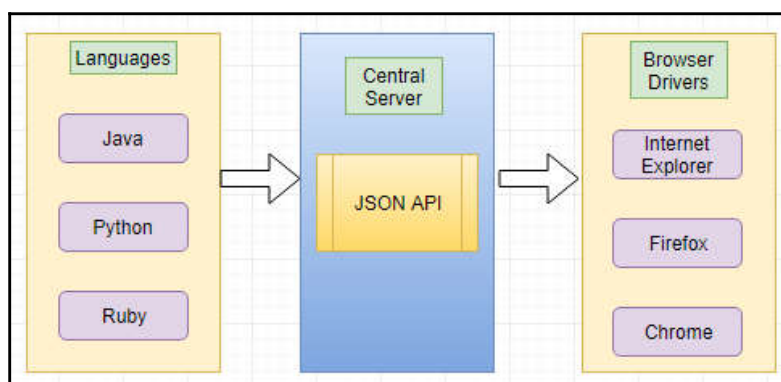
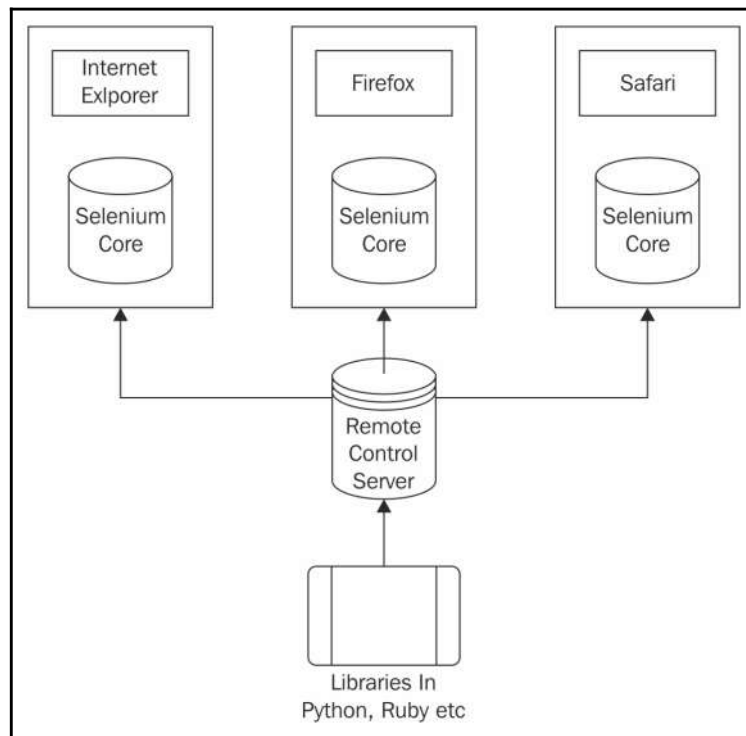
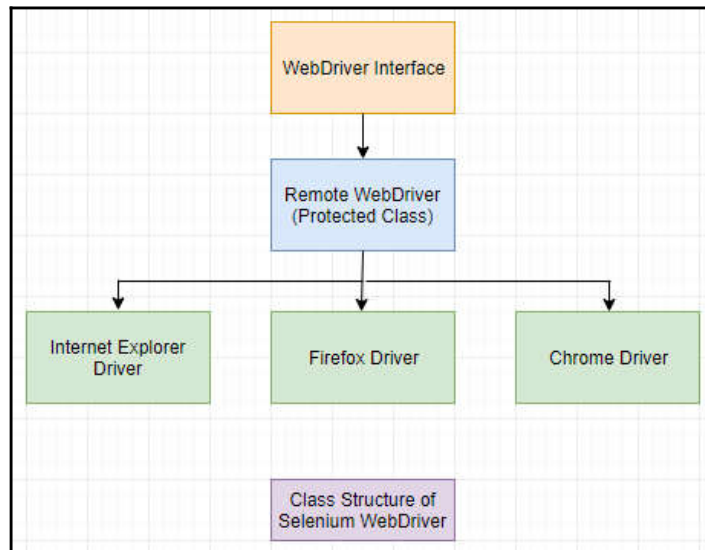
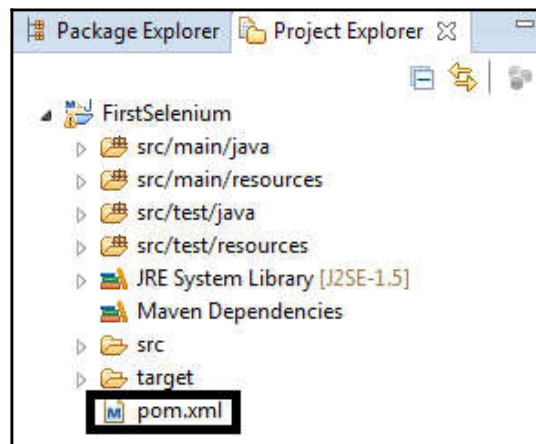


# Chapter 1: Introducing Selenium WebDriver and Environment Setup

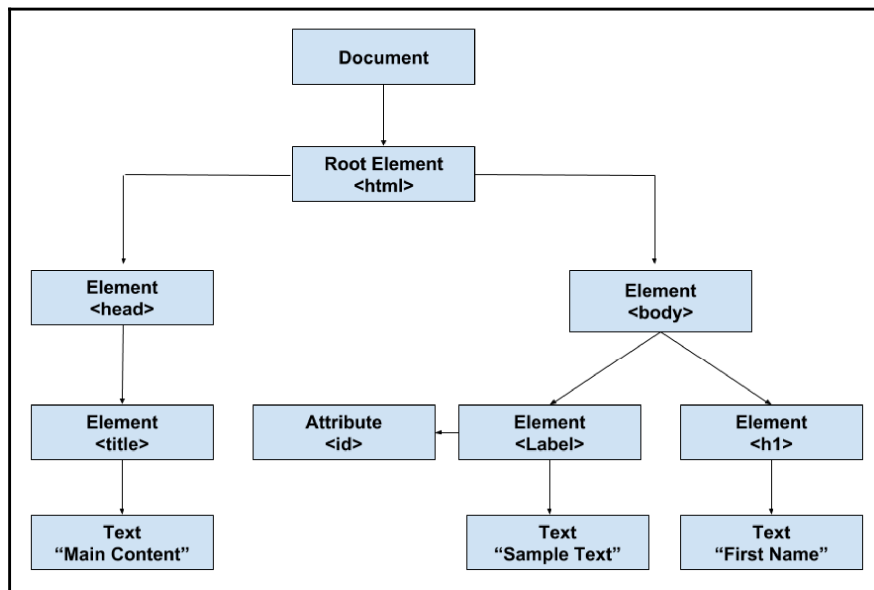




```
Administrator: C:\Windows\system32\cmd.exe
C:\>java -version
java version "1.8.0_152"
Java(TM) SE Runtime Environment (build 1.8.0_152-b16)
Java HotSpot(TM) 64-Bit Server VM (build 25.152-b16, mixed mode)
C:\>_
```



