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School of Computer Science Engineering and Information Systems

[SCORE]

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SWE2005-SOFTWARE TESTING

SLOT: E1+TE1

A Composite Study on **SoapUI** Using **Placywear** Website.

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1.INTRODUCTION:

Placywear is a leading fashion website catering to a diverse user base. It basically focusses on the Cloths for various categories of users such as Men, Women, Kids and Couple Materials. As the website evolves with new features and updates, it becomes essential to conduct thorough testing to maintain its quality standards and user satisfaction. Software testing plays a crucial role in identifying and rectifying defects, ensuring a seamless user experience.

2.ABSTRACT:

The Placywear website is a prominent online platform for fashion enthusiasts, requires rigorous testing to ensure its functionality, reliability, and performance. This review explores the integration of SoapUI, a robust API testing tool, in the testing process of the Placywear website.

3.PLACYWEAR WEBSITE:

Testing the Placywear website in software testing is crucial to ensure that it meets the quality standards expected by the users. The purpose of testing is to identify and fix any defects or issues that may affect the website's performance, usability, security, compatibility and accessibility. By testing the website, software testers can ensure that if functions correctly, provides a seamless shopping experience, and protects the user's personal and financial information. Additionally, testing helps to enhance the website's credibility, reputation and profitability by reducing the risk of errors, customer complaints and business losses. Therefore, software testing plays a significant role in ensuring the success and sustainability of the Placywear website.

4.SELECTION OF TOOL:

4.1. SoapUI OVERVIEW:

SoapUI is a versatile tool widely used for testing API's.

It provides a user-friendly interface for creating, executing, and analyzing API tests.

With features such as request generation, assertion validation, and performance testing capabilities, SoapUI offers a comprehensive solution for testing API endpoints.

SoapUI can do Functional Testing, Performance Testing, Interoperability Testing, Regression Testing and much more.

SoapUI is Java based, so it runs on most operating systems.

4.2. INTEGRATION OF SoapUI IN PLACYWEAR WEBSITE:

The integration of SoapUI in the testing process of the Placywear website involves several key steps.

Firstly, API endpoints are identified and documented to establish testing scenarios.

SoapUI is then utilized to create testcases to validate various aspects such as data accuracy, response times, and error handling.

Test suites are organized to cover different functionalities of the website, ensuring thorough test coverage.

4.3. IMPORTANCE OF THE TOOL:

API Testing: SoapUI specializes in API testing, allowing testers to verify the functionality, reliability, and performance of APIs. Given the increasing reliance on APIs for software integration, ensuring their proper functioning is critical.

Functional Testing: It enables comprehensive functional testing by facilitating the creation and execution of test cases, validating API responses against expected results, and ensuring that APIs behave as intended.

Automation: SoapUI test automation, streamlining the testing process by allowing the creation of test suites and the execution of tests automatically. This capability is vital for continuous integration & delivery pipelines, ensuring faster feedback cycles & improved software quality.

Load Testing: With SoapUI, testers can conduct load tests to evaluate an API's performance under various load conditions. Identifying performance bottlenecks and scalability issues early in the development lifecycle can prevent costly failures in production.

Security Testing: SoapUI facilitates security testing by enabling testers to validate authentication mechanisms, authorization policies, and data encryption techniques implemented within APIs.

Integration and Development Workflow: SoapUI integrates seamlessly with other development and testing tools such as Jenkins, Maven, and Jira facilitating collaboration between development, testing, and operations teams.

4.4. UNIQUE FEATURES OF SoapUI TOOL OVER OTHER TOOLS:

Specialized as API's: SoapUI is specifically designed for testing APIs and web services, providing specialized functionalities and tools tailored to API testing needs.

Comprehensive Protocol Support: It supports a wide range of protocols including SOAP, REST, HTTP, JMS, AMF, and JDBC, making it versatile for testing different types of APIs and services.

Intuitive User Interface: SoapUI offers an intuitive and user-friendly interface that simplifies the process of creating, executing, and analyzing test case, making it accessible to both beginners and experienced testers.

Data-Driven Testing: It supports data-driven testing, allowing testers to parameterize their tests and use external data sources such as Excel files, databases, or CSV files to drive test execution with different sets of data.

Assertions and Validations: SoapUI provides a wide range of assertions and validation options to verify API responses, including XPath, JSONPath, Schema compliance, Status Code, Content and more, ensuring thorough validation of API behavior.

Mocking and Virtualization: It offers built-in support for mocking and virtualization, allowing testers to simulate API's and services that may not be available during testing, enabling teams to work in parallel and reduce dependencies.

Extensibility: SoapUI is highly extensible and Customizable, with support for scripting languages like Groovy and integration with third-party tools and plugins, enabling users to tailor the tool to their specific requirements.

Comprehensive Reporting: It generates detailed and customizable test reports with metrics, logs, and statistics, facilitating clear communication and analysis of test results.

These unique features make SoapUI a preferred choice for API testing among developers, testers, and QA professionals.

5. BENEFITS AND OUTCOMES:

The adoption of SoapUI in testing Placywear yields numerous benefits.

Firstly, it enhances the efficiency of the testing process by automating repetitive tasks and facilitating batch testing.

Secondly, SoapUI's intuitive interface enables testers to quickly create and execute testcases, resulting in faster test cycles.

Additionally, SoapUI's robust reporting features provide comprehensive insights into test results, aiding in identifying and resolving issues promptly.

Overall, SoapUI contributes to improving the quality and reliability of the Placywear website, ultimately enhancing user satisfaction.

6. MANUAL TESTCASES:

TESTCASE ID	TEST ITEM	DESCRIPTION	STEPS TO EXECUTE	TEST INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT	RESULT	ERROR MESSAGE	ACTION TO BE TAKEN
TC_0001	Email Address textfield	when email Address is not valid	1.Enter Email Address 2.Press Enter	Prabha@gamil.com	Error Message	Error Message	PASSED	Enter a valid Mail ID	NONE
TC_0002	Email Address textfield	when email Address is valid	1.Enter Email Address 2.Press Enter	abcd@gmail.com	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0003	Email Address textfield	when email Address not exist	1.Enter Email Address 2.Press Enter	ea@gmail.com	Error Message	Error Message	PASSED	Mail ID not Exist	NONE
TC_0004	Email Address textfield	when email Address is not entered	1.Enter password 2.Press Enter	123Abc-1	Error Message	Error Message	PASSED	Enter a Mail ID	NONE
TC_0005	Password textfield	when the password is not entered	1.Enter email Address 2.Press Enter	abc@gamil.com	Error Message	Error Message	PASSED	Enter the password	NONE
TC_0006	Password textfield	password should have maximum of 16	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com 123Abc-1	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0007	Password textfield	password should have minimum of 6	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com 123Ab	Error Message	Error Message	PASSED	Password should contain minimum 6	NONE
TC_0008	Password textfield	when passwoed doesn't contain Uppercase	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com 123a-b	Error Message	Error Message	PASSED	Password should contain uppercase	NONE
TC_0010	Password textfield	when passwoed doesn't contain Lowercase	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com 123A-B	Error Message	Error Message	PASSED	Password should contain lowercase	NONE
TC_0011	Password textfield	when passwoed doesn't contain special symbol	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com 123Ab	Error Message	Error Message	PASSED	Password should contain Special Symbol	NONE
TC_0012	Password textfield	when passwoed doesn't contain numbers	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com ABabc-a	Error Message	Error Message	PASSED	Password should contain number	NONE
TC_0013	Password textfield	when password exceeds the limit	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com ABabc-a1234*^d!@!	Error Message	Error Message	PASSED	Password should not exceed 16 character	NONE
TC_0014	Password textfield	when password is less than the limit	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com Aab@!	Error Message	Error Message	PASSED	Password should not less than 6 character	NONE
TC_0015	Password textfield	when password is entered correctly	1.Enter Email Address 2.Enter Password 3.Press Enter	abc@gmail.com Abc(1-2)	Next Textfield	Next Textfield	PASSED	None	NONE
TC_0016	Register Button	when email Address and password are given correctly	1.Enter Email Address 2.Enter Password 3.Press Register Button	abc@gmail.com Abc(1-2)	Next Textfield	Next Textfield	PASSED	None	NONE
TC_0017	Register Button	when email Address is given and password is not given	1.Enter Email Address 2.Enter Password 3.Press Register Button	abc@gmail.com	Error Message	Error Message	PASSED	Enter Password	NONE
TC_0018	Register Button	when the email address is not existing	1.Enter Email Address 2.Enter Password 3.Press Register Button	afdfg@gmail.com Abc(1-2)	Error Message	Error Message	PASSED	Enter a valid Email ID	NONE
TC_0019	Username textfield	when username was not entered	1.Enter Password 2.Press Enter	123Abc-1	Error Message	Error Message	PASSED	Enter Username	NONE
TC_0020	Username textfield	when username starts with space	1.Enter Password 2.Press Enter	abc@gmail.com 123Abc-1	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0021	Username textfield	when username starts with numbers	1.Enter Password 2.Press Enter	56abc@gmail.com 123Abc-1	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0022	Username textfield	when username starts with symbols	1.Enter Password 2.Press Enter	#abc@gmail.com 123Abc-1	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0023	Username textfield	when username is not valid	1.Enter Password 2.Press Enter	afdfg@gmail.com Abc(1-2)	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0024	LPassword textfield	when the password is not entered	1.Enter username 2.Press Enter	abc@gmail.com	Error Message	Error Message	PASSED	Enter Password	NONE
TC_0025	LPassword textfield	password should have maximum of 16	1.Enter password 2.Press Enter	abc@gmail.com 123Abc-1	Next Textfield	Next Textfield	PASSED	none	NONE

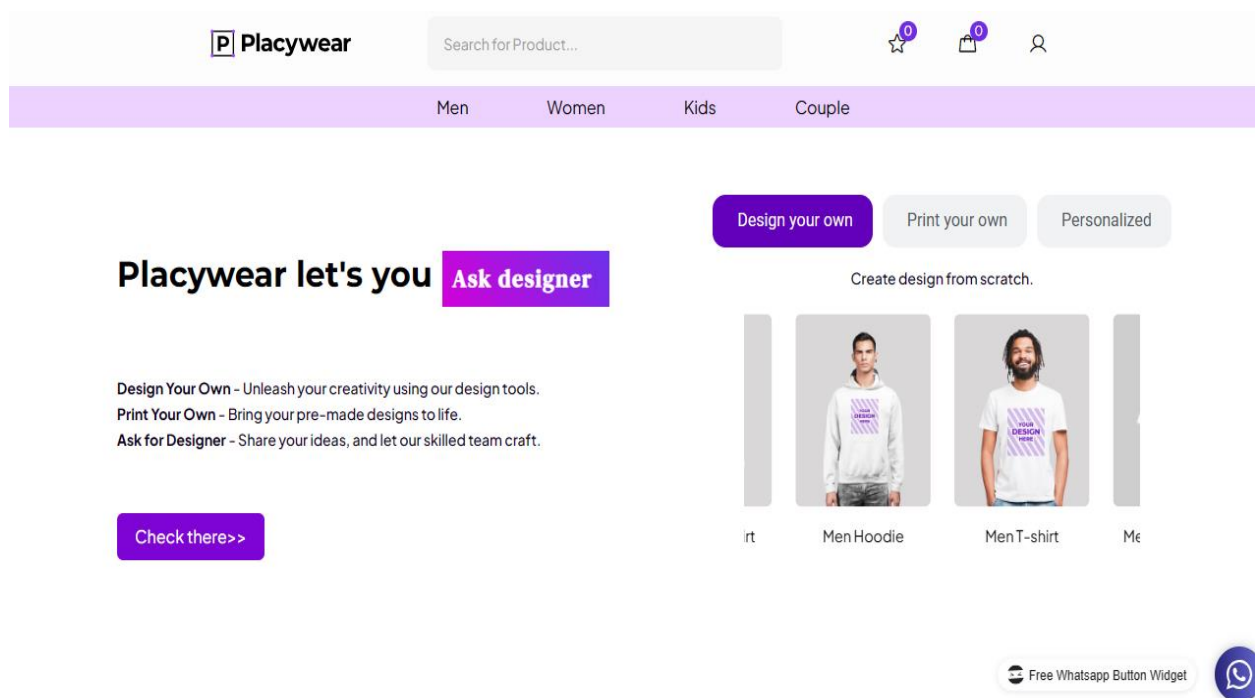
TC_0035	LPassword textfield	when password is not matched with registered password	1.Enter password 2.Press Enter	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Enter a valid Password	NONE
TC_0036	Login Button	when username and password are entered correctly	1.Enter username 2.Enter password 3.Press Login Button	abc@gmail.com Abc-011	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0037	Login Button	when username and password are not entered	1.Enter username 2.Enter password 3.Press Login Button	None	Error Message	Error Message	PASSED	Enter a Username and Password	NONE
TC_0038	Login Button	when username is entered and password is not entered	1.Enter username 2.Enter password 3.Press Login Button	abc@gmail.com Abc-011	Error Message	Error Message	PASSED	Enter Password	NONE
TC_0039	Login Button	when username is not valid	1.Enter username 2.Enter password 3.Press Login Button	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0040	Login Button	when username is not matched with password	1.Enter username 2.Enter password 3.Press Login Button	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Password Not Matched	NONE
TC_0041	Home Button	when home button is pressed next frame should be displayed	1.Press Home Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0042	Home Button	when home button is pressed and next frame is not displayed	1.Press Home Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0043	Categories Button	when category button is pressed next frame should be displayed	1.Press Category Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0026	LPassword textfield	password should have minimum of 6	1.Enter password 2.Press Enter	abc@gmail.com 123Abc-1	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0027	LPassword textfield	when passwoed doesn't contain Uppercase	1.Enter password 2.Press Enter	abc@gmail.com 123abc-1	Error Message	Error Message	PASSED	Password should contain Uppercase	NONE
TC_0028	LPassword textfield	when passwoed doesn't contain Lowercase	1.Enter password 2.Press Enter	abc@gmail.com ABC-011	Error Message	Error Message	PASSED	Password should contain Lowercase	NONE
TC_0029	LPassword textfield	when passwoed doesn't contain special symbol	1.Enter password 2.Press Enter	abc@gmail.com Aabc1d	Error Message	Error Message	PASSED	Password should contain Special Symbol	NONE
TC_0030	LPassword textfield	when passwoed doesn't contain numbers	1.Enter password 2.Press Enter	abc@gmail.com Aabc-d	Error Message	Error Message	PASSED	Password should contain Number	NONE
TC_0031	LPassword textfield	when password exceeds the limit	1.Enter password 2.Press Enter	afdfg@gmail.com Abc(123-2678)ertyA	Error Message	Error Message	PASSED	Password should contain maximum 16	NONE
TC_0032	LPassword textfield	when password is less than the limit	1.Enter password 2.Press Enter	abc@gmail.com 1abc-	Error Message	Error Message	PASSED	Password should not less than 6	NONE
TC_0033	LPassword textfield	when password is entered correctly	1.Enter password 2.Press Enter	afdfg@gmail.com Abc(1-2)	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0034	LPassword textfield	when password is matched with registered password	1.Enter password 2.Press Enter	abc@gmail.com Abc-011	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0035	LPassword textfield	when password is not matched with registered password	1.Enter password 2.Press Enter	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Enter a valid Password	NONE
TC_0036	Login Button	when username and password are entered correctly	1.Enter username 2.Enter password 3.Press Login Button	abc@gmail.com Abc-011	Next Textfield	Next Textfield	PASSED	none	NONE
TC_0037	Login Button	when username and password are not entered	1.Enter username 2.Enter password 3.Press Login Button	None	Error Message	Error Message	PASSED	Enter a Username and Password	NONE
TC_0038	Login Button	when username is entered and password is not entered	1.Enter username 2.Enter password 3.Press Login Button	abc@gmail.com Abc-011	Error Message	Error Message	PASSED	Enter Password	NONE
TC_0039	Login Button	when username is not valid	1.Enter username 2.Enter password 3.Press Login Button	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Enter a valid Username	NONE
TC_0040	Login Button	when username is not matched with password	1.Enter username 2.Enter password 3.Press Login Button	afdfg@gmail.com Abc(123-ertyA	Error Message	Error Message	PASSED	Password Not Matched	NONE
TC_0041	Home Button	when home button is pressed next frame should be displayed	1.Press Home Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0042	Home Button	when home button is pressed and next frame is not displayed	1.Press Home Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0043	Categories Button	when category button is pressed next frame should be displayed	1.Press Category Button	None	Next Frame	Next Frame	PASSED	none	NONE

