ASSISTED PRACTICE PROJECT

Running Tests on Selenium Grid

GridTest.java

```java
package com.test;
import java.io.IOException;
import java.net.URL;

import org.openqa.selenium.Platform;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.remote.RemoteWebDriver;
public class GridTest {


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

        DesiredCapabilities capabilities = new DesiredCapabilities();
        capabilities.setBrowserName("chrome");
        capabilities.setPlatform(Platform.WINDOWS);

        ChromeOptions options = new ChromeOptions();
        options.merge(capabilities);

        String hubUrl = "http://192.168.1.34:4444/wd/hub";
        WebDriver driver = new RemoteWebDriver(new URL(hubUrl),capabilities);
        driver.get("http://www.google.com");
        System.out.println(driver.getTitle());

 }
}
```
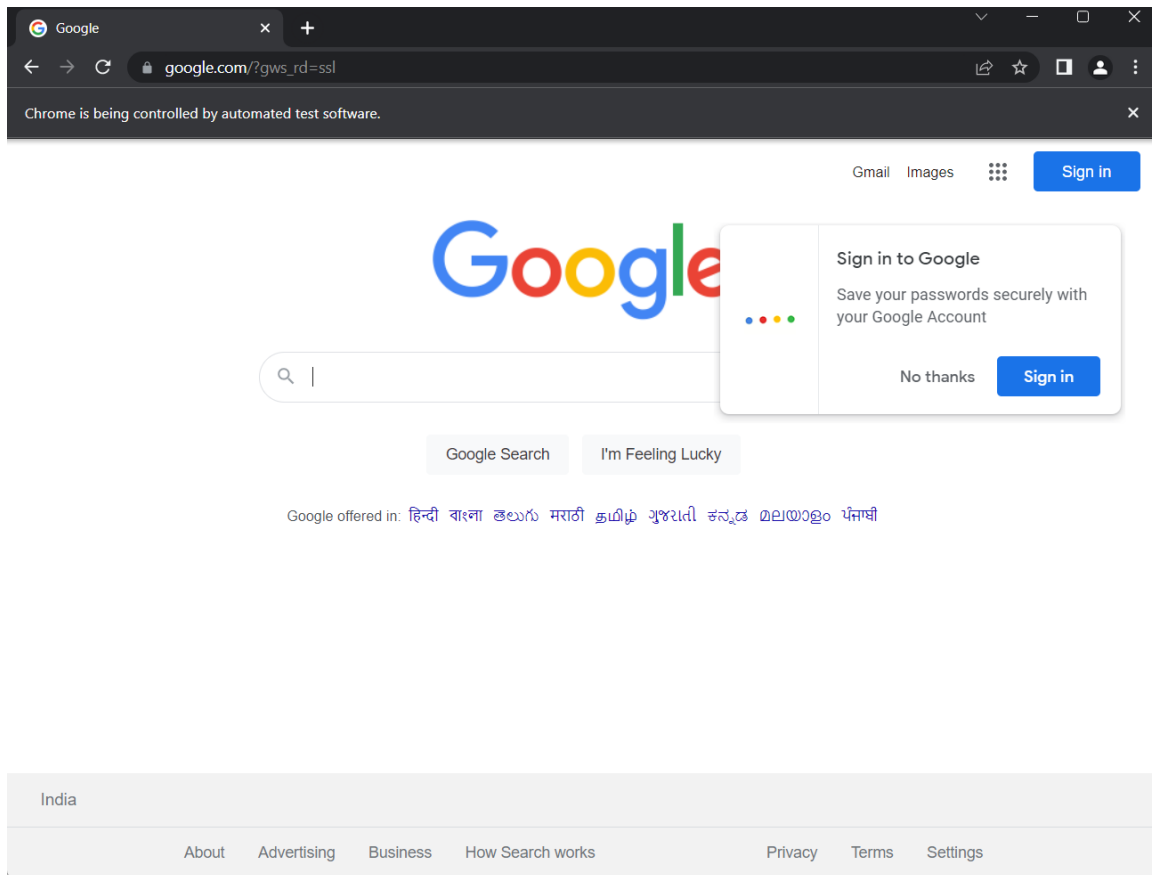
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```
SLF4J. See http://www.slf4j.org/codes.html#StaticLoggerB
Oct 01, 2022 1:11:38 PM org.openqa.selenium.remote.Protoc
INFO: Detected upstream dialect: W3C
Google
```

C:\WINDOWS\system32\cmd.exe - java -jar selenium-server-standalone-3.5.1.jar -role hub

