# Testing Specifications
## for nSite Central

*prepared by*

**Team DunKyan**
*Michael Dunn*
*Ryan Sessions*
*Kyle Kerrigan*

# I. Introduction

This document describes in detail all tests performed by Team DunKyan to ensure the quality of nSite Central.

# II. Base States

| Name | BS-1: nSite Central is loaded in the browser and is at the Login Page. |
|---|---|
| Preconditions | nSite Central Solution is open in Visual Studio 2005. |
| Steps | 1. From the "Debug" menu, select "Start Without Debugging (Ctrl+F5)." |
| Expected Results | nSite Central opens in Internet Explorer and is at the Login Page. |

| Name | BS-2: A user whose "isAdmin" permission is set as "false" is logged into the Reporting Application. |
|---|---|
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user whose "isAdmin" permission is set as "false." |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page to the Reporting Application. The default view is "Query Builder." |

| Name | BS-3: A user whose "isAdmin" permission is set as "true" is logged into the I.S. Management Application. |
|---|---|
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user whose "isAdmin" permission is set as "true." |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page to the I.S. Management Application. The default view is "Site Manager." |

| Name | BS-4: A user whose "isAdmin" permission is set as "true" is logged into the Reporting Application from the I.S. Management Application. |
|---|---|
| Preconditions | BS-3. |
| Steps | 1. Click the "Reporting App" button. |
| Expected Results | The user is directed from the I.S. Management Application to the Reporting Application, and an additional button named "I.S. Management" is visible to the left of the "Contact Admin" button. The default view is still "Query Builder." |

# III. Test Cases

## A. Login Test Cases

| Name | TC-1: Verify that the superuser account works correctly. |
|---|---|
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the superuser username and superuser password. |
| Steps | 1. Enter the superuser username in the "User Name" field.<br>2. Enter the superuser password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page to a special page inside the Reporting Application in which all data from the security database is visible. |

| Name | TC-2: Verify that a user whose "isAdmin" permission is set as "false" logs into the Reporting Application. |
|---|---|
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user whose "isAdmin" permission is set as "false." |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page to the Reporting Application. |

| Name | TC-3: Verify that a user whose "isAdmin" permission is set as "true" logs into the I.S. Management Application. |
|---|---|
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user whose "isAdmin" permission is set as "true." |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page to the I.S. Management Application. |

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|---|---|
| Name | TC-4: Verify that a user whose status is set as inactive cannot log in successfully and receives the error message "Your status is currently set as inactive." |
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user whose status is set as inactive. |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page back to the Login Page, and the error message "Your status is currently set as inactive" is displayed. |

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|---|---|
| Name | TC-5: Verify that a user who is not in the Employee table of the security database cannot log in successfully and receives the error message "Your login attempt was not successful. Please try again." |
| Preconditions | nSite Central is loaded in the browser and is at the Login Page (BS-1). Tester knows the username and password of a user who is known to not exist in the Employee table of the security database. |
| Steps | 1. Enter the user's username in the "User Name" field.<br>2. Enter the user's password in the "Password" field.<br>3. Click the "Log In" button. |
| Expected Results | The user is directed from the Login Page back to the Login Page, and the error message "Your login attempt was not successful. Please try again." is displayed. |

## B. Logout Test Cases

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|---|---|
| Name | TC-6: Verify that a user whose "isAdmin" permission is set as "false" and has already logged into the Reporting Application can successfully log out. |
| Preconditions | BS-2. User can be in "Query Builder" view or "Results Viewer" view. |
| Steps | 1. Click the "Logout" button. |
| Expected Results | The user is directed from the Reporting Application back to the Login Page. |

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|---|---|
| Name | TC-7: Verify that a user whose "isAdmin" permission is set as "true" and has already logged into the I.S. Management Application can successfully log out. |
| Preconditions | BS-3. User can be in "Site Manager" view, "User Manager" view, or "Profile Manager" view. |
| Steps | 1. Click the "Logout" button. |
| Expected Results | The user is directed from the I.S. Management Application back to the Login Page. |

