



Advanced UFT 12 for Test Engineers Cookbook



Synchronizing a test with a web page loading

An essential requirement from any automated test script is that it must synchronize with Application Under Test (AUT). This is especially true for GUI automation, because the test script actually attempts to emulate the actions that a human user would perform on the application's front end. Hence, it is of utmost importance to take care that operations on a page are carried out when the controls are fully loaded and ready to accept inputs.

How to do it...

All web classes, Page, WebEdit, WebButton, Image, and so on, provide an attribute that indicates the state of the element. This attribute is readystate, and its value ranges from 0 (uninitialized) to 4 (complete). So basically, to synchronize our script with the full loading of a web element, we need to wait until its readystate attribute reaches the value

The following generic function accepts an element and a timeout period, and it waits until the element reaches the load complete state or timeout:

Function WaitUntilComplete(o, timeout)



How it works...

The WaitUntilComplete function takes two arguments, the object to synchronize with and the maximum time we are prepared to wait in milliseconds. We initialize this function optimistically, and then loop while the native readystate attribute is not equal to 4 (complete), waiting for an interval of 200 milliseconds each time, as defined in the C INTERVAL MSEC constant. The iElapsed variable increases with each cycle, and a check is performed to see if it reaches the timeout. If it reaches timeout, we exit the ${\tt Do}$ loop after assigning the function to return the value False. If true is returned, then it means that the complete state was reached before the timeout; therefore, our test can continue as planned.

Note

The ${\tt readystate}$ attribute is accessed through the element's Object property, which provides access to the native properties

Recent Topics Tutorials Highlights Settings Feedback (http://community.safa

Settings

10 days left in your trial. Subscribe.

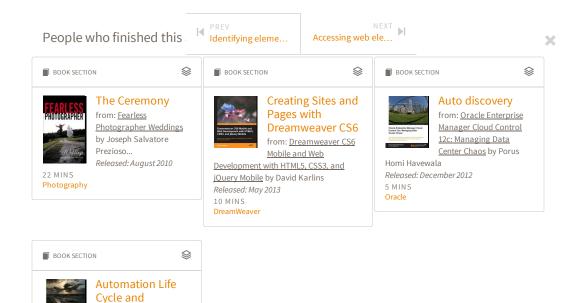
Sign Out

(http://community.safaribooksonline.com/)

Sign Out







 $Recommended \ / \ Queue \ / \ Recent \ / \ Topics \ / \ Tutorials \ / \ Settings \ / \ Blog \ / \ Feedback \ (http://community.safaribooksonline.com/) \ / \ Sign \ Out$

© 2015 Safari.

Ashish Bhargava Released: November 2013

14 MINS Software Development

Terms of Service / Privacy Policy

Automation Goals from: Designing and Implementing Test
Automation Frameworks with OTP by