

# Shrine Installation Verification Test

Application - Researcher

#	Test case	Expected Result	Notes																											
1.	Verify that user is able to log in the DSA-Researcher application after entering valid credentials	<div><div><div>Username*</div><div>valid username</div></div><div><div>Password*</div><div>*****</div></div><div>&gt;</div></div> <div>Enter valid login credentials</div> <div><div>SHRINE DATA STEWARD</div><div><div>Topics</div><div>History</div></div><table><tr><th>Topic Name</th><th>Date Created</th><th>Last Updated</th></tr><tr><td>new topic</td><td>3/22/2016</td><td>3/23/2016</td></tr><tr><td>test19</td><td>3/23/2016</td><td>3/25/2016</td></tr><tr><td>qj</td><td>3/25/2016</td><td>3/25/2016</td></tr><tr><td>new22</td><td>4/22/2016</td><td>4/22/2016</td></tr><tr><td>manual run</td><td>4/22/2016</td><td>4/22/2016</td></tr><tr><td>new topic</td><td>3/24/2016</td><td>5/17/2016</td></tr><tr><td>bet</td><td>7/13/2016</td><td>7/13/2016</td></tr><tr><td>cancer-patient</td><td>7/13/2016</td><td>7/13/2016</td></tr></table><div>Researchers Home Page</div></div>	Topic Name	Date Created	Last Updated	new topic	3/22/2016	3/23/2016	test19	3/23/2016	3/25/2016	qj	3/25/2016	3/25/2016	new22	4/22/2016	4/22/2016	manual run	4/22/2016	4/22/2016	new topic	3/24/2016	5/17/2016	bet	7/13/2016	7/13/2016	cancer-patient	7/13/2016	7/13/2016	<ul style="list-style-type: none"><li>• URL should launch properly</li><li>• Error is not expected after entering valid credentials</li></ul>
Topic Name	Date Created	Last Updated																												
new topic	3/22/2016	3/23/2016																												
test19	3/23/2016	3/25/2016																												
qj	3/25/2016	3/25/2016																												
new22	4/22/2016	4/22/2016																												
manual run	4/22/2016	4/22/2016																												
new topic	3/24/2016	5/17/2016																												
bet	7/13/2016	7/13/2016																												
cancer-patient	7/13/2016	7/13/2016																												

2.

Verify that Topic and History sections are available on the left side of the page

SHRINE DATA STEWARD

Topics

History

Topic Name

a

!@#\$%^&\*())\_+++++++~+++++  
++}|{"?M<>>ZXCVBNM<>?ASDF  
GHJKL:"QWERTYUIOP{zxcvbnm,  
./asdfghjkl;'qwertyuiop[]\1234567  
890-=`

• To pics page should also be the landing page after logging in. User can switch to 'History' tab by clicking it

• To pics created by currently logged in user should appear on this page

3.

Under Topics tab: Verify that user is able to create a new topic after clicking 'New' button available at the bottom right corner of the page and entering required information

	Pending	view
	Pending	view
	Pending	view
	Pending	view
	Pending	view
	Pending	view
		NEW ➤

Click on this button 'NEW' to create new topics

NEW QUERY TOPIC

Topic Name

Enter topic name

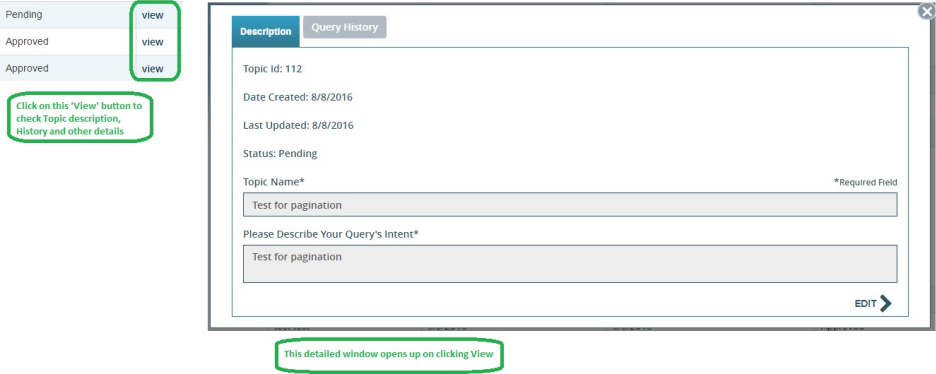
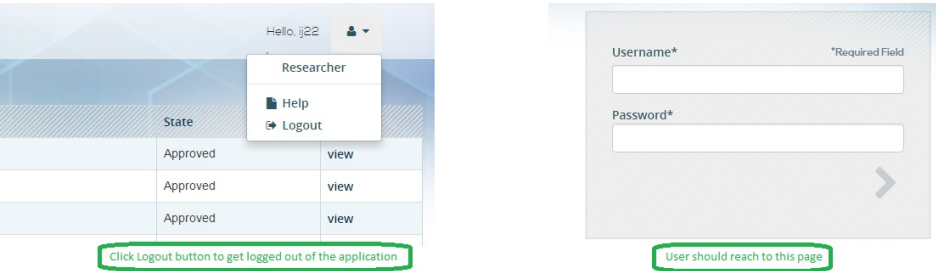
Please Describe Your Query's Intent

