

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	Username* valid username Password* ***** > Enter valid login credentials SHRINE DATA STEWARD Topics History <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>ncw 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> Researchers Home Page	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	ncw topic	3/24/2016	5/17/2016	bet	7/13/2016	7/13/2016	cancer-patient	7/13/2016	7/13/2016	• URL should launch properly • Error is not expected after entering valid credentials
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																												
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manual run	4/22/2016	4/22/2016																												
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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

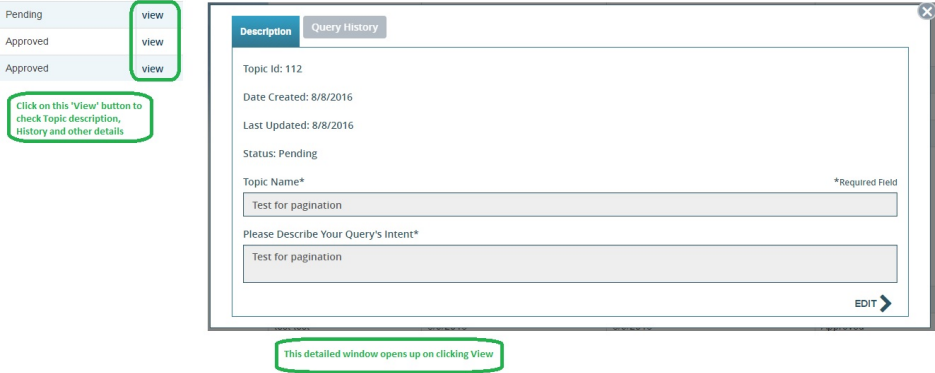
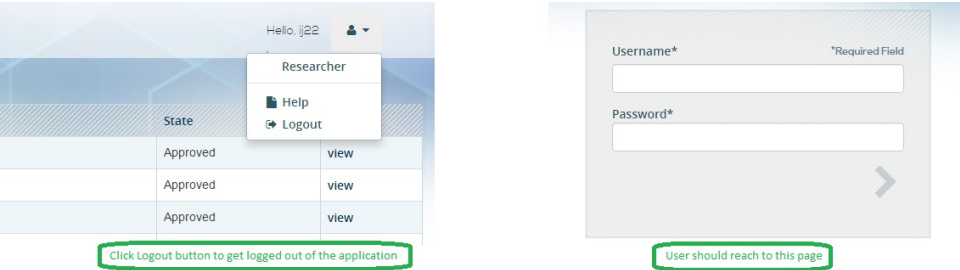
!@#\$%^&*())_+++++++~+++++
++}|{"?M<>>ZXCVBNM<>?ASDF
GHJKL:"QWERTYUIOP{zxcvbnm,
./asdfghjkl;'qwertyuiop[]\1234567
890-=`

• 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.	<u>Under Topics tab:</u> 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	<table> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td></td><td>Pending</td><td>view</td></tr> <tr><td colspan="3">NEW ➤</td></tr> </table> Click on this button 'NEW' to create new topics		Pending	view		Pending	view		Pending	view		Pending	view		Pending	view		Pending	view		Pending	view	NEW ➤			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
	Pending	view																									
	Pending	view																									
	Pending	view																									
	Pending	view																									
	Pending	view																									
	Pending	view																									
	Pending	view																									
NEW ➤																											

 - 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 |

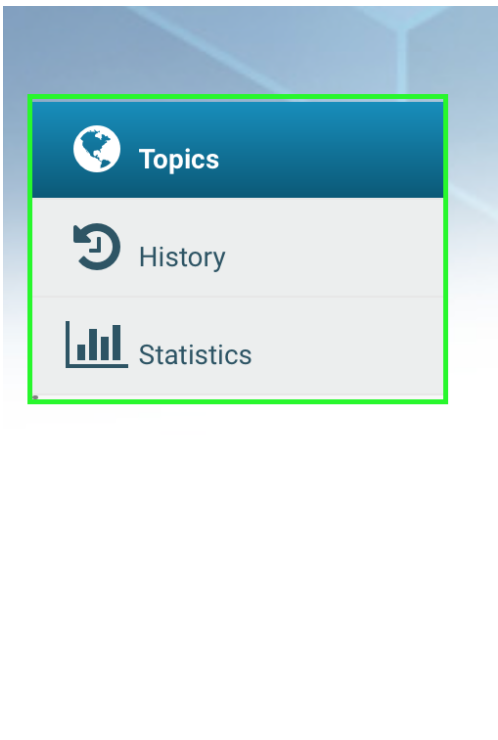
4. <u>Under Topics tab:</u> Verify that user is able to view the Topic details like state, ID, Date created/updated etc. and also edit the topic(only possible in Pending state) by clicking the 'View' button available next to status column		- View button should be available for all the Topic states i.e. Pending, Approved and Rejected - User should only be able to Edit the Topic details for pending state topics
5. 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		Logout functionality should work properly and take user back to Login page