# Chapter 2: Understanding the Document Object Model and Creating Customized XPath



FreeCRM #1 Free CRM software in the cloud for sales and service

Features Sign Up Pricing Customers Contact Support

pinakinc  
..... Login

#1 Free CRM software in the cloud for sales and service

Elements Console Sources Network Performance Memory Application Security Audits

```

<div class="navbar-header">...</div>
<div class="collapse navbar-collapse" id="navbar-collapse">...</div>
<div class="col-sm-4 col-md-4 pull-right">
  <form class="navbar-form" method="post" id="loginForm" name="frmLogin" action="https://www.freecrm.com/system/authenticate.cfm">
    <div class="input-group">
      <input type="text" class="form-control" placeholder="Username" name="username"> == $0
      <input type="password" class="form-control" placeholder="Password" name="password">
    </div>
  <div class="input-group-btn">...</div>
</div>

```

html body div div.container div.col-sm-4.col-md-4.pull-right form#loginForm.navbar-form div.input-group input.form-control

7:52 AM 18/08/2018

Framework - Microsoft Excel

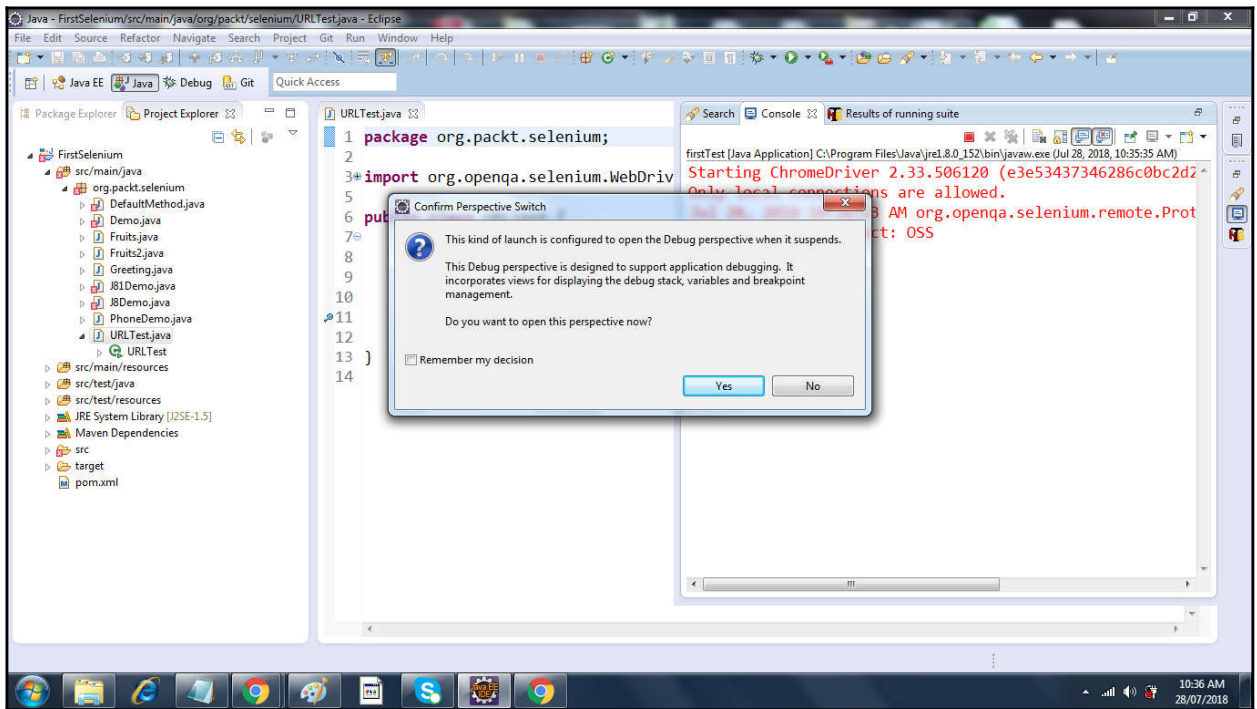
Home Insert Page Layout Formulas Data Review View Developer

Clipboard Font Alignment Number Styles Cells Editing

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	TestCaseID	Execute_Flag																		
2	TestCase1	Y																		
3	TestCase2	N																		
4	TestCase3	Y																		
5	TestCase4	Y																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				

TestConfig Sheet2 Sheet3

1:33 PM 29/07/2018



The screenshot shows the Eclipse IDE in a debug state. The main thread is suspended at line 11 of `URLTest.java`. The console output shows the following:

```
firstTest [Java Application] C:\Program Files\Java\jre1.8.0_152\bin\javaw.exe (Jul 28, 2018, 10:35:35 AM)
Starting ChromeDriver 2.33.506120 (e3e53437346286c0bc2d2dc9aa4915ba81d9023f) on port 7582
Only local connections are allowed.
Jul 28, 2018 10:36:23 AM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
```

