

[Community](#)
Tutorials
[Web Service Sample Projects](#)
[SOAP Sample Project](#)
[REST Sample Project](#)
[Data Driven Testing](#)
[Twitter](#)
[Facebook](#)
[Home](#) / [Resources](#) / [Tutorials](#) / REST Sample Project

Example REST Test in SoapUI

This tutorial walks you through how to perform a REST test in SoapUI Open Source. For additional testing features, such as data-driven testing and CI/CD automation, check out the latest release of [ReadyAPI here](#).

REST Sample Project


Getting started with a new application is always a challenge, no matter how complex it is. In order to get started, SoapUI comes with a sample file that can be used as reference and inspiration.

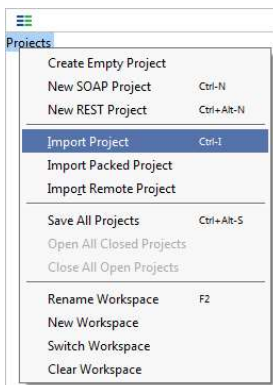
Note: If you chose not to install tutorials when installing the product, you do not have the sample file. Use the SoapUI installer to update the existing installation and get access to the sample file.

The REST sample illustrates some of the basic concepts of testing REST services in SoapUI. Try out the project, run the included mock service and tests to familiarize yourself with the SoapUI interface, and then move on to the [Your First ReadyAPIject](#) tutorial.

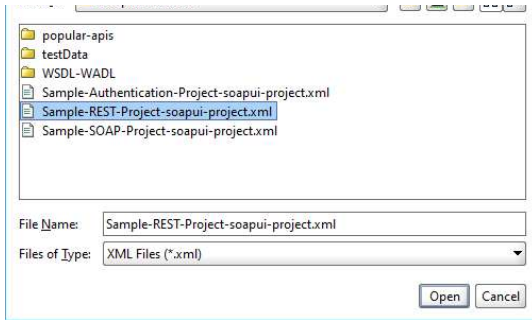
Importing the Project

Let's start by opening the project.

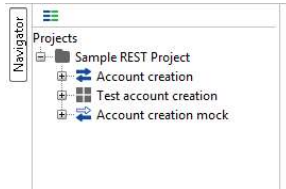
1. Click  on the main toolbar or right-click the root node in the **Navigators** panel and select **Import Project**:



2. In the **Select ReadyAPIject File** dialog, select the *Sample-REST-Project-soapui-project.xml* file from the *<Home directory>/SoapUI-Tutorials* folder.



3. The sample project will be shown in the SoapUI Navigator.





The structure of a ReadyAPIject is like this:

- Project
 - Interface
 - Test suites
 - Mock services

Track Test Performance As You Scale Your API Testing

Compare: All ReadyAPI Features →

 SoapUI	 ReadyAPI
<ul style="list-style-type: none"> ✓ Support for SOAP and REST API Testing. ✗ Easy multi-environment switching. ✗ Detailed test history and test comparison reporting. 	<ul style="list-style-type: none"> ✓ Support for SOAP, REST, and GraphQL API Testing. ✓ Easy multi-environment switching. ✓ Detailed test history and test comparison reporting.

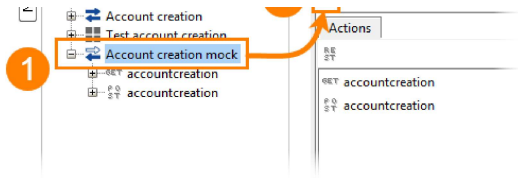
Try ReadyAPI

Run mock service

Endpoints of sample requests refer to a mock service. Run the mock service before sending a request to it. Otherwise, the test will fail. To learn more about mock services, see [Web Service Mocking](#) below.

To run the sample mock service, do the following:

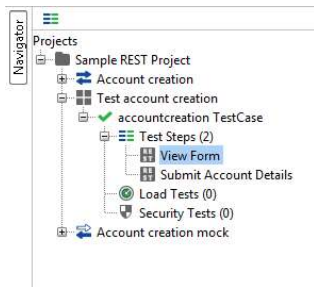
1. Double-click the *Account creation mock* node in the Navigator panel.
2. In the mock editor, click ►



