## **MediStore Manager Test Plan and Results**

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## **Overall Test Plan**

Our testing consists of two primary areas. First, we will create automated tests to test the create, read, update, and delete operations for all relevant tables in the database. This will ensure the code interacts properly with the existing database. Second, we will test the functionality of the application itself. This will involve interacting with the application and verifying the proper create, read, update, and delete operations are performed on the database and updated in the application. This will test the communication between the software and the database, along with overall functionality.

## **Test Case Descriptions**

DB1.1	Database Test 1
DB1.2	This test will test the application's ability to create records in the database.
DB1.3	For this test we will run the database and feed it new data from classes created to store data before sending it to the database. The test will be repeated for each table in the database.
DB1.4	Inputs: Entries into the database just like the ones users will create.
DB1.5	Outputs: Newly created records in the database matching the data entered by the user.
DB1.6	Normal
DB1.7	Whitebox
DB1.8	Functional
DB1.9	Unit
DB1.10	Results:
DB2.1	Database Test 2
DB2.2	This test will test the application's ability to read data from the database.
DB2.3	For this test we will run the database, then send a read query from the application and temporarily store the retrieved data in the application. The test will be repeated for each table in the database.
DB2.4	Inputs: Existing database records.
DB2.5	Outputs: The retrieved data should match what is present in the database.
DB2.6	Normal
DB2.7	Whitebox
DB2.8	Functional
DB2.9	Unit
DB2.10	Results:

DB3.1	Database Test 3
DB3.2	This test will test the application's ability to update records in the database.
DB3.3	For this test we will run the database, then retrieve some data from the database. Then we will change some of the data and send an update query back to the database. The test will be repeated for each table in the database.
DB3.4	Inputs: Edited database records.
DB3.5	Outputs: The updated information should be reflected in the database.
DB3.6	Normal
DB3.7	Whitebox
DB3.8	Functional
DB3.9	Unit
DB3.10	Results:
DB4.1	Database Test 4
DB4.2	This test will test the application's ability to remove records from the database.
DB4.3	For this test we will run the database, then send a delete query from the application along with the unique identifiers for specific records in the database. The test will be repeated for each table in the database.
DB4.4	Inputs: Unique identifiers for database records.
DB4.5	Outputs: The specified records should no longer be present in the database.
DB4.6	Normal
DB4.7	Whitebox
DB4.8	Functional
DB4.9	Unit
DB4.10	Results:
DB5.1	Database Test 5
DB5.2	This test will measure the application's ability to handle large amounts of data.
DB5.3	For this test we will populate the database with a large amount of data. Then we will create a series of queries that should touch every table in the database (excluding the users table). We will run these queries alongside a timer to measure how long it takes to retrieve the requested information.
DB5.4	Inputs: Queries to search through the entire database.
DB5.5	Outputs: The results of the queries along with the time taken to complete them.
DB5.6	Normal
DB5.7	Whitebox
DB5.8	Performance
DB5.9	Unit
DB5.10	Results:

A1.1	Application Test 1
A1.2	This test will test the application's ability to interact with the database to create,
	read, update, and delete records in the database relating to Patient Information.
A1.3	For this test, we will interact with the application by selecting the Add Patient
	button and filling in necessary information. This patient will then be selected in
	the list and the information will be viewed on the right side. Then, the Edit Patient
	Information button will be selected and the values will be changed. Verify the
	information is updated, then select Edit Patient Information again and select
	delete. Finally, verify the patient no longer appears in the list.
A1.4	Inputs: Button clicks and test information
A1.5	Outputs: Newly created records in the database matching the data entered by the
	user, edited information, verified deletion.
A1.6	Normal
A1.7	Blackbox
A1.8	Functional
A1.9	Integration
A1.10	Results:
A2.1	Application Test 2
A2.2	This test will test the application's ability to interact with the database to create,
	read, update, and delete records in the database relating to Inventory Information.
A2.3	For this test, we will interact with the application by selecting the Add Inventory
	button and filling in necessary information. This item will then be selected in
	the list and the information will be viewed on the right side. Then, the Edit Item
	Information button will be selected and the values will be changed. Verify the
	information is updated, then select Edit Item Information again and select
	delete. Finally, verify the item no longer appears in the list.
A2.4	Inputs: Button clicks and test information
A2.5	Outputs: Newly created records in the database matching the data entered by the
100	user, edited information, verified deletion.
A2.6	Normal
A2.7	Blackbox
A2.8	Functional
A2.9	Integration
A2.10	Results:
A3.1	Application Test 3
A3.2	This test will test the application's ability to interact with the database to create,

read, update, and delete records in the database relating to Supplier Information.