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|---|---|
| Name | TC-8: Verify that a user whose "isAdmin" permission is set as "true" and has already logged into the Reporting Application from the I.S. Management Application can successfully log out. |
| Preconditions | BS-4. User can be in "Query Builder" view or "Results Viewer" view. |
| Steps | 1. Click the "Logout" button. |
| Expected Results | The user is directed from the Reporting Application back to the Login Page. |

## C. View-Switching Test Cases

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|---|---|
| Name | TC-9: Verify that a user logged into the Reporting Application can switch to the "Results Viewer" view. |
| Preconditions | BS-2 or BS-4. |
| Steps | 1. Click the "Results Viewer" button. |
| Expected Results | The user is directed to the "Results Viewer" view of the Reporting Application. |

| | |
|---|---|
| Name | TC-10: Verify that a user logged into the Reporting Application can switch to the "Query Builder" view. |
| Preconditions | BS-2 or BS-4. |
| Steps | 1. Click the "Query Builder" button. |
| Expected Results | The user is directed to the "Query Builder" view of the Reporting Application. |

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|---|---|
| Name | TC-11: Verify that a user logged into the I.S. Management Application can switch to the "Site Manager" view. |
| Preconditions | BS-3. |
| Steps | 1. Click the "Site Manager" button. |
| Expected Results | The user is directed to the "Site Manager" view of the I.S. Management Application. |

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|---|---|
| Name | TC-12: Verify that a user logged into the I.S. Management Application can switch to the "Profile Manager" view. |
| Preconditions | BS-3. |
| Steps | 1. Click the "Profile Manager" button. |
| Expected Results | The user is directed to the "Profile Manager" view of the I.S. Management Application. |

| | |
|---|---|
| Name | TC-13: Verify that a user logged into the I.S. Management Application can switch to the "User Manager" view. |
| Preconditions | BS-3. |
| Steps | 1. Click the "User Manager" button. |
| Expected Results | The user is directed to the "User Manager" view of the I.S. Management Application. |

## D. Contact Admin Test Cases

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|---|---|
| Name | TC-14: Verify that a user logged into the Reporting Application can open a pop-up window in which he or she can email any questions/problems/suggestions to the nSite Central administrator. |
| Preconditions | BS-2 or BS-4. |
| Steps | 1. Click the "Contact Admin" button. |
| Expected Results | A pop-up email composition window appears using the local machine's default email software (such as Microsoft Outlook) in which a user may send any questions/problems/suggestions to the nSite Central administrator. |

| | |
|---|---|
| Name | TC-15: Verify that a user logged into the I.S. Management Application can open a pop-up window in which he or she can email any questions/problems/suggestions to the nSite Central administrator. |
| Preconditions | BS-3. |
| Steps | 1. Click the "Contact Admin" button. |
| Expected Results | A pop-up email composition window appears using the local machine's default email software (such as Microsoft Outlook) in which a user may send any questions/problems/suggestions to the nSite Central administrator. |

## E. Reporting Application Functionality Test Cases

| | |
|---|---|
| Name | TC-16: Verify that a user logged into the Reporting Application can create a query. |
| Preconditions | BS-2. |
| Steps | 1. Select "Custom" from the "Report" dropdown list.<br>2. Enter the name of the query in the "Report Name" field.<br>3. Enter the SQL syntax of the query in the "SQL Command" field. |
| Expected Results | The user has successfully created a query. |

