



Automation Testing

Syllabus

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Mr. Kunal Sir

Director of CJC EdTech by Kunal Sir.

Mr. Kunal Sonu, Director of **CJC EdTech** holds a Master's degree in Computer Applications & has over **15+ years** of experience in Java/J2EE technologies. After resigning from Syntel, he pursued a career in teaching to provide in-depth knowledge and guidance to aspiring professionals. **Mr. Sonu** has delivered lectures at renowned institutions such as **Sinhgad Institutes, JSPM Group, & MMCOE, Pune**. With a passion for education, he is dedicated to helping **students achieve success in their careers**.



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AUTOMATION TESTING

1. Introduction to Automation Testing

- ⚙ What is an Automation Testing?
- ⚙ Which Test Cases to Automate?
- ⚙ Different Automation tools.
- ⚙ Automation Challenges & Mitigations.

Automation
Testing



2. Introduction to Selenium

- ⚙ What is selenium?
- ⚙ History and various versions of selenium.
- ⚙ Advantages of using Selenium over other tools.
- ⚙ Selenium components.



3. Selenium Web Driver

- ⚙ What is a driver?
- ⚙ What is a Selenium Web Driver?
- ⚙ Automation Setup for Selenium Web Driver.
- ⚙ Configuration of Selenium Jar using Eclipse.
- ⚙ Web Driver Interface Methods.



4. HTML

- ⚙ HTML Basic.



4. Locators

- ⚙ Use of locators.
- ⚙ Different locators available in Selenium.

- ID
- Name
- Link Text
- Partial Link Text
- Class Name
- Tag Name
- Xpath
 - Absolute Xpath
 - Relative Xpath
 - Dynamic Xpath
- CSS



5. WebElement

- ⚙ Search Web Elements on web pages.
- ⚙ Web Element Methods.

6. Synchronizing Test Script with Wait

-  Implicit Wait.
-  Explicit Wait.
-  Fluent Wait.

7. Action Interface and Actions class

-  Introduction.
-  Use of Actions class.
-  Actions class methods with description.
-  Building a series of multiple actions.

8. Miscellaneous Selenium Scenarios

-  Capturing Screen shots.
-  Alert and Pop up handling.
-  Calendar handling.
-  Frames handling.
-  Cookies.
-  Why we handle Cookie in Selenium?
-  Cookies methods.
-  Multiple Window Handling.
-  Java Script injection.



9. Handling Web Table

-  What is Web Tables?
-  Extracting values from Web Tables.
-  Static and Dynamic Web Tables.

10. Excel sheet Operations

-  Introduction.
-  Read and Write excel sheet with .xls & .xlsx
-  Format By Using Apache.



11. TestNG

-  TestNG & TestNG features.
-  How to integrate TestNG with Eclipse.
-  TestNG Annotations.
-  Use of Data Provider Annotation.
-  Parameterization by using testing.xml file.
-  POM file Parameterization by using Data Provider.
-  TestNG Assertions.
-  TestNG Listeners.
-  TestNG Reporting.



12.Build Tools-Maven

13.Framework Designing

- What is a Framework?
- Different Types of Framework.
- How to Design a framework?

14.Properties File

15.Page Object Model

- Introduction.
- Advantages of POM.
- How to implement POM using Page Object-
-and Page Factory by using Selenium Web Driver.



16.Log 4j

17.Jenkins



- What is Jenkins and how to use it?
- Integration of Maven/TestNG/Jenkins/Selenium.

18.Auto IT

- Introduction.
- Download file using Auto IT in Selenium.
- Web Driver with example.

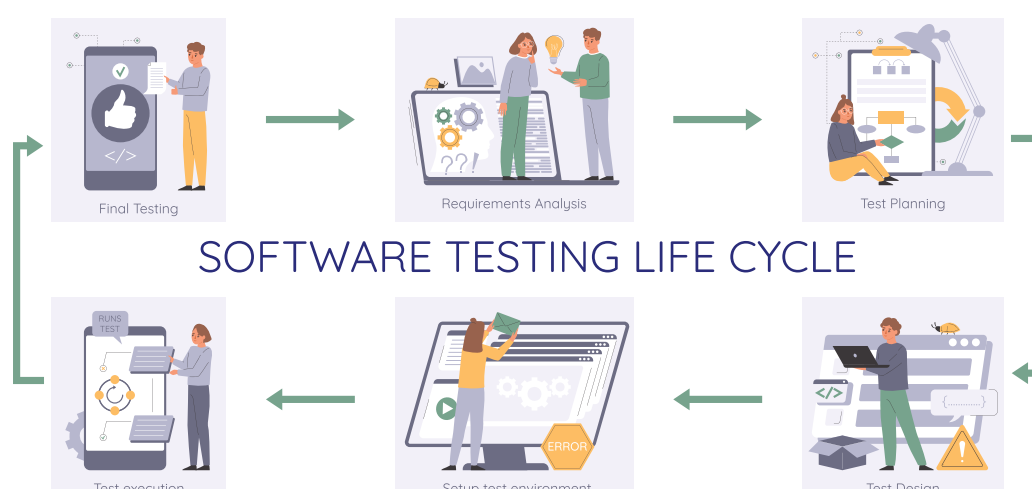
19.Behavior Driven Development (BDD)