TC_0044	Categories Button	when category button is pressed and next frame is not displayed	1.Press Category Button	None	Next Frame	none	FAILED	none	Report To The Developer
TC_0045	Account Button	when Account button is pressed next frame should be displayed	1.Press Account Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0046	Account Button	when Account button is pressed and next frame is not displayed	1.Press Account Button	None	Next Frame	none	FAILED	none	Report To The Developer
TC_0047	Whatsapp Button	when Whatsapp button is pressed whatsapp page should be displayed	1.Press Whatsapp Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0049	Whatsapp Button	when Whatsapp button is pressed and whatsapp page is not displayed	1.Press Whatsapp Button	None	Next Frame	none	FAILED	none	Report To The Developer
TC_0050	Men Button	when Men button is pressed it should scroll to the mens section	1.Press Men Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0051	Men Button	when Men button is pressed and not scrolled to the mens section	1.Press Men Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0052	Women Button	when Women button is pressed should scroll to the womens section	1.Press women Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0053	Women Button	when Women button is pressed and not scrolled to the womens section	1.Press women Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0054	Kids Button	when Kids button is pressed next frame should be displayed	1.Press Kids Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0055	Kids Button	when Kids button is pressed and next frame is not displayed	1.Press Kids Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0056	Couple Button	when Couple button is pressed next frame should be displayed	1.Press Couple Button	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0057	Couple Button	when Couple button is pressed and next frame is not displayed	1.Press Couple Button	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0058	Wishlist Menu	when Wishlist menu is pressed wishlist frame should be displayed	1.Press Wishlist Menu	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0059	Wishlist Menu	when Wishlist menu is pressed and wishlist frame is not displayed	1.Press Wishlist Menu	None	Next Frame	None	FAILED	none	NONE
TC_0060	Cart Menu	when cart menu is pressed cart frame should be displayed	1.Press Cart Menu	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0061	Cart Menu	when cart menu is pressed and cart frame is not displayed	1.Press Cart Menu	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0062	Cart Menu	when cart menu is pressed and the cart is empty	1.Press Cart Menu	None	Error Message	Error Message	PASSED	Cart is Empty	NONE
TC_0064	Account Menu	when account Menu is pressed and menu item is not Displayed	1.Press Account Menu	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0065	Expand Menu	when Expand menu is pressed it should list the categories	1.Press Expand Menu	None	Next Frame	Next Frame	PASSED	none	NONE
TC_0066	Expand Menu	when Expand menu is pressed and it does not list the categories	1.Press Expand Menu	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0067	Men menuitem	when men menuitem is pressed it should show the submenu item	1.Press Men Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0068	Men menuitem	when men menuitem is pressed it should show the submenu item	1.Press Men Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0069	Women menuitem	when women menuitem is pressed it should show the submenu item	1.Press women Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0070	Women menuitem	when women menuitem is pressed and when the submenu item is not shown	1.Press women Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0071	Kids menuitem	when Kids menuitem is pressed it should show the submenu item	1.Press Kids Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0072	Kids menuitem	when Kids menuitem is pressed and when the submenu item is not shown	1.Press Kids Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer

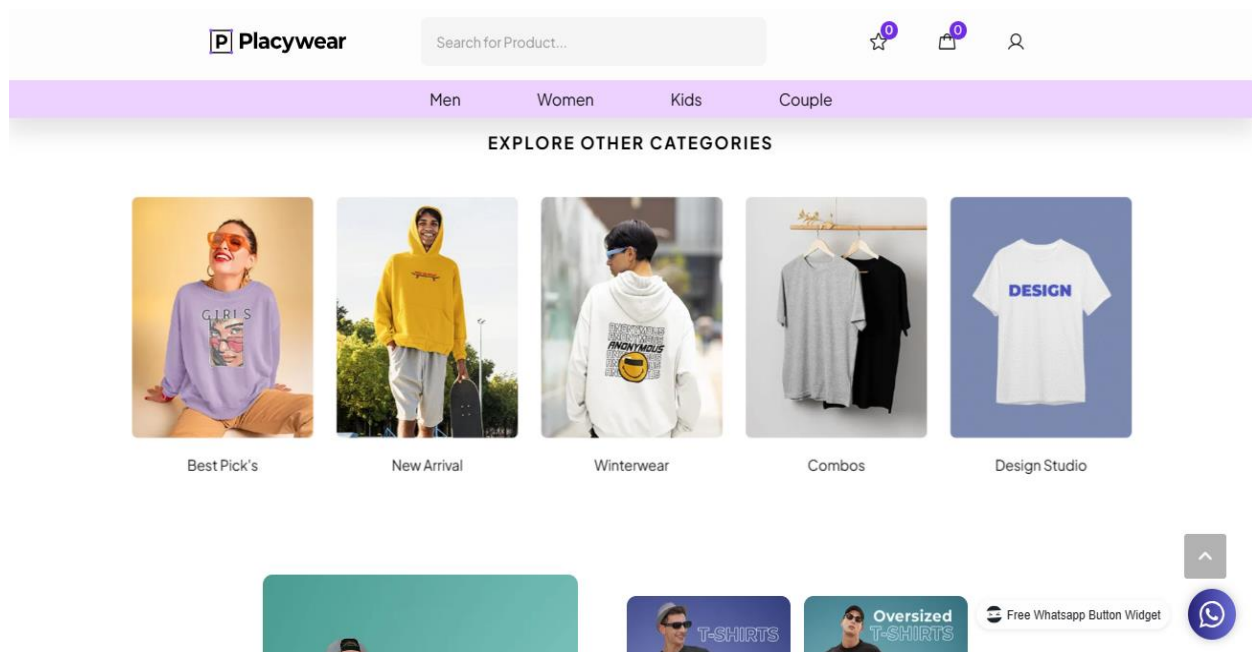
TC_0069	Women menuitem	when women menuitem is pressed it should show the submenu item	1.Press women Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0070	Women menuitem	when women menuitem is pressed and when the submenu item is not shown	1.Press women Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0071	Kids menuitem	when Kids menuitem is pressed it should show the submenu item	1.Press Kids Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0072	Kids menuitem	when Kids menuitem is pressed and when the submenu item is not shown	1.Press Kids Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0073	Couple Matching menuitem	when couple Matching menuitem is pressed it should show the submenu item	1.Press Couple Matching Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0074	Couple Matching menuitem	when couple Matching menuitem is pressed and when the submenu item is not shown	1.Press Couple Matching Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer
TC_0075	Our Specials menuitem	when Specials menuitem is pressed it should show the submenu item	1.Press Our Specials Menuitem	None	Next Frame	Next Frame	PASSED	none	None
TC_0076	Our Specials menuitem	when Specials menuitem is pressed and when the submenu item is not shown	1.Press Our Specials Menuitem	None	Next Frame	None	FAILED	none	Report To The Developer

7. SCREENSHOT OF THE WEBSITE:

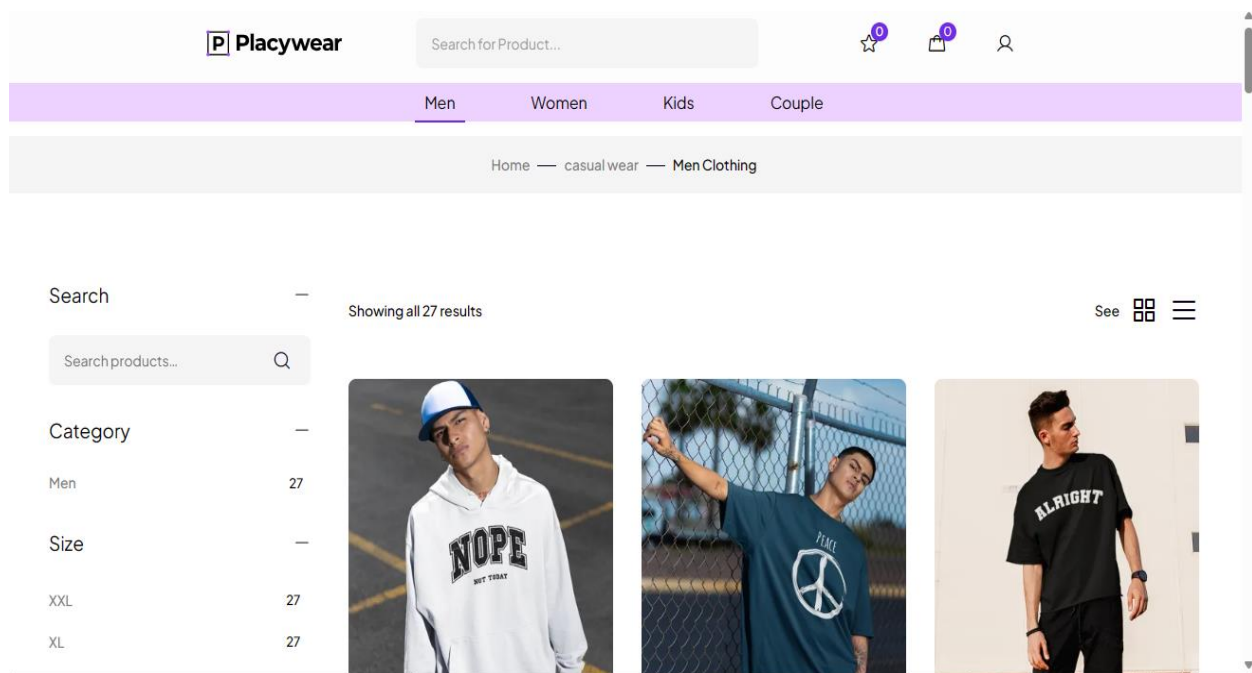
7.1. Overview of Placywear:



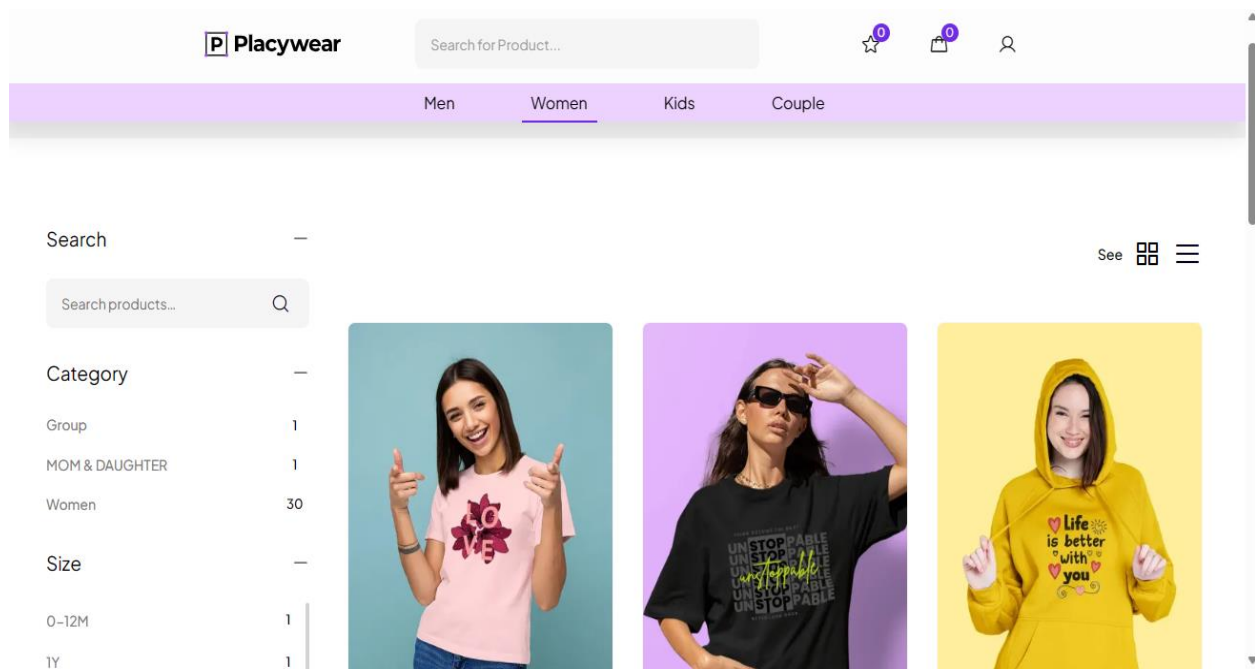
7.2. Categories:



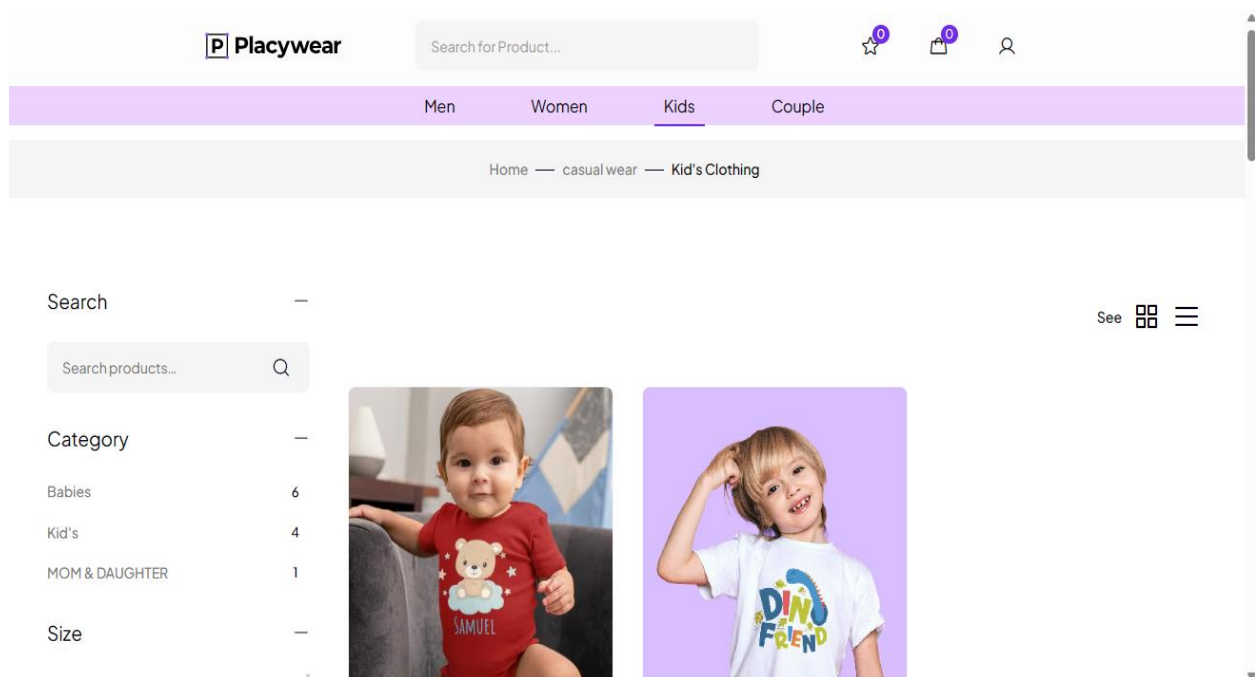
7.3. Men's Section:



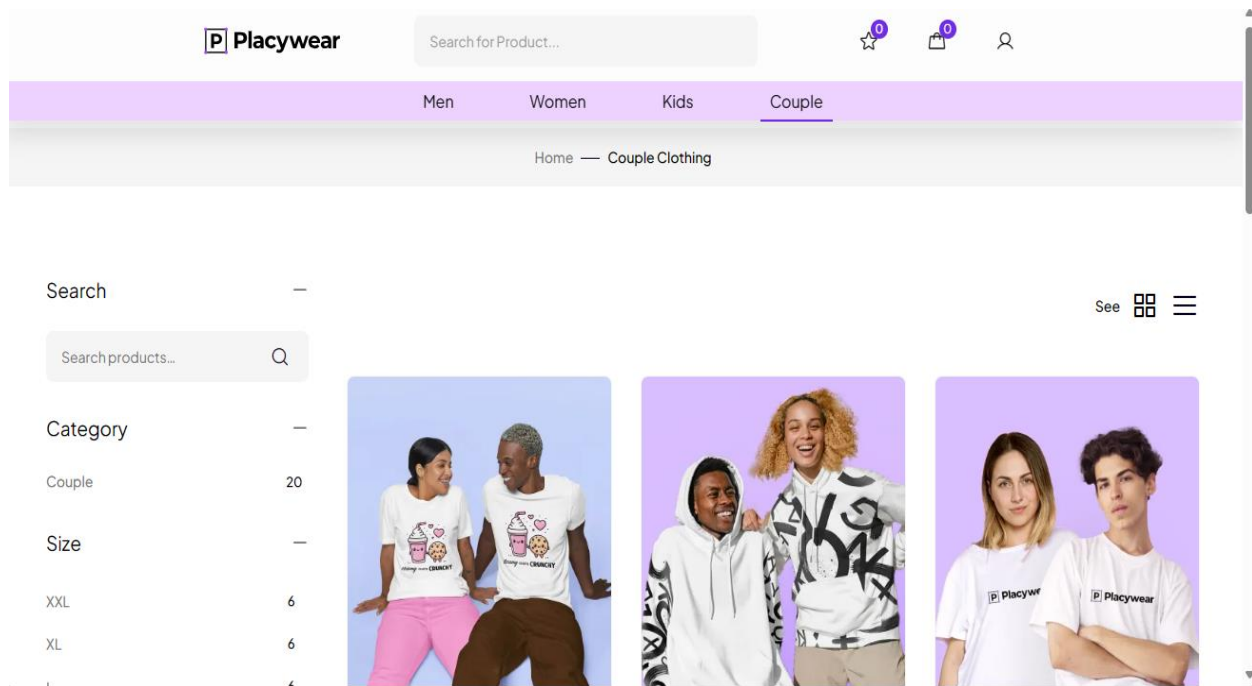
7.4. Women's Section:



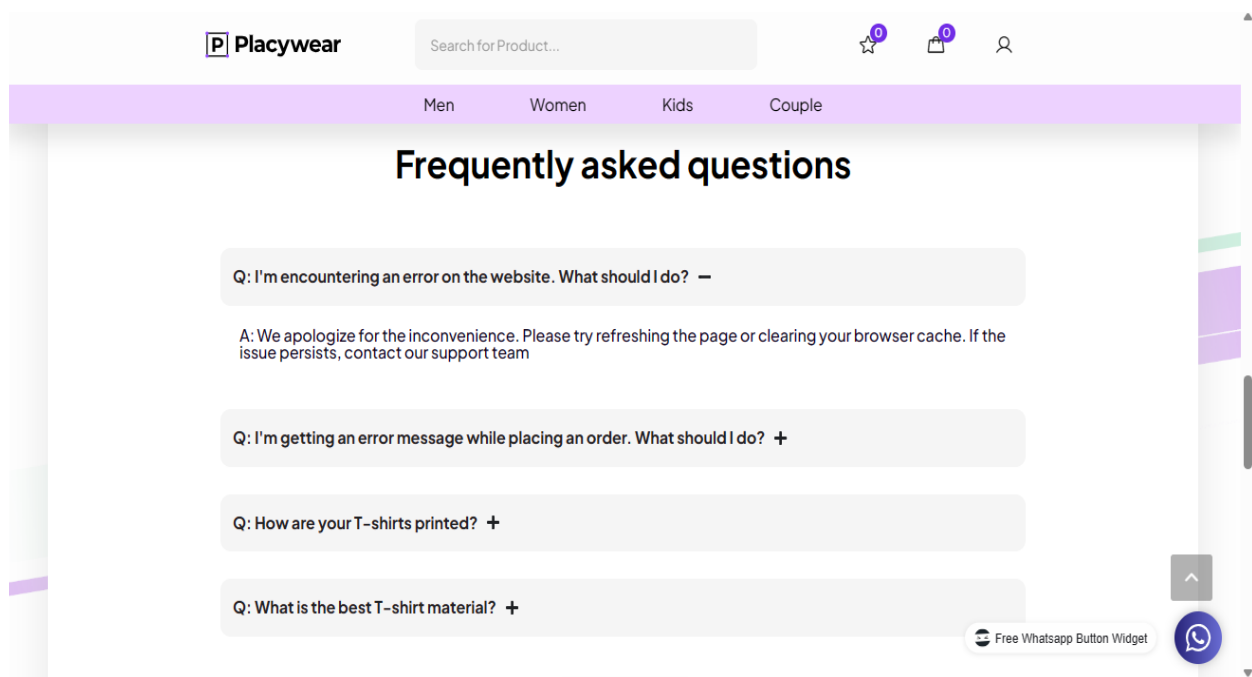
7.5. Child Section:



7.6. Couple Section:



7.7. End of the Website:



7.8. Terms and Condition:

Placywear

Search for Product...

☆0

🛒0

👤

MenWomenKidsCouple

UPI

VISA

RuPay

MasterCard

Payment processing partner

Razorpay

Placywear

contact@placywear.com

+916302648898

Information

FAQ

About us

Pricing

Privacy Policy

Terms & Conditions

Shipping Policy

Useful links

Men | Women | Kids | Couple | Shop All |

T-shirts | Design Your Own

Newsletter

Subscribe to our newsletter.

Your email address

Your Name

Subscribe

Free Whatsapp Button Widget

📞

7.9. Login Page:

Placywear

Search for Product...

☆0

🛒0

👤

MenWomenKidsCouple

Home — My account

LOGIN

Username or email address *

Password *

Log In

☐ Remember me

[Lost your password?](#)

REGISTER

Email address *


Password *

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our privacy policy.




Register

15

7.10. Wishlist Page:







 Placywear

Search for Product...




MenWomenKidsCouple




My wishlist

	Product Name	Unit Price	
	 Can You Be My Taco Date T-shirt For Women For Valentine's Day	₹699.00	<div>Added on: 11 April 2024</div> <div>Select Options</div> <div>Remove</div>
	 Women Be Humble Graphic Sweatshirt	₹999.00 ₹1,199.00	<div>Added on: 11 April 2024</div> <div>Select Options</div> <div>Remove</div>
	 Women Classy Graphic Sweatshirt	₹999.00 ₹1,199.00	<div>Added on: 11 April 2024</div> <div>Select Options</div> <div>Remove</div>

7.11. Cart Page:





 Placywear

Search for Product...




MenWomenKidsCouple

Shopping Cart

	Product	Price	Quantity	Total
	 Can You Be My Taco Date T-shirt For Women For Valentine's Day - Royal Blue Size: XL	₹699.00	<div>- 1 +</div>	₹699.00
	 Personalized First Birthday T-Shirt - Black Size: 6Y	₹499.00	<div>- 1 +</div>	₹499.00

Continue Shopping

 Clear Shopping Cart

Update Cart

8. TYPES OF TESTING PERFORMED:

8.1. SOAP API TEST:

- SoapUI is for Both Manual and Automation Testing.
- SoapUI is used to create Webservice Functional, Performance and Security tests.
- SoapUI is used for quick and Efficient testing.
- We can Generate Reports and Documents can be sent again which is called Parameterization.
- SoapUI provides facility of Data Driven Testing.
- Now a days companies like Apple, Microsoft, ORACLE, Cisco, NASA, MasterCard, HP, Intel are using SoapUI.
- SoapUI supports “GROOVY SCRIPTING” language which is built on basing JAVA.

8.2. REST API TEST:

- Offers faster communication between RESTful web apps.
- Nearly 80% of public web APIs are built on RESTful.
- It can typically communicate through HTTP using languages like JSON, HTML, XLT, and XML format, using JSON being the most common.
- There are four different HTTP methods that will use to request a command, including GET, POST, PUT, DELETE

8.3. Automated Assertion Generation:

- These assertions are expressions that validate an application's state or behavior, and the result is binary/Boolean.
- Using assertion-based testing can help testers catch errors immediately.
- Writing an assertion helps out to improve debugging time. Can be used in formal verification.

8.4. Data Driven Test:

- Data-driven testing is data that is external to your functional tests, and is loaded and used to extend your automated test cases.
- You can take the same test case and run it with as many different inputs as you like, thus getting better coverage from a single test.
- Can change the parameters of the test case to reuse the test case as many times.

8.5. Stress Testing:

- It is a form of deliberately intense used to determine the stability of a given system.
- It involves testing beyond normal operational capacity, often in breaking point, in order to observe the result.
- It is performed to ensure that the system would not crash under crunch situations.