| | |
|---|---|
| Name | TC-17: Verify that a user logged into the Reporting Application can save a query. |
| Preconditions | BS-2. |
| Steps | 1. Select "Custom" from the "Report" dropdown list.<br>2. Enter the name of the query in the "Report Name" field.<br>3. Enter the SQL syntax of the query in the "SQL Command" field.<br>4. Click the "Save Report" button. |
| Expected Results | The page is now refreshed, and the new query is added to the "Report" dropdown list. The new query appears as the selected query in the "Report" dropdown list. The "Report Name" field contains the name of the new query, and the "SQL Command" field contains the SQL syntax of the new query. The "Shared" checkbox contains the new query's shared status. |

| Name | TC-18: Verify that a user logged into the Reporting Application can load a query. |
|---|---|
| Preconditions | BS-2. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Click on the "Report" dropdown list.<br>2. Click on any item in the dropdown list below "Custom". |
| Expected Results | The page is now refreshed, and the query selected by the user from the "Report" dropdown list appears as the selected query in the dropdown list. The "Report Name" field contains the name of the selected query, and the "SQL Command" field contains the SQL syntax of the selected query. The "Shared" checkbox contains the selected query's shared status. |

| Name | TC-19: Verify that a user logged into the Reporting Application can modify a query. |
|---|---|
| Preconditions | BS-2. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Follow steps in TC-18 to load a query.<br>2. Change the name of the query in the "Report Name" field if desired.<br>3. Change the SQL syntax of the query in the "SQL Command" field if desired.<br>4. Click the "Save Report" button. |
| Expected Results | The page is now refreshed, and the newly-modified query appears as the selected query in the dropdown list. The "Report Name" field contains the name of the query, and the "SQL Command" field contains the SQL syntax of the query. The "Shared" checkbox contains the query's shared status. |

| Name | TC-20: Verify that a user logged into the Reporting Application can execute a query. |
|---|---|
| Preconditions | BS-2. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Select the remote site or sites which will receive the query by clicking on one or more site checkboxes in the right-hand side of the "Sites to Search" box.<br>2. Follow steps in TC-18 to load a query, or follow steps in TC-16 to create a query.<br>3. Click the "Execute Report" button. |
| Expected Results | The user is directed to the "Results Viewer" view of the Reporting Application, where the results of the query are displayed. |

| Name | TC-21: Verify that a user logged into the Reporting Application from the I.S. Management Application can create a query. |
|---|---|
| Preconditions | BS-4. |
| Steps | 1. Select "Custom" from the "Report" dropdown list.<br>2. Enter the name of the query in the "Report Name" field.<br>3. Enter the SQL syntax of the query in the "SQL Command" field.<br>4. If desired, check the "Shared" checkbox to share the query with other users. |
| Expected Results | The user has successfully created a query. |

| Name | TC-22: Verify that a user logged into the Reporting Application from the I.S. Management Application can save a query. |
|---|---|
| Preconditions | BS-4. |
| Steps | 1. Select "Custom" from the "Report" dropdown list.<br>2. Enter the name of the query in the "Report Name" field.<br>3. Enter the SQL syntax of the query in the "SQL Command" field.<br>4. If desired, check the "Shared" checkbox to share the query with other users.<br>5. Click the "Save Report" button. |
| Expected Results | The page is now refreshed, and the new query is added to the "Report" dropdown list. The new query appears as the selected query in the "Report" dropdown list. The "Report Name" field contains the name of the new query, and the "SQL Command" field contains the SQL syntax of the new query. The "Shared" checkbox contains the new query's shared status. |

| Name | TC-23: Verify that a user logged into the Reporting Application from the I.S. Management Application can load a query. |
|---|---|
| Preconditions | BS-4. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Click on the "Report" dropdown list.<br>2. Click on any item in the dropdown list below "Custom". |
| Expected Results | The page is now refreshed, and the query selected by the user from the "Report" dropdown list appears as the selected query in the dropdown list. The "Report Name" field contains the name of the selected query, and the "SQL Command" field contains the SQL syntax of the selected query. The "Shared" checkbox contains the selected query's shared status. |