Enter description

SUBMIT ➤

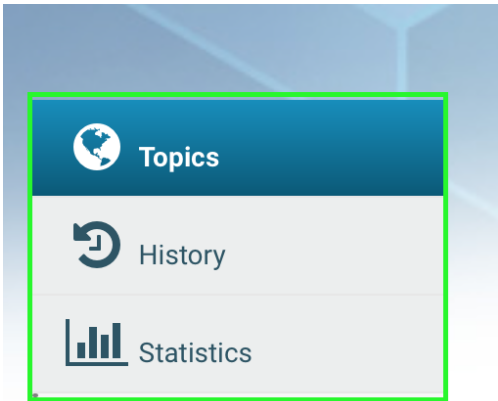

New Query topic window should appear to create a topic after entering all mandatory fields

- New Button should always be clickable.
- Topic Name and Query Description both are mandatory fields, so Submit button should not get enabled without filling them

4.	<p><u>Under Topics tab:</u> Verify that user is able to view the Topic details like state, ID, Date created/updated etc. and also edit the topic(only possible in Pending state) by clicking the 'View' button available next to status column</p>		<ul style="list-style-type: none"> <li>View button should be available for all the Topic states i.e. Pending, Approved and Rejected</li> <li>User should only be able to Edit the Topic details for pending state topics</li> </ul>
5.	<p>Verify that User is able to log out successfully by clicking the Logout button available under User information dropdown appearing at the top right corner</p>		<ul style="list-style-type: none"> <li>Logout functionality should work properly and take user back to Login page</li> </ul>

Application - Steward

#	Test case	Expected Result								
1.	Verify that user is able to log in the DSA-Steward application after entering valid credentials	<div><div><div>Username*</div><div>steward username</div></div><div><div>Password*</div><div>*****</div></div><div></div></div> <div>Enter valid steward credentials here</div> <div><div>SHRINE DATA STEWARD</div><div><div>Topics</div><div>History</div><div>Statistics</div></div><div><div>PENDING</div><div>✓ APPROVED</div><div>✗ REJECTED</div></div><table><tr><th>ID</th><th>Topic Name</th></tr><tr><td>73</td><td>14may</td></tr><tr><td>75</td><td>may 17th</td></tr><tr><td>91</td><td>sdf</td></tr></table></div> <div>Steward's Home page</div>	ID	Topic Name	73	14may	75	may 17th	91	sdf
ID	Topic Name									
73	14may									
75	may 17th									
91	sdf									

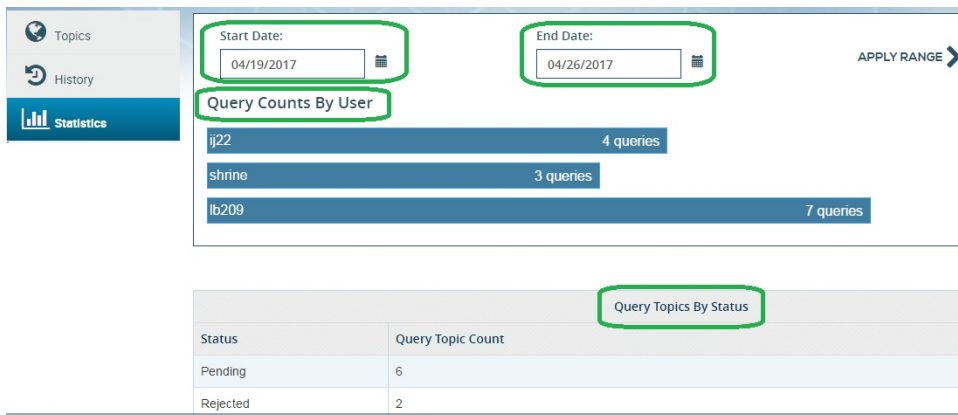
2.	Verify that Topic, History and Statistics sections are available on the left side of the page													
3.	<u>Under Topics tab:</u> Verify that all 3 types of topics are available under their specific tab	 <p>Only Pending state Topics should appear under 'Pending' tab</p> <table> <tr> <th>ID</th><th>Topic Name</th><th>Username</th><th>Date Created</th><th>Last Updated ▲</th><th>State</th></tr> <tr> <td>73</td><td>14may</td><td>nn80</td><td>5/12/2016</td><td>5/12/2016</td><td>Pending</td></tr> </table>	ID	Topic Name	Username	Date Created	Last Updated ▲	State	73	14may	nn80	5/12/2016	5/12/2016	Pending
ID	Topic Name	Username	Date Created	Last Updated ▲	State									
73	14may	nn80	5/12/2016	5/12/2016	Pending									