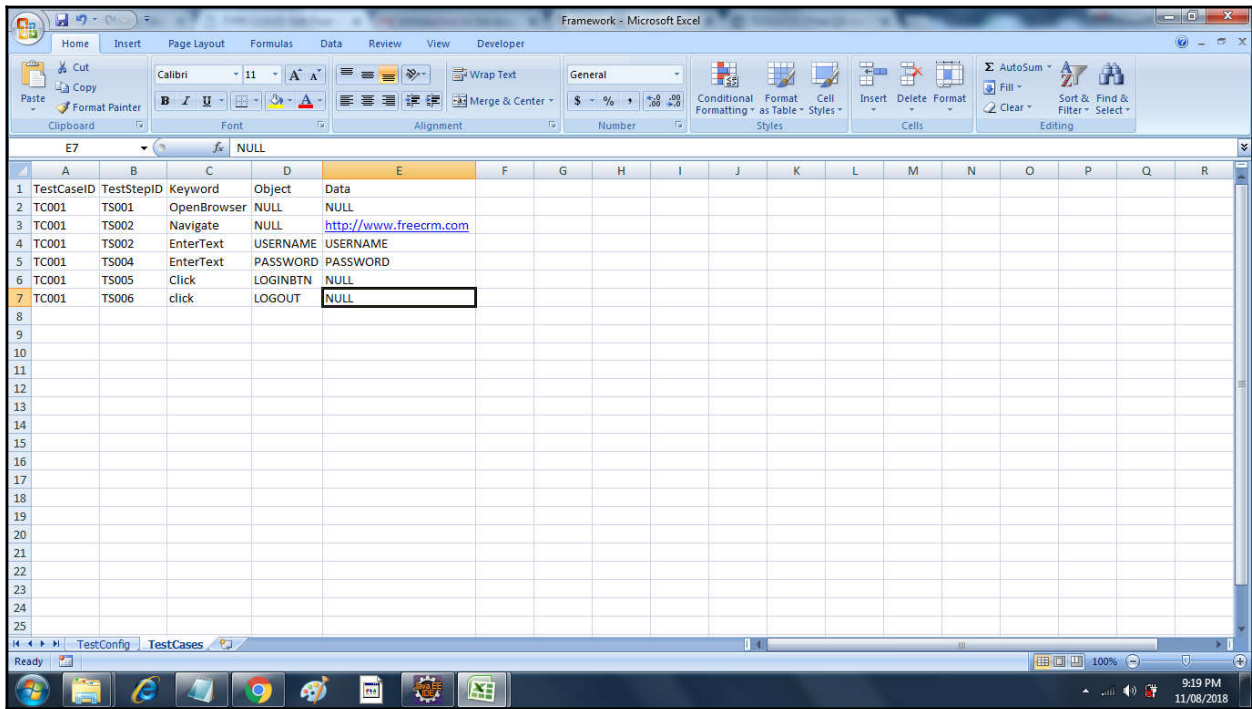
The variable watch window shows the following error:

Name	Value
fileName.exists()	<error>
+ Add new expression	

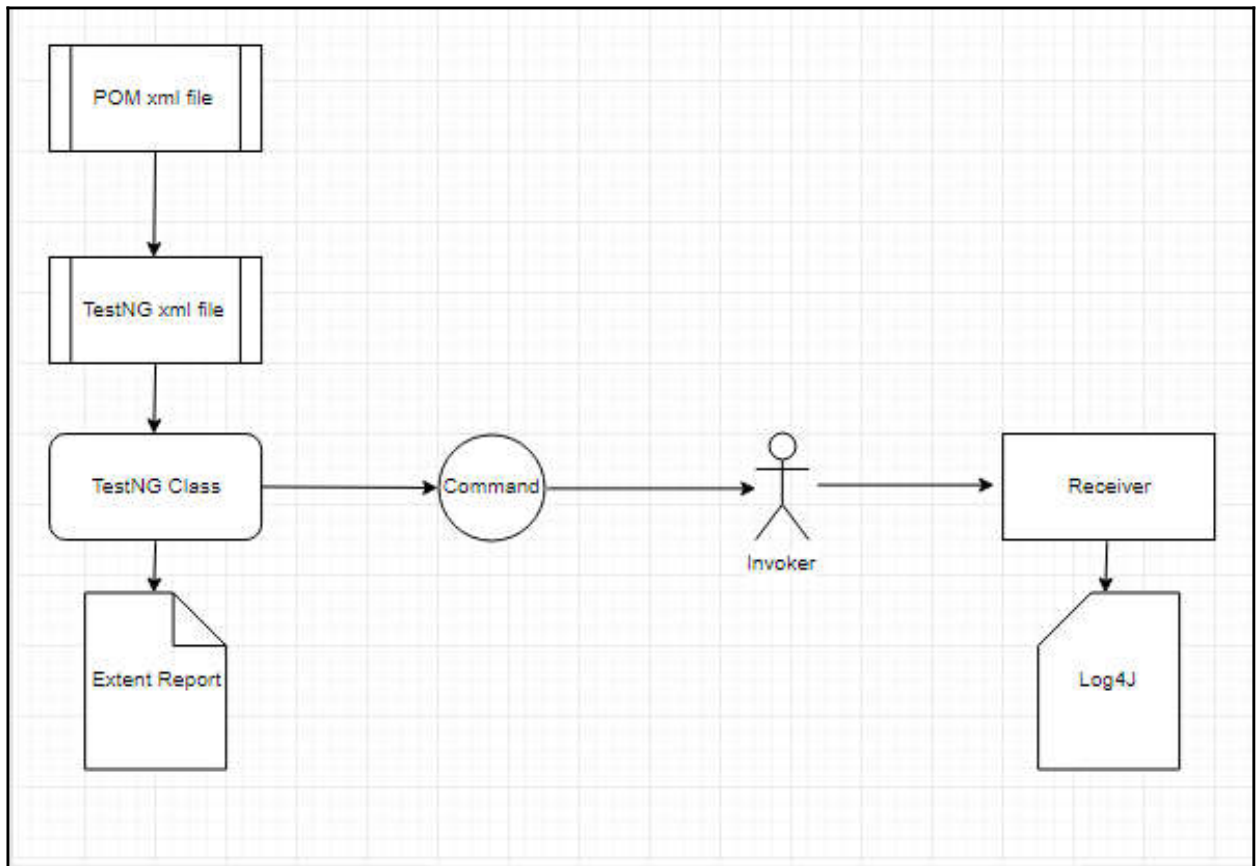
The code in `URLTest.java` is as follows:

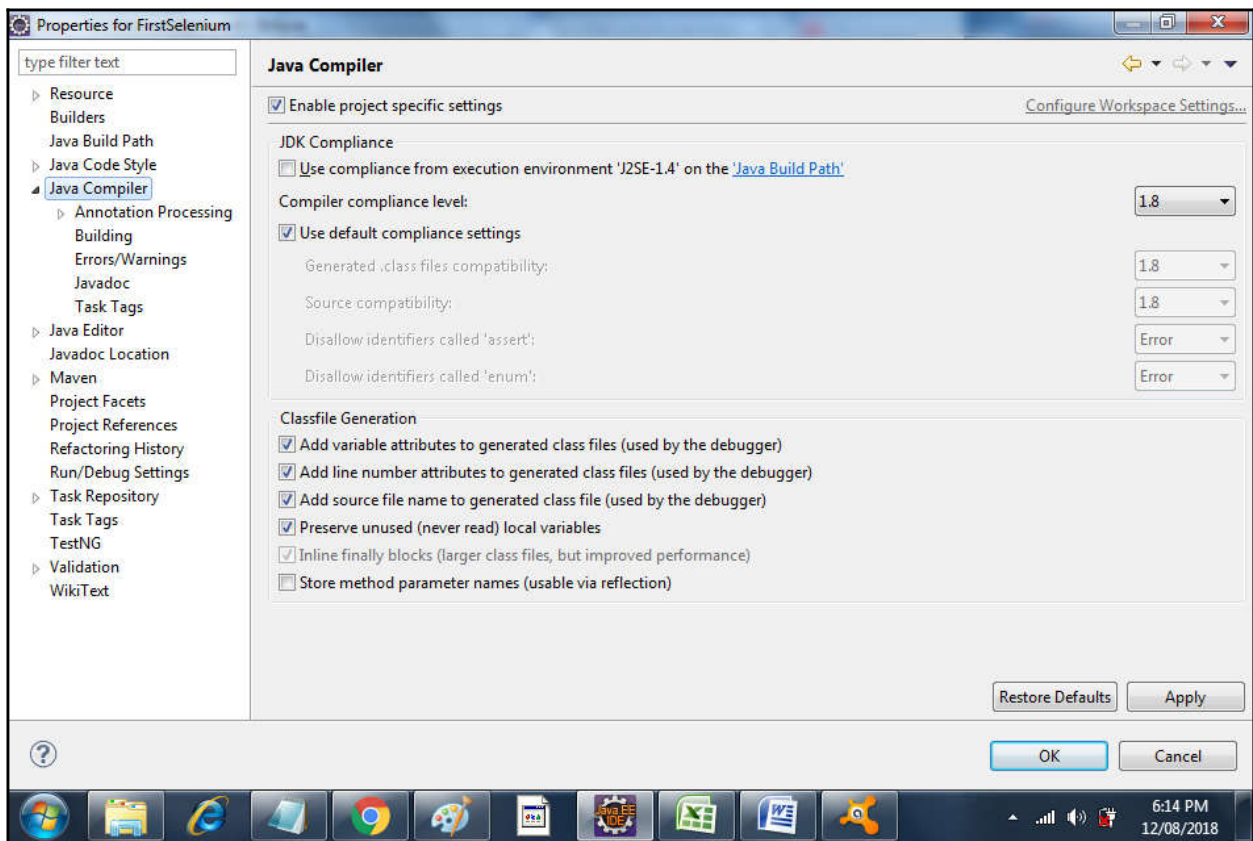
```
7 public static void main(String[] args) {
8     System.setProperty("webdriver.chrome.driver",
9         "C:\\SeleniumWD\\src\\main\\resources\\chromedriver.exe");
10    WebDriver driver = new ChromeDriver();
11    driver.get("http://www.google.com");
12 }
13 }
14 }
```

# Chapter 3: Basic Selenium Commands and Their Usage in Building a Framework












ExtentReports Automation Report 2018-02-20 18:31:03 v2.41

Tests View




10 test(s) passed  
0 test(s) failed, 0 others

TESTS

- Starting CaseHappy\_Flow12 Pass
- Starting CaseHappy\_Flow14 Pass
- Starting CaseHappy\_Flow13 Pass
- Starting CaseHappy\_Flow14 Pass
- Starting CaseHappy\_Flow16 Pass


Steps View



20 step(s) passed  
0 step(s) failed, 0 others

Pass Percentage

100%

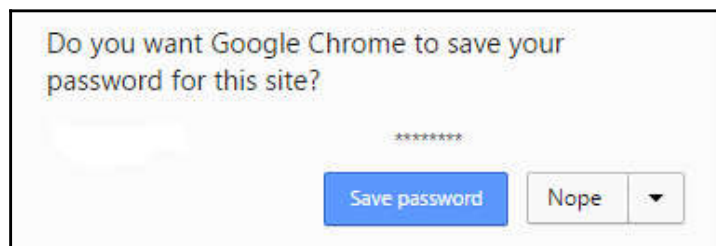
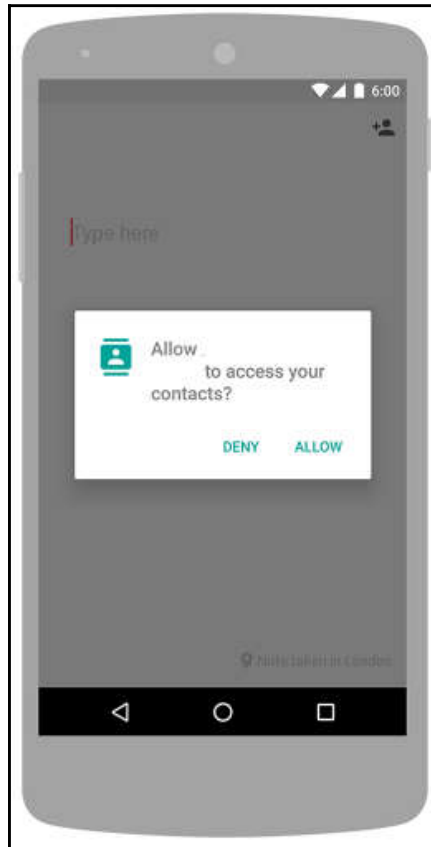