Application - Steward

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

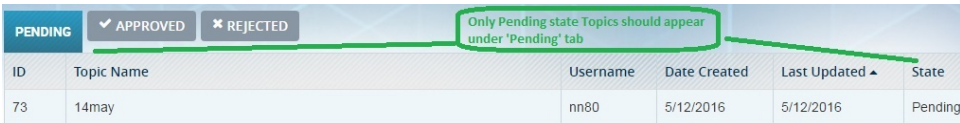
2.

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



3.

Under Topics tab:
Verify that all 3 types of topics are available under their specific tab



ID	Topic Name	Username	Date Created	Last Updated	State
73	14may	nn80	5/12/2016	5/12/2016	Pending

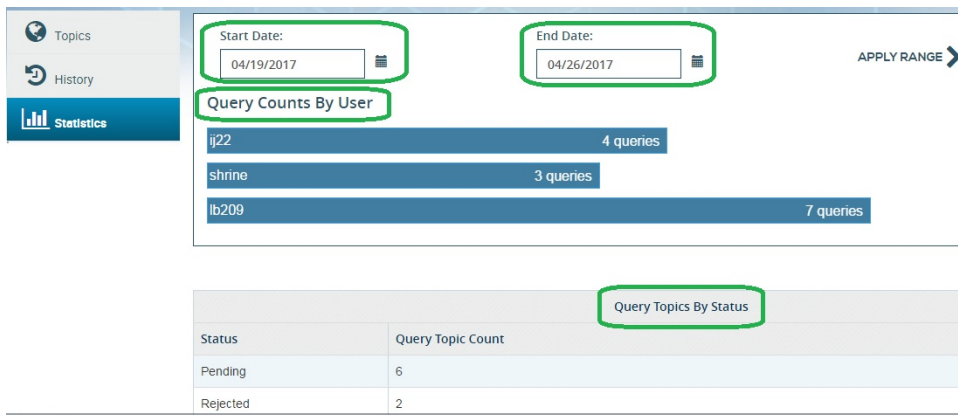
4. Under Topics tab: Verify that Steward is able to view the Topic details like state, ID, Date created /updated etc. by clicking the View button.

