

Web Functional Testing

The following exercises demonstrate how to use SOAtest to perform functional testing on the Web interface. It covers:

- [Introduction](#)
- [Cross-browser Testing and Validation Video Overview](#)
- [Recording in a Browser](#)
- [Adding a Data Source](#)
- [Parameterizing a Form Input](#)
- [Configuring Validation on a Page Element](#)
- [Configuring a Browser Stub](#)
- [Playing a Recorded Scenario in a Browser](#)
- [Performing Static Analysis During Web Scenario Execution](#)

Introduction

Web interface testing is difficult to automate. Teams often abandon automated testing in favor of manual testing due to too many false positives or too much effort required to maintain the test suites.

SOAtest facilitates the creation of automated test suites that are reliable and dependable. Its ability to isolate testing to specific elements of the Web interface eliminates noise and provides accurate results.

SOAtest isolates and tests individual application components for correct functionality across multiple browsers without requiring scripts. Dynamic data can be stubbed out with constant data to reduce test case noise. Validations can be performed at the page object level as well as the HTTP message level. SOAtest also verifies the client-side JavaScript engine under expected and unexpected conditions through asynchronous HTTP message stubbing.

Cross-browser Testing and Validation Video Overview

Recording in a Browser

Before performing the following exercises, ensure that you have started the ParaBank Server (as described in [Setting Up ParaBank](#)) and that you can navigate successfully to the default address (`localhost:8080/parabank`). Close the browser window after you verify this.

To record in a browser:

- Right-click the project from the previous exercises, then choose **Add New Test (.tst) File** from the shortcut menu.
- Enter a name for the file, then click **Next**.
- Select **Web**; Record web scenario and click **Next**.

In the first Record Web Scenario wizard page, ensure that **Record new web scenario** is selected, then click **Next**.

Complete the next Record Web Scenario wizard page as follows:

- Enter `Web Functional Testing` in the **Test Suite Name** field.
- Enter `localhost:8080/parabank` in the **Start Recording From** field.

Ensure that the following options are checked, and the others are not:

- Generate Functional Test**
- Generate Asynchronous Request Tests**

If you will be using Internet Explorer to record/playback this test, use the name of the local machine instead of `localhost`—here and throughout this tutorial lesson.