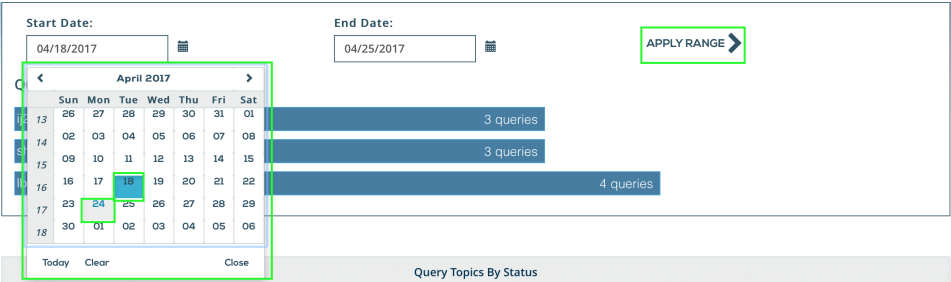
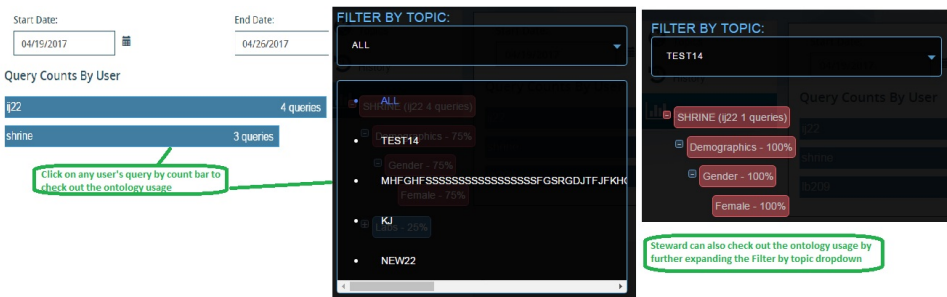
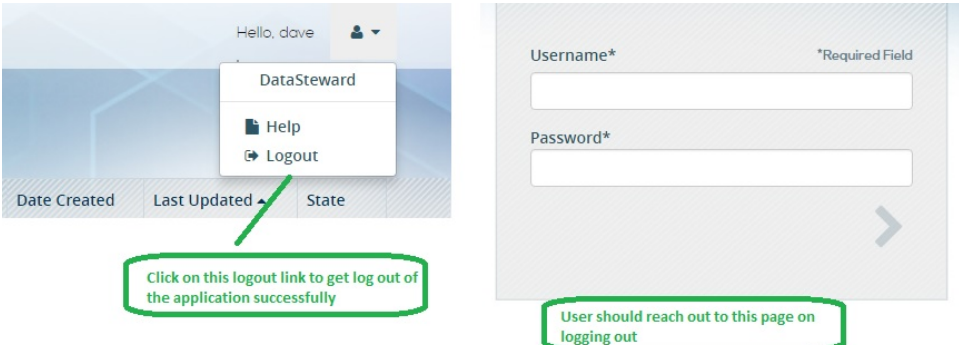
4. Under Topics tab: Verify that Steward is able to view the Topic details like state, ID, Date created /updated etc. by clicking the View button.

Also, Steward can Edit the current state of the Topic after clicking the 'Edit' button and selecting the desired state from the dropdown (Pending, Approved, Rejected)

The screenshot shows a 'Topic' form with two tabs: 'Description' and 'Query History'. The 'Description' tab is active. On the left, there is a 'State' dropdown menu with 'Pending' selected, and a 'view' button next to it. A green box highlights the 'view' button with the text: 'Click on this View button to check Topic details and also to edit the state'. The form fields include: 'Topic Id: 73', 'Date Created: 5/12/2016', 'Last Updated: 5/12/2016', 'Topic Name\*' (with value '14may' and a '\*Required Field' label), and 'Please Describe Your Query's Intent\*' (with value 'nk'). Below these fields is a 'Pending' dropdown menu. A green box highlights the 'EDIT' button with the text: 'Click on this Edit button to update the Topic state'. At the bottom right is an 'UPDATE' button. A green box highlights the 'Pending' dropdown menu with the text: 'Click on this Edit button to update the Topic state'.