### Starting CaseHappy\_Flow12

2018-02-20 18:05:14 2018-02-20 18:07:35 0h 2m 21s+411ms

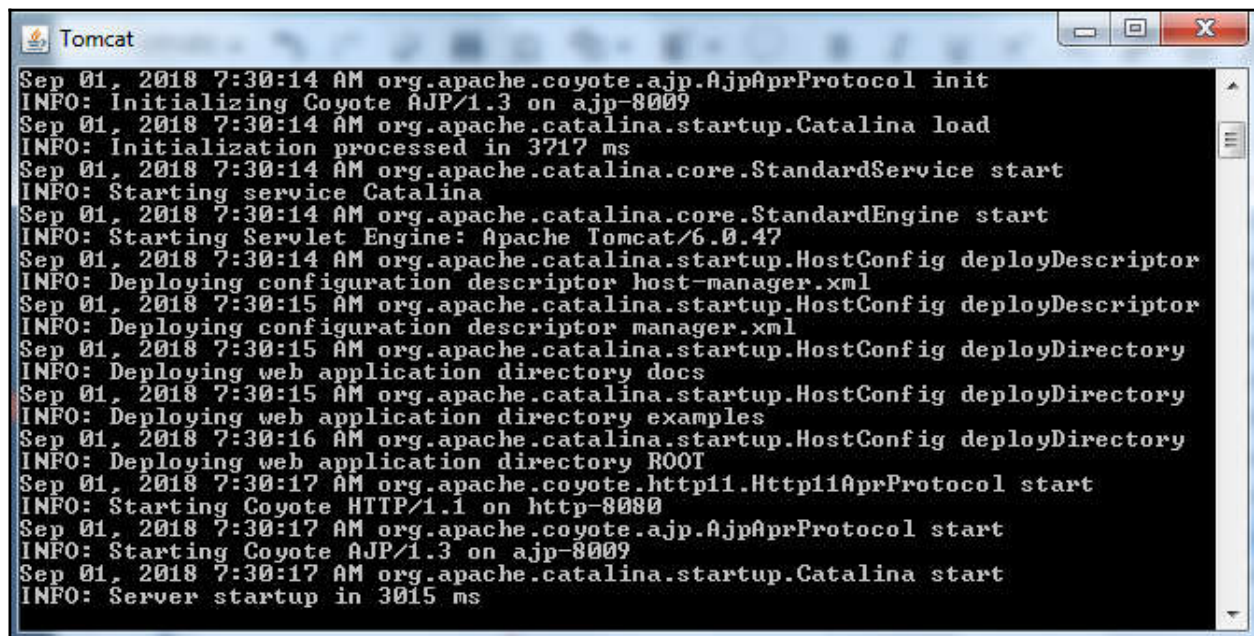
STATUS	TIMESTAMP	DETAILS
✓	18:06:33	Starting iteration 1 for ImportLC Reference No. Is C720200218180723
✓	18:07:35	Starting iteration 2 for ImportLC Reference No. Is C725200218180825

# Chapter 4: Handling Popups, Frames, and Alerts




## Chapter 5: Synchronization

```
Driver info: org.openqa.selenium.chrome.ChromeDriver
Capabilities [{platform=XP, acceptSslCerts=false, javascriptEnabled=true, browserName=chrome, chrome={userDataDir=C:\Users\PINAKI~1\CHA\AppData\Local\Temp
  at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
  at sun.reflect.NativeConstructorAccessorImpl.newInstance(Unknown Source)
  at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(Unknown Source)
  at java.lang.reflect.Constructor.newInstance(Unknown Source)
  at org.openqa.selenium.remote.ErrorHandler.createThrowable(ErrorHandler.java:206)
  at org.openqa.selenium.remote.ErrorHandler.throwIfResponseFailed(ErrorHandler.java:158)
  at org.openqa.selenium.remote.RemoteWebDriver.execute(RemoteWebDriver.java:595)
  at org.openqa.selenium.remote.RemoteWebDriver.get(RemoteWebDriver.java:306)
  at org.openqa.selenium.remote.RemoteWebDriver$RemoteNavigation.to(RemoteWebDriver.java:850)
  at test.testAutomation.src.helperclasses.PageLoadTimeout.main(PageLoadTimeout.java:16)
```




```
Tomcat
Sep 01, 2018 7:30:14 AM org.apache.coyote.ajp.AjpAprProtocol init
INFO: Initializing Coyote AJP/1.3 on ajp-8009
Sep 01, 2018 7:30:14 AM org.apache.catalina.startup.Catalina load
INFO: Initialization processed in 3717 ms
Sep 01, 2018 7:30:14 AM org.apache.catalina.core.StandardService start
INFO: Starting service Catalina
Sep 01, 2018 7:30:14 AM org.apache.catalina.core.StandardEngine start
INFO: Starting Servlet Engine: Apache Tomcat/6.0.47
Sep 01, 2018 7:30:14 AM org.apache.catalina.startup.HostConfig deployDescriptor
INFO: Deploying configuration descriptor host-manager.xml
Sep 01, 2018 7:30:15 AM org.apache.catalina.startup.HostConfig deployDescriptor
INFO: Deploying configuration descriptor manager.xml
Sep 01, 2018 7:30:15 AM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory docs
Sep 01, 2018 7:30:15 AM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory examples
Sep 01, 2018 7:30:16 AM org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory ROOT
Sep 01, 2018 7:30:17 AM org.apache.coyote.http11.Http11AprProtocol start
INFO: Starting Coyote HTTP/1.1 on http-8080
Sep 01, 2018 7:30:17 AM org.apache.coyote.ajp.AjpAprProtocol start
INFO: Starting Coyote AJP/1.3 on ajp-8009
Sep 01, 2018 7:30:17 AM org.apache.catalina.startup.Catalina start
INFO: Server startup in 3015 ms
```

localhost:8080



Apache Tomcat



The Apache Software Foundation  
http://www.apache.org/

**If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!**

As you may have guessed by now, this is the default Tomcat home page. It can be found on the local filesystem at:

`$CATALINA_HOME/webapps/ROOT/index.html`

where "\$CATALINA\_HOME" is the root of the Tomcat installation directory. If you're seeing this page, and you don't think you should be, then you're either a user who has arrived at new installation of Tomcat, or you're an administrator who hasn't got his/her setup quite right. Providing the latter is the case, please refer to the [Tomcat Documentation](#) for more detailed setup and administration information than is found in the INSTALL file.