8.6. LOAD Testing:

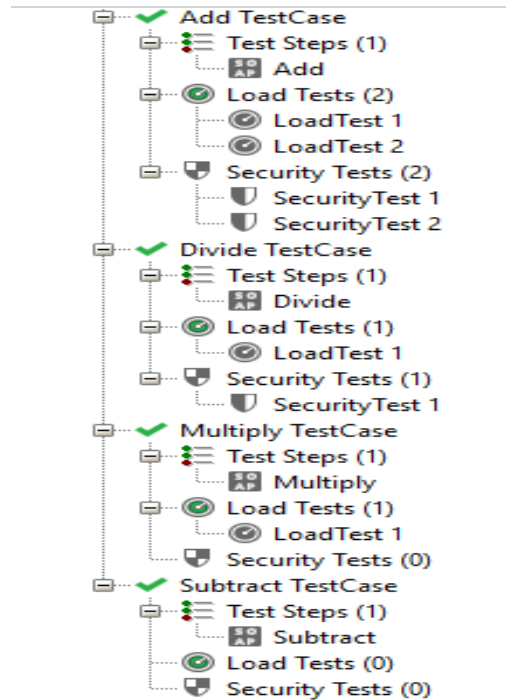
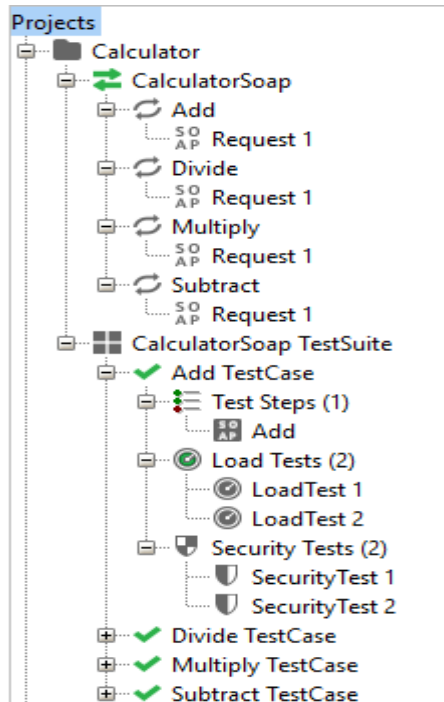
- Load Testing can be used on the basis of existing functionality tests in a SoapUI.
- Using a load test in SoapUI, a functional test allows us to quickly create and modify the performance tests for a web service.
- The Load test allows us to validate the web service performance using different load strategies, and the functionality of the test is not broken under load testing.
- Load Testing is used to check the web service's performance and examine how the system will behave when the number of requests increases in the load.

8.7. Security Testing:

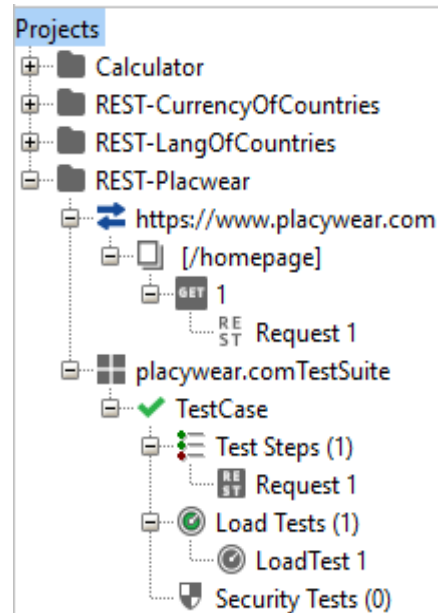
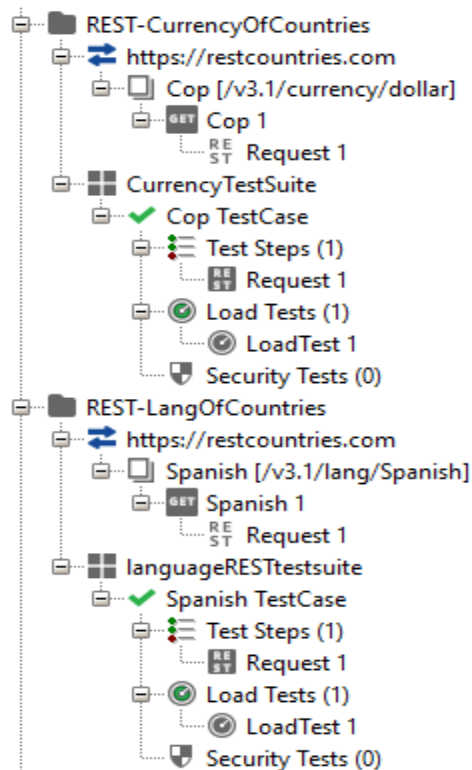
- Security testing is an important tool that is used to ensure the authentication and authorization of Web Services and Web API by using the Request and response model in the SoapUI.
- Cross-Site Scripting: A cross-site scripting is a security test that scans and detects potential risks on specific parameters in structured messages.
- Security Database: As the name suggests, the security database that detects and scans some potential SQL injections may damage the database.
- Stack Overflow: It is used in the SoapUI web testing tool to scan and locate massive documents within messages that can cause a stack overflow.

9. MODULES OF THE TESTING:

9.1. Modules of SOAP Testing:



9.2. Modules of REST Testing:



10. TESTING OF THE WEBSITE:

10.1. SOAP Testing:

10.1.1. Manual Testing of Each Operations (Addition, Subtraction, Multiplication, Division)

The screenshot displays a SOAP UI interface for a request named 'Request 1' to the endpoint `http://www.dneonline.com/calculator.asmx`. The left pane shows the raw XML of the request, which is an `add` operation with two integers, 10 and 29. The right pane shows the raw XML of the response, which is an `addResponse` operation returning the value 39. The status bar at the bottom indicates a response time of 5328ms and a size of 326 bytes.

```
<?xml version='1.0' encoding='utf-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Header/>
  <soap:Body>
    <tem:Add>
      <tem:intA>10</tem:intA>
      <tem:intB>29</tem:intB>
    </tem:Add>
  </soap:Body>
</soap:Envelope>
```

```
<?xml version='1.0' encoding='utf-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Body>
    <AddResponse xmlns='http://tempuri.org/'>
      <AddResult>39</AddResult>
    </AddResponse>
  </soap:Body>
</soap:Envelope>
```

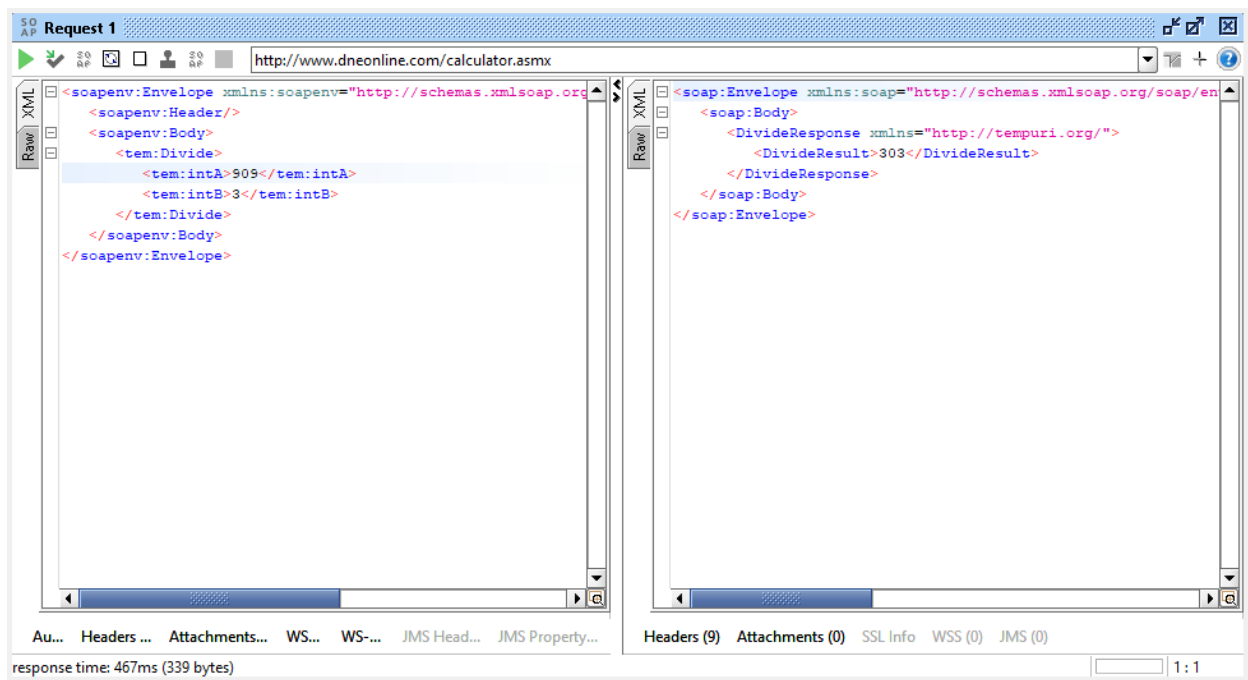
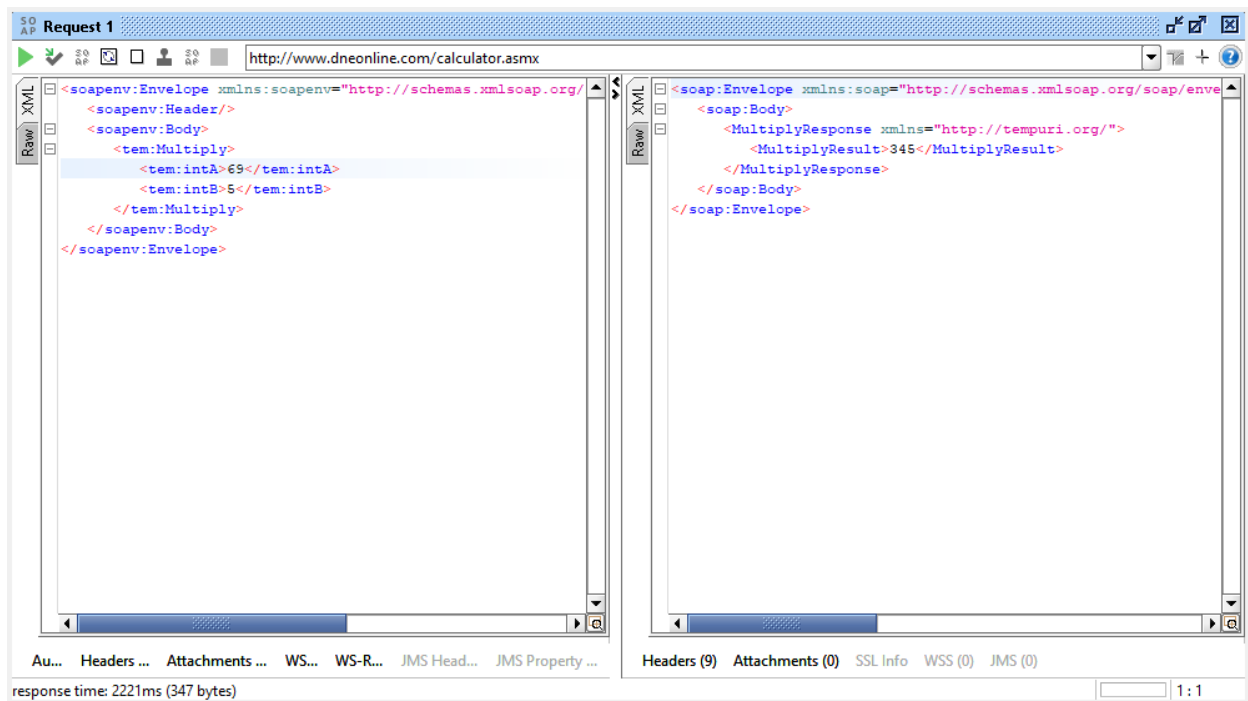
response time: 5328ms (326 bytes)

The screenshot displays a SOAP UI interface for a request named 'Request 1' to the endpoint `http://www.dneonline.com/calculator.asmx`. The left pane shows the raw XML of the request, which is a `subtract` operation with two integers, -9 and 7. The right pane shows the raw XML of the response, which is a `subtractResponse` operation returning the value -16. The status bar at the bottom indicates a response time of 876ms and a size of 347 bytes.

```
<?xml version='1.0' encoding='utf-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Header/>
  <soap:Body>
    <tem:Subtract>
      <tem:intA>-9</tem:intA>
      <tem:intB>7</tem:intB>
    </tem:Subtract>
  </soap:Body>
</soap:Envelope>
```

```
<?xml version='1.0' encoding='utf-8'>
<soap:Envelope xmlns:soap='http://schemas.xmlsoap.org/soap/envelope/'>
  <soap:Body>
    <SubtractResponse xmlns='http://tempuri.org/'>
      <SubtractResult>-16</SubtractResult>
    </SubtractResponse>
  </soap:Body>
</soap:Envelope>
```

response time: 876ms (347 bytes)



10.1.2. Load Testing for Each Operation. (Addition, Subtraction, Multiplication, Division)

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Add	289	1288	442.56	428	251	4.18	81575	1358	0	0
TestCase:	289	1288	442.56	428	251	4.18	81575	1358	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-12 21:11:06....	Message		LoadTest started at Fri Apr 12 21:11:06 IST
2024-04-12 21:12:06....	Message		LoadTest ended at Fri Apr 12 21:12:06 IST

2 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Subtract	296	1870	452.46	377	249	4.12	86154	1428	0	0
TestCase:	296	1870	452.46	377	249	4.12	86154	1428	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-12 21:16:18....	Message		LoadTest started at Fri Apr 12 21:16:18 IST
2024-04-12 21:17:18....	Message		LoadTest ended at Fri Apr 12 21:17:18 IST

2 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Multiply	352	6842	1,259...	1890	68	2.36	23528	817	0	0
TestCase:	352	6842	1,259...	1890	68	2.36	23528	817	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-12 21:19:10....	Message		LoadTest started at Fri Apr 12 21:19:10 IST 2024

1 entry

LoadTest Log LoadTest Assertions Setup Script TearDown Script

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Divide	309	3115	472.44	422	244	4.05	82472	1370	0	0
TestCase:	309	3115	472.44	422	244	4.05	82472	1370	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-12 21:13:33....	Message		LoadTest started at Fri Apr 12 21:13:33 IST
2024-04-12 21:14:33....	Message		LoadTest ended at Fri Apr 12 21:14:33 IST

2 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

10.1.3. Load Testing for Each Operation. (Addition, Subtraction, Multiplication, Division) using Ready API

The screenshot displays the LoadRunner interface with two load test scenarios, 'LoadTest 1', each showing a 'PASS' status. The interface includes a top toolbar with navigation and configuration icons, and a right sidebar for test configuration.