For this test, we will interact with the application by selecting the Add Supplier

A3.3

	button and filling in necessary information. This supplier will then be selected in
	the list and the information will be viewed on the right side. Then, the Edit
	Supplier Information button will be selected and the values will be changed.
	Verify the information is updated, then select Edit Supplier Information again and
	select delete. Finally, verify the supplier no longer appears in the list.
A3.4	Inputs: Button clicks and test information
A3.5	Outputs: Newly created records in the database matching the data entered by the
	user, edited information, verified deletion.
A3.6	Normal
A3.7	Blackbox
A3.8	Functional
A3.9	Integration
A3.10	Results:
A4.1	Application Test 4
A4.2	This test will test the application's search bar for the listed items.
A4.3	This test will be performed on all main tabs. At the top left of the page there is a
	search bar. Click into it and start entering the name of the
	patient/item/supplier/ticket used for the test. Verify that the proper listing appears.
A4.4	Inputs: Keyboard entries and existing database information.
A4.5	Outputs: Proper existing entry appears in the list.
A4.6	Normal
A4.7	Blackbox
A4.8	Functional
A4.9	Integration
A4.10	Results:
A5.1	Application Test 5
A5.2	This test will test the application's ability to create work order tickets.
A5.3	From the Patients or Inventory tab, select Create Work Order. Fill in necessary
	information on the pop-up window and select okay. Go to Order Tickets tab and
	verify the work order was created.
A5.4	Inputs: Button clicks and test data.
A5.5	Outputs: New work order ticket created.
A5.6	Normal
A5.7	Blackbox
A5.8	Functional
A5.9	Integration
A5.10	Results:

A6.1	Application Test 6
A6.2	This test will test the application's ability to create supply order tickets.
A6.3	From the Suppliers tab, select Create Supply Order. Fill in necessary information on the pop-up window and select okay. Go to Order Tickets tab and verify the supply order was created.
A6.4	Inputs: Button clicks and test data.
A6.5	Outputs: New supply order ticket created.
A6.6	Normal
A6.7	Blackbox
A6.8	Functional
A6.9	Integration
A6.10	Results:
A7.1	Application Test 7
A7.2	This test will test the application's login functionality.
A7.3	Launch the application and verify that a login pop-up window appears. Fill in the fields with login information and select okay. Verify login is successful and application fully launches.
A7.4	Inputs: Login information
A7.5	Outputs: Login was successful and application has launched.
A7.6	Normal
A7.7	Blackbox
A7.8	Functional
A7.9	Integration
A7.10	Results:
A8.1	Application Test 8
A8.2	This test will test the application's login functionality.
A8.3	Launch the application and verify that a login pop-up window appears. Fill in the fields with incorrect login information and select okay. Verify login is not successful and a message appears saying that.
A8.4	Inputs: Incorrect login information
A8.5	Outputs: Login was unsuccessful and application does not launch.
A8.6	Abnormal
A8.7	Blackbox
A8.8	Functional
A8.9	Integration
A8.10	Results:

A9.1	Application Test 9
A9.2	This test will test the application's ticket history tab.
A9.3	Select the Order Tickets tab. Verify that previous work and supply order tickets are listed in their respective tabs.
A9.4	Inputs: Button clicks
A9.5	Outputs: History of work and supply order tickets.
A9.6	Normal
A9.7	Blackbox
A9.8	Functional
A9.9	Integration
A9.10	Results:

## **Test Case Matrix**

	Normal/ Abnormal	Blackbox/ Whitebox	Functional/ Performance	Unit/ Integration
DB1	Normal	Whitebox	Functional	Unit
DB2	Normal	Whitebox	Functional	Unit
DB3	Normal	Whitebox	Functional	Unit
DB4	Normal	Whitebox	Functional	Unit
DB5	Normal	Whitebox	Performance	Unit
A1	Normal	Blackbox	Functional	Integration
A2	Normal	Blackbox	Functional	Integration
A3	Normal	Blackbox	Functional	Integration
A4	Normal	Blackbox	Functional	Integration
A5	Normal	Blackbox	Functional	Integration
A6	Normal	Blackbox	Functional	Integration
A7	Normal	Blackbox	Functional	Integration
A8	Abnormal	Blackbox	Functional	Integration
A9	Normal	Blackbox	Functional	Integration