List of Exceptions in Selenium

Selenium has some predefined exception lists which help to analyse and debug the Selenium tests in an easy way. Let's understand some of the common Selenium exceptions in detail:

- **WebDriverException** : The WebDriverException occurs when it tries to perform an action when the webDriver connection is in a closed state.

- **TimeOutException**: TimeOutException occurs when a command takes more time than the specified or default wait time.

- **ElementNotVisibleException**: Selenium tries to find the element based on the values provided such as XPath, CSS, ID, etc. If the element state is hidden, then the ElementNotVisibleException is thrown.

- **NoSuchWindowException**: The NoSuchWindowException occurs when the target window to be switched doesn't exist.

- **NoSuchElementException**: The exception occurs when Selenium cannot find the element. The NoSuchElementException and ElementNotVisibleException are very similar. The NoSuchElementException is thrown when the element doesn't exist at all on the webpage. The ElementNotVisibleException is thrown when an element exists, but it is hidden so the webDriver cannot find and interact with it.

- **ElementNotInteractableException**: This exception is thrown when an element is present in the DOM Tree but impossible to interact with them. There may be various reasons such as an element might be overlapped with another element or performing interactions before it is ready to take an event etc.

- **ConnectionClosedException**: This exception occurs when the connection to the Selenium driver is closed.

- **ElementClickInterceptedException**: The command could not be completed as the element receiving the events is concealing the element which was requested clicked.

- **ElementNotSelectableException**: Thrown when element exists in the DOM but is unavailable for selection, so the webDriver cannot interact with the element.

- **ErrorHandler.UnknownServerException**: If a server returns an error without any stack trace, then this exception can be used as a placeholder

- **ErrorInResponseException**: This exception typically originated from the server side.

- **ImeActivationFailedException**: The IME stands for Input Method Engine, Typically used when inputting Chinese/Japanese or multi-byte characters. So the ImeActivationFailedException happens when IME Engine cannot be activated.

- **ImeNotAvailableException**: Similar to the above exception; it occurs when the IME support is not available.

- **InsecureCertificateException**: The webpage uses the TLS certificate for authenticity. When your webpage has an expired or invalid TLS certificate and you are trying to navigate, then the InsecureCertificateException is thrown.

- **InvalidArgumentException**: Thrown when a specified argument type does not belong to any exception type.

- **InvalidCookieDomainException**: If you are trying to add the cookie for an invalid URL or domain, then this exception is thrown.

- **InvalidCoordinatesException**: This exception is self-explanatory and happens when you specify the invalid coordinates to perform a specific operation.

- **InvalidSessionIdException**: If the session isn't active or the session is terminated, then Selenium considers the session id invalid and throws the InvalidSessionIdException.

- **InvalidElementStateException**: When Selenium cannot complete the command on a specified element, then the InvalidElementStateException is thrown

- **JavascriptException**: Typically thrown if the JavaScript code provided by user cannot be executed or if supplied script is wrong.

- **InvalidSwitchToTargetException**: Selenium allows you to switch to different tabs, windows, or frames. If you specify wrong arguments, then Selenium throws this exception.

- **JsonException**: The JsonException occurs when any action/operation return values are not able to parse by the Selenium client.

- **MoveTargetOutOfBoundsException**: Occurs when the element that Selenium webDriver is trying to access is not within the viewport. To suppress this exception, one can try scrolling or other actions to bring the element to viewport.

- **NoAlertPresentException**: If you have written the code to handle the alert however during the execution, if it can't find the alert to switch then this exception will be thrown.

- **NoSuchAttributeException**: If you are trying to access the element with an attribute, however, due to various reasons, that attribute is not available, this exception is raised.

- **NoSuchContextException**: Typically thrown while performing the mobile device testing.

- **NoSuchCookieException**: If Selenium cannot match the cookie in the user-specified path then this exception is thrown.

- **NoSuchFrameException**: When Selenium cannot find the target iFrame, then it throws the NoSuchFrameException

- **RemoteDriverServerException**: When the server doesn't respond thanks to the matter that the capabilities described aren't proper

- **UnsupportedCommandException**: This exception occurs when the remote webDriver sends invalid commands.

- **StaleElementReferenceException**: Occurs if you are trying to access the DOM element which is detached from DOM tree.

- **SessionNotFoundException**: If you perform the action when there is no active webDriver session or if it is terminated just now, then this exception happens.

- **SessionNotCreatedException**: When webDriver cannot create a new session then it throws the SessionNotCreatedException.