Scenario 1: Add

Global Metrics

Legend: Avg (blue circle), BPS (orange circle), Failures (red circle), Failures/s (red circle), Max (grey circle), Min (light blue circle), Queued (purple circle), TPS (green circle), Time Taken (yellow circle), VUs/s (blue circle).

Test Step Metrics

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Add	286	3063	636	305	181	3.00	0	0.00
Test Case Level	286	3063	636	305	181	3.00	0	0.00

Scenario 2: Subtract

Global Metrics

Legend: Avg (blue circle), BPS (orange circle), Failures (red circle), Failures/s (red circle), Max (grey circle), Min (light blue circle), Queued (purple circle), TPS (green circle), Time Taken (yellow circle), VUs (blue circle).

Test Step Metrics

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Subtract	33	1642	490	33	199	0.00	0	0.00
Test Case Level	33	1642	490	33	198	0.00	0	0.00

LoadTest 1

▶ 1 m 00:01:00 ✓ PASS 00:01:00 Running: 0/25

Load Scheduler Log Distribution Monitoring Scripts Statistics

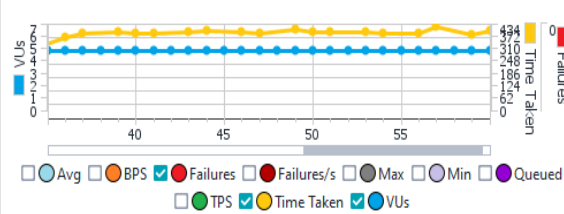
Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario

Targets

+ Add Scenario

Global Metrics

[Learn about global metrics](#)

Test Step Metrics

New Scenario: CalculatorSoap TestSuite: Multiply Te...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Multiply	291	934	407	405	210	0.00	0	0.00
Test Case Level	291	934	407	405	210	0.00	0	0.00

[Learn about test step metrics](#)[Learn about load testing](#)

LoadTest 1

Load Test

Warm-up Time: 0 se

Duration: 1 m

Max Target Runs: -1 tai

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertion
validate perform

+ Add Assert

[Learn about assertions](#)[Learn about load test properties](#)

LoadTest 1

▶ 1 m 00:01:00 ✓ PASS 00:01:00 Running: 0/25

Load Scheduler Log Distribution Monitoring Scripts Statistics

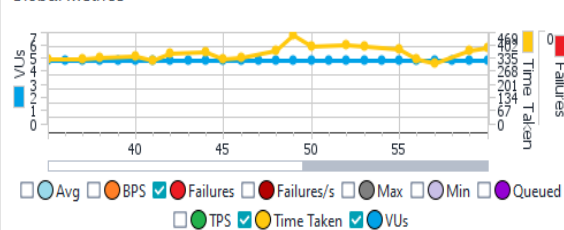
Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario

Targets

+ Add Scenario

Global Metrics

[Learn about global metrics](#)

Test Step Metrics

New Scenario: CalculatorSoap TestSuite: Divide Test...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Divide	299	1082	411	396	209	4.00	0	0.00
Test Case Level	299	1082	411	396	209	4.00	0	0.00

[Learn about test step metrics](#)

LoadTest 1

Load Test

Warm-up Time: 0 se

Duration: 1 m

Max Target Runs: -1 tai

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertion
validate perform

+ Add Assert

[Learn about assertions](#)[Learn about load test properties](#)

10.1.4. Security Testing for Each Operations. (Addition, Subtraction, Multiplication, Division)

Security Add (CalculatorSoap TestSuite -> Add TestCase)

▶ 00:00:04

✓ PASS

SetupTransaction LogCompareHistory

▼ SOAP Add (4 scans)

Boundary Scan

→ Response Assertions: 1

Weak Authentication

→ Response Assertions: 2

XML Bomb

→ Response Assertions: 1

+ Add Scan

Summary

Status: Pass

Scanned: 7 responses

Alerts: 0

View Summary Report

SecurityTest 1 (CalculatorSoap TestSuite -> Subtract TestCase)

▶ 00:00:05

✓ PASS

SetupTransaction LogCompareHistory

▼ SOAP Subtract (0 scans)

XML Bomb

→ Response Assertions: 1

Weak Authentication

→ Response Assertions: 2

Custom Script

→ Response Assertions: 1

Boundary Scan

→ Response Assertions: 1

+ Add Scan

Summary

Status: Pass

Scanned: 8 responses

Alerts: 0

View Summary Report

Security Multiple (CalculatorSoap TestSuite -> Multiply TestCase)

▶ 00:00:06

✓ PASS

SetupTransaction LogCompareHistory

▼ SOAP Multiply (9 scans)

30 Boundary Scan

→ Response Assertions: 1

Weak Authentication

→ Response Assertions: 2

XML Bomb

→ Response Assertions: 1

★ Custom Script

→ Response Assertions: 1

+ Add Scan

Summary

Status: Pass

Scanned: 8 responses

Alerts: 0

View Summary Report

SecurityTest 1 (CalculatorSoap TestSuite -> Divide TestCase)

▶ 00:00:05

✓ PASS

SetupTransaction LogCompareHistory

▼ SOAP Divide (0 scans)

Weak Authentication

→ Response Assertions: 2

★ Custom Script

→ Response Assertions: 1

30 Boundary Scan

→ Response Assertions: 1

XML Bomb

→ Response Assertions: 1

+ Add Scan

Summary

Status: Pass

Scanned: 8 responses

Alerts: 0

View Summary Report

10.1.5. Stress Testing for Each Operations. (Addition, Subtraction, Multiplication, Division)

Stress Add

▶

🖥️

30

s

00:00:29

✓ PASS

00:00:30

Running: 0/25

Load

Scheduler

Log

Distribution

Monitoring

Scripts

Statistics

Load Allocation: Per Scenario

Load Type: VUs

🔍 (0)

New Scenario

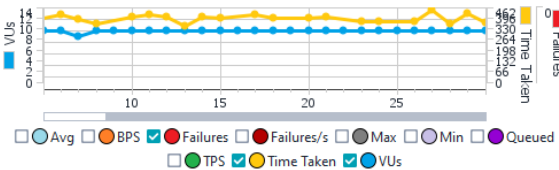
Targets

+ Add Test Case

+ Add Scenario

Global Metrics

All Scenarios



[Learn about global metrics](#)

Test Step Metrics

New Scenario: CalculatorSoap TestSuite:Add TestCas...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Data Source 2	0	33	4	13	198	7.00	0	0.00
Add	298	4248	472	401	191	4.00	0	0.00
Data Source Loop	0	0	0	0	0	0.00	0	0.00
Test Case Level	300	4248	476	401	191	4.00	0	0.00

Stress Add

Load Test

Warm-up Time: 0 se

Duration: 30 s

Max Target Runs: -1 ta

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertio
validate perfor

+ Add Assert

[Learn about assertions](#)

Stress Subtract

▶

🖥️

30

s

00:00:30

✓ PASS

00:00:30

Running: 0/25

Load

Scheduler

Log

Distribution

Monitoring

Scripts

Statistics

Load Allocation: Per Scenario

Load Type: VUs

🔍 (0)

New Scenario

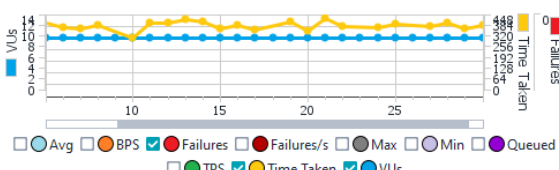
Targets

+ Subtract Test Case

+ Add Scenario

Global Metrics

All Scenarios



[Learn about global metrics](#)

Test Step Metrics

New Scenario: CalculatorSoap TestSuite:Subtract Te...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Subtract	282	3687	444	383	205	2.00	0	0.00
Test Case Level	282	3687	444	383	205	2.00	0	0.00

Stress Subtract

Load Test

Warm-up Time: 0 se

Duration: 30 s

Max Target Runs: -1 ta

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertio
validate perfor

+ Add Assert

[Learn about assertions](#)

[Learn about load test properties](#)

Stress Multiple

▶ 🖥️ 30 s 00:00:30 ✓ PASS 00:00:30 Running: 0/25

[Load](#) [Scheduler](#) [Log](#) [Distribution](#) [Monitoring](#) [Scripts](#) [Statistics](#)

Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario 📄 ? (0)

Targets

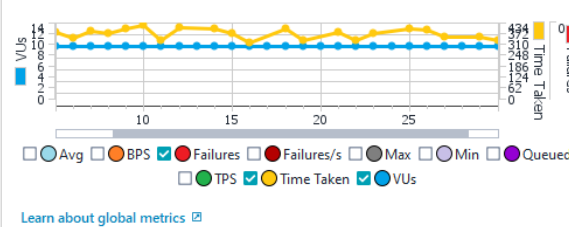
+ 🔄 🗑️ ⬆️ ⬇️

▶ Multiply TestCase ? (0)

+ Add Scenario

[Learn about load testing](#)

Global Metrics



Test Step Metrics

New Scenario: CalculatorSoap TestSuite: Multiply Te...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Multiply	295	3777	444	324	204	6.00	0	0.00
Test Case Level	295	3777	444	324	204	6.00	0	0.00

[Learn about test step metrics](#)

Stress Multiple

Warm-up Time: 0 s

Duration: 30 s

Max Target Runs: -1 t

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertion to validate performance

+ Add Assertion

[Learn about assertions](#)

[Learn about load test properties](#)

Stress Divide

▶ 🖥️ 30 s 00:00:00 ✓ PASS 00:00:30 Running: 0/25

[Load](#) [Scheduler](#) [Log](#) [Distribution](#) [Monitoring](#) [Scripts](#) [Statistics](#)

Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario 📄 ? (0)

Targets

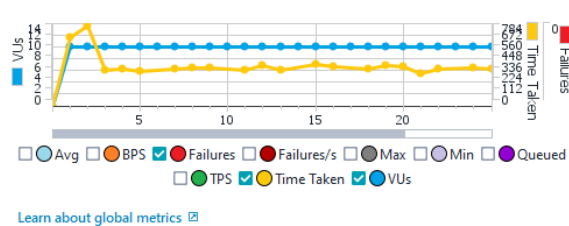
+ 🔄 🗑️ ⬆️ ⬇️

▶ Divide TestCase ? (0)

+ Add Scenario

[Learn about load testing](#)

Global Metrics



Test Step Metrics

New Scenario: CalculatorSoap TestSuite: Divide Test...

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Divide	280	7250	443	306	201	0.00	0	0.00
Test Case Level	280	7250	443	306	201	0.00	0	0.00

[Learn about test step metrics](#)

Stress Divide

Warm-up Time: 0 s

Duration: 30 s

Max Target Runs: -1 t

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertion to validate performance

+ Add Assertion

[Learn about assertions](#)

[Learn about load test properties](#)

10.1.6. Adding Assertions to the testcases and Verifying for Each Operations. (Addition, Subtraction, Multiplication, Division)

The screenshot shows the SoapUI interface for the 'Add' operation. The URL is `http://www.dneonline.com/calculator.asmx`. The left pane displays the raw XML request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:Add>
      <tem:intA>58</tem:intA>
      <tem:intB>71</tem:intB>
    </tem:Add>
  </soapenv:Body>
</soapenv:Envelope>
```

The right pane displays the raw XML response:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <AddResponse xmlns="http://tempuri.org/">
      <AddResult>129</AddResult>
    </AddResponse>
  </soap:Body>
</soap:Envelope>
```

Below the XML panes, the status bar shows 'Contains - VALID'. At the bottom, it indicates 'response time: 6761ms (327 bytes)' and '1:1'.

The screenshot shows the SoapUI interface for the 'Subtract' operation. The URL is `http://www.dneonline.com/calculator.asmx`. The left pane displays the raw XML request:

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:Subtract>
      <tem:intA>50</tem:intA>
      <tem:intB>20</tem:intB>
    </tem:Subtract>
  </soapenv:Body>
</soapenv:Envelope>
```

The right pane displays the raw XML response:

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <SubtractResponse xmlns="http://tempuri.org/">
      <SubtractResult>30</SubtractResult>
    </SubtractResponse>
  </soap:Body>
</soap:Envelope>
```

Below the XML panes, the status bar shows 'Contains - VALID' and 'Contains 1 - VALID'. At the bottom, it indicates 'response time: 2457ms (346 bytes)' and '1:1'.

