

Medicine Shop Automation Software (MSA)

GUI TEST REPORT

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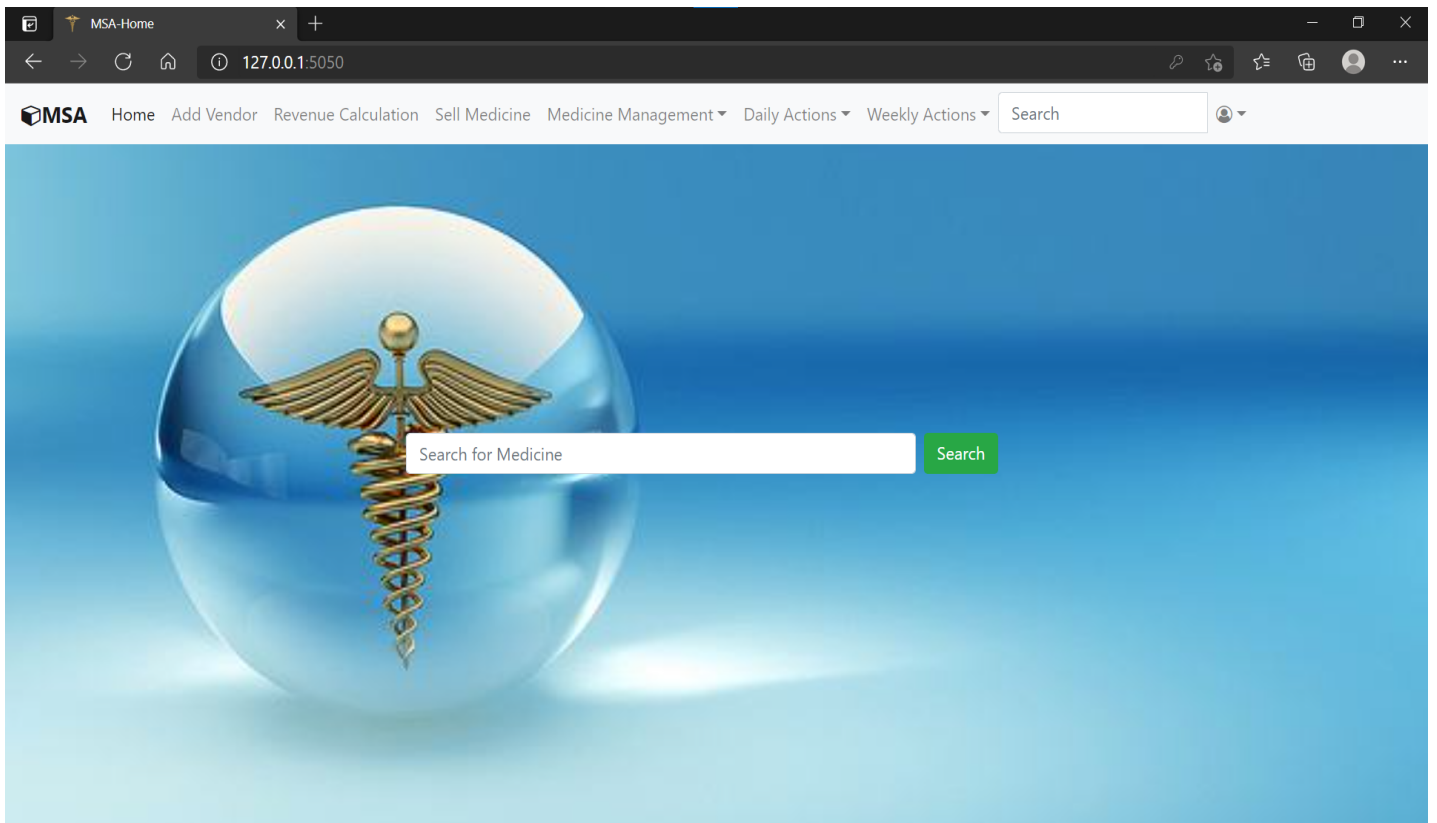
UNIT TESTS

Database connection method

This testing is for the database connection method and checks for events when the database is available and when it is not available due to connection failure or other technical reasons.