Functional Testing of REST Web Services

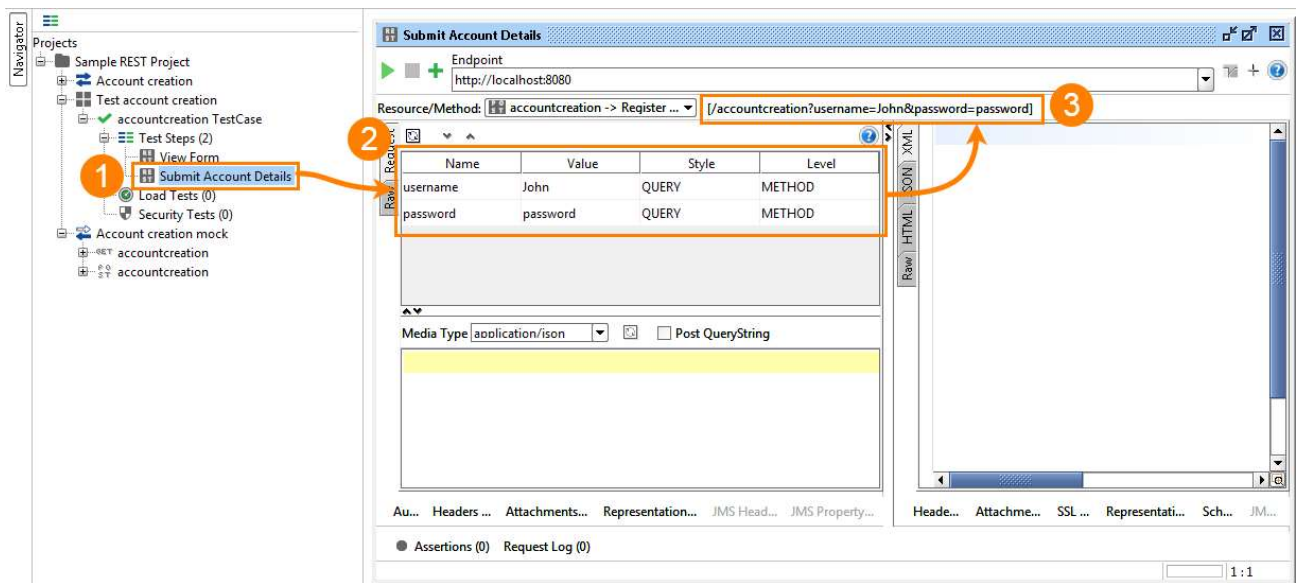
Let's look at how REST tests work in SoapUI.

1. Expand the *Test account creation* test suite and the *accountcreation* test case:




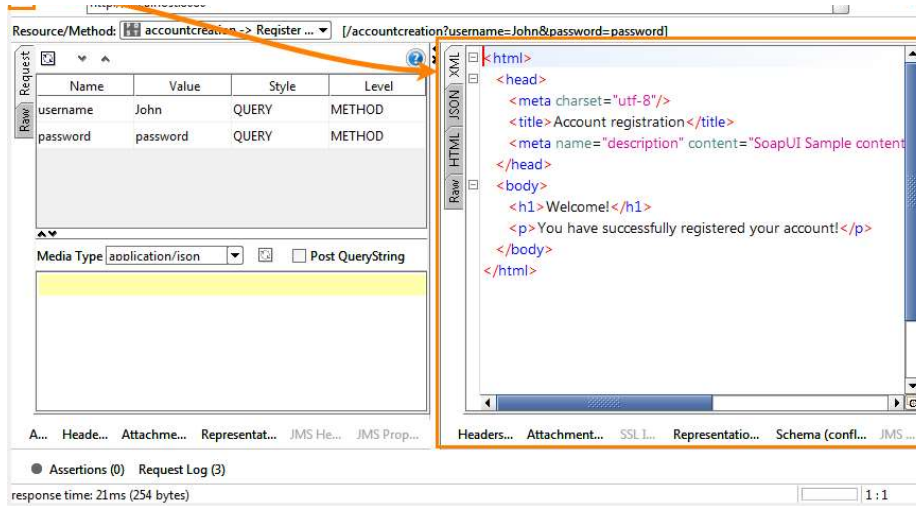
As you can see, the test case consists of two [REST Request](#) test steps. Each test step sends a request to the testing service and gets a response.

