**API Testing using Karate Framework**

**Environment Setup**

1. Installing Java Development Kit
2. Setup of Postman
3. Eclipse Setup
4. Maven Setup
5. Setting up Test application

**Web Service Introduction**

1. What is REST service?
2. What is Request and Response?
3. CRUD operations
4. Request and Response format
5. Live example of API calls

**Maven Project Setup**

1. What are dependencies?
2. Maven project structure
3. Maven Lifecycle – POM.xml
4. Maven command line execution

**Karate Framework Setup**

1. Project setup for Karate
2. Karate Folder structure
3. BDD keyword and runner creation strategy

**Get Request**

1. Request with URL
2. Request with Path variable
3. Request with header for json and xml – Accept

**Assertions**

1. Using match
2. Using match !=
3. Using match contains
4. Using headers
5. Json Array matching
6. Schema validation
7. Fussy matcher
8. JSON Path

**Post Request**

1. Post request with def keyword
2. Post request from file JSON/XML
3. Multiple Headers
4. File Upload
5. Using Karate Object to find the ID (JSON Path)
6. Data Driven with Scenario Outline
7. Dynamic Scenario Outline

**PUT Request**

1. Simple Put Request
2. Call to another feature file
3. Call to another feature file with argument (‘#(variable)’, variable)
4. Creating Parallel runner

**Patch Request**

1. GET request with query parameter
2. Patch request with query Param

**Delete Request**

1. Simple Delete request
2. Passing the response from one request to another
3. Tags and Run with tags
4. How to ignore a scenario
5. Getting tag and feature file from system property

**Report Generation**

1. Cucumber Report Generation
2. Karate Report Generation
3. Report Verbosity

**Basic Authentication**

1. Hard Coded credentials
2. Using the Java Script file

**Different Environment**

1. Karate-config.js
2. Environment Switching

**CI/CD – Jenkins**

1. Jenkins Setup
2. Jenkins Pipeline Concept
3. Jenkins Multi branch pipeline