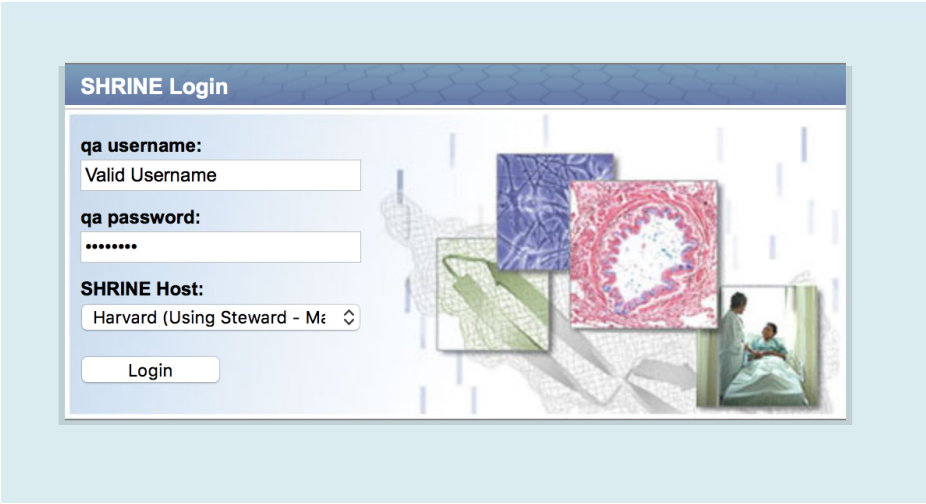
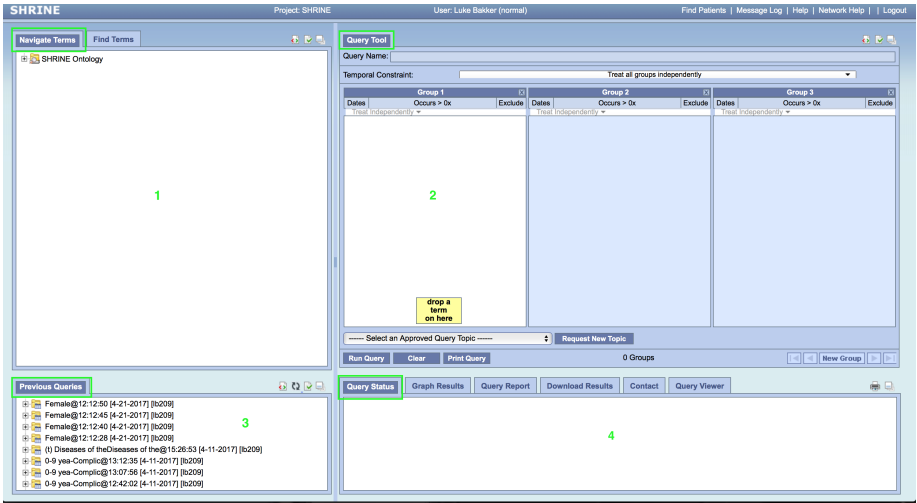
5. Under Statistics tab: Verify that Steward can check out the Query count by User and Query Topics by Status data available for last 7 days by default



6.	<p><u>Under Statistic tab:</u> Verify that Steward can also filter the Query count by User and Query Topics by Status data after applying the Start and End Date Range</p>	
7.	<p><u>Under Statistic tab:</u> Verify that Steward can also visualize any researcher's ontology usage by checking out the Query digest window and further filter it by topic</p>	
8.	<p>Verify that User is able to log out successfully by clicking the Logout button available under User information dropdown appearing at the top right</p>	



Application - Webclient

#	Test case	Expected Result
1.	Verify that user is able to log in the Web client application after entering valid credentials	
2.	Verify that below mentioned 4 major sections are appearing on webclient landing page 1. Navigate/Find Terms 2. Query Tools 3. Previous Queries 4. Query Status	

3. Under Query tool section: Verify that user can request a new topic by clicking the 'Request New Topic' button available under Query tool section

DSA Application should open up and user should be able to create a topic successfully

new22

Request New Topic

4 Groups

Run Query Clear Print Query

Query Status Graph Results Query Report Download Results Contact Query Viewer

D5A application should open up on clicking the 'Request New Topic' button from Webclient application

# SHRINE DATA STEWARD

Username\* \*Required Field

Password\*

4.	<u>Under Query tool section:</u> Verify that a drop down consisting all Approved topics are appearing
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[illegible]

5.

Under Navigate/Find terms: Verify that user is able to run following set of queries successfully

- Query in each data element (demonographic, dx, etc)
- Query terms that are folders, leaf nodes, modifiers
- Run date limited query for dx term
- Run multiple query

The screenshot shows the 'Query Tool' interface. At the top, there is a 'Query Name' field and a 'Temporal Constraint' dropdown set to 'Treat all groups independently'. Below this, there are three groups of criteria, each with a 'Dates' dropdown, an 'Occurs > 0x' field, and an 'Exclude' checkbox. The criteria are connected by 'AND' operators. Each group has a green box labeled 'one or more of these' below it. The criteria are:

- Group 2: Complications of pregnancy, childbirth, and the puerperium (630-679.99) [Admit Diagnosis]
- Group 3: Pathologist Cvx/Vag Cyto, Enoxaparin
- Group 4: Female, >=65 years old

At the bottom, there is a 'new22' dropdown, a 'Request New Topic' button, and buttons for 'Run Query', 'Clear', and 'Print Query'. On the right, there is a '4 Groups' label and a 'New Group' button with navigation arrows.