20.Framework Using Cucumber



What is BDD?

- Use of Cucumber tool to implement BDD framework.
- Given, When, Then, And, But annotations and-
-usage in features class Writing a Step Definition.
- Writing Runner Class.
- Passing parameters in Step Functions.
- Cucumber Annotations.
- Data table in Cucumber and its implementation Pretty,
-Tags and Glue
- Generating Junit,



API TESTING

1. Introduction of API and Web Services:-

- What is API.
- What is API Testing.
- What is Web Services.
- Types of Web Services.
- HTTP Methods-GET/POST/PUT/patch/Delete.
- HTTP Status Response Code.



2. ARC (Advance Rest Client)

- 🖥️ Introduction.
- 🖥️ How to call Rest API in ARC.
- 🖥️ CRUD Operation with All HTTP method.

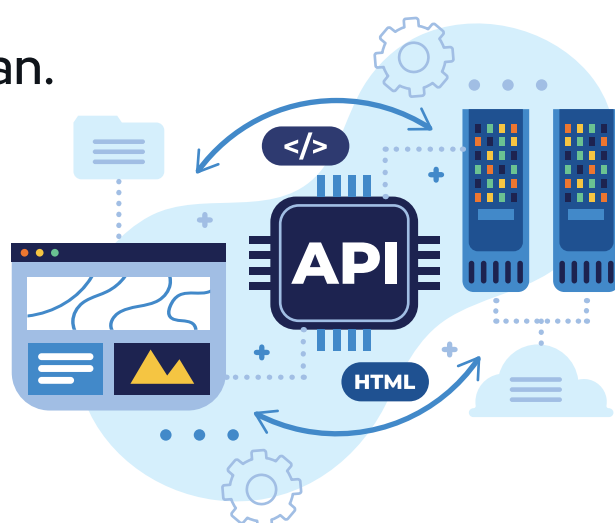


3. Rest Assured

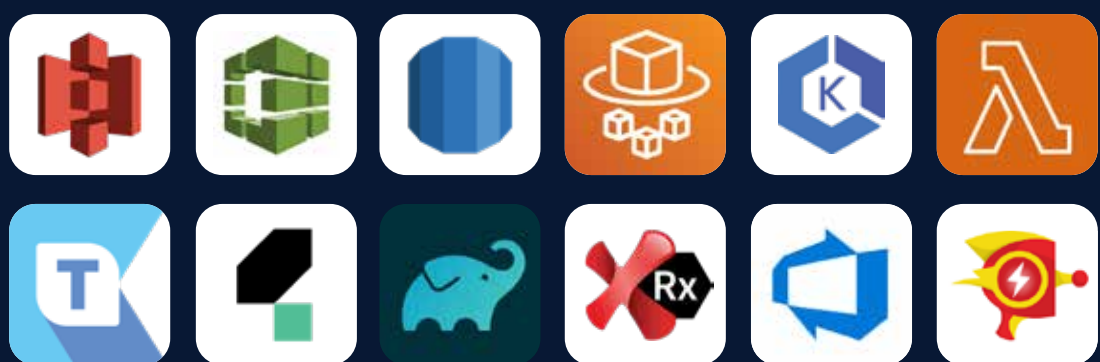
- Introduction.
- Rest Assured methods:-GET/POST/PUT/DELETE.
- Integration with TestNG.
- ASSEST in Rest Assured.
- Rest Assured Authentication Handle-Basic Auth.

4. Postman

- 🔪 Introduction.
- 🔪 How to call Rest API in Postman.
- 🔪 How to pass path parameter in Request.
- 🔪 How to set Headers in Postman.
- 🔪 How to pass JSON/XML Payload.
- 🔪 How to check response status code.
- 🔪 What is response header.
- 🔪 API History in Postman.
- 🔪 Generate HTML Test Report.
- 🔪 Create a collection from API Specification-
-or API Schema.
- 🔪 Test Script in postman.
- 🔪 Pre Request Script in postman.



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