| Name | TC-24: Verify that a user logged into the Reporting Application from the I.S. Management Application can modify a query. |
|---|---|
| Preconditions | BS-4. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Follow steps in TC-23 to load a query.<br>2. Change the name of the query in the "Report Name" field if desired.<br>3. Change the SQL syntax of the query in the "SQL Command" field if desired.<br>4. Change the value of the "Shared" checkbox if desired.<br>5. Click the "Save Report" button. |
| Expected Results | The page is now refreshed, and the newly-modified query appears as the selected query in the dropdown list. The "Report Name" field contains the name of the query, and the "SQL Command" field contains the SQL syntax of the query. The "Shared" checkbox contains the query's shared status. |

| Name | TC-25: Verify that a user logged into the Reporting Application from the I.S. Management Application can execute a query. |
|---|---|
| Preconditions | BS-4. At least one saved query is visible to the user in the "Report" dropdown list. |
| Steps | 1. Select the remote site or sites which will receive the query by clicking on one or more site checkboxes in the right-hand side of the "Sites to Search" box.<br>2. Follow steps in TC-23 to load a query, or follow steps in TC-21 to create a query.<br>3. Click the "Execute Report" button. |
| Expected Results | The user is directed to the "Results Viewer" view of the Reporting Application, where the results of the query are displayed. |

## F. I.S. Management Application Functionality Test Cases

| Name | TC-26: Verify that a user logged into the I.S. Management Application can create a new user. |
|---|---|
| Preconditions | BS-3. User is in the "User Manager" view. |
| Steps | 1. Choose the desired security profile from the "Security Profile" dropdown list.<br>2. Enter the first name of the new user in the "First Name" field.<br>3. Enter the last name of the new user in the "Last Name" field.<br>4. Enter the email address of the new user in the "Email" field.<br>5. In the "Permissions" panel, modify the new user's permissions to security items as desired.<br>6. Check either the "Yes" radio button or the "No" radio button to set the new user's active status.<br>7. Click the "Create New User" button. |
| Expected Results | The page is now refreshed, and the new user is added to the user table at the top of the page. The form in the "User Manager" view is cleared and refreshed to its default state. A password is randomly generated for the new user and sent to the new user's email address. |

| Name | TC-27: Verify that a user logged into the I.S. Management Application can select an existing user from the user table. |
|---|---|
| Preconditions | BS-3. User is in the "User Manager" view. At least one user is already present in the user table at the top of the page. |
| Steps | 1. Click the "Edit" hyperlink next to an already existing user, which is located in the far right column. |
| Expected Results | The page is now refreshed, and the selected user's information is loaded into the form. The "Delete" column in the far left of the user table is now hidden, and the text of the "Create New User" button is changed to "Modify Existing User." |

| Name | TC-28: Verify that a user logged into the I.S. Management Application can modify an existing user. |
|---|---|
| Preconditions | BS-3. TC-27. |
| Steps | 1. If desired, change the selected user's security profile from the "Security Profile" dropdown list.<br>2. If desired, change the selected user's first name in the "First Name" field.<br>3. If desired, change the selected user's last name in the "Last Name" field.<br>4. If desired, change the selected user's email address in the "Email" field.<br>5. If desired, modify the selected user's permissions to security items in the "Permissions" panel.<br>6. If desired, change the selected user's active status in the "Is User Active?" field.<br>7. Click the "Modify Existing User" button. |
| Expected Results | The page is now refreshed, and the selected user's information is updated in the user table at the top of the page. The form in the "User Manager" view is cleared and refreshed to its default state. The "Delete" column in the far left of the user table is visible, and the text of the "Modify Existing User" button is changed to "Create New User." |

| Name | TC-29: Verify that a user logged into the I.S. Management Application can delete an existing user from the user table. |
|---|---|
| Preconditions | BS-3. User is in the "User Manager" view. At least one user is already present in the user table at the top of the page. |
| Steps | 1. Click the "Delete" hyperlink next to an already existing user, which is located in the far left column.<br>2. A pop-up window appears with the text "Are you sure you want to delete this entry?" Click "Yes." |
| Expected Results | The page is now refreshed, and the selected user is deleted from the table. |

