

## SOA(Web Services) Testing using SoapUI

### Chapter 1: Web Services Testing and SoapUI

- ✓ SOA and web services
- ✓ Simple Object Access Protocol
- ✓ Alternatives to SOAP
- ✓ Web Services Description language
- ✓ Message exchanging patterns
- ✓ SOAP Faults
- ✓ Approaches of testing web services
- ✓ The common challenges of web services testing
- ✓ What is SoapUI?
- ✓ Capabilities of SoapUI
- ✓ Installing SoapUI

### Chapter 2: First Steps with SoapUI and Projects

- ✓ Understanding the web services definition
- ✓ Creating a SoapUI project
- ✓ SOAP requests and responses
- ✓ Generating SOAP Faults

### Chapter 3 : Working with TestSuite

- ✓ Creating a TestSuite
- ✓ Adding Test Cases
- ✓ Running the TestSuite
- ✓ Adding test assertions

- ✓ Adding property values from a file
- ✓ Adding properties to SoapUI tests
- ✓ Transferring property values between TestSteps

### Chapter 4 : Web service Data Driven Testing with SoapUI

### Chapter 5: Web Service Simulation with SoapUI

- ✓ Mocking in software testing
- ✓ Mocking in web services testing
- ✓ Mock services with SoapUI

### Chapter 6: Advanced Functional Testing with SoapUI

- ✓ Introduction to web services extensions
- ✓ Testing the WS-Addressing with SoapUI
- ✓ Web service authentication
- ✓ Project level WS –Security configurations in SoapUI
- ✓ Testing asymmetric binding policy with SoapUI
- ✓ Validation WS-Security responses

### Chapter 7: REST Testing

- ✓ Introduction to REST
- ✓ Testing RESTful APIs using SoapUI
- ✓ REST Services in SoapUI
- ✓ REST parameters

- ✓ Functional testing of REST services
- ✓ WADL

## Chapter 8: Testing Database with SoapUI

- ✓ Setting up SoapUI to connect to the database
- ✓ JDBC Request TestStep
- ✓ JDBC test assertions

## Chapter 9: Extending SoapUI with Scripting

- ✓ Introduction to Groovy scripting language
- ✓ Groovy scripting in SoapUI
- ✓ SoapUI Model Items
- ✓ Request and response handling using Scripts