Input	Expected Output	Actual Output	Inference
Connection to the Database in the given URL is not available	An error message should be displayed	Error message was displayed	No bug found
Connection to the Database at the given URL is available	No error message should be displayed	Connection was successfully made and login page was displayed	No bug found

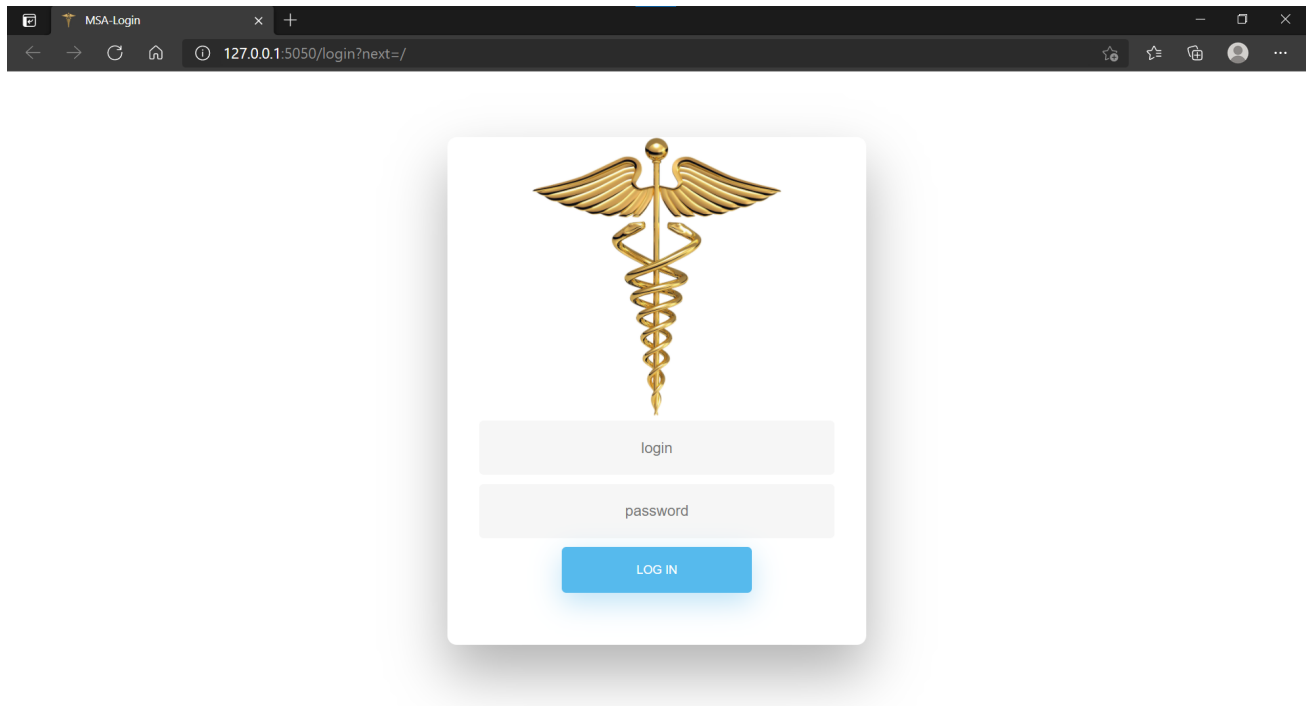
HOME PAGE



Login method

This testing uses the login method for the medicine shop owner in various scenarios.

Medicine Shop Owner



This testing checks the show manager login method in different cases

Input	Expected Output	Actual Output	Inference
No medicine shop owner account created and login is clicked	Error Message should be displayed	Error message was displayed	No bug found
Medicine shop owner account is created, but entered username or	Error message should be displayed	Error message was displayed	No bug found

password is wrong			
Medicine shop owner account is created, and entered username or password is correct	No Error message should be displayed and the user should be logged in	User was able to login successfully	No bug found

Change account details method

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5050/change_password'. The page title is 'MSA-Change Password'. The navigation bar includes links for Home, Add Vendor, Revenue Calculation, Sell Medicine, Medicine Management, Daily Actions, and Weekly Actions, along with a search bar and a user profile icon. The main content area is titled 'Change Your Password' and contains three input fields: 'Current Password' (labeled 'Old Password'), 'New Password', and 'Verify New Password' (labeled 'Verify New Password'). A blue 'Change Password' button is located at the bottom of the form.

This testing is for changing login details for medicine shop owners. This testing checks the change account details method in the medicine shop owner interface in different cases on entering the required data and clicking the update button.