| Name | TC-30: Verify that a user logged into the I.S. Management Application can create a new remote site. |
|---|---|
| Preconditions | BS-3. User is in the "Site Manager" view. |
| Steps | 1. Enter the name of the new remote site in the "Site Name" field.<br>2. Enter the IP address of the new remote site in the "IP Address" field.<br>3. Enter the port number of the new remote site in the "Port Number" field.<br>4. Enter the username used for authentication purposes by the remote site in the "User ID" field.<br>5. Enter the password used for authentication purposes by the remote site in the "Password" field.<br>6. Select a group in which to classify the new remote site from the "Group ID" dropdown list.<br>7. Click the "Create New Site" button. |
| Expected Results | The page is now refreshed, and the new remote site is added to the remote site table at the top of the page. The "Site Information" form is cleared and refreshed to its default state. |

| Name | TC-31: Verify that a user logged into the I.S. Management Application can select an existing remote site from the remote site table. |
|---|---|
| Preconditions | BS-3. User is in the "Site Manager" view. At least one remote site is already present in the remote site table at the top of the page. |
| Steps | 1. Click the "Edit" hyperlink next to an already existing remote site, which is located in the far right column. |
| Expected Results | The page is now refreshed, and the selected remote site's information is loaded into the form. The "Delete" column in the far left of the remote site table is now hidden, and the text of the "Create New Site" button is changed to "Modify Existing Site." |

| Name | TC-32: Verify that a user logged into the I.S. Management Application can modify an existing remote site. |
|---|---|
| Preconditions | BS-3. TC-31. |
| Steps | 1. If desired, change the selected remote site's name in the "Site Name" field.<br>2. If desired, change the selected remote site's IP address in the "IP Address" field.<br>3. If desired, change the selected remote site's port number in the "Port Number" field.<br>4. If desired, change the selected remote site's username used for authentication purposes in the "User ID" field.<br>5. If desired, change the selected remote site's password used for authentication purposes in the "Password" field.<br>6. If desired, change the group in which the selected remote site is classified by changing the selected value in the "Group ID" dropdown list.<br>7. Click the "Modify Existing Site" button. |
| Expected Results | The page is now refreshed, and the selected remote site's information is updated in the remote site table at the top of the page. The "Site Information" form is cleared and refreshed to its default state. The "Delete" column in the far left of the remote site table is visible, and the text of the "Modify Existing Site" button is changed to "Create New Site." |

| Name | TC-33: Verify that a user logged into the I.S. Management Application can delete an existing remote site from the remote site table. |
|---|---|
| Preconditions | BS-3. User is in the "Site Manager" view. At least one remote site is already present in the remote site table at the top of the page. |
| Steps | 1. Click the "Delete" hyperlink next to an already existing remote site, which is located in the far left column.<br>2. A pop-up window appears with the text "Are you sure you want to delete this entry?" Click "Yes." |
| Expected Results | The page is now refreshed, and the selected remote site is deleted from the remote site table. |

| Name | TC-34: Verify that a user logged into the I.S. Management Application can create a new security profile. |
|---|---|
| Preconditions | BS-3. User is in the "Profile Manager" view. |
| Steps | 1. Enter the name of the new security profile in the "Profile Name" field.<br>2. Enter a description of the new security profile in the "Description" field.<br>3. In the "Permissions" panel, check or uncheck the checkbox for each security item as desired.<br>4. Click the "Create New Security Profile" button. |
| Expected Results | The page is now refreshed, and the new security profile is added to the security profile table at the top of the page. The "Profile Information" form is cleared and refreshed to its default state. |