- Run multiple queries with excluded terms
- Multiple terms in 1 panel
- Multi-event query

6. Under Query status: Verify that User is able to see the running query status under Query Status tab

Query StatusGraph ResultsQuery ReportDownload ResultsContactQuery Viewer

Finished Query: "Female@16:16:32"  
Compute Time: 2.7 secs

shrine-qa2 "Female@16:16:32"  
Patient Count - 1805 +-10 patients

shrine-qa3 "Female@16:16:32"  
Patient Count - 895 +-10 patients

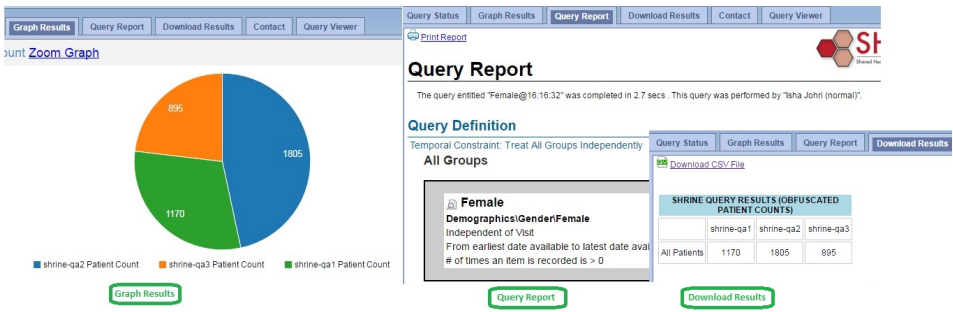
shrine-qa1 "Female@16:16:32"  
Patient Count - 1170 +-10 patients

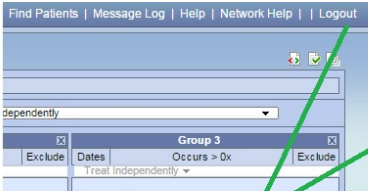
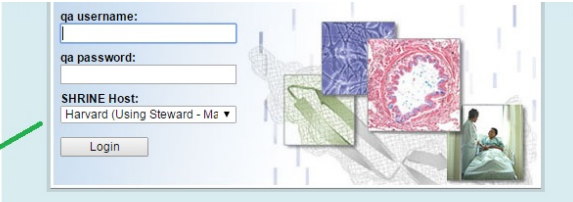
[2.7 secs]

7.

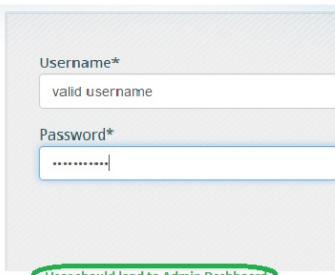

Under Query status: Verify that User can also visualize/download the query status in different formats by clicking the following tabs

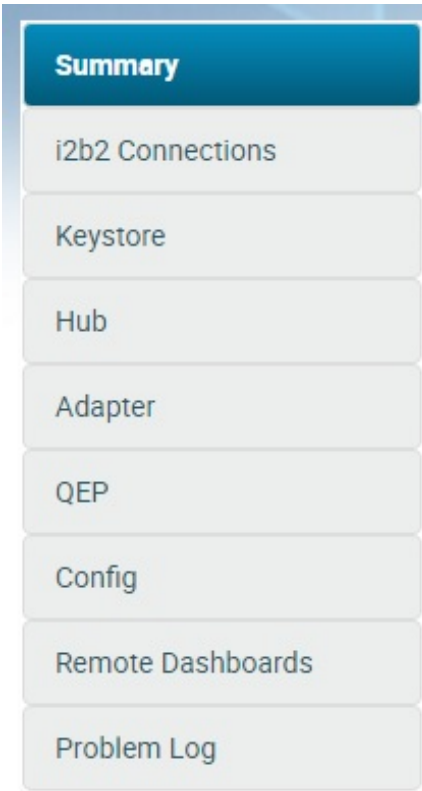

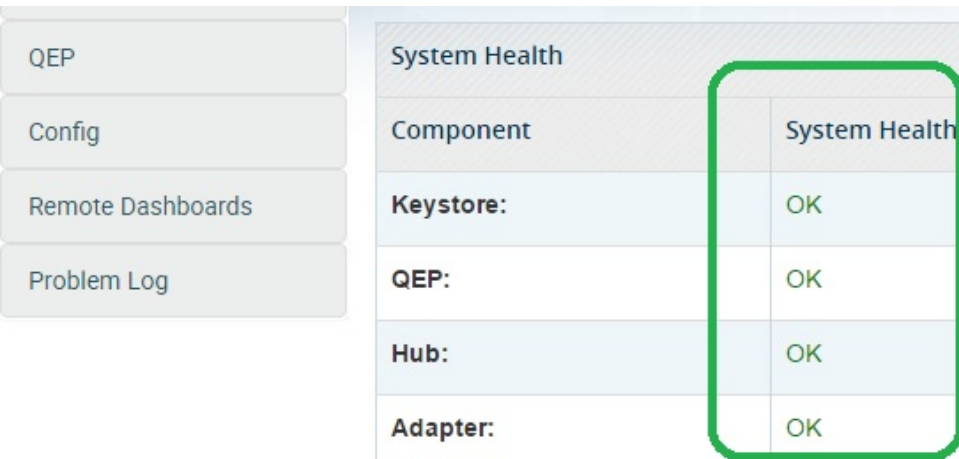
- Graph Results
- Query Report
- Download Results