Input	Expected Output	Actual Output	Inference
Entry for email is not a valid email format	An error message should be displayed	Error message was displayed	No bug found
Entry for username is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for password is blank	An error message should be displayed	Error message was displayed	No bug found

Entry for username is not blank and entry for email and mobile number is valid	No error message should be displayed and account should be updated	Password was changed successfully	No bug found
Entry for name is blank	An error message should be displayed	Error message was displayed	No bug found

Add Medicine method

Serial Number	Vendor ID	Vendor Name	Contact	Email	New Supply
1	1	vendor	9876543210	vendor1@email.com	<button>New Supply</button>

This testing tests the add medicine method of our interface.

Input	Expected Output	Actual Output	Inference
Entry for Medicine id is not a valid format	An error message should be displayed	Error message was displayed	No bug found
Entry for quantity is zero or a negative number	An error message should be displayed	Error message was displayed	No bug found
String entry for Batch number is not of the specified length	An error message should be displayed	Error message was displayed	No bug found

Entry for the expiry date is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for the expiry date is a past date	An error message should be displayed	Error message was displayed	No bug found
Entry for vendor id is not a valid format	An error message should be displayed	Error message was displayed	No bug found
Current entry is already present in the database, or one or more entered fields mis-match with a previous entry in the database	An error message should be displayed	Error message was displayed	No bug found
All entry fields are correctly entered with the right format	Successful input message displayed	Medicine was added successfully and proper message was displayed	No bug found

Add New Medicine method

MSA-Add New Medicine

127.0.0.1:5050/newmed

MSA Home Add Vendor Revenue Calculation Sell Medicine Medicine Management Daily Actions Weekly Actions Search

Medicine has been added successfully!