| Name | TC-35: Verify that a user logged into the I.S. Management Application can select an existing security profile from the security profile table. |
|---|---|
| Preconditions | BS-3. User is in the "Profile Manager" view. At least one security profile is already present in the security profile table at the top of the page. |
| Steps | 1. Click the "Edit" hyperlink next to an already existing security profile, which is located in the far right column. |
| Expected Results | The page is now refreshed, and the selected security profile's information is loaded into the form. The "Delete" column in the far left of the security profile table is now hidden, and the text of the "Create New Security Profile" button is changed to "Modify Existing Security Profile." |

| Name | TC-36: Verify that a user logged into the I.S. Management Application can modify an existing security profile. |
|---|---|
| Preconditions | BS-3. TC-35. |
| Steps | 1. If desired, change the name of the selected security profile in the "Profile Name" field.<br>2. If desired, change the description of the selected security profile in the "Description" field.<br>3. If desired, change the selected security profile's permissions by checking or unchecking the checkbox for each security item in the "Permissions" panel.<br>4. Click the "Modify Existing Security Profile" button. |
| Expected Results | The page is now refreshed, and the selected security profile's information is updated in the security profile table at the top of the page. The "Profile Information" form is cleared and refreshed to its default state. The "Delete" column in the far left of the security profile table is visible, and the text of the "Modify Existing Security Profile" button is changed to "Create New Security Profile." |

| Name | TC-37: Verify that a user logged into the I.S. Management Application can delete an existing security profile from the security profile table. |
|---|---|
| Preconditions | BS-3. User is in the "Profile Manager" view. At least one security profile is already present in the security profile table at the top of the page. |
| Steps | 1. Click the "Delete" hyperlink next to an already existing security profile, which is located in the far left column.<br>2. A pop-up window appears with the text "Are you sure you want to delete this entry?" Click "Yes." |
| Expected Results | The page is now refreshed, and the selected security profile is deleted from the security profile table. |

## G. Session Timeout Test Cases

| Name | TC-38: Verify that a user at the Login Page times out if he or she makes no interactions that would cause a response from nSite Central for a specified period of time. |
|---|---|
| Preconditions | BS-1. The timeout length is set to 10 minutes. |
| Steps | 1. Wait for 10 minutes, during which no interactions of any kind are made with the browser.<br>2. Enter any username in the "User Name" field.<br>3. Enter any password in the "Password" field.<br>4. Click the "Log In" button. |
| Expected Results | The user is redirected back to the Login Page. The session timer is reset. |

| Name | TC-39: Verify that a user logged into the Reporting Application times out if he or she makes no interactions that would cause a response from nSite Central for a specified period of time. |
|---|---|
| Preconditions | BS-2. The timeout length is set to 10 minutes. |
| Steps | 1. Wait for 10 minutes, during which no interactions of any kind are made with the browser.<br>2. Make any interaction that would generate a response from the server, such as a button click. |
| Expected Results | The user is redirected back to the Login Page. The session timer is reset. |

| | |
|---|---|
| Name | TC-40: Verify that a user logged into the I.S. Management Application times out if he or she makes no interactions that would cause a response from nSite Central for a specified period of time. |
| Preconditions | BS-3. The timeout length is set to 10 minutes. |
| Steps | 1. Wait for 10 minutes, during which no interactions of any kind are made with the browser.<br>2. Make any interaction that would generate a response from the server, such as a button click. |
| Expected Results | The user is redirected back to the Login Page. The session timer is reset. |

| | |
|---|---|
| Name | TC-41: Verify that a user logged into the Reporting Application from the I.S. Management Application times out if he or she makes no interactions that would cause a response from nSite Central for a specified period of time. |
| Preconditions | BS-4. The timeout length is set to 10 minutes. |
| Steps | 1. Wait for 10 minutes, during which no interactions of any kind are made with the browser.<br>2. Make any interaction that would generate a response from the server, such as a button click. |
| Expected Results | The user is redirected back to the Login Page. The session timer is reset. |