8.	Verify that User is able to log out successfully by clicking the Logout button available on the top right corner of the application	 <p>Clicking this Logout link should take you to the Login page</p> 
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## Application - Admin Dashboard

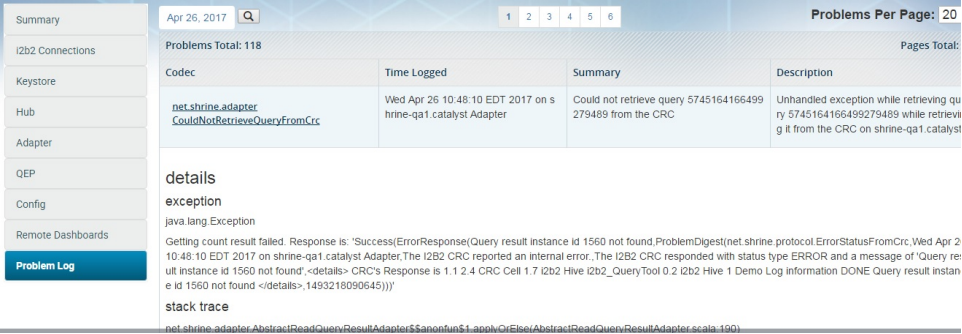
#	Test case	Expected Result	Notes
1.	Verify that user is able to log in the Web client application after entering valid credentials	 <p>User should land to Admin Dashboard Home page after entering valid credentials on the login page</p> 	<ul style="list-style-type: none"> <li>URL should launch properly</li> <li>Error is not expected after entering valid credentials</li> </ul>

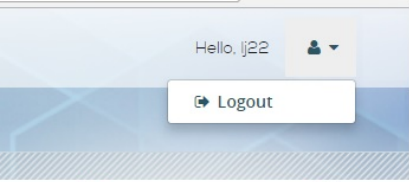
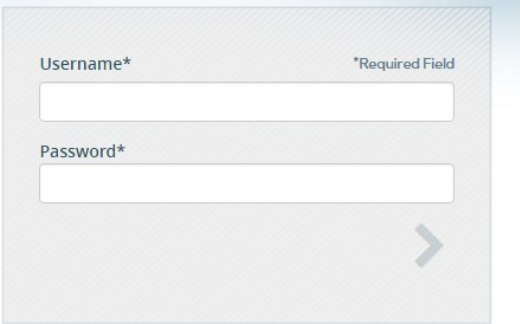
2.	<p>Verify that following tabs are available in the left section of the page</p> <ol style="list-style-type: none"> <li>1. Summary</li> <li>2. i2b2 Connections</li> <li>3. Keystore</li> <li>4. Hub</li> <li>5. Adapter</li> <li>6. QEP</li> <li>7. Config</li> <li>8. Remote Dashboard</li> <li>9. Problem Log</li> </ol>		<ul style="list-style-type: none"> <li>• All the 9 tabs should be available on Hub node</li> </ul>
3.	<p><u>Under Summary tab:</u> Verify that current SHRINE version along with the built-in Time/Date is available under Version info section</p>		<ul style="list-style-type: none"> <li>• Correct version info should be available under Summary</li> </ul>
4.	<p><u>Under Summary tab:</u> Verify that system health for all the component looks good</p>		<ul style="list-style-type: none"> <li>• Errors are not expected</li> </ul>