Add New Medicine

Trade Name
Trade name 2

Generic Name
Generic name 2

Description
This

Purchase Price
0.00

Unit Selling Price
0.00

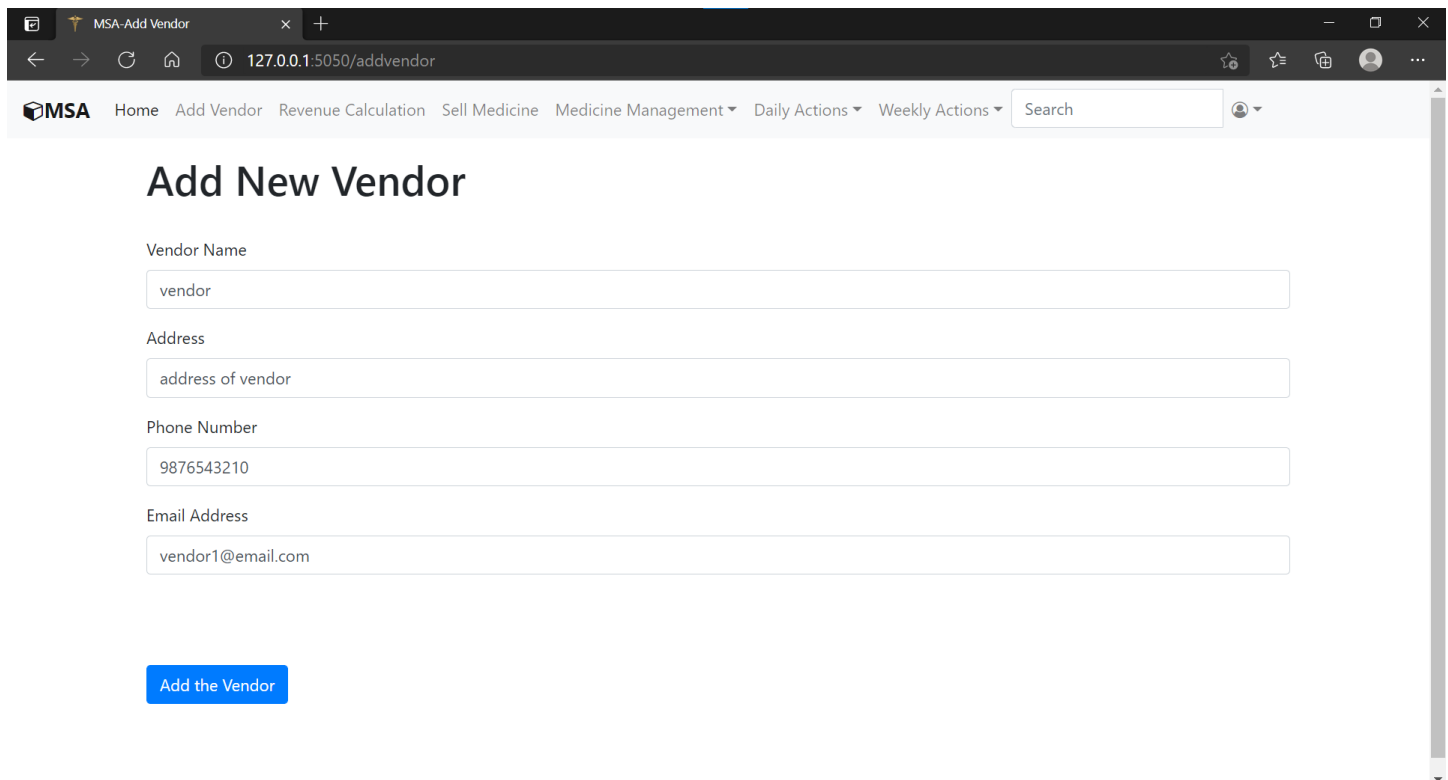
Threshold Value
0

This testing tests the add medicine method of our interface.

Input	Expected Output	Actual Output	Inference
Entry for medicine trade name is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for medicine generic name is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for vendor id is not a valid format	An error message should be displayed	Error message was displayed	No bug found

Entry for unit selling price is zero or a negative number	An error message should be displayed	Error message was displayed	No bug found
Entry for purchase price is zero or a negative number	An error message should be displayed	Error message was displayed	No bug found
Current entry is already present in the database, or one or more entered fields mis-match with a previous entry in the database	An error message should be displayed	Error message was displayed	No bug found
All entry fields are correctly entered with the right format	Successful input message displayed, and a cheque favouring the vendor is provided to the shop owner for printing. Also a strip containing the medicine code is printed for the medicine shelf.	Successful input message displayed, and a cheque favouring the vendor is provided to the shop owner for printing. Also a strip containing the medicine code is printed for the medicine shelf.	No bug found

Add Vendor method



The screenshot shows a web browser window with the address bar displaying "127.0.0.1:5050/addvendor". The page title is "MSA-Add Vendor". The navigation bar includes links for Home, Add Vendor, Revenue Calculation, Sell Medicine, Medicine Management, Daily Actions, and Weekly Actions, along with a search bar. The main content area is titled "Add New Vendor" and contains a form with the following fields:

- Vendor Name:** A text input field containing the value "vendor".
- Address:** A text input field containing the value "address of vendor".
- Phone Number:** A text input field containing the value "9876543210".
- Email Address:** A text input field containing the value "vendor1@email.com".

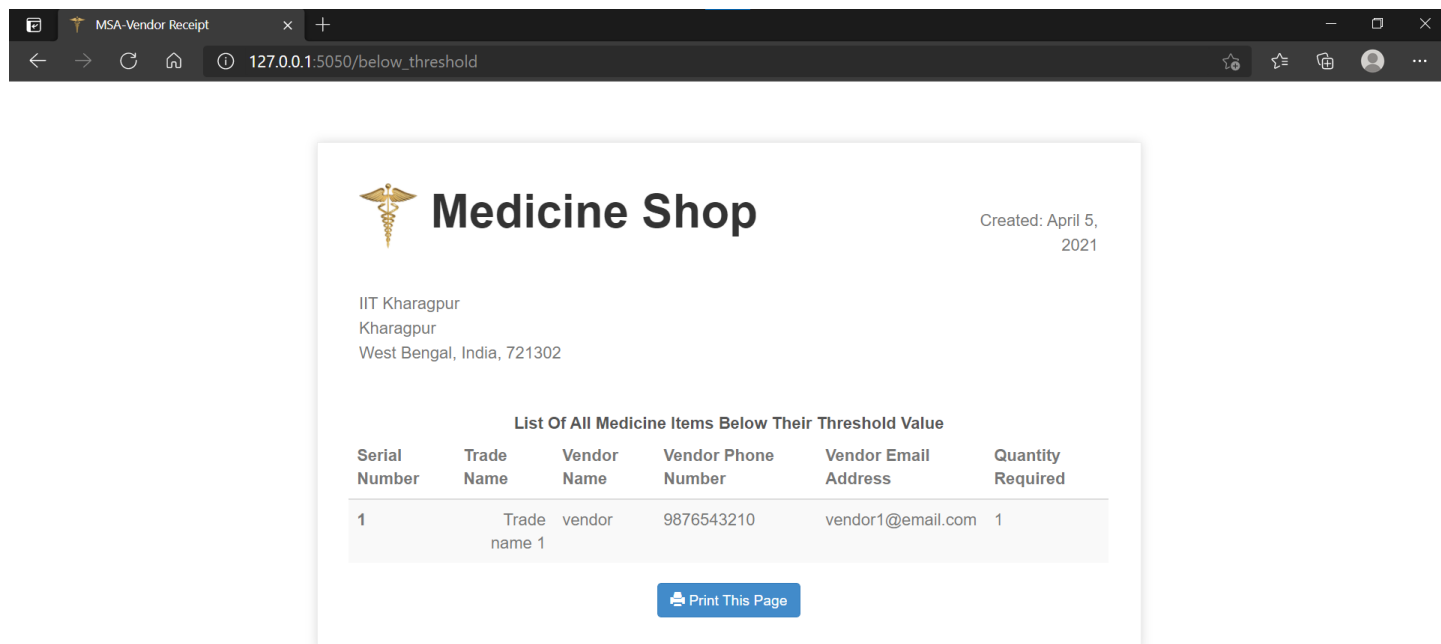
Below the form is a blue button labeled "Add the Vendor".

