







1. Install and Explore Selenium for automated testing.

Installing chromedriver:

	<u>Name</u>	<u>Last modified</u>	<u>Size</u>	<u>E Tag</u>
	Parent Directory		-	
	chromedriver_linux64.zip	2023-05-31 08:57:22	7.06MB	cd6613edf6628041684393706b62d3a6
	chromedriver_mac64.zip	2023-05-31 08:57:25	8.29MB	b44390afbdddadf8748a1d151483b2472
	chromedriver_mac_arm64.zip	2023-05-31 08:57:29	7.40MB	0d515e46bea141705e49edaba1d49819
	chromedriver_win32.zip	2023-05-31 08:57:32	6.30MB	7d455bed57ef682d41108e13d45545ca
	notes.txt	2023-05-31 08:57:38	0.00MB	1670f6dde7877ca84ecd4c56b9cc759c

Installing Selenium Grid:

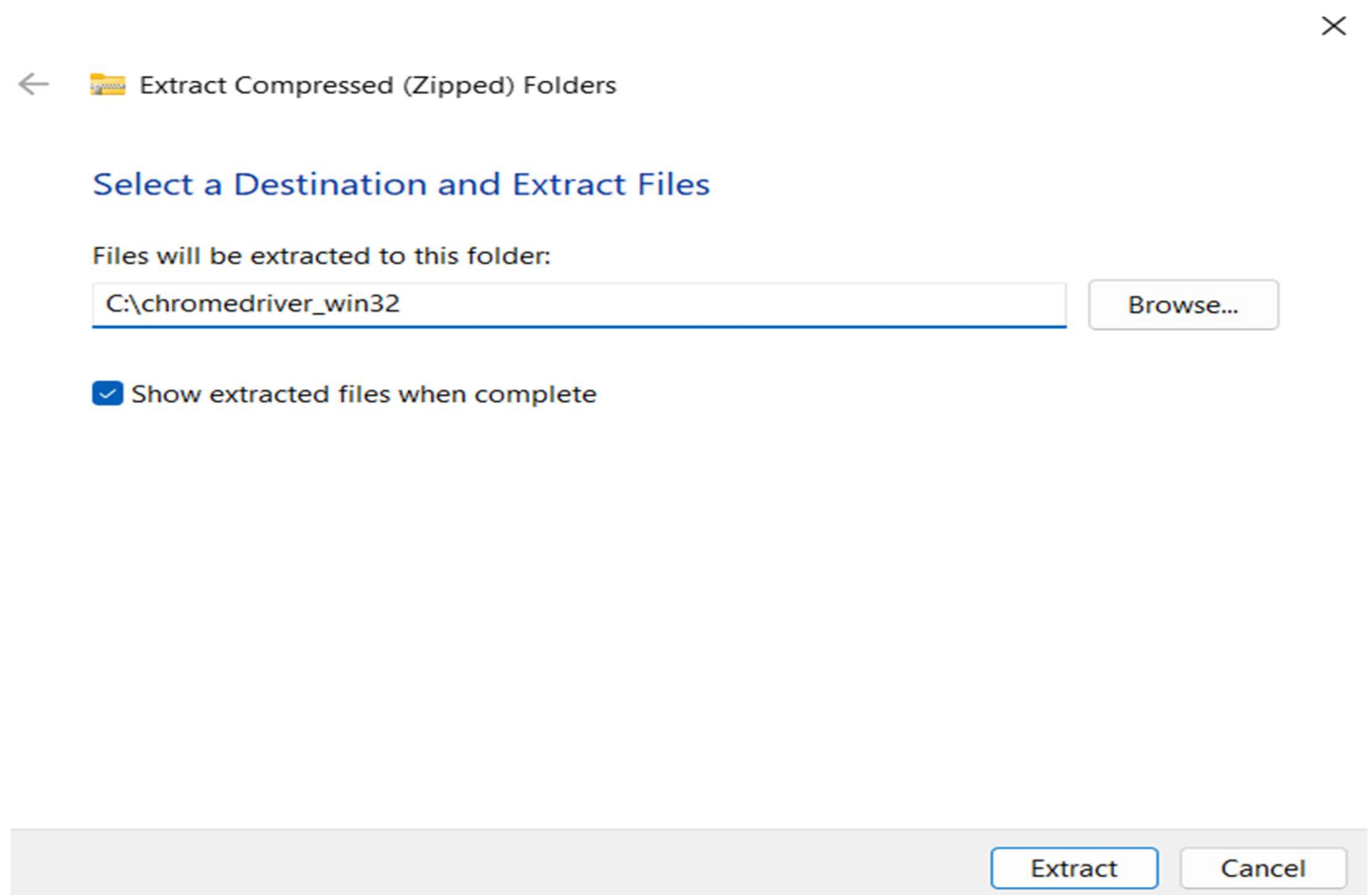
Selenium Server (Grid)

The Selenium Server is needed in order to run Remote Selenium WebDriver (Grid).

Latest stable version [4.10.0](#)

To use the Selenium Server in a Grid configuration see the [documentation](#).


Extracting chromedriver folder:



Chromedriver Files:

 chromedriver	05-07-2023 19:40	Application	11,986 KB
 LICENSE.chromedriver	05-07-2023 19:40	CHROMEDRIVER F...	243 KB

Creating Java Project:

 New Java Project

Create a Java Project

Create a Java project in the workspace or in an external location.

