

Interviewer – Question 1

Introduce yourself and explain your project.

Ideal Answer (Speak like this):

“My name is XYZ, and I have around x years of experience as a QA Engineer. I have worked on manual and automation testing for web applications using Selenium with Java, TestNG, and API testing using Rest Assured. I follow Agile Scrum methodology and participate in all ceremonies.

My project was a web-based enterprise application used for customer onboarding, transactions, and reporting. I was involved in requirement analysis, test case design, automation framework development, regression execution, CI/CD runs, and defect tracking.”

Interviewer – Question 2

Explain your automation framework.

Ideal Answer:

“I worked on a Hybrid Automation Framework which is a combination of Page Object Model, TestNG, and Data-Driven approach.

In my framework:

- Page classes contain locators and actions
- Test classes contain test logic only
- Utility classes handle common methods like waits, clicks, screenshots
- TestNG handles execution, grouping, parallel runs, and reports

This framework helped us maintain clean code, reuse logic, and easily scale automation.”

Interviewer – Question 3

Which framework do you prefer – Cucumber or TestNG Hybrid? Why?

Ideal Answer:

“I prefer **TestNG** with **POM Hybrid framework**.

Reasons:

- Faster execution compared to Cucumber
- Easier debugging (no step-definition overhead)
- Less maintenance
- Better control over execution and retries

In my project, business did not require Gherkin syntax, so TestNG Hybrid was more efficient and stable.”

Interviewer – Question 4

What are the limitations of Cucumber?

Ideal Answer:

“Cucumber has some limitations:

- Slower execution
- High maintenance for feature files
- Step definition duplication
- Debugging is difficult due to extra layers

In large projects, managing feature files becomes complex, which is why we preferred TestNG Hybrid.”

Interviewer – Question 5

Explain WebDriver.

Ideal Answer:

“WebDriver is a **Selenium interface** used to automate web browsers.

```
WebDriver driver = new ChromeDriver();
```

- WebDriver is an interface
- ChromeDriver is the implementation

WebDriver provides methods to open browsers, locate elements, perform actions, and validate results.”

Interviewer – Question 6

Explain Data Driven testing in TestNG.

Ideal Answer:

“Data-driven testing means executing the same test case with **multiple sets of data**.

 In TestNG, we use @DataProvider.

```
@DataProvider  
public Object[][] data() {  
    return new Object[][] {  
        {"user1", "pass1"},  
        {"user2", "pass2"}  
    };  
}
```

I used this mainly for login, registration, and negative test scenarios.”

Interviewer – Question 7

Explain execution order: BeforeTest, BeforeMethod, AfterMethod, AfterTest.

Ideal Answer:

“The execution order is:

- 1 @BeforeTest
- 2 @BeforeMethod
- 3 @Test
- 4 @AfterMethod
- 5 @AfterTest

 In real time:

- BeforeTest → Browser setup
 - BeforeMethod → Login
 - AfterMethod → Logout
 - AfterTest → Close browser”
-

 **Interviewer – Question 8**

Explain Parallel Execution.

 **Ideal Answer:**

“Parallel execution allows multiple test cases to run at the same time using multiple threads.

```
<suite parallel="tests" thread-count="3">
```

We used this in regression suites to reduce execution time in CI/CD pipelines.”

 **Interviewer – Question 9**

How do you group test cases?

 **Ideal Answer:**

“Grouping allows us to execute specific sets of test cases like smoke, sanity, and regression.

```
@Test(groups="smoke")
```

We use smoke tests after deployment and regression before release.”

 **Interviewer – Question 10**

What is the return type of getWindowHandles()?

 **Ideal Answer:**

“The return type is **Set<String>** because window handles are unique and duplicates are not allowed.”

Interviewer – Question 11

Explain Hashing (Correctly).

Ideal Answer (Senior Level):

“Hashing is a technique used to **store and retrieve data quickly** using a key-value pair.

 Java uses hashing in **HashMap**.

```
HashMap<String, String> data = new HashMap<>();  
data.put("username", "admin");
```

Internally, **HashMap** uses a **hash function** to convert keys into hash codes, which decides where the data is stored in memory.

 In my framework, I used **HashMap** to store:

- Test data
- Environment details
- API response values

This avoids looping and improves performance.”

Interviewer – Question 12

Explain WebDriver Architecture (Internal Working).

Ideal Answer (Clear Flow):

“WebDriver follows a **client–server architecture**.

 Flow:

- 1 Test script (Java code)
- 2 Selenium WebDriver API

3 Browser Driver (ChromeDriver)

4 Actual Browser

Browser driver acts as a bridge between Selenium and the browser.
This explains why driver version compatibility is important.”

Interviewer – Question 13

Which collections have you used in your framework?

Ideal Answer:

“I have used:

- List → dropdown values
 - Set → window handles
 - Map → test data and API responses”
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Interviewer – Question 14

Which is better for modification: ArrayList or LinkedList?

Ideal Answer:

“In most cases, **ArrayList** is preferred because it provides faster access and less memory overhead.

In real projects, ArrayList is more commonly used.”

Interviewer – Question 15

Explain iteration in collections.

Ideal Answer:

“Iteration means looping through collection elements.

```
for(String value : list) {
```

```
System.out.println(value);  
}
```

Used to validate dropdowns and API response lists.”

Interviewer – Question 16

Dynamic dropdown with 500 values – will you loop?

Ideal Answer (VERY IMPORTANT):

“No, looping through all 500 values is not the best approach.

First, I analyze the dropdown behavior:

- If search box exists → type & select
- If auto-suggestion → loop filtered results
- If lazy loading → scroll & load
- Looping all values is my **last option only**”

(You already mastered this answer )

Interviewer – Question 17

Explain CI/CD pipeline.

Ideal Answer:

“CI/CD automates build, test execution, and deployment.



Flow:
Code Push → Build → Automation Tests → Report → Deployment

We used CI/CD for nightly regression and release validation.”

Interviewer – Question 18

Which Selenium exception was difficult to handle?

 **Ideal Answer:**

“StaleElementReferenceException.

It occurs when DOM refreshes and element reference is lost.

 Handling:

- Re-locate element
 - Use waits
 - Retry logic”
-

 **Interviewer – Question 19**

Explain components of REST API / Rest Assured.

 **Ideal Answer:**

“REST API components are:

- Request
- Headers
- Body
- Response
- Status code

 Using Rest Assured:

```
given().when().get("/users").then().statusCode(200);
```