

Rest API Testing (Automation)

Course Duration – 25 Hr

Rest Assured Setup for API Automation Testing

- Introduction on Test API's
- Setting up Test Project with RestAssured API's
- Build Rest API Automation Test to Add Place and validate Status codes

Validating the Rest API Responses

- Assertions on Json Response Body and Headers through Automated code
- Parsing the Json Response body using JsonPath class
- Integrating the Multiple API's with common Json response values
- Building End to End Automation using GET, POST and PUT Http Methods
- Importance of Junit/TestNG Assertions in validating the responses

Diving in Depth-Automating Rest API's

- Understanding Structure of Complex Nested Json and its array notations
- Json used in this Section with Queries to solve
- Retrieving the Json Array Size and its elements using JsonPath
- Iterating over every element of Json Array and accessing elements in it
- Retrieving Json Nodes on Condition logic using JsonPath
- Real Time example to solve Business logic through Json response

Handling Dynamic JSON Payloads with Parameterization

- Why Dynamic Json payloads are important to understand
- Introduction to Library API
- Rest Assured Test for Library API Add Book http method
- Sending parameters to payload from Test
- Understanding TestNg Data provider for parameterization
- Example on Parameterization of API Tests with multiple data sets
- How to handle with static json payloads

Rest Assured Automation for OAuth 2.0 Authoization code

- Building up Rest Assured Automation Test for the OAuth Project
- Integration Web UI Automation to generate Authorization code
- Formatting URL String to retrieve code using java methods
- How to deal with Client Credentials Grant type for OAuth flow

Cucumber BDD API Framework Development from Scratch-1

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- Creating Maven project with Cucumber Rest Assured Dependencies
- Building Cucumber Feature file for Rest Assured API Tests
- Building Test Runner and Step Definition files for Add Place API Feature Test
- Implementing Real code in Step Definition files with reusable components
- Running the Test in Cucumber Standards with necessary Configuration changes
- Building Utility Files and Implement Logging feature in Framework

- Implement Mechanism to drive Global property values from Properties file
- Data Driven Testing Mechanism for API Tests using Cucumber example feature
- Parameterize API Test with multiple Data sets using Cucumber Framework features
- What are Enum classes? How Framework can utilize the Enum concepts
- Removing Hardcoded resource details with Enum class Methods
- Build End to End Testcase with Add and Delete Place in Framework Standards
- Build End to End Testcase in Framework Standards
- Creating Additional Scenarios in Framework to reuse existing Step Definitions
- Importance of Cucumber Hooks in setting up Preconditions for API Tests
- Optimizing the Framework Tests with all necessary validations -
- Running the Complete Framework using Maven commands
- Generate Excellent Cucumber HTML reporting with additional Plugins

Cucumber BDD API Framework Development from Scratch-2

- Introduction to Jenkins CI tool
- Integrating the API Framework into Jenkins and triggering with New job setup
- Setting up Parameterized Jenkin Job for API Framework with multiple Tag