Multiply

http://www.dneonline.com/calculator.asmx

XML

```
<?xml version='1.0' encoding='utf-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:Multiply>
      <tem:intA>10</tem:intA>
      <tem:intB>9</tem:intB>
    </tem:Multiply>
  </soapenv:Body>
</soapenv:Envelope>
```

Raw

Headers (9) Attachments (0) SSL Info WSS (0) JMS (0)

Online Help

Contains - VALID
Contains 1 - FAILED
-> Missing token [234] in Response

Assertions (2) Request Log (1)

response time: 1126ms (346 bytes)

Divide

http://www.dneonline.com/calculator.asmx

XML

```
<?xml version='1.0' encoding='utf-8'>
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <tem:Divide>
      <tem:intA>60</tem:intA>
      <tem:intB>3</tem:intB>
    </tem:Divide>
  </soapenv:Body>
</soapenv:Envelope>
```

Raw

Headers (9) Attachments (0) SSL Info WSS (0) JMS (0)

Online Help













Contains - VALID

Assertions (1) Request Log (1)













response time: 16483ms (338 bytes)

10.1.7. Data Driven Testing for Each Operations. (Addition, Subtraction, Multiplication, Division)

Add TestCase

								PASS	Test Steps	Transaction Log	Compare	History	Coverage	Requirements	Step-by-Step Run	Test On Demand
Results: 9 Steps PASS 0 Steps FAIL																
<input checked="" type="checkbox"/> View Test Steps																
Filter By: <input type="checkbox"/> FAIL <input checked="" type="checkbox"/> PASS <input type="checkbox"/> UNKNOWN																
Name	Test Case	Test Suite	Start Time	Finish Time	Time Taken	Status										
✓ Add TestCase		CalculatorSoap TestSuite	2024-04-21 10:31:43.393	2024-04-21 10:31:45.903	2510ms	PASS	Open									
 Data Source 2	Add TestCase	CalculatorSoap TestSuite	2024-04-21 10:31:43.419	2024-04-21 10:31:43.439	20ms	PASS	Open									
 Add	Add TestCase	CalculatorSoap TestSuite	2024-04-21 10:31:43.444	2024-04-21 10:31:44.068	624ms	PASS	Open									
 Data Source Loop (Data Row 1)	Add TestCase	CalculatorSoap TestSuite	2024-04-21 10:31:44.070	2024-04-21 10:31:44.070	0ms	PASS	Open									
 Add	Add TestCase	CalculatorSoap TestSuite	2024-04-21 10:31:44.072	2024-04-21 10:31:44.607	535ms	PASS	Open									








Subtract TestCase

								PASS	Test Steps	Transaction Log	Compare	History	Coverage	Requirements	Step-by-Step Run	Test On Demand
Results: 9 Steps PASS 0 Steps FAIL																
<input checked="" type="checkbox"/> View Test Steps																
Filter By: <input type="checkbox"/> FAIL <input checked="" type="checkbox"/> PASS <input type="checkbox"/> UNKNOWN																
Name	Test Case	Test Suite	Start Time	Finish Time	Time Taken	Status										
✓ Subtract TestCase		CalculatorSoap TestSuite	2024-04-21 12:03:57.745	2024-04-21 12:03:59.855	2110ms	PASS	Open									
 Data Source	Subtract TestCase	CalculatorSoap TestSuite	2024-04-21 12:03:57.763	2024-04-21 12:03:57.781	18ms	PASS	Open									
 Subtract	Subtract TestCase	CalculatorSoap TestSuite	2024-04-21 12:03:57.785	2024-04-21 12:03:58.437	652ms	PASS	Open									
 Data Source Loop (Data Row 1)	Subtract TestCase	CalculatorSoap TestSuite	2024-04-21 12:03:58.440	2024-04-21 12:03:58.440	0ms	PASS	Open									
 Subtract	Subtract TestCase	CalculatorSoap TestSuite	2024-04-21 12:03:58.442	2024-04-21 12:03:58.936	494ms	PASS	Open									


[Learn about transaction logs](#)

[Learn more about test cases](#)





Multiply TestCase


       ✓ PASS


Test Steps Transaction Log Compare History Coverage Requirements Step-by-Step Run Test On Demand

Results: 9 Steps PASS 0 Steps FAIL 








☒ View Test Steps Filter By: ☐ FAIL ☐ PASS ☐ UNKNOWN

Name	Test Case	Test Suite	Start Time ^	Finish Time	Time Taken	Status	
✓ Multiply TestCase		CalculatorSoap TestSuite	2024-04-21 12:02:00.663	2024-04-21 12:02:02.252	1589ms	PASS	Open
 Data Source	Multiply TestCase	CalculatorSoap TestSuite	2024-04-21 12:02:00.679	2024-04-21 12:02:00.702	23ms	PASS	Open
 Multiply	Multiply TestCase	CalculatorSoap TestSuite	2024-04-21 12:02:00.706	2024-04-21 12:02:01.379	673ms	PASS	Open
 Data Source Loop (Data Row 1)	Multiply TestCase	CalculatorSoap TestSuite	2024-04-21 12:02:01.382	2024-04-21 12:02:01.382	0ms	PASS	Open
 Multiply	Multiply TestCase	CalculatorSoap TestSuite	2024-04-21 12:02:01.383	2024-04-21 12:02:01.688	305ms	PASS	Open


[Learn about transaction logs](#) 

[Learn more about test cases](#) 





Divide TestCase


       ✓ PASS


Test Steps Transaction Log Compare History Coverage Requirements Step-by-Step Run Test On Demand

Results: 9 Steps PASS 0 Steps FAIL 

☒ View Test Steps Filter By: ☐ FAIL ☐ PASS ☐ UNKNOWN

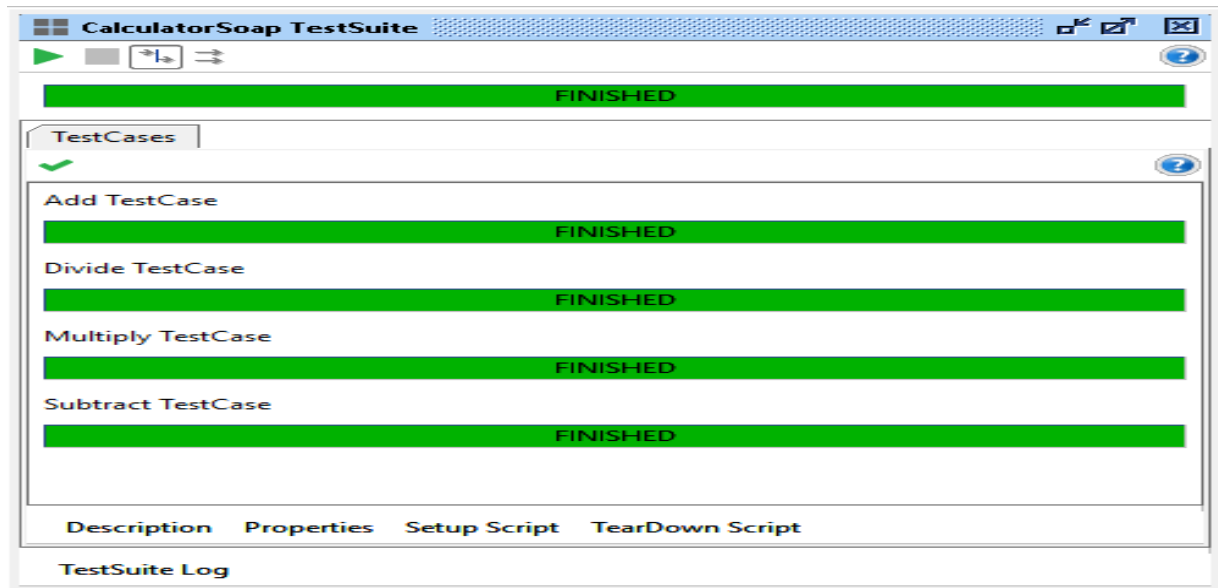
Name	Test Case	Test Suite	Start Time ^	Finish Time	Time Taken	Status	
✓ Divide TestCase		CalculatorSoap TestSuite	2024-04-21 11:59:53.782	2024-04-21 11:59:56.005	2223ms	PASS	Open
 Data Source	Divide TestCase	CalculatorSoap TestSuite	2024-04-21 11:59:53.805	2024-04-21 11:59:53.823	18ms	PASS	Open
 Divide	Divide TestCase	CalculatorSoap TestSuite	2024-04-21 11:59:53.832	2024-04-21 11:59:54.649	817ms	PASS	Open
 Data Source Loop (Data Row 1)	Divide TestCase	CalculatorSoap TestSuite	2024-04-21 11:59:54.651	2024-04-21 11:59:54.651	0ms	PASS	Open
 Divide	Divide TestCase	CalculatorSoap TestSuite	2024-04-21 11:59:54.652	2024-04-21 11:59:55.118	466ms	PASS	Open

[Learn about transaction logs](#) 

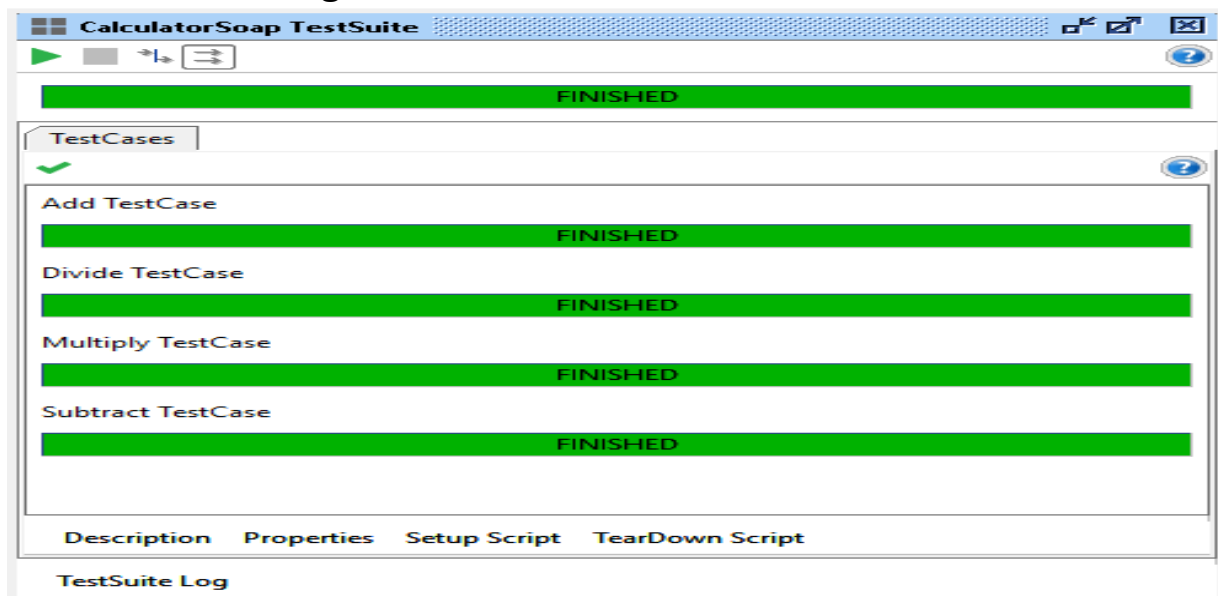
[Learn more about test cases](#) 

10.1.8. Testing the Entire Test Suite with four Operations. (Addition, Subtraction, Multiplication, Division)

10.1.8.1. Executing all test cases in Sequence manner.



10.1.8.2. Executing all test cases in Parallel manner.



10.1.9. Documentation of the Entire Soap Testing of Calculator Website for all the Operations.

<file:///C:/Users/Administrator/Documents/wsdl-report.html>

10.2. REST TESTING:

10.2.1. Manual Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)

Request 1

Method: GET, Endpoint: https://restcountries.com, Resource: /v3.1/currency/dollar

Response (JSON):

```
[
  {
    "name": {
      "common": "Guyana",
      "official": "Co-operative Republic of Guyana",
      "nativeName": {
        "eng": {
          "official": "Co-operative Republic of Guyana",
          "common": "Guyana"
        }
      }
    },
    "tld": [".gy"],
    "cca2": "GY",
    "ccn3": "328",
    "cca3": "GUY",
    "cioc": "GUY",
    "independent": true,
    "status": "officially-assigned",
    "unMember": true,
    "currencies": {
      "GYD": {
        "name": "Guyanese dollar",
        "symbol": "$"
      }
    },
    "idd": {
      "root": "+5",

```

response time: 6243ms (194584 bytes)

Request 1

Method: GET, Endpoint: https://restcountries.com, Resource: /v3.1/lang/Spanish

Response (JSON):

```
[
  {
    "name": {
      "common": "Colombia",
      "official": "Republic of Colombia",
      "nativeName": {
        "spa": {
          "official": "Rep blica de Colombia",
          "common": "Colombia"
        }
      }
    },
    "tld": [".co"],
    "cca2": "CO",
    "ccn3": "170",
    "cca3": "COL",
    "cioc": "COL",
    "independent": true,
    "status": "officially-assigned",
    "unMember": true,
    "currencies": {
      "COP": {
        "name": "Colombian peso",
        "symbol": "$"
      }
    },
    "idd": {
      "root": "+5",

```

response time: 8668ms (80361 bytes)

Request 1

Method: GET Endpoint: https://www.placywear.com Resource: /homepage Parameters: ?login=name

Name	Value	Style	Level
login	name	QUERY	RESOURCE

Required: ☐ Sets if parameter is required
Type:
Options:
Add...
Edit...

response time: 7428ms (164168 bytes)

```
<html prefix="og: https://ogp.me/ns#" lang="en-GB">
<!--Open Head-->
<head>
<meta content="HTML Tidy for Java (vers. 27 Sep 2004),
<meta charset="UTF-8"/>
<meta content="width=device-width, initial-scale=1" nam
<link href="//gmpg.org/xfn/11" rel="profile"/>
<!--Search Engine Optimization by Rank Math - https://
<title>Page Not Found | Placywear</title>
<meta content="follow, noindex" name="robots"/>
<meta content="en_GB" property="og:locale"/>
<meta content="article" property="og:type"/>
<meta content="Page Not Found | Placywear" property="og
<meta content="Placywear" property="og:site_name"/>
<meta content="summary_large_image" name="twitter:card"
<meta content="Page Not Found | Placywear" name="twitte
<script class="rank-math-schema" type="application/ld+
<!--/Rank Math WordPress SEO plugin-->
<link href="//stats.wp.com" rel="dns-prefetch"/>
<link href="//www.googletagmanager.com" rel="dns-prefet
<link href="//fonts.googleapis.com" rel="dns-prefetch"/
<link href="//i0.wp.com" rel="dns-prefetch"/>
<link crossorigin="crossorigin" href="https://fonts.gst
<link href="https://placywear.com/feed/" title="Placywe
<link href="https://placywear.com/comments/feed/" title
```

10.2.2. Load Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear) using SoapUI

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy: Simple Test Delay: 1000 Random: 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Request 1	490	23245	2,601....	16890	76	1.25	14788...	243698	0	0
Test Case:	490	23245	2,601....	16890	76	1.25	14788...	243698	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-13 13:40:39....	Message		LoadTest started at Sat Apr 13 13:40:39 IST 2024
2024-04-13 13:41:40....	Message		LoadTest ended at Sat Apr 13 13:41:40 IST 2024

2 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy Simple Test Delay 1000 Random 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Request 1	513	25685	4,849.8	1458	52	0.86	41787...	69435	0	0
TestCase:	513	25685	4,849.8	1458	52	0.86	41787...	69435	0	0

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-13 13:42:46.2...	Message		LoadTest started at Sat Apr 13 13:42:46 IST 2024
2024-04-13 13:43:46.4...	Message		LoadTest ended at Sat Apr 13 13:43:46 IST 2024

2 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

LoadTest 1

Limit: 60 Seconds 100%

Threads: 5 Strategy Simple Test Delay 1000 Random 0.5

Test Step	min	max	avg	last	cnt	tps	bytes	bps	err	rat
Request 1	308	6429	2,027.58	463	85	1.41	13953260	232515	89	104
TestCase:	308	6429	2,027.58	463	85	1.41	13953260	232515	89	104

Show Types: - All - Show Steps: - All -

time	type	step	message
2024-04-13 13:44:27.316	Message		LoadTest started at Sat Apr 13 13:44:27 IST 2024
2024-04-13 13:44:27.864	Step Status	Request 1	TestStep [Request 1] result status is FAILED; [[Cont...
2024-04-13 13:44:28.166	Step Status	Request 1	TestStep [Request 1] result status is FAILED; [[Cont...