```
Microsoft Windows [Version 10.0.22621.521]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd Downloads

C:\Users\admin\Downloads>cd Selenium_files

C:\Users\admin\Downloads\Selenium_files>java -jar selenium-server-standalone-3.5.1.jar -role hub
13:06:09.300 INFO - Selenium build info: version: '3.5.1', revision: '9c21bb67ef'
13:06:09.302 INFO - Launching Selenium Grid hub
2022-10-01 13:06:10.421:INFO::main: Logging initialized @1535ms to org.seleniumhq.jetty9.util.log.StdErrLog
13:06:10.439 INFO - Will listen on 4444
2022-10-01 13:06:10.509:INFO:osjs.Server:main: jetty-9.4.5.v20170502
2022-10-01 13:06:10.547:INFO:osjs.session:main: DefaultSessionIdManager workerName=node0
2022-10-01 13:06:10.547:INFO:osjs.session:main: No SessionScavenger set, using defaults
2022-10-01 13:06:10.551:INFO:osjs.session:main: Scavenging every 660000ms
2022-10-01 13:06:10.560:INFO:osjsh.ContextHandler:main: Started o.s.j.s.ServletContextHandler@480d3575{/,null,AVAILABLE}

2022-10-01 13:06:10.615:INFO:osjs.AbstractConnector:main: Started ServerConnector@412e84a0{HTTP/1.1,[http/1.1]}{0.0.0.0:
4444}
2022-10-01 13:06:10.616:INFO:osjs.Server:main: Started @1731ms
13:06:10.617 INFO - Nodes should register to http://192.168.1.34:4444/grid/register/
13:06:10.617 INFO - Selenium Grid hub is up and running
13:07:54.812 INFO - Registered a node http://192.168.1.34:5555
13:11:33.107 INFO - Mismatched capabilities. Creating a synthetic w3c capability.
13:11:33.125 INFO - Got a request to create a new session: Capabilities [{browserName=chrome, platformName=WINDOWS, plat
form=WINDOWS}]
13:11:33.127 INFO - Trying to create a new session on test slot {seleniumProtocol=WebDriver, browserName=chrome, maxInst
ances=5, platform=XP}
```

```
C:\WINDOWS\system32\cmd.exe - java  -Dwebdriver.chrome.driver="C:\Users\admin\Downloads\chromedriver_win32\chromedriver....     —     □     ×

13:15:06.851 INFO - Capabilities are: Capabilities {browserName=chrome, platformName=WINDOWS, platform=WINDOWS, }
13:15:06.857 INFO - Capabilities {browserName=chrome, platformName=WINDOWS, platform=WINDOWS, } matched class org.openqa
.selenium.remote.server.ServicedSession$Factory (provider: org.openqa.selenium.chrome.ChromeDriverService)
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c2ae6a26a85-refs/branch-heads/5195@{#853}) on port 412
07
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
13:15:10.955 INFO - Found handler: org.openqa.selenium.remote.server.ServicedSession@5c6afe63
13:15:10.956 INFO - Handler thread for session 8efebaea198554926cb143afd7d5bfc1 (chrome): Executing POST on /session/8ef
ebaea198554926cb143afd7d5bfc1/url (handler: ServicedSession)
13:15:10.964 INFO - To upstream: {
  "url": "http:\u002f\u002fwww.google.com"
}
13:15:11.007 INFO - Found handler: org.openqa.selenium.remote.server.commandhandler.Status@38c21c88
13:15:11.020 INFO - /status: Executing GET on /status (handler: Status)
13:15:13.244 INFO - To downstream: {"value":null}
13:15:13.292 INFO - Found handler: org.openqa.selenium.remote.server.ServicedSession@5c6afe63
13:15:13.294 INFO - Handler thread for session 8efebaea198554926cb143afd7d5bfc1 (chrome): Executing GET on /session/8efe
baea198554926cb143afd7d5bfc1/title (handler: ServicedSession)
13:15:13.313 INFO - To downstream: {"value":"Google"}
13:15:16.058 INFO - Found handler: org.openqa.selenium.remote.server.commandhandler.Status@41e690a8
13:15:16.060 INFO - /status: Executing GET on /status (handler: Status)
13:15:21.091 INFO - Found handler: org.openqa.selenium.remote.server.commandhandler.Status@793d4403
13:15:21.092 INFO - /status: Executing GET on /status (handler: Status)
13:15:26.111 INFO - Found handler: org.openqa.selenium.remote.server.commandhandler.Status@67b30ee4
13:15:26.112 INFO - /status: Executing GET on /status (handler: Status)
```