**NOTE: For security reasons, using the manager webapp is restricted to users with certain roles such as "manager-gui".** Users are defined in `$CATALINA_HOME/conf/tomcat-users.xml`.

Included with this release are a host of sample Servlets and JSPs (with associated source code), extensive documentation, and an introductory guide to developing web applications.

Tomcat mailing lists are available at the Tomcat project web site:

- [tomcat-users](#) for general questions related to configuring and using Tomcat
- [tomcat-dev](#) for developers working on Tomcat

**Administration**

- [Status](#)
- [Tomcat Manager](#)

**Documentation**

- [Release Notes](#)
- [Change Log](#)
- [Tomcat Documentation](#)

**Tomcat Online**

- [Home Page](#)
- [FAQ](#)
- [Bug Database](#)
- [Users Mailing List](#)

localhost:8080/spinnerDemo.html


## Ajax will change the page contents

Change Page Content

localhost:8080/spinnerDemo.html

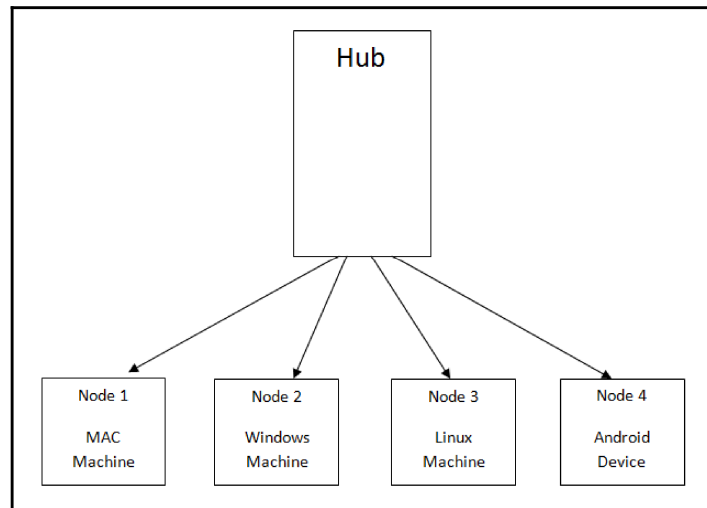
## Ajax will change the page contents

Change Page Content



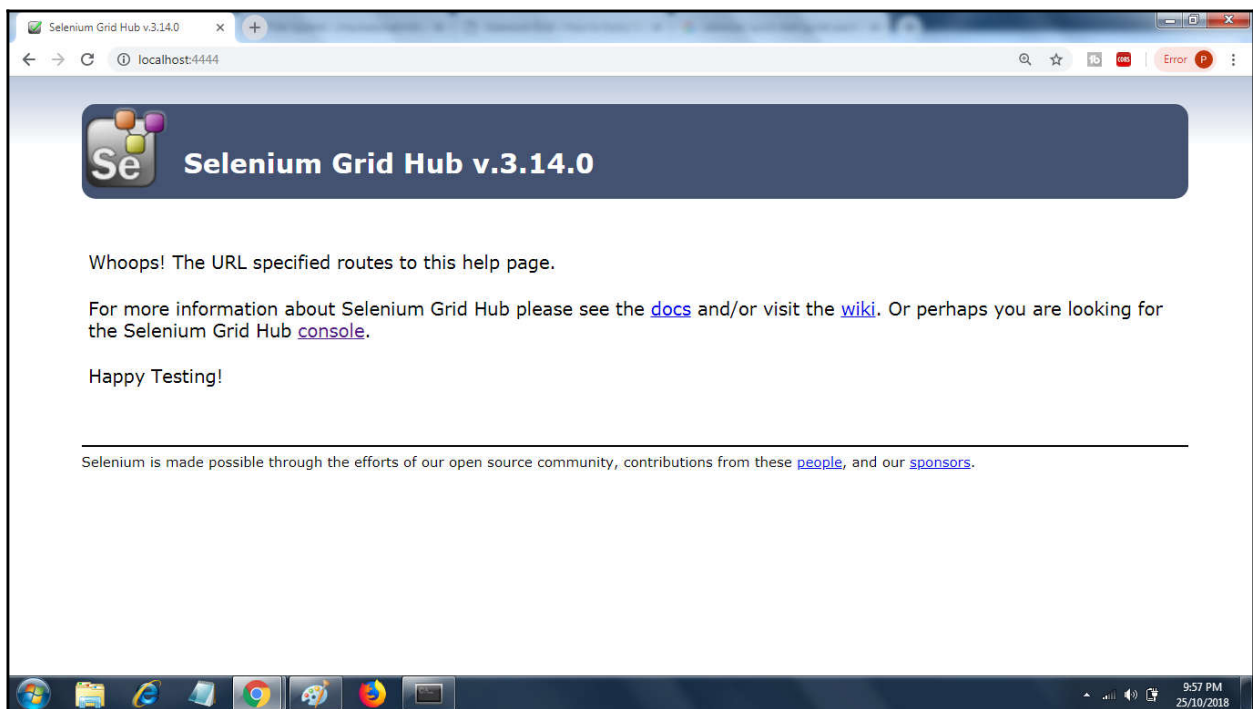
## Chapter 6: The Actions Class and JavascriptExecutor

About to trigger beforeNavigateTo <https://www.google.com>  
afterNavigateTo has been triggered for <https://www.google.com>  
About to find element lst-ib  
FindBy has been triggered for lst-ib

