

uplatz.com API TESTING

API Testing – course curriculum

1. Introduction to JAVA basics

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- Objects and Classes
- Control Structure
- o Conditional Statements
- OOPs Concepts in Java
- String handling
- 2. Web Service Basics
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 - What is web service?
 - Web service Example
 - Different types of Services: SOAP & REST

3. Setup Environment

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- Setup SOAPUI Free Version
- Setup SOAPUI Pro Version
- Free SOAP Web services
- o Difference between SOAP and Rest Services



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- Advantage of Rest Services over SOAP Services \circ
- UDDI 0

4. Jump into SOAP UI / ReadyAPI

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- What is SOAPUI 0
- SOAPUI work hierarchy
- First SOAP Test Case/SOAP Request test step
- What is ReadvAPI 0
- Understanding of ReddyAPI test Steps

5. Properties At Different SOAPUI Level

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- Global properties \circ
- Project level property
- TestSuite level property
- TestCase Level Property

6. Test steps in SOAPUI

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- Delay Test Step
- Groovy Script test step
- Property test step
- Manual Test Step
- Run Test Case Step
- Assertion Test step

7. Parameterization / Data driver Test Cases

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- Data Source-Data source Loop using Grid
- Data Source looping using text file
- Data Source looping using excel file
- Data Sink Step
- Data source Loop using Data sink
- 8. SOAPUI Utilities
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 - Extent Reporting
 - Data-Driven Framework
 - PDF Reporting
- 9. Reporting in SOAPUI/Pro

10. Command Prompt Execution

- - Run Functional suite from the command prompt
- \circ Run Load test suite from the command prompt 0

11. Groovy Programming-Basic to Advance

- Groovy coding environment setup
- Class and objects 0



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- Groovy Basics
- Groovy Programming KickOFF
- Programming Exercise-Number Swapping
- Groovy Condition Handling
- Programming Exercise-Check Even Odd
- Groovy: Arrays
- Groovy: For Loop
- Groovy: While Loop
- Groovy: For Each Loop
- Programming Exercise: Prime Number
- Programming Exercise: Fibonnaci series
- Groovy String Handling

12. XPATH and XQUERY Assertion

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- XPATH Assertion
- XQuery Assertion in soapUI

13. Basics of Restful Services

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- What is Web service
- Request and Response
- What is Rest
- HTTP Methods
- Request and Response Methods

14. Using Postman for Testing

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- o Deploying the Test Application in Tomcat
- Application under Test
- Testing GET endpoint

15. Query Parameter

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- Handling the query parameter from code

16. Introduction to Rest Assured

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- Introduction to course material
- Setting up the Rest Assured Framework
- Rest assured with BDD Framework
- Coding style
- o Understanding of Rest Assured -Behaviour Driven Framework

17. HTTP Get Method using Rest Assured

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- Writing GET Method
- Handling Response
- Handling and validating response status code
- Setup using rest assured environment variable



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- o Creating GET Request with custom headers
- o Validating Response Content
- Validating using XMLpath class
- Validating using JsonPath Class
- Handling query parameters

18. HTTP Put and Delete method using Rest Assured

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- Writing the PUT method
- Writing Delete Method

19. Working with Twitter API

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- o Introduction and creating an app for Twitter
- POST-Status-Update on Twitter
- Get the list of followers
- Deleting status update from Twitter wall

of accounts