**AUTOMATED TESTING Using SELENIUM**  
**(CORE JAVA + FRAMEWORKS with CUCUMBER)**

**Introduction**

* What is Automated Testing?
* Difference between Manual and Automated Testing
* Licensed Vs Open Source Automation Tools
* Overview of Selenium
* Differences between Selenium and other Tools

**Configuring Eclipse IDE**

* Installation of Java
* Installation of Eclipse IDE
* How to create new java project
* How to create a new java class
* Compiling and running java Class
* Analyzing the results of java program

**Data Types and Variables**

* Introduction to Java Programming
* Primitive and Non-Primitive Data types
* Types of Variable (Local, Instance and Static Variables)
* What is an Array?
* Type of Arrays
* Working with Single Dimensional and Multi-Dimensional Arrays

**Conditional Statements**

* If else condition
* Nested If Else Condition
* Switch case statement
* Examples for all the above conditionals

**Loop Statements**

* While loop
* Do while
* For loop
* For each loop
* Examples for all the above loops

**Classes and Objects**

* How to create Classes, Objects and Object References
* Working with Methods (instance, static)
* How to write user defined methods
* Method arguments call by value and call by reference

**Encapsulation**

* What is Package
* Access Modifiers (Private, default, protected and public)
* Encapsulation

**Inheritance**

* What is inheritance?
* Why to use inheritance?
* Single Level Inheritance, Multi-Level inheritance
* Inheritance (Relationship) Vs composition (Has a Relationship)
* Super keyword
* This keyword

**Polymorphism**

* What is polymorphism?
* Compile time Polymorphism
* Method overloading
* Constructor overloading
* Runtime Polymorphism
* Method Overriding
* Final keyword

**Interface and Abstract Class**

* How to define Interface
* How to implement Interface
* Multiple Inheritances (Through Interface)
* How to define Abstract Class
* Implements Vs extends
* Interface Vs Abstract class Vs. Concrete Class

**Exception Handling**

* What are exceptions and errors?
* Checked Exception or Compiletime Exception
* Unchecked Exception or Runtime Exception
* How to handle exceptions in the program?
* Using try, catch and finally blocks
* Throw Vs throws

**Collections**

* Overview of Collections API
* Array vs Collections
* List, set, map interfaces
* Working with elements of a collection
* Examples for all the above concepts

**Database connection (JDBC)**

* How to configure MySQL database
* How to configure with Eclipse
* Connection Interface Commands
* Statement Interface Commands
* ResultSet Interface Commands
* How to execute query

**Debug Java code / Scripts in Eclipse**

* Understanding Debug
* Using Breakpoints
* Verify the values during debug
* Using step over, step into

**Selenium Web Driver**

* Features and Limitations of Selenium Webdrive
* Configure Selenium with Eclipse IDE (Adding selenium Libraries)
* Configure Selenium with Chrome, Firefox Driver, IE, Edgebrowser
* Web Driver Interface
* Chrome Driver, Firefox Driver, Internet Explorer Driver, Edge Driver classes
* Browser navigation Commands
* Handling Cookies

**Locators**

* Object Identification
* Find Element and find Elements
* Different types of Locators
* HTML tags and DOM structure
* Identifying Objects using Xpath and cssSelectors
* How to use Regular Expressions in Xpath and CSSSelectors

**TextField, Checkbox, RadioButtons, Links and Buttons**

* WebElement Interface methods
* Handling TextField and TextArea
* Handling Checkbox’s
* Handling RadioButtons
* Handling Links and Buttons

**Dropdowns, Alerts, Frames**

* Handling dropdowns / listboxes
* Select Class methods
* Handling alerts
* Alert interface methods
* Handling Frames / IFrames
* TargetLocator interface methods

**Actions Class, WebTable, Calendar**

* Mouse Events
* Click, Doubleclick, contectClick, drag and drop, click and hold, release
* Keyboard Events
* How to scroll Page
* Handling Auto Suggestions
* Working with web Table Elements
* Extracting data from Web Tables
* Select data from calendar

**Takes Screenshot, JavaScript Executor**

* Capture screenshot
* How to perform actions using Java Script
* Scroll into view
* Highlight objects

**Synchronization and Windows**

* How to use implicit Wait, page Load Timeout
* How to use Explicit Wait
* How to implement WebDriverWait
* What are different Expected Conditions and how to use
* How to implement FluentWait
* How to handle multiple browsers or Tabs

**Cucumber Framework**

**Maven**

**Jenkins**

**Git Hub**

carrier Interview Questions:

1. Brief about yourself?
2. What is your framework structure?
3. What is the difference between absolute xpath and relative xpath?
4. // and /html/body/tags difference?
5. Open one site and write the xpath for it? //tagname[text()='']';
6. find duplicate values in an Array?