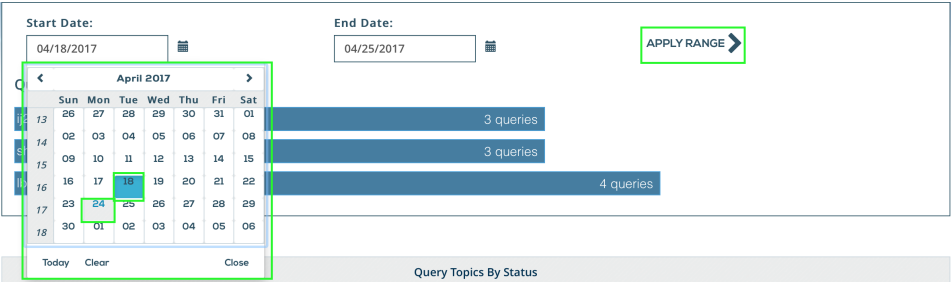
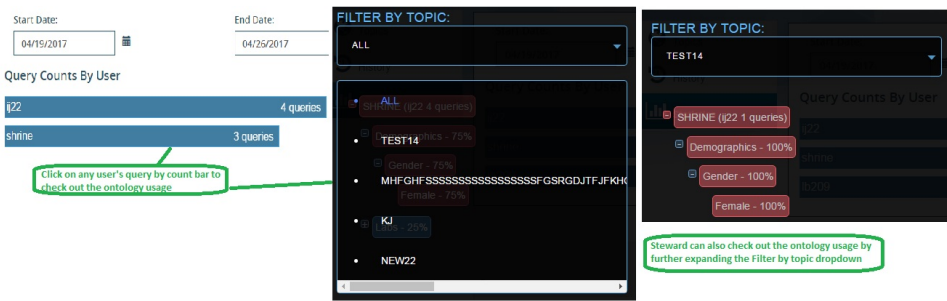
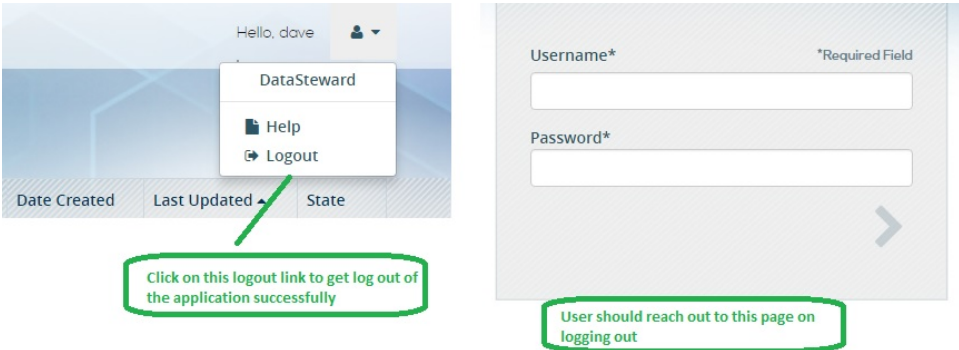
Also, Steward can Edit the current state of the Topic after clicking the 'Edit' button and selecting the desired state from the dropdown (Pending, Approved, Rejected)

Click on this View button to check Topic details and also to edit the state

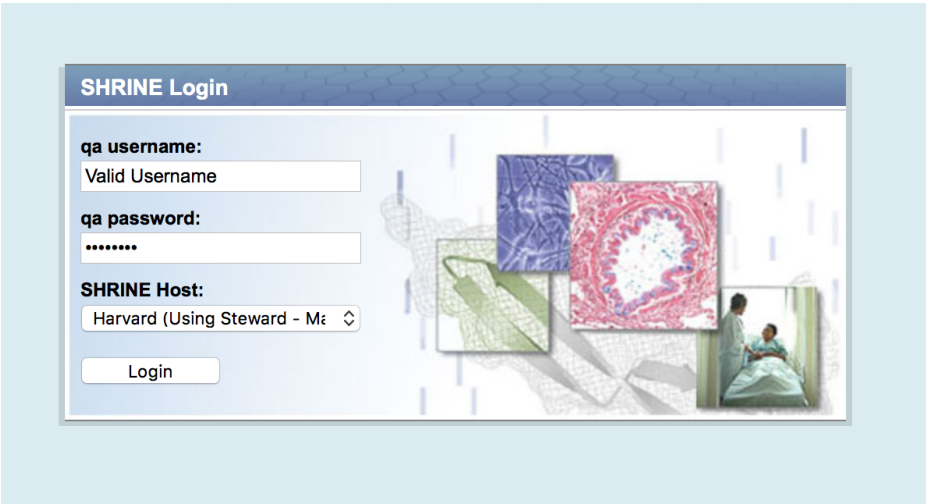
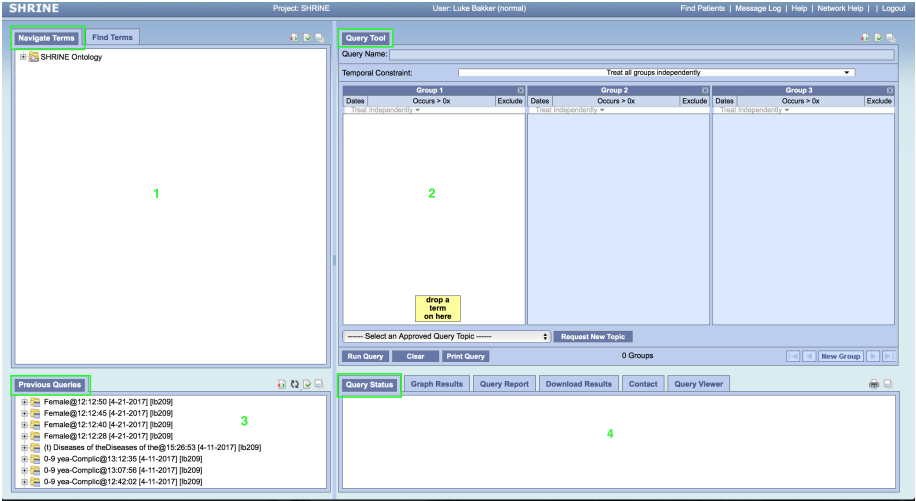
Click on this Edit button to update the Topic state

