

## REST ASSURED CURRICULUM

### Introduction to REST API and where it is used in Project Architecture

- Understanding GET, POST, PUT DELETE Http Crud operations of API
- What are Path,Query Parameters & Headers in Rest API

### –Getting started with REST API Testing

- Introduction to POSTMAN and Google Maps API's
- Understand Add Place API and execute it through Postman
- Understand Get & Delete Place API using GET,Delete HTTP Methods using Postman
- Update Place API using PUT http method using Postman
- Google Maps POSTMAN Code Download

### –Rest Assured setup for API Automation

- 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