

Top 30 Selenium Interview Questions for Freshers (2026) | Saravana Tech

30 questions · clear answers · practical examples

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1 What is Selenium?

ANSWER

Selenium is an open-source automation testing tool used to automate web applications. It supports multiple browsers and programming languages like Java, Python, C#, JavaScript, and Ruby.

2 What are the components of Selenium?

ANSWER

Selenium has three main components: Selenium IDE, Selenium WebDriver and Selenium Grid.

Selenium IDE

Selenium IDE (Integrated Development Environment) is a browser extension that allows you to record, edit, and replay test cases without writing code.

It is mainly used by beginners, testers, and business analysts to quickly create automation scripts.

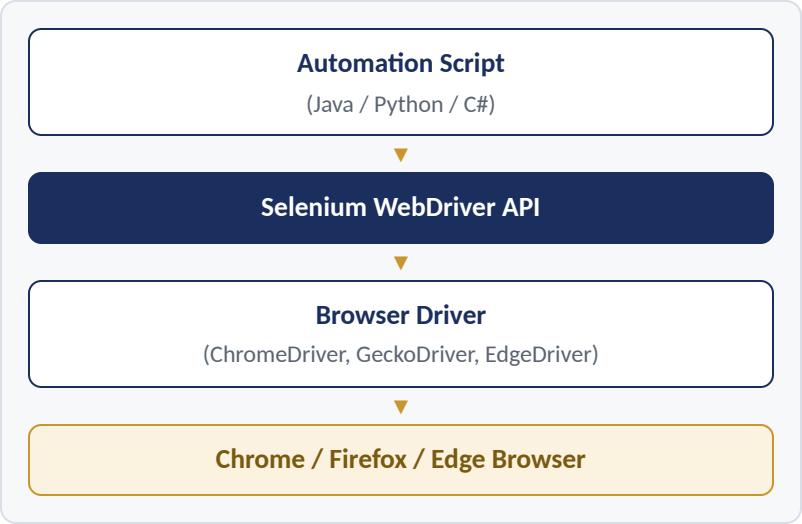
Features

- Record and Playback
- No programming knowledge required
- Supports Chrome and Firefox
- Export test cases to Java, Python, C#, JavaScript, etc.
- Easy debugging
- Supports loops and conditions

Selenium WebDriver

Selenium WebDriver is the **most widely used component** of Selenium. It is an API that automates web browsers by directly communicating with browser-specific drivers.

Unlike Selenium IDE, WebDriver requires programming knowledge.



Supported Languages

Java | Python | C# | JavaScript | Ruby | Kotlin

Supported Browsers

Chrome | Firefox | Edge | Safari | Opera

Common Operations

- Open browser
- Click buttons
- Enter text
- Select dropdown values
- Handle alerts
- Handle frames
- Handle multiple windows
- Upload files
- Download files
- Execute JavaScript

Advantages

- Supports multiple browsers
- Cross-platform (Windows, Linux, macOS)
- Integrates with TestNG, JUnit, Maven, Jenkins, GitHub Actions, etc.
- Supports advanced frameworks like Page Object Model (POM) and Data-Driven Testing
- Highly maintainable for large projects

Disadvantages

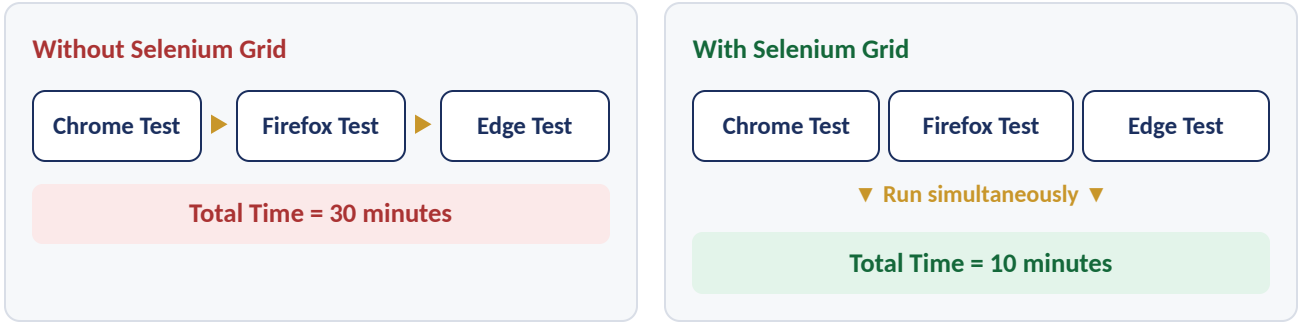
- Requires programming skills
- Initial setup is more complex than Selenium IDE
- Automates only web applications (not desktop or mobile apps directly)

Selenium Grid

Selenium Grid is used to execute the same test cases on multiple browsers, browser versions, operating systems, or machines simultaneously.