5.	<p>Under <b>i2b2 Connections</b>: Verify that correct i2b2 End-point URL'S and Hive credentials are appearing</p>	<div><div>Summary</div><div><b>i2b2 Connections</b></div><div>Keystore</div><div>Hub</div><div>Adapter</div><div>QEP</div><div>Config</div><div>Remote Dashboards</div><div>Problem Log</div></div> <div><div><b>I2B2 Endpoint URLs</b></div><div>These are the URLs that SHRINE will use to interact with i2b2.</div><table><tr><th>Cell</th><th>Url</th></tr><tr><td>PM</td><td>http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/PMService/getServices</td></tr><tr><td>CRC</td><td>http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/</td></tr><tr><td>ONT</td><td>http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/OntologyService/</td></tr></table><div><b>I2B2 Hive Credentials</b></div><div>SHRINE will use these credentials and projects when querying i2b2.</div><table><tr><td>I2B2 Domain</td><td>i2b2demo</td></tr><tr><td>Username</td><td>demo</td></tr><tr><td>CRC Project</td><td>Demo</td></tr><tr><td>ONT Project</td><td>SHRINE</td></tr></table></div>	Cell	Url	PM	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/PMService/getServices	CRC	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/	ONT	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/OntologyService/	I2B2 Domain	i2b2demo	Username	demo	CRC Project	Demo	ONT Project	SHRINE	<ul style="list-style-type: none"><li>Incorrect information is not expected here</li></ul>
Cell	Url																		
PM	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/PMService/getServices																		
CRC	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/																		
ONT	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/OntologyService/																		
I2B2 Domain	i2b2demo																		
Username	demo																		
CRC Project	Demo																		
ONT Project	SHRINE																		
6.	<p>Under <b>Keystore tab</b>: Verify that Keystore page is showing all information correctly and errors are not appearing</p>	<div><div>Summary</div><div>i2b2 Connections</div><div><b>Keystore</b></div><div>Hub</div><div>Adapter</div><div>QEP</div><div>Config</div><div>Remote Dashboards</div><div>Problem Log</div></div> <div><div><b>Keystore File</b></div><div>This is the keystore SHRINE will use to sign and trust queries.</div><table><tr><td>File</td><td>/opt/shrine/shrine.keystore</td></tr><tr><td>Password</td><td>REDACTED</td></tr></table><div><b>Query Signing Certificate</b></div><div>This is the certificate that this SHRINE server will use for signing queries.</div><table><tr><td>Alias</td><td>shrine-qa1-signing</td></tr><tr><td>Owner</td><td>C=US, CN=shrine-qa1.catalyst, L=Boston, O=Harv</td></tr><tr><td>Issuer</td><td>C=US, CN=shrine-qa-ca, L=Boston, O=Harvard M</td></tr><tr><td>Expires</td><td>2020-04-18 17:07:50</td></tr></table></div>	File	/opt/shrine/shrine.keystore	Password	REDACTED	Alias	shrine-qa1-signing	Owner	C=US, CN=shrine-qa1.catalyst, L=Boston, O=Harv	Issuer	C=US, CN=shrine-qa-ca, L=Boston, O=Harvard M	Expires	2020-04-18 17:07:50	<ul style="list-style-type: none"><li>Correct information is expected on Keystore page</li></ul>				
File	/opt/shrine/shrine.keystore																		
Password	REDACTED																		
Alias	shrine-qa1-signing																		
Owner	C=US, CN=shrine-qa1.catalyst, L=Boston, O=Harv																		
Issuer	C=US, CN=shrine-qa-ca, L=Boston, O=Harvard M																		
Expires	2020-04-18 17:07:50																		
7.	<p>Under <b>Hub Node</b>: Verify that correct downstream node information is available on Hub page</p>	<div><div>Summary</div><div>i2b2 Connections</div><div>Keystore</div><div><b>Hub</b></div><div>Adapter</div></div> <div><div><b>Downstream Nodes</b></div><div>These are the sites that this SHRINE hub will broadcast queries to</div><table><tr><th>Site</th><th>URL</th></tr><tr><td>shrine-qa2</td><td>https://shrine-qa2.catalyst:6443/shrine/rest/adapter/requests</td></tr><tr><td>shrine-qa3</td><td>https://shrine-qa3.catalyst:6443/shrine/rest/adapter/requests</td></tr><tr><td>self</td><td>not applicable</td></tr></table></div>	Site	URL	shrine-qa2	https://shrine-qa2.catalyst:6443/shrine/rest/adapter/requests	shrine-qa3	https://shrine-qa3.catalyst:6443/shrine/rest/adapter/requests	self	not applicable	<ul style="list-style-type: none"><li>Correct downstream node information is expected here</li></ul>								
Site	URL																		
shrine-qa2	https://shrine-qa2.catalyst:6443/shrine/rest/adapter/requests																		
shrine-qa3	https://shrine-qa3.catalyst:6443/shrine/rest/adapter/requests																		
self	not applicable																		