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. <u>Under</u> <u>Statistic</u> <u>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	
7. <u>Under</u> <u>Statistic</u> <u>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	
8. Verify that User is able to log out successfully by clicking the Logout button available under User information dropdown appearing at the top right	

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	

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

- Query in each data element (demographic, 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'. A 'New Group' button is highlighted with a green box.

- 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 Status

Graph Results

Query Report

Download Results

Contact

Query Viewer



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

[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

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

Graph Results

Query Report

Download Results

Contact

Query Viewer

Print Report



Query Report

The query entitled "Female@16:16:32" was completed in 2.7 secs. This query was performed by "isha.john (normal)".

Query Definition

Temporal Constraint: Treat All Groups Independently

All Groups

Female

Demographics/Gender/Female

Independent of Visit

From earliest date available to latest date available

of times an item is recorded is > 0

SHRINE QUERY RESULTS (OBFUSCATED PATIENT COUNTS)

	shrine-qa1	shrine-qa2	shrine-qa3
All Patients	1170	1805	895

Graph Results

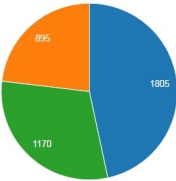
Query Report

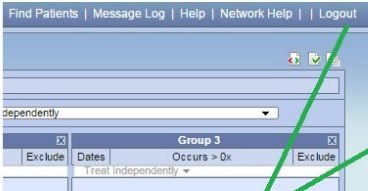
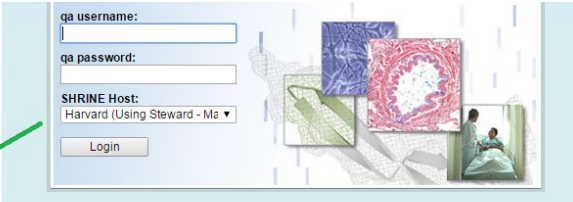
Download Results

