`
- `PresenceOfElementLocated(By locator)`
- `PresenceOfNestedElementLocatedBy(By locator, By child)`
- `PresenceOfNestedElementsLocatedBy(By locator, By child)`
- `PresenceOfNestedElementLocatedBy(WebElement element, By child)`

Expected Conditions

- Refreshed(ExpectedCondition)
- StalenessOf(WebElement element)
- TextMatches(By locator, Pattern pattern)
- TextToBe(By locator, String value)
- TextToBePresentInElement(WebElement element, String text)
- TextToBePresentInElementLocated(By locator, String text)
- TextToBePresentInElementValue(By locator, String text)
- TextToBePresentInElementValue(WebElement element, String text)
- TitleContains(String text)
- UrlContains(String text)
- UrlMatches(String regex)
- UrlToBe(String text)

Expected Conditions

- `VisibilityOf(WebElement element)`
- `VisibilityOfAllElements(List<WebElement>)`
- `VisibilityOfAllElementsLocatedBy(By locator)`
- `VisibilityOfElementLocated(By locator)`
- `VisibilityOfNestedElementsLocatedBy(By parent, By child)`
- `VisibilityOfNestedElementsLocatedBy(WebElement parent, By child)`

- `And(ExpectedConditions condition)`
- `Not(ExpectedConditions condition)`
- `Or(ExpectedConditions condition)`

POM – Page Object Model

- POM – Design pattern
- One Page = One Java Class
- Centralized Object Repository
- Page Object methods = user actions
- Business-Level Methods
- Improved Maintainability
- Reduces Code Duplication

Exceptions

- NoSuchElementException
- NoSuchWindowException
- NoSuchFrameException
- NoSuchCookieException
- NoAlertPresentException
- NoSuchSessionException
- StaleElementReferenceException
- ElementNotInteractableException
- ElementClickInterceptedException
- ElementNotSelectableException