8.	<p>Under Adapter Node: Verify that correct adapter configuration, Query test, and mapping files are available on this page</p>	<div><div><div>Summary</div><div>i2b2 Connections</div><div>Keystore</div><div>Hub</div><div>Adapter</div><div>QEP</div><div>Config</div><div>Remote Dashboards</div><div>Problem Log</div></div><div><div>Adapter Configuration</div><div>These are the parameters that the SHRINE Adapter will use for querying the i2b2 CRC.</div><table><tr><td>CRC URL</td><td>http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/</td></tr><tr><td>CRC Project</td><td>Demo</td></tr><tr><td>Domain</td><td>i2b2demo</td></tr><tr><td>Adapter User</td><td>demo</td></tr><tr><td>Adapter Password</td><td>REDACTED</td></tr><tr><td>Lockout Threshold</td><td>1000</td></tr></table><div>Adapter Query Test</div><table><tr><td>SHRINE Query Term</td><td>\\SHRINE\SHRINE\Demographics\Gender\Male\</td></tr><tr><td>Status</td><td>Success</td></tr><tr><td>Details</td><td>1900 Number of patients</td></tr></table><div>Mappings File</div><table><tr><td>Filename</td><td>AdapterMappings.xml</td></tr><tr><td>Last Modified</td><td>2017-03-26 23:58:37</td></tr></table></div></div>	CRC URL	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/	CRC Project	Demo	Domain	i2b2demo	Adapter User	demo	Adapter Password	REDACTED	Lockout Threshold	1000	SHRINE Query Term	\\SHRINE\SHRINE\Demographics\Gender\Male\	Status	Success	Details	1900 Number of patients	Filename	AdapterMappings.xml	Last Modified	2017-03-26 23:58:37	<ul style="list-style-type: none"><li>Correct adapter information is expected here</li></ul>
CRC URL	http://shrine-qa1-i2b2.catalyst:9090/i2b2/services/QueryToolService/																								
CRC Project	Demo																								
Domain	i2b2demo																								
Adapter User	demo																								
Adapter Password	REDACTED																								
Lockout Threshold	1000																								
SHRINE Query Term	\\SHRINE\SHRINE\Demographics\Gender\Male\																								
Status	Success																								
Details	1900 Number of patients																								
Filename	AdapterMappings.xml																								
Last Modified	2017-03-26 23:58:37																								
9.	<p>Under QEP tab: Verify that SHRINE data steward is in enabled state and its correct information is available on this page</p>	<div><div><div>Summary</div><div>i2b2 Connections</div><div>Keystore</div><div>Hub</div><div>Adapter</div><div>QEP</div><div>Config</div><div>Remote Dashboards</div><div>Problem Log</div></div><div><div>Query Entry Point Modes</div><table><tr><td>SHRINE Data Steward</td><td>Enabled</td></tr><tr><td>Trust Model</td><td>Central Certificate Authority</td></tr></table><div>SHRINE Data Steward</div><div>The Steward Base URL should only go up to the port number of its URL. SHRINE assumes the Steward exists at "/steward" and appends the rest. Steward-approved queries will be submitted to i2b2 using the provided credentials.</div><table><tr><td>Steward Base URL</td><td>https://shrine-qa1.catalyst:6443</td></tr><tr><td>QEP Username</td><td>qep</td></tr><tr><td>QEP Password</td><td>REDACTED</td></tr></table></div></div>	SHRINE Data Steward	Enabled	Trust Model	Central Certificate Authority	Steward Base URL	https://shrine-qa1.catalyst:6443	QEP Username	qep	QEP Password	REDACTED	<ul style="list-style-type: none"><li>Correct QEP information is expected here</li></ul>												
SHRINE Data Steward	Enabled																								
Trust Model	Central Certificate Authority																								
Steward Base URL	https://shrine-qa1.catalyst:6443																								
QEP Username	qep																								
QEP Password	REDACTED																								
10.	<p>Under config tab: Verify that correct config file information in the form of tree structure is available on this page</p>	<div><div><div>Summary</div><div>i2b2 Connections</div><div>Keystore</div><div>Hub</div><div>Adapter</div><div>QEP</div><div>Config</div><div>Remote Dashboards</div></div><div></div></div>	<ul style="list-style-type: none"><li>Correct config file information is expected here</li></ul>																						

11.	<p><u>Under Remote Dashboard:</u> Verify that an admin is able to navigate to hub and other downstream nodes through this available Remote Dashboard functionality</p>		<ul style="list-style-type: none"> <li>• Going back and forth to hub and other downstream nodes should be smooth</li> </ul>
12.	<p><u>Under Problem log:</u> Verify that admin can check all the problem logs plus its summary on this Problem log page</p>		<ul style="list-style-type: none"> <li>• All the problem logs and its details are expected to appear on this page</li> <li>• Verify that a wiki page opens up corresponding to the error on clicking the code link</li> </ul>

13.	Verify that User is able to log out successfully by clicking the Logout button available on the top right corner of the application	<div data-bbox="440 138 846 317">A screenshot of a user interface showing a profile dropdown menu. The menu is open, displaying a 'Logout' button with a right-pointing arrow icon. Above the button, the text 'Hello, ij22' and a user icon are visible.</div> <div data-bbox="506 323 786 375"><p>Clicking on Logout link should take user to Login page</p></div> <div data-bbox="870 138 1386 459">A screenshot of a login form. It contains two input fields: 'Username*' and 'Password*'. Both fields are marked as required with an asterisk. A right-pointing arrow icon is located at the bottom right of the form.</div>	<ul style="list-style-type: none"><li>• Logout functionality should work properly and take user back to Login page</li></ul>
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