shrine-qa2 Patient Count

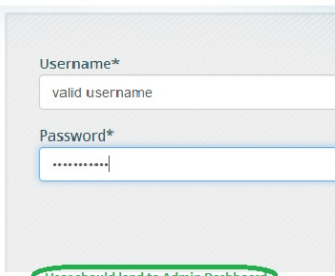
shrine-qa3 Patient Count

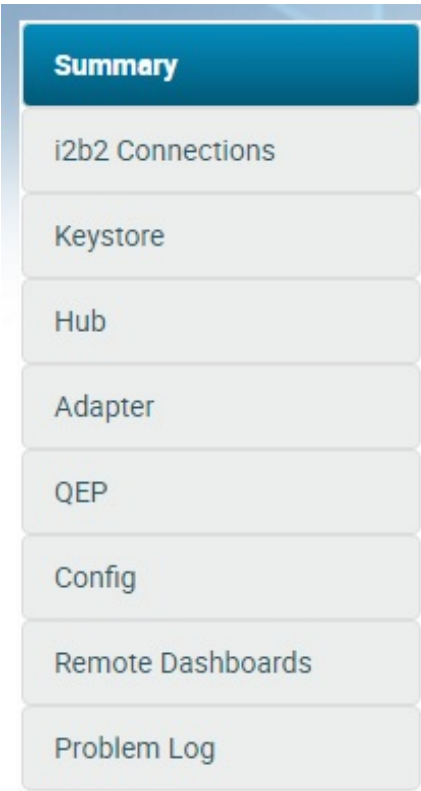
shrine-qa1 Patient Count



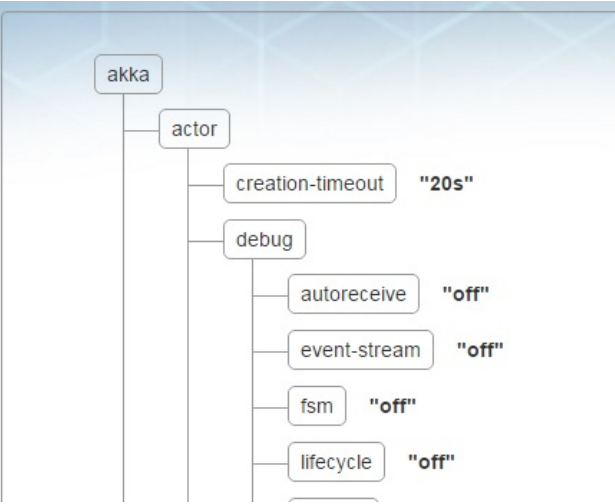
8.	Verify that User is able to log out successfully by clicking the Logout button available on the top right corner of the application	 Clicking this Logout link should take you to the Login page 
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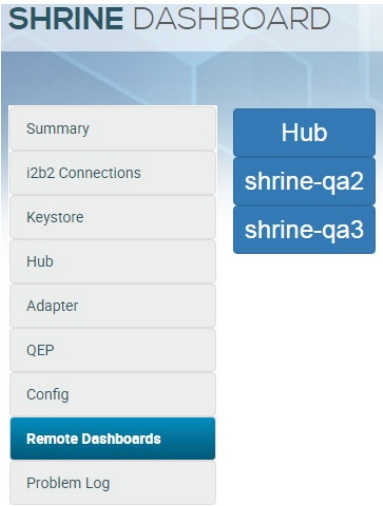
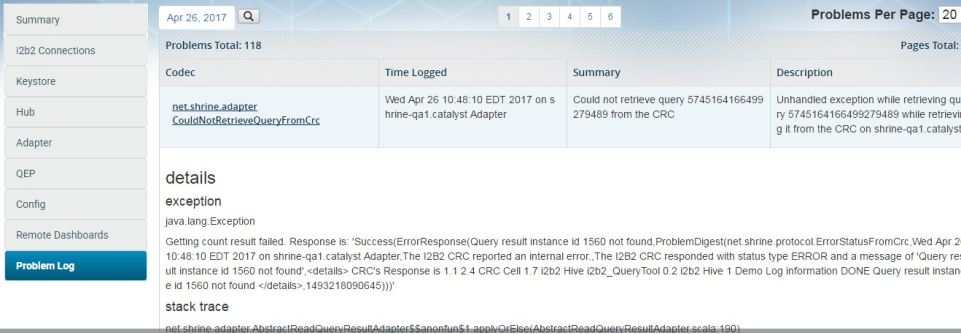
Application - Admin Dashboard

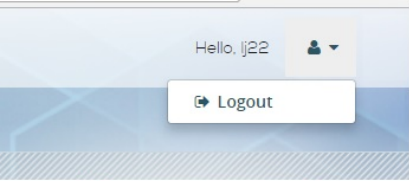
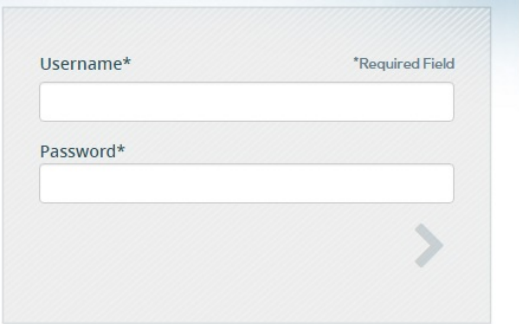
#	Test case	Expected Result	Notes
1.	Verify that user is able to log in the Web client application after entering valid credentials	 User should land to Admin Dashboard Home page after entering valid credentials on the login page 	- URL should launch properly - Error is not expected after entering valid credentials