Cigniti Interview Questions:

1. Self Introduction
2. what is interface and abstract method with difference?
3. What is concrete Class?
4. What is implements keyword where we will use exactly?
5. what is difference between extends and interface?
6. What are access modifiers?
7. what is constructor where we will use exactly?
8. Did Java has Constructor overloading?
9. What is static keyword where we will use exactly?
10. What is Overriding concept in Java?
11. What is inheritance?
12. What are the challanges faced in your slenium project?
13. Write an xpath for amazon element?
14. What is stale element exception
15. write a java program for reverse a words only in a sentence?
16. what is Selenium Webdriver?
17. What is Appium Server?
18. What is robotframework?
19. What is your project?

@valuelabs interview questions  
1. black box testing and white box testing  
2. agile methodology  
3. sprint ceremony  
4. epic, story and task difference  
5. product backlog, sprint backlog diff  
6. regression, smoke, sanity  
7. test case template  
8. selenium-dropdown  
9. absolute xpath, relative xapth, / and // diff in xpath  
10. implicit wait, explicit wait, waits  
11. find element and find elements diff  
12. assertion  
13. final and finally diff  
14. string buffer  
15. inheritance  
16. polymorphism(runtime polymorphism and compile time polymorphism)  
17. deadlock

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api testing  
1. methods in api  
2. how we will send data  
3. what is https  
4. token id

ok !

@technogen  
1. Difference between epic and story  
2. Difference between agile and waterfall model  
3. bug life cycle  
4. epic and story diff  
5. regression and retesting diff  
6. emulator and simulator  
7. gettext method return type  
8. implicit and explicit wait  
9. Windows handling in selenium  
10. Staleelement reference exception  
11. hooks class in cucumber  
12. Assertions in java  
13. explain try and catch blocks  
14. how to switch from current branch to prviously pushed gerrit branch

Fusion first

1.Introduction.

2.API-testing

2a.Http methods.

b.httpURL.

c.http status codes.(200-500).

3.selenium difference betwwen2, 3 and 4

4.What is shadow root.

5.absolute xpath, relative xapth, / and // diff in xpath

6.Automation tools.

Project 1#:

Project Name               :    E-Bike(Matter(MMW))

Testing Approach        :     Automation with Robot Framework with Appium and ADB Commands

Role                                :    Automation Tester

Description:

Ebike project involving various clients such as Matter, Tork, Jindal, and PTG Bike (Eagle).  We are Providing both the Application Layer and Hardware to these clients. Specifically, we are currently focused on the Application Layer and checking the Inbuilt Launcher applications. we are actively checking the daily usage of various features to ensure the smooth functioning of the application. These features includes for Connectivity (Bluetooth, Wi-Fi, LTE, GPS, CAN (Controller Area Network)), Functionality (Phone book, Media, Maps (MapmyIndia), Sensors), System and Device Health(OTA (Over-The-Air updates), Booting,  USB, Display, Battery Percentage, Storage Information)

Responsibilities:

• Involved in complete analysis of the requirements and communicating with BA and the

• Onsite coordinator in getting the queries resolved.

• Documented Test Cases of different modules.

• Implementing Robot framework using Appium and ADB commands.

• Creating reusable components.

• Tracking Defects and Select Test cases for Re & Regression Testing.

• Analysing Test Results and Reporting Defects.

• Creating and enhancing Test Cases (Test Scripts) using Element locators.

• Finding the Bugs/Defects

Project 2#:

Project Name             :   General Motors Project

Testing Approach      :   Automation with Robot Framework with Appium and Cucumber Framework

Role                              :    Automation Tester

Description:

General Motors is a global automotive company, and they are involved in various projects related to automotive design, manufacturing, and technology. GM consistently works on developing new vehicles, improving existing models, and integrating advanced technologies into their vehicles. As part of that we working on the Device applications like Trailer, Settings, Connections, Radio applications, .etc., working these features in different devices like GMC, Chevy, FF2 and Cadillac.

Responsibilities:

• Involved in complete analysis of the requirements and communicating with BA and the

• Onsite coordinator in getting the queries resolved.

• Documented Test Cases of different modules.

• Implementing Robot framework using Appium.

• Creating reusable components.

• Tracking Defects and Select Test cases for Re & Regression Testing.

• Analysing Test Results and Reporting Defects.

• Creating and enhancing Test Cases (Test Scripts) using Element locators.

• Finding the Bugs/Defects