**How to test if all links on a webpage are working?**

**import** java.io.IOException;

**import** java.net.HttpURLConnection;

**import** java.net.MalformedURLException;

**import** java.net.URL;

**import** java.util.List;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** Broken\_Links {

**public** **static** **void** main(String[] args) **throws** IOException {

String url = "https://login.yahoo.com/";

WebDriver driver = **new** ChromeDriver();

driver.manage().timeouts().implicitlyWait(15, TimeUnit.***SECONDS***);

driver.navigate().to(url);

// Get all elements with tag 'a'

List<WebElement> links = driver.findElements(By.*tagName*("a"));

List<String> ss = **null**;

// Print link text

**for** (**int** i = 0; i < links.size(); i++) {

System.***out***.println(links.get(i).getText());

}

// For each link get href attribute and get the sever response code

**for** (**int** i = 0; i < links.size(); i++) {

String url1 = links.get(i).getAttribute("href");

System.***out***.println("Response code for " + url1 + " = " + *getResponseCode*(url1));

}

}

**static** **int** getResponseCode(String url) {

URL u = **null**;

**try** {

u = **new** URL(url);

} **catch** (MalformedURLException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

**try** {

HttpURLConnection c = (HttpURLConnection) u.openConnection();

c.setConnectTimeout(5000);

**return** c.getResponseCode();

} **catch** (IOException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

**return** -1;

}

}

**Take screenshots using selenium**

**Prerequisites:**

Add ‘commons-io-2.6’ API to Eclipse

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.concurrent.TimeUnit;

**import** org.apache.commons.io.FileUtils;

**import** org.openqa.selenium.OutputType;

**import** org.openqa.selenium.TakesScreenshot;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** Screenshot {

**public** **static** **void** main(String[] args) **throws** IOException {

String url = "https://login.yahoo.com/";

WebDriver driver = **new** ChromeDriver();

driver.manage().timeouts().implicitlyWait(15, TimeUnit.***SECONDS***);

driver.navigate().to(url);

TakesScreenshot scrshot = (TakesScreenshot) driver;

File srcfile = scrshot.getScreenshotAs(OutputType.***FILE***);

// System.out.println(srcfile.getAbsolutePath());

// System.out.println(srcfile.getName());

// System.out.println(srcfile.getPath());

FileUtils.*copyFile*(srcfile, **new** File("D:\\screenshot.png"));

}

}

**Finding Header Fields and Responses**

**import** java.io.IOException;

**import** java.net.HttpURLConnection;

**import** java.net.MalformedURLException;

**import** java.net.URL;

**import** java.util.Iterator;

**import** java.util.List;

**import** java.util.Map;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.chrome.ChromeDriver;

**public** **class** HeadersandResponseCodes {

**public** **static** **void** main(String[] args) {

String url = "https://login.yahoo.com/";

WebDriver driver = **new** ChromeDriver();

driver.manage().timeouts().implicitlyWait(15, TimeUnit.***SECONDS***);

driver.navigate().to(url);

URL u = **null**;

**try** {

u = **new** URL(url);

} **catch** (MalformedURLException e1) {

// **TODO** Auto-generated catch block

e1.printStackTrace();

}

**try** {

HttpURLConnection c = (HttpURLConnection) u.openConnection();

Map<String, List<String>> headerlist = c.getHeaderFields();

Iterator<String> name = headerlist.keySet().iterator();

**while**(name.hasNext()){

String header\_name = name.next();

System.***out***.println(header\_name + " " + headerlist.get(header\_name));

}

c.setConnectTimeout(5000);

} **catch** (IOException e) {

// **TODO** Auto-generated catch block

e.printStackTrace();

}

}

}