91 entries

LoadTest Log LoadTest Assertions Setup Script TearDown Script

10.2.3. Load Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear) using ReadyAPI

LoadTest 1 30 s 00:00:30 ✓ PASS 00:00:30 Running: 0/25

Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario (0)

Targets

Cop TestCase (0)

+ Add Scenario

Global Metrics All Scenarios

Learn about global metrics

Test Step Metrics New Scenario: CurrencyTestSuite:Cop TestCase

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Request 1	244	896	311	355	110	0.00	0	0.00
Test Case Level	244	896	311	355	110	0.00	0	0.00

Learn about test step metrics

LoadTest 1 ×

Load Test

Warm-up Time: 0 s

Duration: 30 s

Max Target Runs: -1 t

Load Allocation: Per Scenario

Load Type: VUs

Assertions

Use Assertion to validate performance

+ Add Assertion

Learn about assertions

Learn about load test properties

LoadTest 1 1 m 00:01:00 ✓ PASS 00:01:00 Running: 0/25

Load Allocation: Per Scenario Load Type: VUs (0)

New Scenario (0)

Targets

Spanish TestCase (0)

+ Add Scenario

Global Metrics All Scenarios

Learn about global metrics

Test Step Metrics New Scenario: languageRESTTestSuite:Spanish TestCase

	Min	Max	Avg	Last	Count	TPS	Err	Err %
Request 1	258	2396	491	428	197	0.00	0	0.00
Test Case Level	64	2396	489	64	198	0.00	0	0.00

Learn about test step metrics

LoadTest 1 ×

Load Test

Warm-up Time: 0 sec

Duration: 1 m

Max Target Runs: -1 targ

Load Allocation: Per Scenario

Load Type: VUs

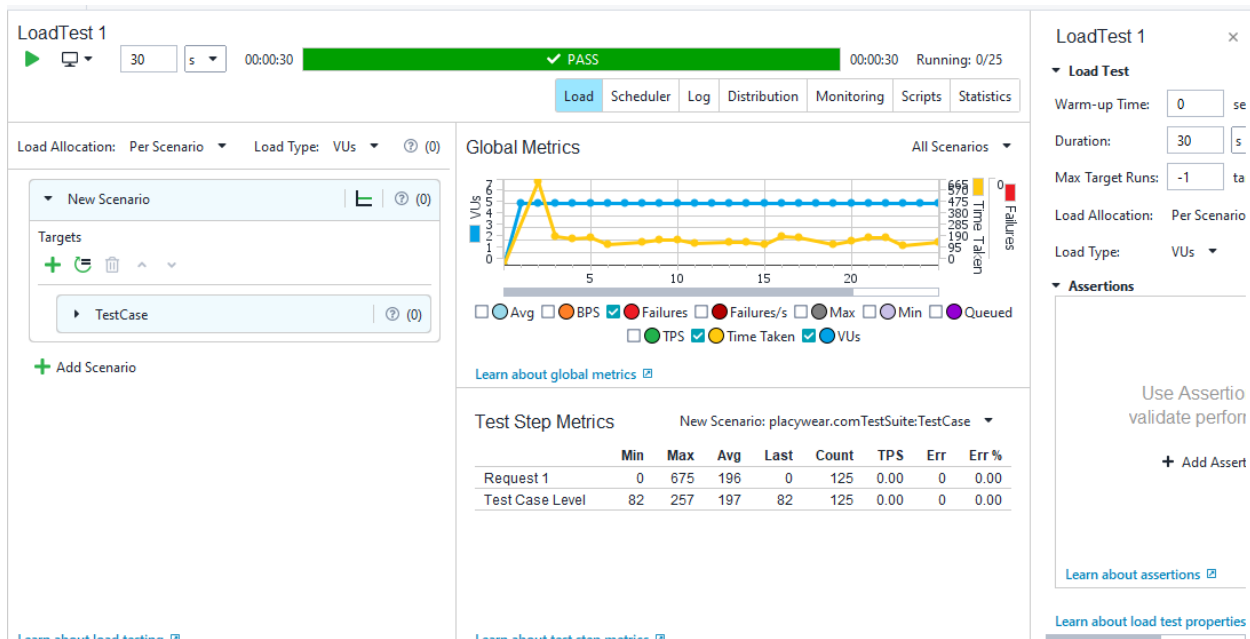
Assertions

Use Assertion to validate performance

+ Add Assertion

Learn about assertions

Learn about load test properties



10.2.4. Security Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)





Security Test 3 (languageRESTtestsuite -> Spanish TestCase)

▶ 00:01:37


✓ PASS

SetupTransaction LogCompareHistory


▼  Request 1 (8 scans)

 Boundary Scan


→ Response Assertions: 1

 Cross Site Scripting


→ Response Assertions: 2

 Fuzzing Scan


→ Response Assertions: 1

 Invalid Types


→ Response Assertions: 1

 SQL Injection


→ Response Assertions: 1

 Sensitive Files Exposure

→ Response Assertions: 1

 Weak Authentication

→ Response Assertions: 2

 XPath Injection

→ Response Assertions: 1

+ Add Scan

Summary

Status: Pass

Scanned: 197 responses

Alerts: 0

View Summary Report

SecurityTest 1 (placywear.comTestSuite -> TestCase)

▶ 00:00:01

✓ PASS

SetupTransaction LogCompareHistory

▼  Request 1 (0 scans)

 Fuzzing Scan

→ Response Assertions: 1

 Weak Authentication

→ Response Assertions: 2

 Custom Script

→ Response Assertions: 1

 XPath Injection

→ Response Assertions: 1

 Boundary Scan

→ Response Assertions: 1

 Cross Site Scripting

→ Response Assertions: 2

 SQL Injection

→ Response Assertions: 1

 Invalid Types

→ Response Assertions: 1

+ Add Scan

Summary

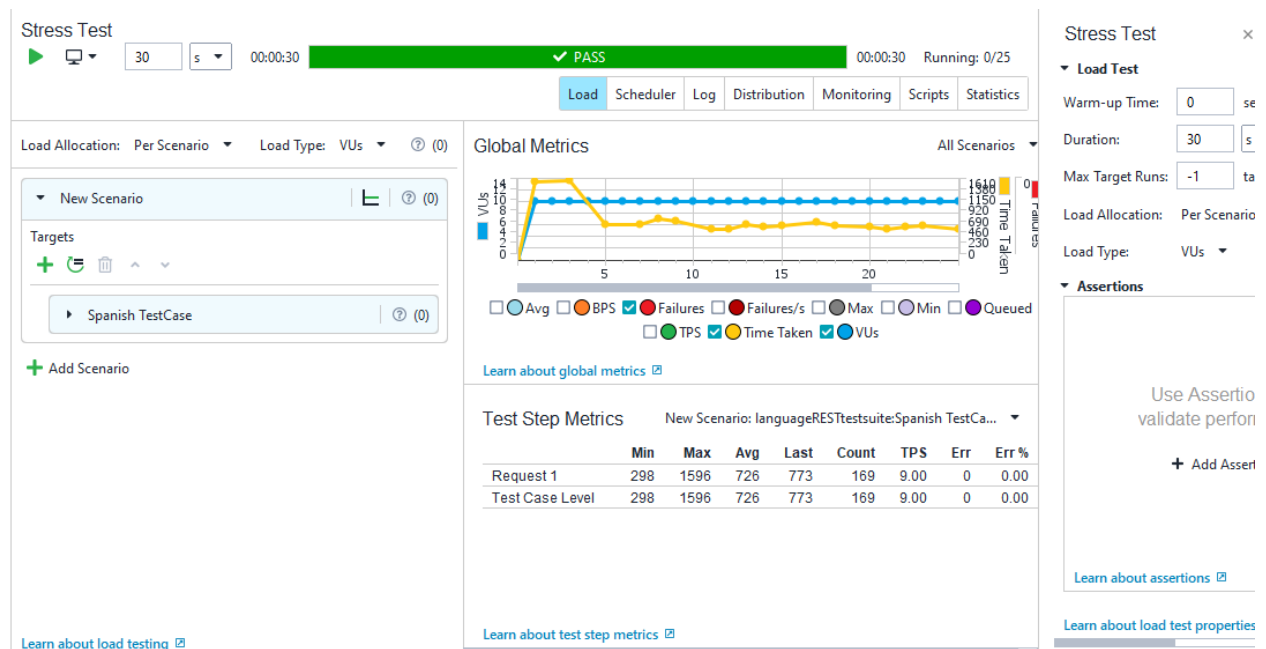
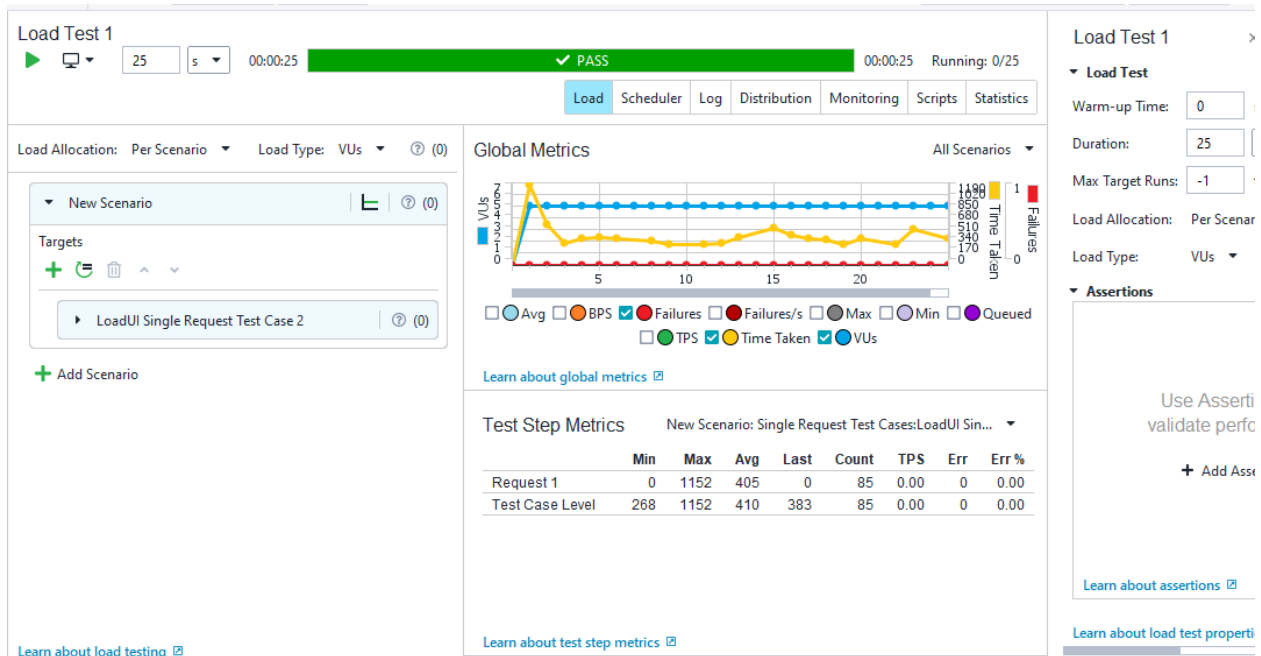
Status: Pass

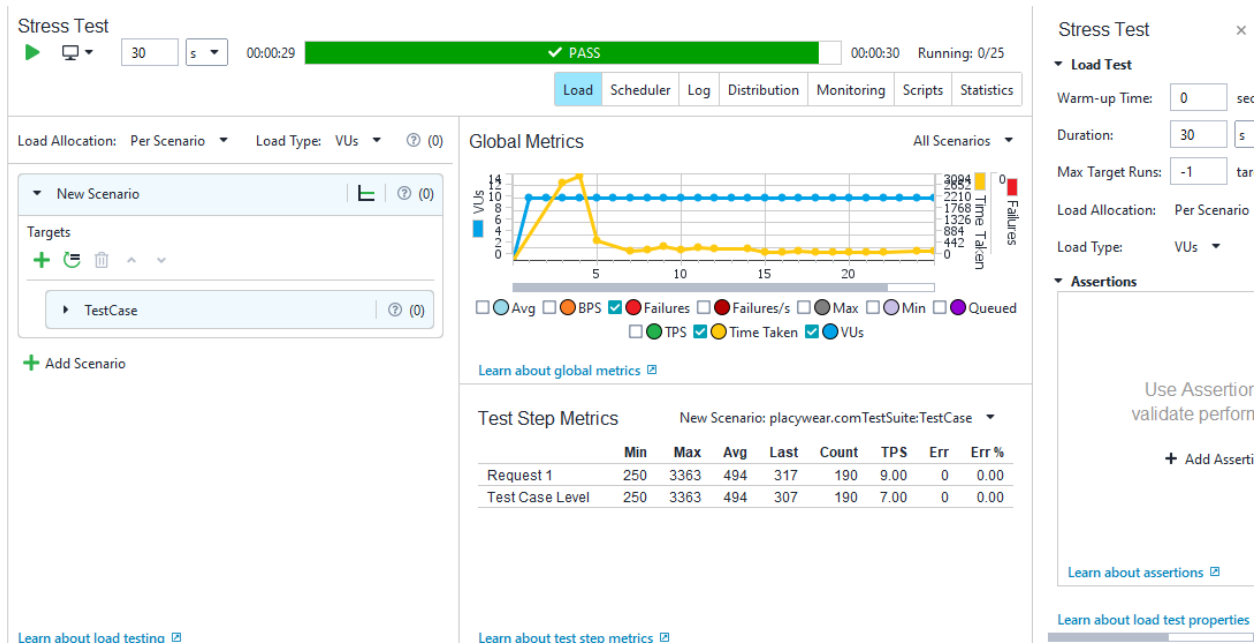
Scanned: 2 responses

Alerts: 0

View Summary Report

10.2.5. Stress Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)





10.2.6. Adding Assertions to the testcases and Verifying for All REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)

Request 1

Endpoint

https://restcountries.com

Resource/Method: GET Cop -> Cop 1 [/v3.1/currency/dollar]

Request

Name	Value	Style	Level
Raw			

Header... Attachment... SSL Info (2 c... Representation... Schema (conf... JMS...