2.	Verify that following tabs are available in the left section of the page 1. Summary 2. i2b2 Connections 3. Keystore 4. Hub 5. Adapter 6. QEP 7. Config 8. Remote Dashboard 9. Problem Log		• All the 9 tabs should be available on Hub node
3.	<u>Under Summary tab:</u> Verify that current SHRINE version along with the built-in Time/Date is available under Version info section		• Correct version info should be available under Summary
4.	<u>Under Summary tab:</u> Verify that system health for all the component looks good		• Errors are not expected

5.	Under i2b2 Connections: Verify that correct i2b2 End-point URL'S and Hive credentials are appearing	Summary i2b2 Connections Keystore Hub Adapter QEP Config Remote Dashboards Problem Log I2B2 Endpoint URLs These are the URLs that SHRINE will use to interact with i2b2. <table><thead><tr><th>Cell</th><th>Url</th></tr></thead><tbody><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></tbody></table> I2B2 Hive Credentials SHRINE will use these credentials and projects when querying i2b2. <table><tbody><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></tbody></table> Incorrect information is not expected here	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
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.	Under Keystore tab: Verify that Keystore page is showing all information correctly and errors are not appearing	Summary i2b2 Connections Keystore Hub Adapter QEP Config Remote Dashboards Problem Log Keystore File This is the keystore SHRINE will use to sign and trust queries. <table><tbody><tr><td>File</td><td>/opt/shrine/shrine.keystore</td></tr><tr><td>Password</td><td>REDACTED</td></tr></tbody></table> Query Signing Certificate This is the certificate that this SHRINE server will use for signing queries. <table><tbody><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></tbody></table> Correct information is expected on Keystore page	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				
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.	Under Hub Node: Verify that correct downstream node information is available on Hub page	Summary i2b2 Connections Keystore Hub Adapter Downstream Nodes These are the sites that this SHRINE hub will broadcast queries to <table><thead><tr><th>Site</th><th>URL</th></tr></thead><tbody><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></tbody></table> Correct downstream node information is expected here	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								
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.	Under Adapter Node: Verify that correct adapter configuration, Query test, and mapping files are available on this page	Summary i2b2 Connections Keystore Hub Adapter QEP Config Remote Dashboards Problem Log Adapter Configuration These are the parameters that the SHRINE Adapter will use for querying the i2b2 CRC. <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> Adapter Query Test <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> Mappings File <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>	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	Correct adapter information is expected here
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.	Under QEP tab: Verify that SHRINE data steward is in enabled state and its correct information is available on this page	Summary i2b2 Connections Keystore Hub Adapter QEP Config Remote Dashboards Problem Log Query Entry Point Modes <table><tr><td>SHRINE Data Steward</td><td>Enabled</td></tr><tr><td>Trust Model</td><td>Central Certificate Authority</td></tr></table> SHRINE Data Steward 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. <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>	SHRINE Data Steward	Enabled	Trust Model	Central Certificate Authority	Steward Base URL	https://shrine-qa1.catalyst:6443	QEP Username	qep	QEP Password	REDACTED	Correct QEP information is expected here												
SHRINE Data Steward	Enabled																								
Trust Model	Central Certificate Authority																								
Steward Base URL	https://shrine-qa1.catalyst:6443																								
QEP Username	qep																								
QEP Password	REDACTED																								
10.	Under config tab: Verify that correct config file information in the form of tree structure is available on this page	Summary i2b2 Connections Keystore Hub Adapter QEP Config Remote Dashboards 	Correct config file information is expected here																						

11.	<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		• Going back and forth to hub and other downstream nodes should be smooth
12.	<u>Under Problem log:</u> Verify that admin can check all the problem logs plus its summary on this Problem log page		• All the problem logs and its details are expected to appear on this page • Verify that a wiki page opens up corresponding to the error on clicking the code link

13. Verify that User is able to log out successfully by clicking the Logout button available on the top right corner of the application	 A screenshot of a user profile dropdown menu. At the top, it says 'Hello, ij22' next to a user icon. Below this is a 'Logout' button with a right-pointing arrow. Clicking on Logout link should take user to Login page  A screenshot of a login form. It has two input fields: 'Username*' and 'Password*'. Both fields are marked as '*Required Field'. There is a right-pointing arrow button at the bottom right of the form.	• Logout functionality should work properly and take user back to Login page
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