Driver Initialization

Basic WebDriver driver; driver = new ChromeDriver(); driver = new FirefoxDriver(); driver = new SafariDriver(); Advanced FirefoxProfile // load firefox from non default location System.setProperty("webdriver.firefox.bin", "path/to/firefox/binary"); FirefoxProfile fp = new FirefoxProfile(); / load with firefox addons File file = new File("path/to/extension.xpi");

DesiredCapabilities dc = DesiredCapabilities.firefox();

Chrome Options

```
System.setProperty("webdriver.chrome.driver",
                          "/path/to/chromedriver.exe");
ChromeOptions options = new ChromeOptions();
File extnFile = new File("/path/to/extension.crx");
options.addExtensions(extnFile);
DesiredCapabilities dc = DesiredCapabilities.chrome();
dc.setCapability(ChromeOptions.CAPABILITY, options);
WebDriver driver = new RemoteWebDriver(dc);
```

Proxy

```
String PROXY = "localhost:8080";
Proxy proxy = new Proxy();
proxy.setHttpProxy(PROXY)
     .setFtpProxy(PROXY)
     .setSslProxy(PROXY);
DesiredCapabilities cap = new DesiredCapabilities();
cap.setCapability(CapabilityType.PROXY, proxy);
// set for the corresponding browser
WebDriver driver = new FirefoxDriver(cap);
WebDriver driver = new ChromeDriver(cap);
```

Navigation

fp.addExtension(file);

```
// navigate to url
driver.get("http://example.com");
driver.navigate().to("http://example.com");
// refresh page
driver.navigate().refresh();
// navigate forwards in browser history
driver.navigate().forward();
// navigate backwards in browser history
driver.navigate().back();
```

other settings on the profile ...

dc.setCapability(FirefoxDriver.PROFILE, fp);

WebDriver driver = new RemoteWebDriver(dc);



Selenium WebDriver Cheat Sheet

http://letztest.blogspot.in/

Locators

By.id : (Most preferred) Bv.name Bv.className By.tagName By.linkText By.partialLinkText Bv.cssSelector By.xpath

Single (WebElement)

driver.findElementO

List (List<WebElement>)

driver.findElements()

Operations

```
WebElement element;
element.click(); //click item/button Select select = new Select(element); driver.close(); //close current window
element.sendKeys("String to type"); select.selectByVisibleText("One");
element.submit(); //submit form
element.clear();
element.getText();
element.getAttribute("attribute");
element.isDisplayed();
element.isSelected();
                                     driver.getCurrentUrl();
element.isEnabled();
```

```
driver.getPageSource();
                                     driver.quit(); //quite webdriver
select.selectByValue("value1");
select.selectByIndex(1);
select.deselectAll();
select.selectAll();
WebDriver driver;
driver.getTitle();
```

driver.manage().window().maximize(); driver.manage().getCookies(); driver.manage().deleteAllCookies(); driver.manage().window().maximize(); driver.manage().getCookies(); driver.manage().deleteAllCookies();

Windows

```
String handle = driver.getWindowHandle();
Set<String> handles = getWindowHandles();
driver.switchTo().window(handle);
/ * How to switch to newly created window */
String curWindow = driver.getWindowHandle();
// perform action to create new window...
// get all window handles
Set<String> handles = getWindowHandles();
for (String handle : handles) {
    if (!handle.equals (curWindow) {
       driver.switchTo().window(handle);
```

Frames

```
driver.switchTo().frame(1); // using frame index
driver.switchTo().frame("name") // using name of frame
driver.switchTo().frame(element) // Web Element object
driver.switchTo().defaultContent(); //back to main document
```

Alerts

```
driver.switchTo().alert().getText();
driver.switchTo().alert().accept();
driver.switchTo().alert().dismiss();
driver.switchTo().alert().sendKeys("Text");
```

Selenium Grid

Start hub: java -jar selenium-server-standalone-x.xx.x.jar -role hub

Server: http://localhost:4444/grid/console

Start node: java -jar selenium-server-standalone-x.xx.x.jar -role node -hub http://localhost:4444/grid/register

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