Project name:

☒ Use default location

Location: [Browse...](#)

JRE

☒ Use an execution environment JRE:

☐ Use a project specific JRE:

☐ Use default JRE 'jdk-17' and workspace compiler preferences [Configure JREs...](#)

Project layout

☐ Use project folder as root for sources and class files

☒ Create separate folders for sources and class files [Configure default...](#)

Working sets

☐ Add project to working sets [New...](#)


Working sets: [Select...](#)

Module

☐ Create module-info.java file

Module name:

☐ Generate comments

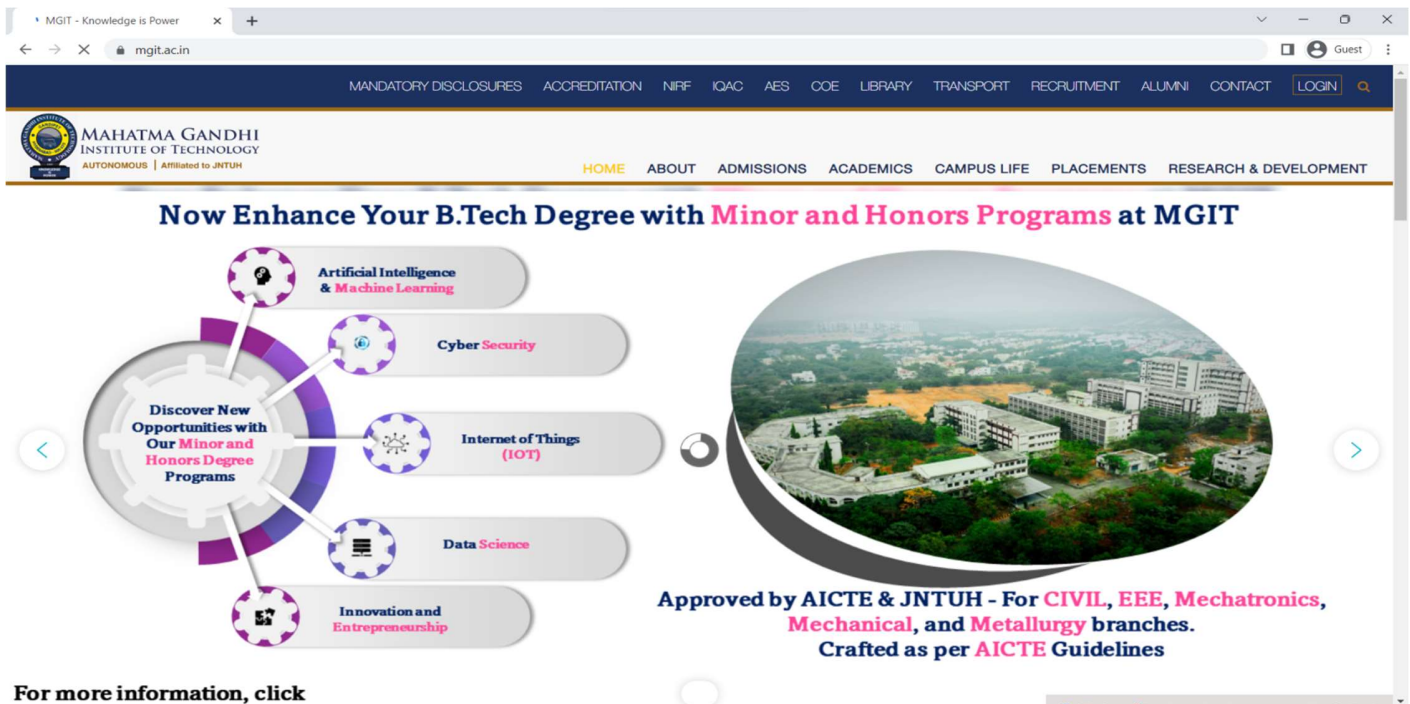
 [< Back](#) [Next >](#) [Finish](#) [Cancel](#)

11. Write a simple program in JavaScript and perform testing using Selenium.

Test program:

```
*NewOne.java x
1 import org.openqa.selenium.WebDriver;
2
3
4 public class NewOne {
5     public static void main(String[] args) {
6         // Set the path to the chromedriver executable
7         System.setProperty("webdriver.chrome.driver", "C:/chromedriver.exe");
8
9         // Create a new instance of the ChromeDriver
10        WebDriver driver = new ChromeDriver();
11
12        // Navigate to a website
13        driver.get("https://www.mgit.ac.in");
14
15        // Perform some testing actions
16        String title = driver.getTitle();
17        System.out.println("Page title: " + title);
18
19        // Close the browser
20        driver.quit();
21    }
22 }
```

Testing a webpage:



Output:

```
Problems @ Javadoc Declaration Console x
<terminated> NewOne [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (05-Jul-2023, 9:12:02 pm - 9:12:34 pm) [pid: 16340]
Jul 05, 2023 9:12:02 PM org.openqa.selenium.remote.service.DriverService$Builder getLogOutput
INFO: Driver logs no longer sent to console by default; https://www.selenium.dev/documentation/webdriver/drivers/service/#setting-log-output
Page title: MGIT - Knowledge is Power
```