Selenium CheatSheet

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Basic Setup

Install Selenium 4

```cmd
npm install selenium-webdriver
```

Setup Browser Driver

```js
require('chromeDriver');
```

Import selenium Webdriver

```js
Const{Builder, By, Key, until} =
require('selenium-webdriver');
```

Creating Webdriver Instance

```js
let const driver = new
Builder().forBrowser('chrome').build();
```

Basic Operations

Navigating to a URL

```js
await
driver.get('http://www.example.com');
```

Searching for Element

```js
await
driver.get('http://www.example.com');
```

Sending Keys

```js
await element
.sendkeys('selenium',key.RETURN);
```

Wait for Elements

```js
let el = await driver
.wait(until
.elementLocated(By.name('q'))
, 10000);
```

Cookies

Getting Cookies

```js
let cookies = await
driver.manager().getCookies();
console.log(cookies);
```

Adding Cookies

```js
await
driver.manage.addCookies({name:'key',
value: 'value'});
```

Deleting Cookies

```js
await
driver.manage().deleteCookie('key');
```

Deleting All Cookies

```js
await
driver.manage().deleteAllCookies();
```

Element Interactions

Clicking an Element

```js
await
driver.findElement(By.id(''submit))
.click();
```

Getting Attribute values

```js
let attributeValue = await
driver.findElement(By.id('id'))
.getAttribute('attributeName');
```

Working with dropdowns

```js
let selectElement = await
driver.findElement(By.id('dropdown'));

let selectObject = new
select(selectElement);

await selectObject
.selectByVisibleText('option text');
```

Drag & Drop

```js
Actions action = new Actions(driver);
action.dragAndDrop(
Sourcelocator,Destinationlocator)
.build().perform();
```

Advanced Interactions

Execute Javascript

```js
await
driver.executeScript('window.scrollTo(0,
document.body.scrolHeight)');
```

Taking Screenshots

```js
let encodedString = await
driver.takeScreenshot();

require('fs').writeFileSync(
'screenshot.png'), encodedString,
'base64');
```

Switiching between Windows

```js
let windows = await
driver.getAllWindowHandles();

await
driver.switchTo().window(windows[1]);
```

Handling Alerts

```js
await
driver.switchTo().alert().accept();
```

Testing & Assertions

Page Title Assertion

```js
let title = await driver.getTitle();
assert.equal(title, 'Expected Page
Title');
```

Element Visibility

```js
let displayed = await
driver.findElement(By.css('selector'))
.isDisplayed();

assert.isTrue(displayed);
```

Text Content Assertion

```js
let text = await driver
.findElement(By.xpath('//element'))
.getText();

assert.equal(text, 'Expected text');
```

Existence of an Element

```js
let exists = await
driver.findElements(By.css('selector'))
.then(elements => elements.length >
0);

assert.isTrue(exists);
```