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:

DB3.2	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 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.
- A3.3 For this test, we will interact with the application by selecting the Add Supplier 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 enter				
	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:			

Application Test 6

A6.1

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