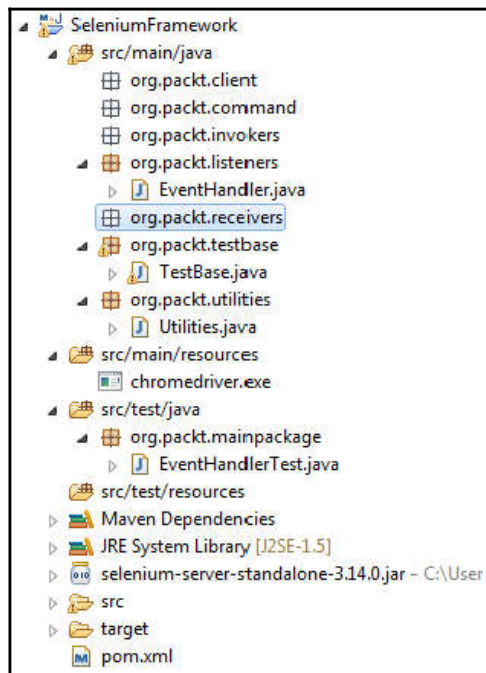


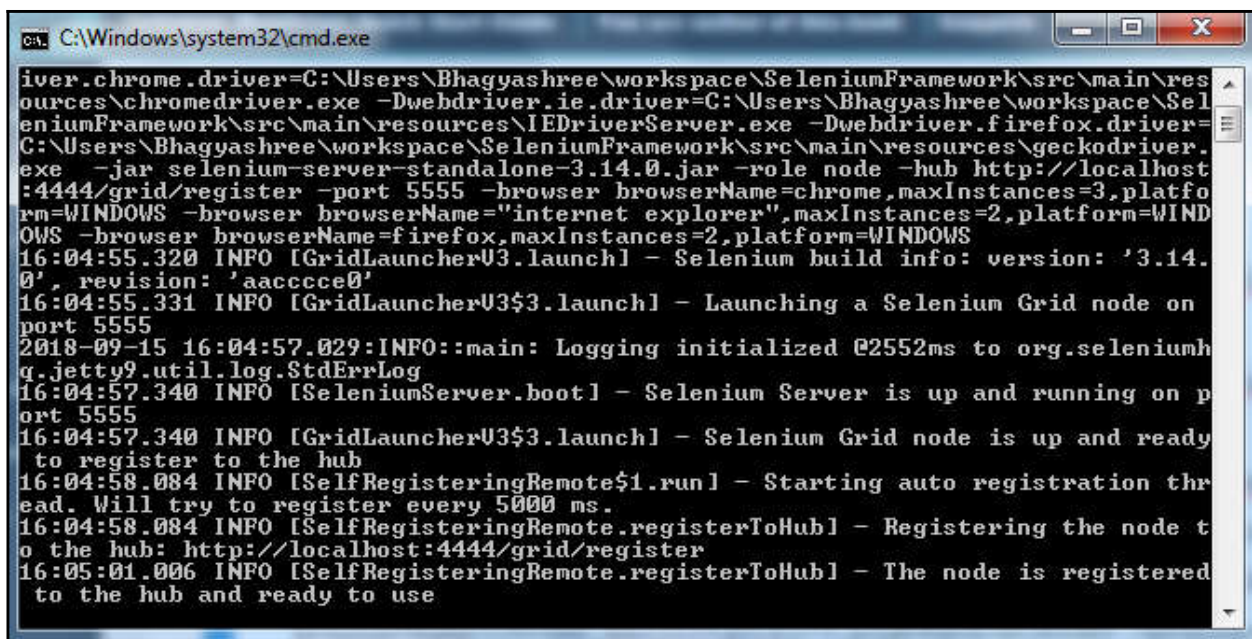
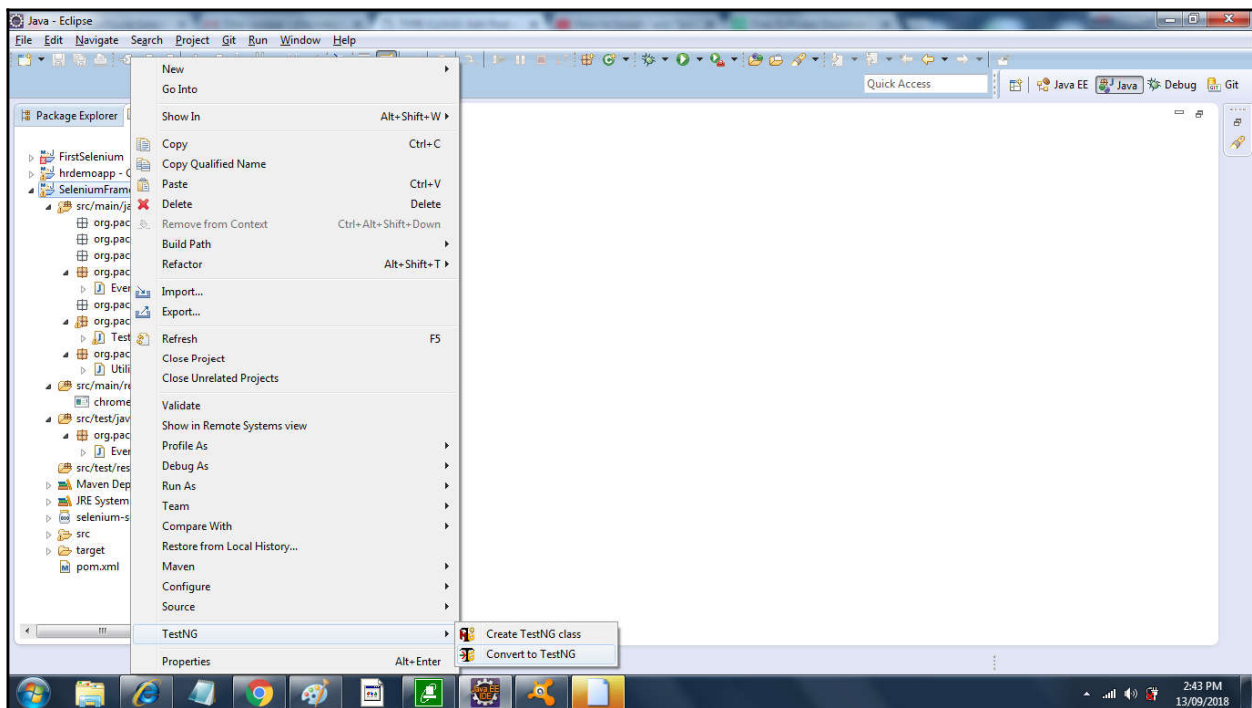


```
Administrator: C:\Windows\system32\cmd.exe - java -jar selenium-server-standalone-3.14.0.jar -r...
ted
C:\Users\Bhagyashree\.m2\repository\org\seleniumhq\selenium\selenium-server-standalone\3.14.0>java -jar selenium-server-standalone-3.14.0.jar
Error: Unable to access jarfile selenium-server-standalone-3.14.0.jar
C:\Users\Bhagyashree\.m2\repository\org\seleniumhq\selenium\selenium-server-standalone\3.14.0>cd\
C:\>cd C:\Users\Bhagyashree\Desktop\Documents\Selenium\jars
C:\Users\Bhagyashree\Desktop\Documents\Selenium\jars>java -jar selenium-server-standalone-3.14.0.jar -role hub
20:34:25.479 INFO [GridLauncherU3.launch] - Selenium build info: version: '3.14.0', revision: 'aaccce0'
20:34:25.489 INFO [GridLauncherU3$2.launch] - Launching Selenium Grid hub on port 4444
2018-09-08 20:34:26.467:INFO::main: Logging initialized @1707ms to org.seleniumhq.jetty9.util.log.StdErrLog
20:34:28.075 INFO [Hub.start] - Selenium Grid hub is up and running
20:34:28.077 INFO [Hub.start] - Nodes should register to http://192.168.0.103:4444/grid/register/
20:34:28.077 INFO [Hub.start] - Clients should connect to http://192.168.0.103:4444/wd/hub
```



