* Introduction to Rest Services
* Setting up the Sample Application
* Schema introduction and data creation from schema
* Using POSTMAN/SOAP UI to make (GET, POST, PUT, PATCH, DELETE , OPTIONS) requests.
* Setting up Advanced HTTP client
* Writing Tests scripts(GET, POST, PUT, PATCH, DELETE, OPTIONS)
* Logging Request and Response Data
* Validate JSON Response using JSON Path
* Validate XML Response using XML Path.
* Required libraries and uses (JAXB, Jackson, Hamcrest etc)
* Request Specification and Response Specification.
* File Handling using servlets.
* Types of authentication (Authentication in Web Services)
* Authentication in detail (Basic, JWT tokens, Oauth, Oauth2.0 etc)
* Why Authentication?
* Types of Authentication
* Basic Authentication
* JWT Tokens
* OAuth / OAuth 2.0
* Testing REST Web Services
* Testing REST Services (GET, POST, PUT, PATCH, DELETE, OPTIONS ) using SOAP UI/ Postman
* Writing Junit Test Cases for GET, POST, PUT, PATCH, DELETE, and OPTIONS request
* Logging Request & Response Data
* Validate JSON response using JSONPath
* Validate XML response using XMLPaht / XPaht and XSD