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Templar Sanity Test Automation Suite Document

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If you have comments /queries about this documentation, email them to:

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About Templar Sanity Test Automation Suite (TSTAS)

Templar sanity test suite can be used to run specialized tests to reveal potential problems with major Templar admin application flow. TSTAS is used for running repeatable data driven functional tests against Templar admin application. This test suite can be used for automating most routine processes in Templar, such as:

- Create new site.
- Create new template.
- Create user in the Admin Panel.
- Besides this it allows new tests to be created and added to the suite

TSTAS is based on Selenium (2.0) Web Driver and MS Test framework. It is used for both writing test automation scripts and for performing the actual testing. Test automation scripts created within the test suite can be used for testing most Templar functionality. TSTAS allows QA specialists to quickly develop all kinds of tests for the current Templar version, and the tests can be reused at any time. Templar users can run a single test independently, a group of tests together (a test suite), or all available tests from a single command.

This guide provides instructions on using the Templar Sanity Test Automation Suite. It explains the environment requirements for the TSTAS and describes the process of running tests and reviewing the results.

Setup of Templar Sanity Test Automation Suite

A. Environment

Browser: Currently supported browsers are:

- Mozilla Firefox up to version 28.
- Chrome up to version 33.

IDE: VS 2012.

B. Setup configuration

All the paths of Add.config file are relative to solution folder.

The following changes are requires in App.config file for setting up the test suite.

```xml
<appSettings>
  <add key="ApplicationUrl" value="http://localhost/Templar/login.aspx" />
  <add key="UserName" value="sa" />
  <add key="PassWord" value="zaq1ZAQ!" />
  <add key="WebDriver" value="Firefox"/>
  <!--<add key="WebDriver" value="Chrome"/>-->
</appSettings>
```

Figure 1- App.config

1. Application URL: Enter correct application URL of Templar application in the value field.

   ```xml
   <add key="ApplicationUrl" value="value" />
   ```

2. Credential: Enter proper credential of Templar application in the value field.

   ```xml
   <add key="UserName" value="value" />

   <add key="PassWord" value="value" />
   ```

3. For running test cases in Chrome Browser: Only replace the value Firefox with Chrome in app.comfig file.

   ```xml
   <add key="WebDriver" value="Chrome"/>
   ```

C. Select Test settings in VS 2012

For running TSTAS in VS 2012, we should select test settings first.

- Open project in VS 2012.
- Go to Test, Test Settings then Select Test settings.
- Select local.testsettings

Test cases in Templar Sanity Test Automation Suite

Summary

1. Create a site from scratch with status On-Line.
2. Create Site from Template.
3. Create Site from Template with option of selective pages.
4. Create new Template from existing zip file.
5. Create new Template from available sites.
6. Add a new user.
7. Add a new Widget and Search Added Widget.
8. Update Widget from Back-Up file.
9. Update Widget from different server.

1. Create a site from scratch with status On-Line

This test case creates a Site from Scratch with status On-Line (including Site Details, Themes, SEO, Error Handling, Site Layout, Globalization and Script). This test case also adds global culture, global theme for removing dependency and default page in site for publish complete Site. This test case covers following flow.

- Add Global Culture: Add global culture.
- Add Global Theme: Add global theme.
- Add Default Page: Add default page in site.
- Create Site: Create site with status online.
- Publish Site: Publish complete site.

2. Create a site from Template

This test case creates a Site from Template (including Site Details, Themes, and Script). This test case also adds template (template is created by external zip file), global theme for removing dependency and default page in site for Publish site with advanced option.

- Add Template: Create template from external zip file.
- Add Global Theme: Add global theme.
- Add Default Page: Add default page in site.
- Create Site: Create site with all important details.
- Advanced Publish Site: Publish site with advanced option (publish the particular site with selected Items).

3. Create a site from Template with option of selective pages

This test case creates a Site from Template with option of selective pages (including Site Details, Themes, and Script). This test case also adds template (template is created by available site), global theme for removing dependency and default page in site for Publish complete site.

- Add Template: Create template from external zip file.
- Add Global Theme: Add global theme.
- Add Default Page: Add default page in site.
- Create Site: Create site with option of selection of pages.
- Publish Site: Publish complete site.

4. Create new Template from existing zip file

This test case creates a new template from external supported zip file by entering name and description of template.

5. Create new Template from available sites

This test case creates a new template from available site by entering name and description of template and selection of one of the available site.

6. Add a new user

This test case adds a new user with Admin Authorization, search added user and delete added user. This test case covers following flow.

- Add New User: Adds a new user with Admin Authorization.
- Search User: Search added user.
- Delete User: Delete created user.

7. Add a new Widget and Search Added Widget

This test case adds a new Widget and Search Added Widget. This test case covers following flow.

- Add New Widget: adds a new Widget by entering Widget Name, Widget URL, Description, Icon, and State.
- Search Widget: Search added Widget.

8. Update Widget from Back-Up file

This test case updates widget from external supported zip file.

9. Update Widget from different server

This test case updates Widget from different server by logging other deployment, also check feature of Update and Continue button.

Execution of Templar Sanity Test Automation Suite & view results

There are two way for executing sanity test suite.

