Automation Testing Interview Questions | Cheat Sheet

Selenium WebDriver

- What is Selenium WebDriver, and how does it differ from Selenium RC?
- Explain the difference between findElement and findElements in WebDriver.
- 3. What is the WebDriver interface, and how do you instantiate a WebDriver object for different browsers?
- 4. How can you handle different types of alerts and pop-ups in Selenium WebDriver?
- 5. Explain the concept of implicit and explicit waits in WebDriver.
- 6. What is the Page Object Model (POM) in Selenium WebDriver, and why is it beneficial for test automation?
- Explain the concept of WebDriver Waits. What are some types of waits available in Selenium?
- 8. How can you handle frames and iframes in Selenium WebDriver?
- 9. What are Selenium Grid and its advantages in test automation?
- 10. What is the difference between driver.close() and driver.quit() in WebDriver?

JAVA

- 1. What is the difference between JDK, JRE, and JVM?
- What is OOP (Object-Oriented Programming), and how is it used in Java?
- Explain the difference between '==' and '.equals()' in Java for comparing objects.
- 4. What is an exception in Java, and how do you handle exceptions using try-catch blocks?
- 5. What are access modifiers in Java, and what are their different levels of visibility?
- What is method overloading and method overriding in Java? Provide examples.
- Explain the concept of multithreading in Java and why it's important in test automation.
- 8. What is the purpose of the 'final' keyword in Java, and where can it he used?
- 9. How do you handle exceptions that are not caught by a try-catch block in Java?
- 10. What is the purpose of the 'static' keyword in Java, and how does it affect class members and methods?

TestNG

- 1. What is TestNG, and how does it differ from JUnit?
- Explain the usage of annotations like @Test, @BeforeSuite, and @DataProvider in TestNG.
- 3. How can you prioritize test methods in TestNG?
- 4. What are dependencies in TestNG, and how do you define them?
- 5. How do you group test methods in TestNG, and why is test grouping useful?
- 6. Explain the usage of 'DataProvider' with a real-world example.
- 7. What is the purpose of the '@Listeners' annotation in TestNG, and how can you use it?
- 8. How can you run TestNG tests in parallel, and what are the advantages of parallel execution?
- What are data-driven testing and how can you implement it in TestNG?
- Explain the concept of TestNG listeners and list a few built-in listeners.

Manual Testing

- What is manual testing, and when is it preferred over automation testing?
- 2. What is a test case, and how do you write an effective test case?
- 3. What is regression testing, and why is it important in manual testing?
- Explain the difference between functional testing and nonfunctional testing in manual testing.
- 5. What is the Test Plan, and what information should it contain?
- What are the different levels of testing (e.g., unit testing, integration testing, system testing) and their purposes in the SDLC2
- 7. How do you perform smoke testing and sanity testing, and what are their differences?
- Explain the concept of equivalence partitioning in test case design
- 9. What is exploratory testing, and when is it most useful in the testing process?
- 10. What is the purpose of a Traceability Matrix in manual testing, and how is it created?
- Explain the difference between positive testing and negative testing in manual testing.

Test Automation Frameworks

- What is a Test automation framework, and why is it important in Automation testing?
- Explain the differences between Data-Driven and Keyword-Driven test automation frameworks. When would you use each?
- 3. What is the Page Object Model (POM), and how does it enhance test automation maintainability?
- Describe the principles of Behavior-Driven Development (BDD) and how it relates to test automation. Name some BDD tools.
- 5. How do you handle test data in a test automation framework? Can you describe a data-driven testing approach?
- 6. What is the role of configuration files (e.g., properties files, JSON files) in a test automation framework, and how are they useful?
- 7. Explain the concept of parallel execution in test automation frameworks. How does it improve testing efficiency, and what tools can you use for parallel testing?
- 8. How can you ensure cross-browser compatibility testing within a test automation framework?
- 9. Explain the concept of Page Object Model and Page Factory in Selenium. How do they simplify test automation?
- 10. What is the role of logging and reporting in a test automation framework, and how do you implement them effectively?

Other Miscellaneous Questions

- Explain how automation tests can be integrated with CI/CD tools like Jenkins.
- 2. Explain branching, merging, and resolving conflicts in Git.
- 3. Explain how to prioritize test cases for regression testing.
- Explain how to write maintainable and reusable automation scripts.
- 5. What is the significance of desired capabilities in Appium? How do you set them up?
- 6. How do you handle mobile gestures like swipe, scroll, long-press, and pinch-zoom in Appium?
- 7. What is Appium Inspector, and how can it assist in element identification?
- 8. How do you perform parallel testing with Appium, and why is it beneficial?

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