

Selenium With Java For Beginners: The Comprehensive Guide to Automated Testing

Selenium is a powerful open-source tool for automated testing of web applications. It allows you to write test scripts in a variety of programming languages, including Java. This guide will teach you the basics of Selenium with Java, from setting up your environment to writing and executing test scripts.

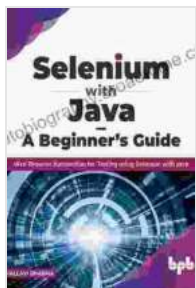
Before you begin, you will need the following:

- A Java development environment (JDK and IDE)
- Selenium WebDriver for Java
- A web browser (such as Chrome, Firefox, or Safari)

1. Install the Java Development Kit (JDK) from Oracle.
2. Install an IDE (such as Eclipse or IntelliJ IDEA).
3. Download Selenium WebDriver for Java from the Selenium website.
4. Unzip the Selenium WebDriver for Java file to a directory on your computer.
5. Add the Selenium WebDriver for Java JAR file to your project's build path.

1. Create a new Java project in your IDE.
2. Add the following code to your project:

```
java import org.openqa.selenium.WebDriver; import
org.openqa.selenium.chrome.ChromeDriver;
```



Selenium with Java – A Beginner's Guide: Web Browser Automation for Testing using Selenium with Java (English Edition)

★★★★★ 5 out of 5

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```
public class SeleniumTest {
```

```
public static void main(String[] args){System.setProperty("webdriver
```

```
}
```

3. Save the file and run the test.

1. Open the command prompt or terminal.

2. Navigate to the directory where your test script is located.

3. Run the following command:

```
java -jar selenium-test.jar
```

4. The test script will execute and the results will be displayed in the console.

Selenium can be used to generate reports that summarize the results of your test scripts. This can be useful for tracking the progress of your testing efforts and identifying any areas that need improvement.

There are a number of different reporting tools available for Selenium, including:

- **TestNG:** A unit testing framework for Java that can be used to generate HTML and XML reports.
- **JUnit:** A unit testing framework for Java that can be used to generate XML reports.
- **Serenity:** A reporting library for Selenium that can be used to generate HTML, PDF, and XML reports.

Selenium is a powerful tool for automated testing of web applications. This guide has provided you with the basics of Selenium with Java, from setting up your environment to writing and executing test scripts. With a little practice, you will be able to use Selenium to improve the quality and efficiency of your testing efforts.



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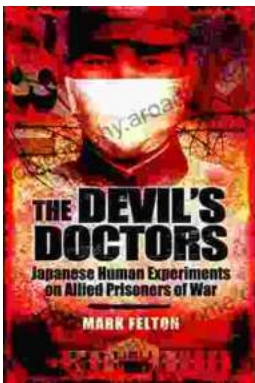
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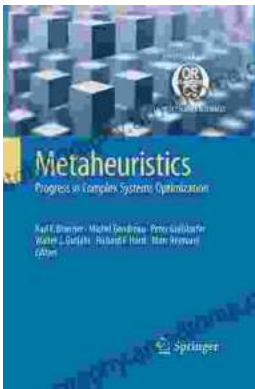
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