    A. From VS 2012
    B. From Command Line

1. Execute sanity test suite from VS 2012

Run test suite from VS 2012.
- Open and build the project.
- In Test explorer right click on test and say run selected test case.

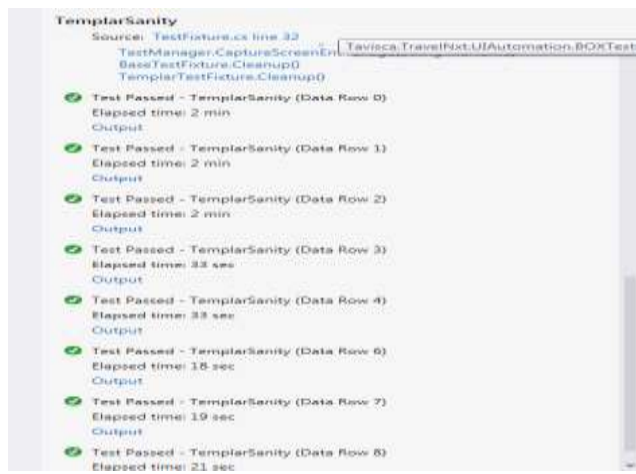Results are displayed in bottom of test explorer.

Figure 2- Report
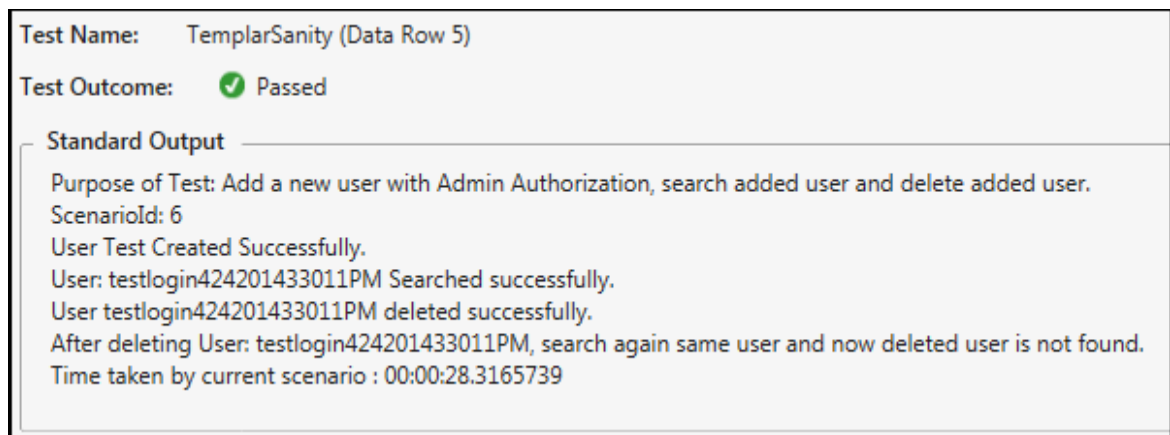
Click on output link available under every test case for details.

Figure 3- Output

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2. Execute sanity test suite from Command Line

Run TemplarSanitySuite.bat file

We can run test suite by simply executing **TemplarSanitySuite.bat file**. TemplarSanitySuite.bat file is available under **Result** folder.

 Commands are available in bat file for following task.

1. Open command line and build the solution first.
2. After building solution run tests.
3. After running suite test report is generated but it is in .trx format. So we can convert report from trx to html. There are two tools available one is MSXSL.exe and other is MSTestReport.xsl which helps to convert TemplarUITestsReport.trx to TemplarUITestsReport.html format.

Note: Second time when we run bat file then firstly it deletes both last generated file (TemplarUITestsReport.trx and TemplarUITestsReport.html) and then creates new.

HTML Report

HTML Report is generated under **Result** folder with name of TemplarUITestsReport.html

Figure 4- HTML Report

Failure Screenshots

TSTAS also capture the screen shot of failure test cases. There is an automatic folder generated under the Result folder at the time of running test cases. If any test case fails then IN folder is generated under this folder. All the failure screenshots are comes under IN folder.

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FAQ's

1. How can I add\remove test cases from the test suite?

There is a field called Type in ScenarioData.xlsx file. Given type for all test cases is sanity.

So when you want add test cases in the TSTAS then add type sanity in ScenarioData.xlsx file and if you want remove any test case from the suite just append something in the end of type or change the type. After changing type just run data generator test for generating new data set.

Example: Change Type of test as Sanity to SanityTest.

Figure 5- ScenarioData.xlsx file

2. Why I run Data Generator test case?

Data generator test case generates data and that data used for running test case. Data generator read data from ScenarioData.xlsx file and convert it into SanitySmokeTest.txt file. So every time if we do changes in ScenarioData.xlsx file we must run data generator test case from VS 2012.

Steps for running Data Generator Test

1- Go to VS 2012.
2- Open Test explorer and build the project.
3- Under DataGeneratorTests, SanityTestDataSource test available.
4- Right click on SanityTestDataSource and say run selected test.

Conclusion

This was a brief overview of the Templar Sanity Test Automation Suite. In case you have any queries feel free to revert back with a mail to templar@tavisca.com .