This is known as **parallel execution**, which helps reduce the overall test execution time.

Why Use Selenium Grid?



3 What is Selenium WebDriver?

ANSWER

WebDriver is a Selenium component used to automate browser actions by communicating directly with browser drivers like ChromeDriver and GeckoDriver.

4 Which browsers are supported by Selenium?

ANSWER

Google Chrome | Mozilla Firefox | Microsoft Edge | Safari | Opera

5 Which programming languages does Selenium support?

ANSWER

Java | Python | C# | JavaScript | Ruby | Kotlin

6 What is WebDriver?

ANSWER

WebDriver is an interface that allows Selenium to control web browsers programmatically.

Example:

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

WebDriver driver = new ChromeDriver();
```

7 What is ChromeDriver?

ANSWER

ChromeDriver is an executable that enables Selenium WebDriver to communicate with the Chrome browser.

8 What is the difference between Selenium IDE and WebDriver?

ANSWER

Selenium IDE	WebDriver
Record & Playback	Programming Required
Beginner Friendly	Advanced Automation
Limited Features	Supports Complex Testing

9 What is a Locator?

ANSWER

A locator identifies web elements on a webpage.

Common locators:

id | name | className | tagName | linkText | partialLinkText | cssSelector | xpath

10 Which locator is the fastest?

ANSWER

The recommended order is:

1. ID
2. Name
3. CSS Selector
4. XPath

11 What is XPath?

ANSWER

XPath is used to locate elements in an XML or HTML document.

Example:

```xpath
//input[@id='username']
```

12 Difference between Absolute XPath and Relative XPath?

ANSWER

Absolute XPath	Relative XPath
Starts with /	Starts with //
Fragile	More Reliable
Long	Short

13 What is CSS Selector?

ANSWER

CSS Selector is another way to locate web elements. It is generally faster than XPath.

Example:

```css
input#username
```

14 What is the difference between findElement() and findElements()?

ANSWER

findElement()	findElements()
Returns a single element	Returns a list
Throws NoSuchElementException if not found	Returns an empty list if no element is found

15 What are Selenium waits?

ANSWER

Waits allow Selenium to synchronize with the application.

Types:

Implicit Wait | Explicit Wait | Fluent Wait

16 Difference between Implicit Wait and Explicit Wait?

ANSWER

Implicit Wait	Explicit Wait
Global wait	Specific element
Applied to all elements	Applied only where needed

17 What is Explicit Wait?

ANSWER

Explicit Wait waits for a specific condition before proceeding.

Example:

```java
import java.time.Duration;
import org.openqa.selenium.support.ui.WebDriverWait;

WebDriverWait wait = new WebDriverWait(driver, Duration.ofSeconds(10));
```

18 What is Fluent Wait?

ANSWER

Fluent Wait allows custom polling intervals and can ignore specific exceptions while waiting.

19 How do you launch Chrome using Selenium?

ANSWER

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

WebDriver driver = new ChromeDriver();
driver.get("https://google.com");
```

20 How do you maximize the browser?

ANSWER

```java
driver.manage().window().maximize();
```

21 How do you enter text into a textbox?

ANSWER

```java
driver.findElement(By.id("username")).sendKeys("Admin");
```

22 How do you click a button?

ANSWER

```java
driver.findElement(By.id("login")).click();
```

23 How do you clear a textbox?

ANSWER

```java
driver.findElement(By.id("username")).clear();
```

24 How do you retrieve text from an element?

ANSWER

```java
String text = driver.findElement(By.id("message")).getText();
```

25 What is the difference between getText() and getAttribute()?

ANSWER

getText()	getAttribute()
Visible text	Attribute value
Button label	Input value

26 How do you handle alerts?

ANSWER

```java
import org.openqa.selenium.Alert;

Alert alert = driver.switchTo().alert();
alert.accept();
```

27 How do you handle dropdowns?

ANSWER

```java
import org.openqa.selenium.support.ui.Select;

Select select = new Select(driver.findElement(By.id("country")));
select.selectByVisibleText("India");
```

28 How do you switch to a frame?

ANSWER

```java
driver.switchTo().frame("frameName");
```

29 How do you close the browser?

ANSWER

```java
driver.close();
```

Closes the current browser window.

30 What is the difference between close() and quit()?

ANSWER

close()	quit()
Closes the current window	Closes all browser windows and ends the WebDriver session