



Status: Passed

Worksheet No. - 3

Student Name: Rahul Saxena **UID:** 24MCI10204 **Branch:** MCA (AI-ML)

Section/Group: 3-B **Date of Performance:** 18-03-2025 **Semester:** II

Subject Name: Software Testing **Subject Code: 24CAH-654**

Aim/Overview of the practical:

Demonstrate the process of testing SOAP APIs using SoapUI, a widely used tool for functional, regression, and load testing of web services.

Objective:

The objective of this demonstration is to show how to test SOAP APIs using SoapUI, a popular tool for functional, regression, and load testing of web services. SoapUI allows you to create, execute, and automate tests for SOAP web services, making it easier to validate the correctness, performance, and security of SOAP APIs.

Input/Apparatus Used: SoapUI 5.8.0, WSDL URL.

WSDL (Web Services Description Language) URL:

"http://www.oorsprong.org/websamples.countryinfo/CountryInfoService.wso?wsdl"

Procedure/Algorithm/Code:

Test Case 001: LanguageName

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</p> xmlns:web="http://www.oorsprong.org/websamples.countryinfo"> <soapenv:Header/>

<soapenv:Body>

<web:LanguageName>

<web:sISOCode>fr</web:sISOCode>





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</web:LanguageName>

</soapenv:Body>

Test Case 002: List of continenetsBycode

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://www.oorsprong.org/websamples.countryinfo">

<soapenv:Header/>

<soapenv:Body>

<web:ListOfContinentsByCode/>

</soapenv:Body>

</soapenv:Envelope>

Test Case 003: GetCountryFlag

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://www.oorsprong.org/websamples.countryinfo">

<soapenv:Header/>

<soapenv:Body>

<web:CountryFlag>

<web:sCountryISOCode>IN</web:sCountryISOCode>

</web:CountryFlag>

</soapenv:Body>

</soapenv:Envelope>

Test Case 004: GetCurrencyInfo

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:web="http://www.oorsprong.org/websamples.countryinfo">





<soapenv:Header/>

<soapenv:Body>

<web:CurrencyName>

<web:sCurrencyISOCode>EUR</web:sCurrencyISOCode>

</web:CurrencyName>

</soapenv:Body>

</soapenv:Envelope>

Output:



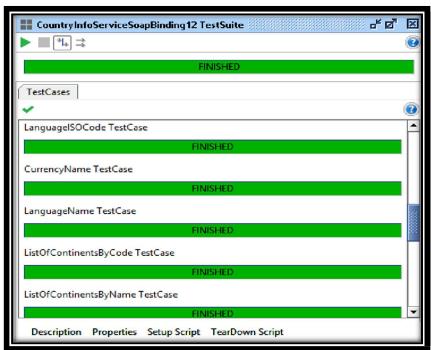


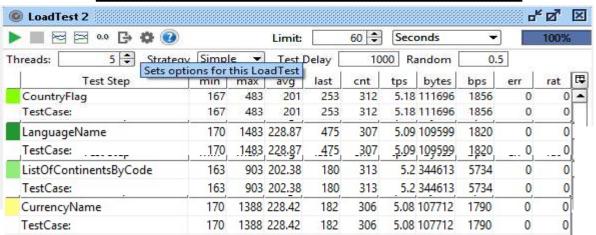


⇒ **Failed Testcase:** When we passing some relevant language in **getLanguageName** Testcase, then it returned error.



⇒ Test Suite's and Load Test result:

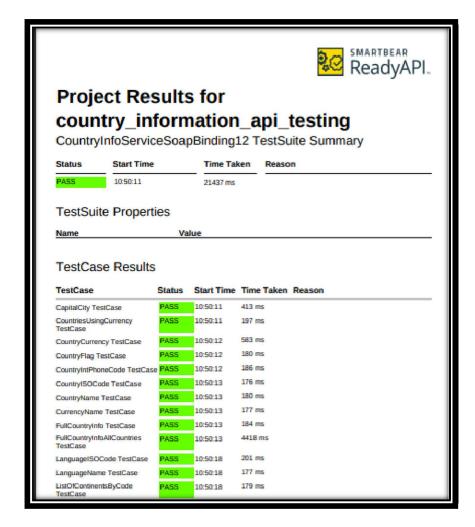








⇒ Test_Report:



Learning outcomes (What I have learnt):

- 1. Learned the structure of SOAP web services and how they communicate using XML-based messages.
- 2. Understood the role of WSDL in defining the API structure and operations.
- 3. Explored how to create test projects, send requests, and validate responses in SoapUI.