# Chapter 7: The Command Pattern and Creating Components





Grid Console v.3.14.0

DefaultRemoteProxy (version : 3.14.0)  
id : http://192.168.0.104:5555, OS : WINDOWS

Browsers Configuration

WebDriver  
v:  
v:  
v:

Pinakin: Sync isn't working

Help

Config for the hub :

```

browserTimeout : 0
debug : false
host : 192.168.0.104
port : 4444
role : hub
timeout : 1800
cleanUpCycle : 5000
capabilityMatcher : org.openqa.grid.internal.utils.DefaultCapabilityMatcher
newSessionWaitTimeout : -1
throwOnCapabilityNotPresent : true
registry : org.openqa.grid.internal.DefaultGridRegistry

```

Config details :

```

hub launched with : -browserTimeout 0 -debug false -host 192.168.0.104 -port 4444 -role hub -timeout 1800 -cleanUpCycle 5000 -capabilityMatcher
org.openqa.grid.internal.utils.DefaultCapabilityMatcher -newSessionWaitTimeout -1 -throwOnCapabilityNotPresent true -registry org.openqa.grid.internal.DefaultGridRegistry
the final configuration comes from :
the default :
browserTimeout : 0
debug : false
port : 4444
role : hub
timeout : 1800
cleanUpCycle : 5000
capabilityMatcher : org.openqa.grid.internal.utils.DefaultCapabilityMatcher

```

3:52 PM 14/10/2018

Grid Console v.3.14.0

DefaultRemoteProxy (version : 3.14.0)  
id : http://192.168.0.104:5555, OS : WINDOWS

Browsers Configuration

WebDriver  
v:  
v:  
v:

Help

Config for the hub :

```

browserTimeout : 0
debug : false
host : 192.168.0.104
port : 4444
role : hub
timeout : 1800
cleanUpCycle : 5000
capabilityMatcher : org.openqa.grid.internal.utils.DefaultCapabilityMatcher
newSessionWaitTimeout : -1
throwOnCapabilityNotPresent : true
registry : org.openqa.grid.internal.DefaultGridRegistry

```

TestNG Report

file:///C:/Users/Bhagyashree/workspace/SeleniumFramework/test-output/emailable-report.html

Test	# Passed	# Skipped	# Failed	Time (ms)	Included Groups	Excluded Groups
Suite						
<a href="#">ChromeTest</a>	1	0	0	27,880		
<a href="#">IETest</a>	1	0	0	23,242		
<b>Total</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>51,122</b>		

Class	Method	Start	Time (ms)
Suite			
ChromeTest — passed			
org.pactt.client.Driver_Script	<a href="#">Run_Framework</a>	153951188150	27837
IETest — passed			
org.pactt.client.Driver_Script	<a href="#">Run_Framework</a>	1539511216040	23234

### ChromeTest

org.pactt.client.Driver\_Script#Run\_Framework

Parameter #1
chrome

[back to summary](#)

---

### IETest

org.pactt.client.Driver\_Script#Run\_Framework

Parameter #1
ie

[back to summary](#)

3:43 PM  
14/10/2018

## Chapter 8: Hybrid Framework

```
[INFO] Scanning for projects...|
[INFO]
[INFO] -----
[INFO] Building WebDriverManager 3.0.0
[INFO] -----
[INFO]
[INFO] --- exec-maven-plugin:1.6.0:java \(default-cli\) @ webdrivermanager ---
[INFO] Using WebDriverManager to resolve chrome
[INFO] Reading https://chromedriver.storage.googleapis.com/ to seek chromedriver
[INFO] Latest version of chromedriver is 2.42
[INFO] Downloading https://chromedriver.storage.googleapis.com/2.42/chromedriver\_win32.zip to
folder D:\projects\webdrivermanager
[INFO] Binary driver after extraction D:\projects\webdrivermanager\chromedriver.exe
[INFO] Resulting binary D:\projects\webdrivermanager\chromedriver.exe
```

```
[INFO] Scanning for projects...
[INFO]
[INFO] -----
[INFO] Building WebDriverManager 3.0.0
[INFO] -----
[INFO]
[INFO] --- exec-maven-plugin:1.6.0:java \(default-cli\) @ webdrivermanager ---
[INFO] WebDriverManager server listening on port 4041
```

```
[INFO] Using WebDriverManager to resolve chrome
[INFO] Reading https://chromedriver.storage.googleapis.com/ to seek chromedriver
[INFO] Latest version of chromedriver is 2.42
[INFO] Downloading https://chromedriver.storage.googleapis.com/2.42/chromedriver\_win32.zip to
folder D:\projects\webdrivermanager
[INFO] Resulting binary D:\projects\webdrivermanager\target\chromedriver.exe
```