2.7 Running Tests on Selenium Grid

GridTest.java

```java
package com.gridtest;

import org.openqa.selenium.Platform;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.remote.DesiredCapabilities;
import org.openqa.selenium.remote.RemoteWebDriver;

import java.net.URL; // Import the URL class explicitly

public class GridTest {

public static void main(String[] args) {
// TODO Auto-generated method stub

DesiredCapabilities cap = new DesiredCapabilities();
cap.setBrowserName("chrome");
cap.setPlatform(Platform.WIN11);

URL url = new URL("http://192.168.0.102:4444");
WebDriver driver = new RemoteWebDriver(url, cap);

driver.get("https://www.google.com"); // Correct the URL to "https://www.google.com"
System.out.println("Google Title: " + driver.getTitle());

driver.close();
}
}
```
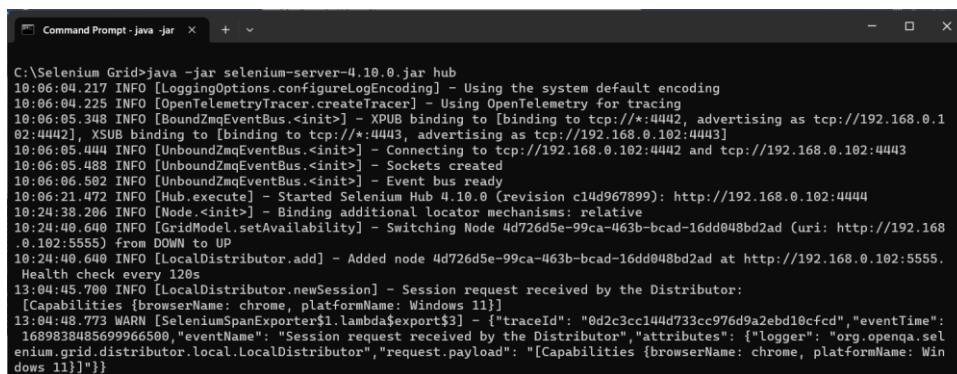
C:\Selenium Grid>java -jar selenium-server-4.10.0.jar hub
10:06:04.217 INFO [LoggingOptions.configureLogEncoding] - Using the system default encoding
10:06:04.225 INFO [OpenTelemetryTracer.createTracer] - Using OpenTelemetry for tracing
10:06:05.348 INFO [BoundZmqEventBus.<init>] - XPUB binding to [binding to tcp://*:4442, advertising as tcp://192.168.0.1
02:4442], XSUB binding to [binding to tcp://*:4443, advertising as tcp://192.168.0.102:4443]
10:06:05.444 INFO [UnboundZmqEventBus.<init>] - Connecting to tcp://192.168.0.102:4442 and tcp://192.168.0.102:4443
10:06:05.488 INFO [UnboundZmqEventBus.<init>] - Sockets created
10:06:06.502 INFO [UnboundZmqEventBus.<init>] - Event bus ready
10:06:21.472 INFO [Hub.execute] - Started Selenium Hub 4.10.0 (revision c14d967899): http://192.168.0.102:4444
10:24:38.206 INFO [Node.<init>] - Binding additional locator mechanisms: relative
10:24:40.640 INFO [GridModel.setAvailability] - Switching Node 4d726d5e-99ca-463b-bcad-16dd048bd2ad (uri: http://192.168
.0.102:5555) from DOWN to UP
10:24:40.640 INFO [LocalDistributor.add] - Added node 4d726d5e-99ca-463b-bcad-16dd048bd2ad at http://192.168.0.102:5555.
Health check every 120s
13:04:45.700 INFO [LocalDistributor.newSession] - Session request received by the Distributor:
[Capabilities {browserName: chrome, platformName: Windows 11}]
13:04:48.773 WARN [SeleniumSpanExporter$1.lambda$export$3] - {"traceId": "0d2c3cc144d733cc976d9a2ebd10cfcd","eventTime":
1689838485699966500,"eventName": "Session request received by the Distributor","attributes": {"logger": "org.openqa.sel
enium.grid.distributor.local.LocalDistributor","request.payload": "[Capabilities {browserName: chrome, platformName: Win
dows 11}]"}}