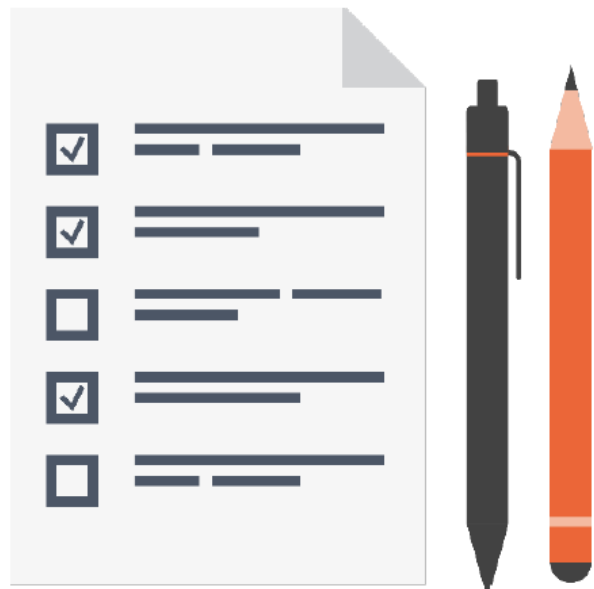# WebDriver API:
Tabs, frames, alerts

Agenda

- Pop ups

- Alerts

- Iframes

- Tabs/windows

CYBERTEK

After today's session you should be able to:

- Switch between multiple windows

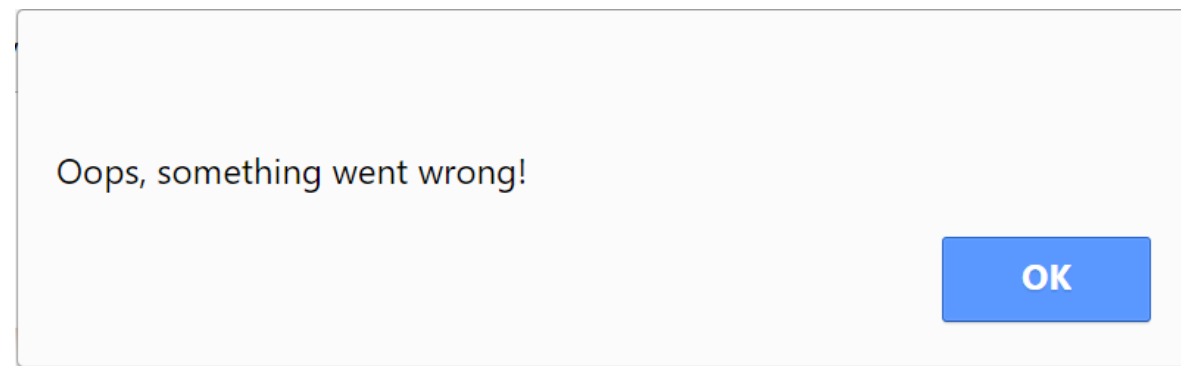- Handle different browser pop ups

- Switch between iframes

Pop up

Anything that comes out of the browser

- JavaScript alerts

- Modals

- Dialogs

JavaScript alerts

Oops, something went wrong!

OK

- Type of a pop up

- Blocks the page when present

- User has to accept or cancel

- Not part of html

CYBERTEK

JavaScript alert

```java
Alert alert = driver.switchTo().alert();

    alert.accept();

    alert.dismiss();

    alert.sendKeys("hello");
```
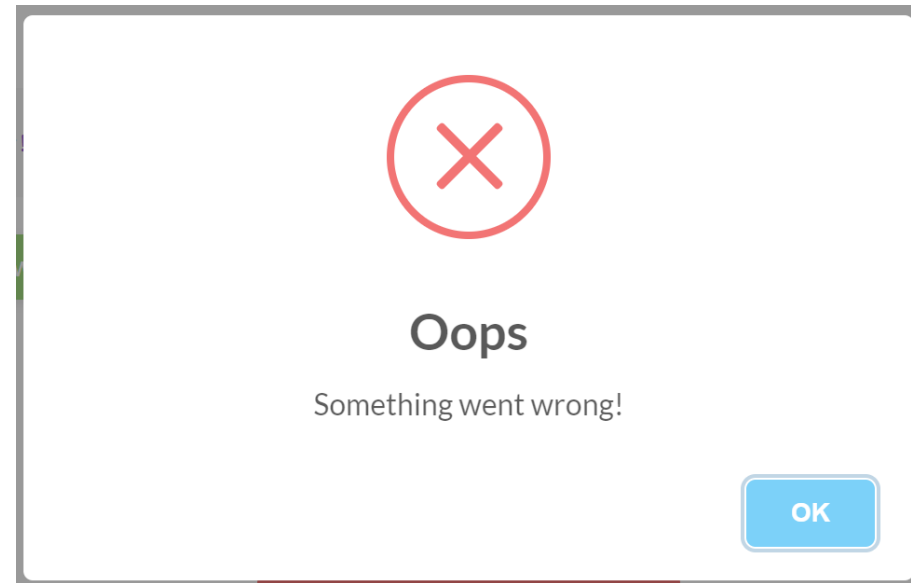
Browser pop up

- Part of html

- Does not always block the web page

- Can be located using usual locator

Browser pop up

```
WebElement okBtn = driver.findElement(By.id("ok"));

okBtn.click();
```

- Can be treated as a regular WebElement

- Subject to same actions as click(),

  sendKeys() etc

Iframes

- Html page inside another html page

- Used to put content from one page into another

- Ads, video players…

CYBERTEK

Iframes

- Html page inside another html page

- Used to put content from one page into another

- Ads, maps, video players…

- Done use *iframe* tag

Iframes

Iframes

```java
WebElement iframe =
        driver.findElement(By.tagName("iframe"));

driver.switchTo().frame(iframe);

driver.switchTo().frame(0);

driver.switchTo().frame("iframe-id");

driver.switchTo().parentFrame();
```

Multiple windows

- For selenium there is no difference between tab or window

- Every tab/window is a separate window

- Selenium can control one window at a time

- We can switch to windows using *windows handles*

Multiple windows

```java
driver.getWindowHandle()

driver.getWindowHandles()

for (String window : driver.getWindowHandles()) {
    driver.switchTo().window(window);
    System.out.println(.driver.getTitle());
}
```