1 [{

2 {

3 "name": {

4 "common": "United States",

5 "official": "United States of America",

6 "nativeName": {"eng": {

7 "official": "United States of America",

8 "common": "United States"

9 }}

10]}

Online Help

Contains - VALID

Assertions (1) Request Log (1)

response time: 2591ms (194584 bytes)

1:1

Endpoint
https://restcountries.com

Resource/Method: Spanish -> Spanish 1 [/v3.1/lang/Spanish]

Name	Value	Style	Level
Request			

```

1  {
2  {
3  "name": {
4    "common": "Guatemala",
5    "official": "Republic of Guatemala",
6    "nativeName": {"spa": {
7      "official": "Rep blica de Guatemala",
8      "common": "Guatemala"
9    }}
10 }
  
```

Header... Attachment... SSL Info (2 ... Representation... Schema (con... JMS...

Online Help

Contains - VALID
Contains 1 - VALID

Assertions (2) Request Log (1)

response time: 1849ms (80361 bytes)

Endpoint
https://www.placywear.com

Resource/Method: -> 1 [/homepage/Women?login=\${Data Source#login}]

Name	Value	Style	Level
login	\$(Data ... QUERY RESOU...		

```

<html prefix="og: https://ogp.me/ns#" lang="en-GB">
<!--Open Head-->
<head>
<meta content="HTML Tidy for Java (vers. 27 Sep 2004), see www.w3.org" name="generator">
<meta charset="UTF-8"/>
<meta content="width=device-width, initial-scale=1" name="viewport"/>
<link href="//gmpg.org/xfn/11" rel="profile"/>
<style id="jetpack-boost-critical-css" type="text/css">@media all{body{--wp--prese
</style>
  
```

Headers (26) Attachments (0) SSL Info (4 certs) Representations (6) Schema (conflicts) JMS (0)

Online Help

Contains - VALID

Assertions (1) Request Log (1)

response time: 663ms (218144 bytes)

10.2.7. Data Driven Testing for All the REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)

Cop TestCase

Test Steps Transaction Log Compare History Coverage Requirements Step-by-Step Run Test On Demand

Results: 9 Steps PASS 0 Steps FAIL

☒ View Test Steps Filter By: ☐ FAIL ☐ PASS ☐ UNKNOWN

Name	Test Case	Test Suite	Start Time	Finish Time	Time Taken	Status
✓ Cop TestCase		CurrencyTestSuite	2024-04-21 14:42:20.040	2024-04-21 14:42:26.029	5989ms	PASS
Data Source	Cop TestCase	CurrencyTestSuite	2024-04-21 14:42:20.156	2024-04-21 14:42:20.207	51ms	PASS
Request 1	Cop TestCase	CurrencyTestSuite	2024-04-21 14:42:20.411	2024-04-21 14:42:22.617	2206ms	PASS
Data Source Loop (Data Row 1)	Cop TestCase	CurrencyTestSuite	2024-04-21 14:42:22.714	2024-04-21 14:42:22.714	0ms	PASS
Request 1	Cop TestCase	CurrencyTestSuite	2024-04-21 14:42:22.744	2024-04-21 14:42:23.954	1210ms	PASS

[Learn about transaction logs](#)

[Learn more about test steps](#)

Spanish TestCase

Test Steps Transaction Log Compare History Coverage Requirements Step-by-Step Run Test On Demand

Results: 5 Steps PASS 0 Steps FAIL

☒ View Test Steps Filter By: ☐ FAIL ☐ PASS ☐ UNKNOWN

Name	Test Case	Test Suite	Start Time	Finish Time	Time Taken	Status
✓ Spanish TestCase		languageRESTtestsu...	2024-04-21 10:27:19.608	2024-04-21 10:27:21.044	1436ms	PASS
Data Source	Spanish TestCase	languageRESTtestsu...	2024-04-21 10:27:19.655	2024-04-21 10:27:19.684	29ms	PASS
Request 1	Spanish TestCase	languageRESTtestsu...	2024-04-21 10:27:19.691	2024-04-21 10:27:20.808	1117ms	PASS
Data Source Loop (Data Row 1)	Spanish TestCase	languageRESTtestsu...	2024-04-21 10:27:20.879	2024-04-21 10:27:20.879	0ms	PASS
Request 1	Spanish TestCase	languageRESTtestsu...	2024-04-21 10:27:20.881	2024-04-21 10:27:21.171	290ms	PASS

TestCase

✓ PASS
Test Steps
Transaction Log
Compare
History
Coverage
Requirements
Step-by-Step Run
Test On Demand

Results: 11 Steps PASS 0 Steps FAIL

☒ View Test Steps Filter By: ☐ FAIL ☒ PASS ☐ UNKNOWN

Name	Test Case	Test Suite	Start Time ^	Finish Time	Time Taken	Status	
✓ TestCase		placywear.comTestS...	2024-04-21 14:47:20.776	2024-04-21 14:47:23.116	2340ms	PASS	Open
Data Source	TestCase	placywear.comTestS...	2024-04-21 14:47:20.789	2024-04-21 14:47:20.828	39ms	PASS	Open
Request 1	TestCase	placywear.comTestS...	2024-04-21 14:47:20.869	2024-04-21 14:47:21.842	973ms	PASS	Open
Data Source Loop (Data Row 1)	TestCase	placywear.comTestS...	2024-04-21 14:47:21.888	2024-04-21 14:47:21.888	0ms	PASS	Open
Request 1	TestCase	placywear.comTestS...	2024-04-21 14:47:21.892	2024-04-21 14:47:22.155	263ms	PASS	Open

[Learn about transaction logs](#)

[Learn more about test cases](#)

10.2.8. Testing the entire test suite for All REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)

10.2.8.1. Executing all test cases in Sequence manner.

CurrencyTestSuite

FINISHED

TestCases

Cop TestCase

FINISHED

TestSuite Description

TestSuite generated for REST Service [https://restcountries.com]

[Description](#)
[Properties](#)
[Setup Script](#)
[TearDown Script](#)

languageRESTtestsuite

FINISHED

TestCases

✓

Spanish TestCase

FINISHED

TestSuite Description

TestSuite generated for REST Service [<https://restcountries.com>]

Description Properties Setup Script TearDown Script

placywear.com TestSuite

FINISHED

TestCases

✓

TestCase

FINISHED

TestCase 2

FINISHED

TestSuite Description

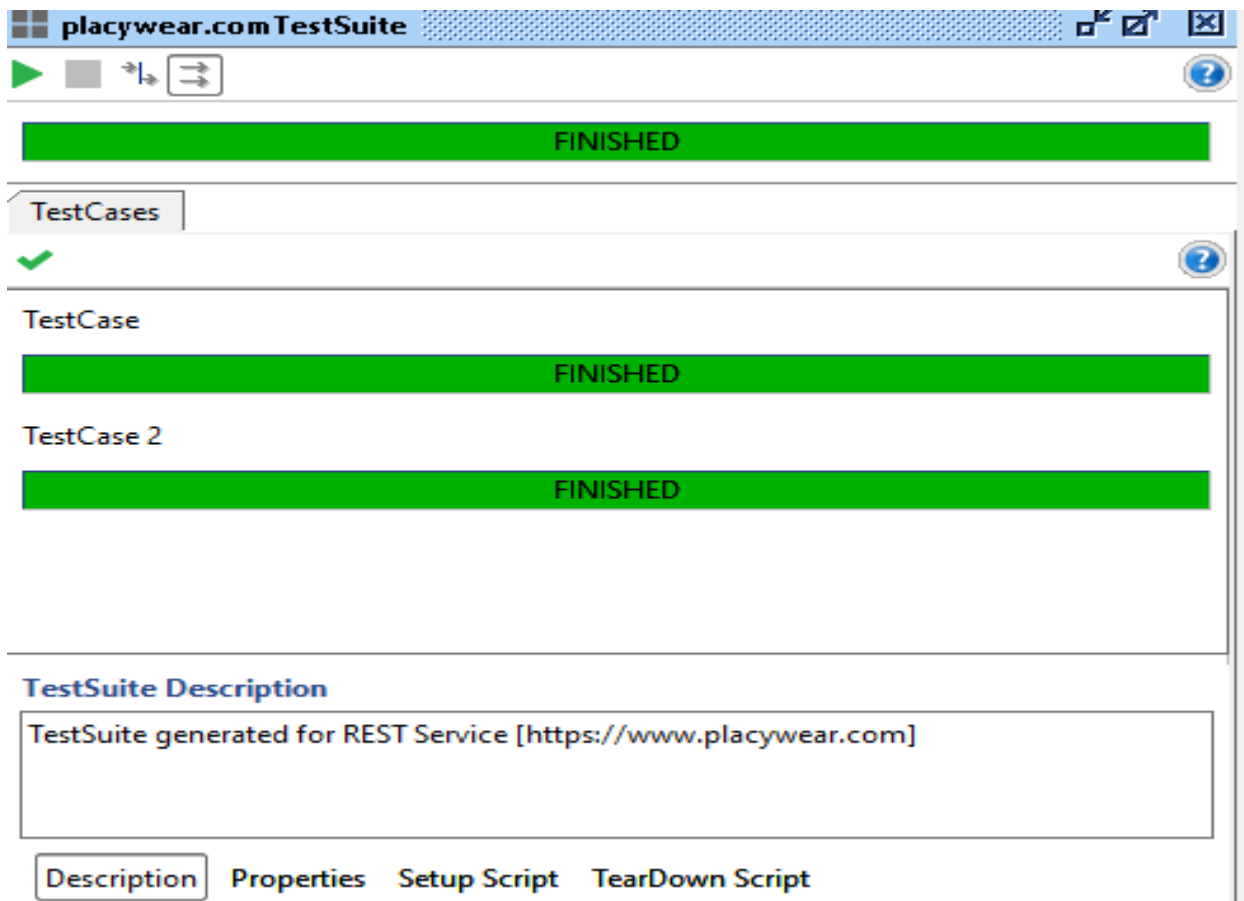
TestSuite generated for REST Service [<https://www.placywear.com>]

Description Properties Setup Script TearDown Script

10.2.8.2. Executing all test cases in Parallel manner.

The screenshot shows the 'CurrencyTestSuite' window. At the top, a green progress bar is labeled 'FINISHED'. Below this, the 'TestCases' tab is active, showing a green checkmark icon. Underneath, the 'Cop TestCase' is listed with its own green progress bar labeled 'FINISHED'. The 'TestSuite Description' section contains the text 'TestSuite generated for REST Service [https://restcountries.com]'. At the bottom, there are four tabs: 'Description' (selected), 'Properties', 'Setup Script', and 'TearDown Script'.

The screenshot shows the 'languageRESTtestsuite' window. At the top, a green progress bar is labeled 'FINISHED'. Below this, the 'TestCases' tab is active, showing a green checkmark icon. Underneath, the 'Spanish TestCase' is listed with its own green progress bar labeled 'FINISHED'. The 'TestSuite Description' section contains the text 'TestSuite generated for REST Service [https://restcountries.com]'. At the bottom, there are four tabs: 'Description' (selected), 'Properties', 'Setup Script', and 'TearDown Script'.



10.2.9. Documentation of All REST Projects (CurrencyOfCountries, LangOfCountries, Placywear)

Currency Of Country:

<file:///C:/Users/Administrator/Documents/wadl-report.html>

Language Of Country:

<file:///C:/Users/Administrator/Documents/wadl-report.html>

Placywear Website:

<file:///C:/Users/Administrator/Documents/wadl-report.html>

11.CONCLUSION:

The integration of SoapUI in the testing process of the Placywear website proves to be instrumental in ensuring its functionality, reliability, and performance. By leveraging SoapUI's capabilities of API testing, Placywear can effectively identify and address potential issues, thereby maintaining its position as a leading fashion destination on the web.

12.REFERENCES:

Website Address: <https://placywear.com>

SoapUI Tool: <https://www.soapui.org>

WSDL for SOAP Project (Calculator):

<http://www.dneonline.com/calculator.asmx?wsdl>

URL for REST Project (CurrencyOfCountries):

<https://restcountries.com.wadl>

URL for REST Project (LangOfCountries):

<https://restcountries.com.wadl>

URL for REST Project (Placywear):

<https://www.placywear.com.wadl>