2. Double-click the *Submit Account Details* test step. This request contains two parameters. When you set values for them, the parameters are added to the request URL:



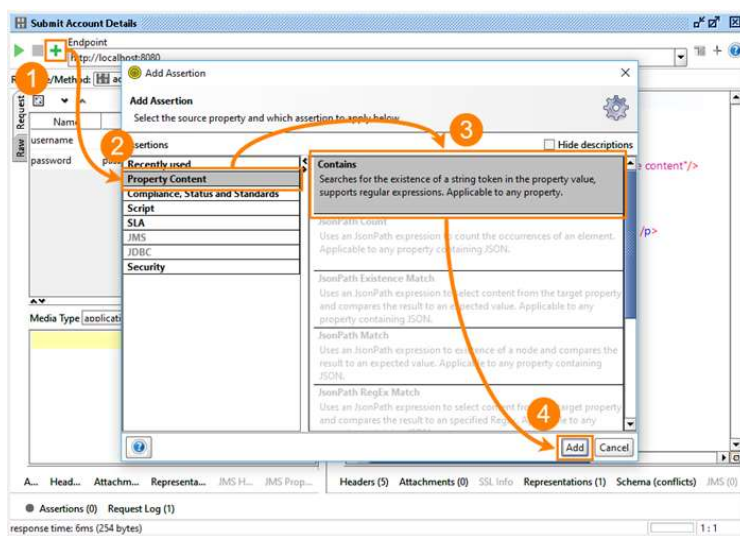
To learn more, see [Understanding REST Parameters](#).

3. Click  to send the request. You will see the response in the **Response** panel on the right:

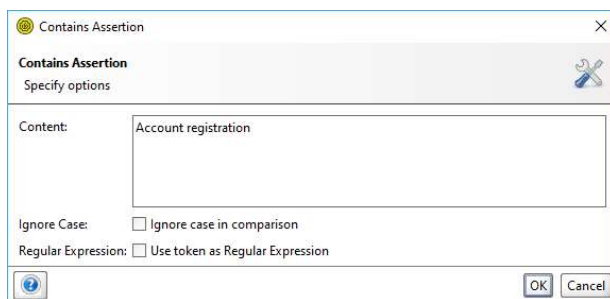


Note: Make sure you [run the mock service](#) to get a response.

4. To validate the response in SoapUI, you use *assertions*. Click **+** on the test step toolbar, select the **Property Content > Contains** assertion and click Add.



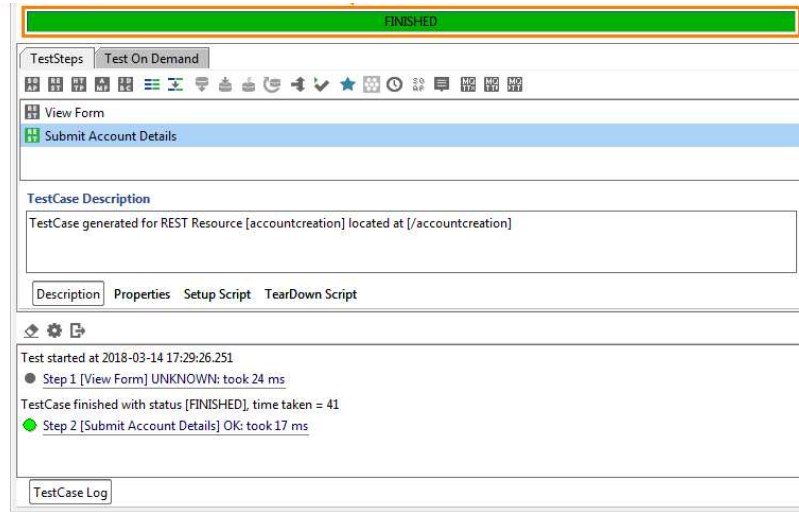
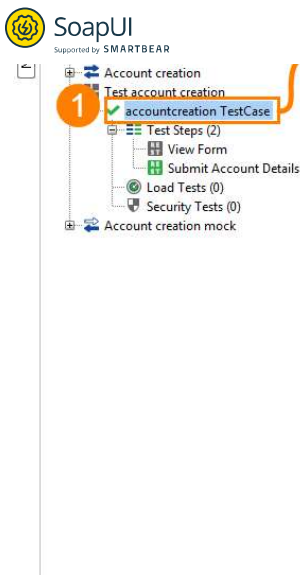
5. Enter the content that the response message must contain:



To learn more about assertions, see [Getting Started With Assertions](#)

The Test Run

After you add the assertion to the test step, you can run the test case. Double-click the test case in the **Navigator** panel and click **▶** in the test case editor. The test case progress bar shows the progress:



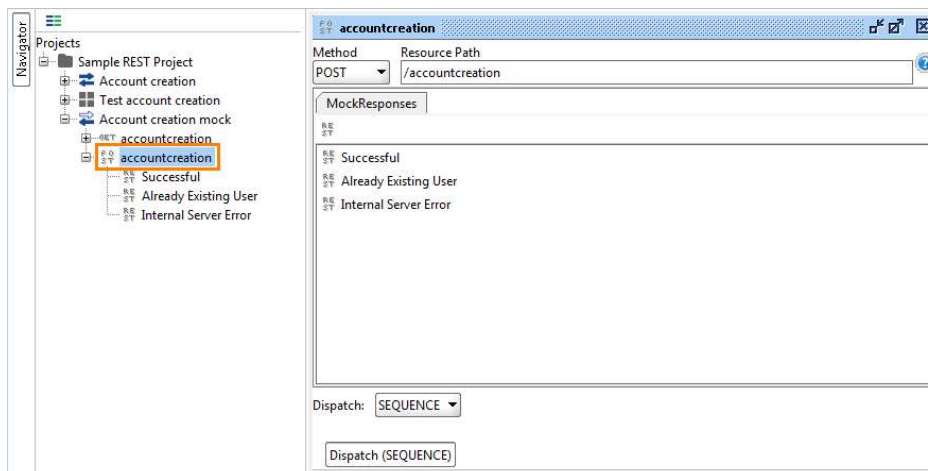
Note: If the test case fails, make sure the [mock service](#) is running.

REST Service Mocking

SoapUI allows you to simulate the functionality of a web service before it is implemented. This process is called Mocking. It is useful when you cannot use a web service for some reason.

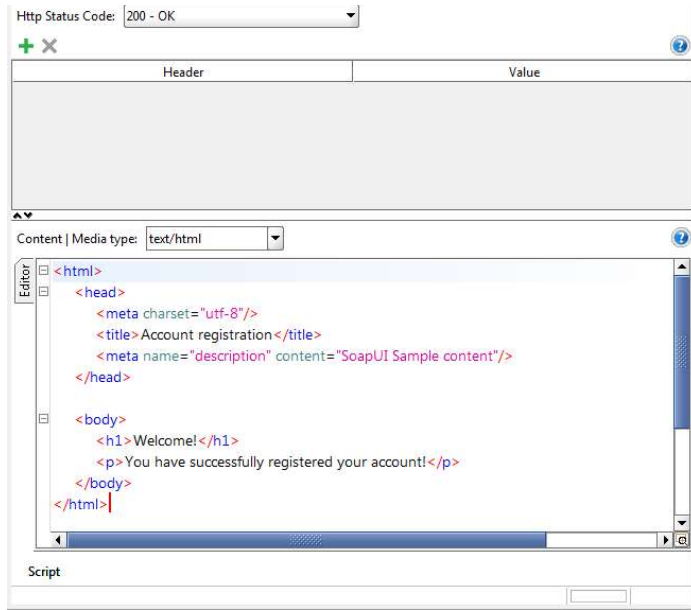
The sample REST Project contains a mock service, so you can examine how it works.

1. Expand the *Account creation mock* node and double-click the action that simulates responses to POST requests.



The mock action contains possible responses. The Dispatch setting controls which response should be sent when the mock service receives a request. To learn more, see [Mock Action Editor](#).

2. Open the *Successful* response. In the **Response** editor, you can specify the HTTP status code, headers and the response body. To learn more, see [Mock Response Editor](#).



You may also be interested in ServiceV that provides more functionality for creating virtual services. Try [ReadyAPI](#) for free.

Open Source

[About SoapUI](#)
[Download](#)
[Tutorials](#)
[Features](#)

Docs

[REST Testing](#)
[SOAP Testing](#)
[Functional API Testing](#)
[API Load Testing](#)
[Security Testing](#)
[Mocking](#)

Pro Tools

[ReadyAPI](#)
[Store](#) ↗

More

[Community](#) ↗
[ReadyAPI Support](#) ↗
[Training & Certification](#)
[Contact Us](#) ↗

Explore SmartBear Products 

[About Us](#) | [Careers](#) | [Solutions](#) | [Partners](#) | [Responsibility](#)

[Contact Us](#)  | +1 617-684-2600 USA | +353 91 398300 EUR | +61 391929960 AUS



© 2023 SmartBear Software. All Rights Reserved.

[Privacy](#) | [Terms of Use](#) | [Website Terms of Use](#) | [Security](#)