This testing tests the add vendor method of our interface.

Input	Expected Output	Actual Output	Inference
Entry for Vendor Name is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for email is not a valid email format	An error message should be displayed	Error message was displayed	No bug found
Entry for mobile number is	An error message should be displayed	Error message was displayed	No bug found

not a number			
Entry for the Vendor Address is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for Vendor Name is not blank and entry for email and mobile number is valid	No error message should be displayed and vendor is added successfully	Success message of vendor being added is displayed	No bug found
Entry for Vendor Name is blank	An error message should be displayed	Error message was displayed	No bug found
Entry for Vendor Name is already existing Vendor Name	An error message should be displayed	Error message was displayed	No bug found

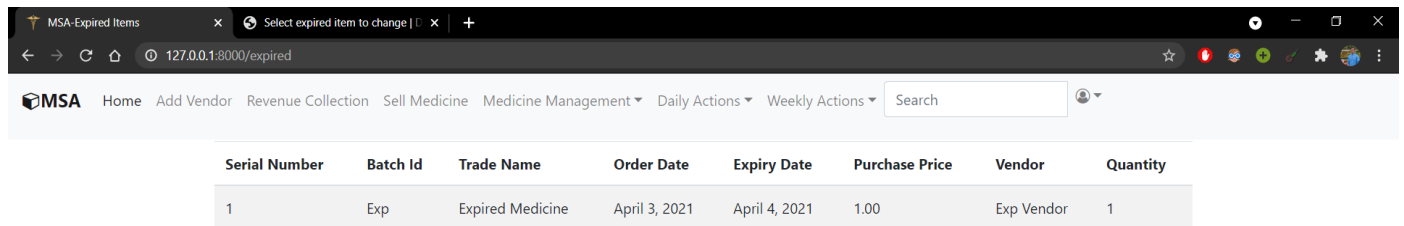
Generating List of Below Threshold Medicines



This testing checks the “Generate List of Below Threshold Medicines” method in the medicine shop manager’s interface.

Input	Expected Output	Actual Output	Inference
If no medicines exist in the database.	An error message should be displayed	Error message was displayed	No bug found
If medicines exist in the database before pressing this button	No error message should be displayed and a detailed report of all medicines below their respective	The detailed report of all medicines below their respective threshold mark with vendor details, medicine id, and quantity required provided	No bug found

	threshold mark with vendor details, medicine id, and quantity required provided to the shop owner in a document for printing.	to the shop owner in a document for printing is provided.	
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Serial Number	Batch Id	Trade Name	Order Date	Expiry Date	Purchase Price	Vendor	Quantity
1	Exp	Expired Medicine	April 3, 2021	April 4, 2021	1.00	Exp Vendor	1

Generating List of Expired Medicines

This testing checks the “Generate List of Expired Medicines” method in the medicine shop manager’s interface.

Input	Expected Output	Actual Output	Inference
If no medicines exist in the database.	An error message should be displayed	Error message was displayed	No bug found

If medicines exist in the database before pressing this button	No error message should be displayed and a detailed list of expired medicines along with the respective vendors provided to the shop owner in a document for printing.	The detailed report of all expired medicines with vendor details, medicine id, and quantity is provided to the shop owner	No bug found
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Sell Medicine method

This testing checks the Sell Medicine method in the show manager interface. A popup asks the user for the customer information to be printed on a receipt the medicine id he wants to order and its quantity.

The screenshot shows a web browser window with the URL `127.0.0.1:5050/sellmedicine`. The application has a navigation bar with the MSA logo and links to Home, Add Vendor, Revenue Calculation, Sell Medicine, Medicine Management, Daily Actions, and Weekly Actions. A search bar is also present.

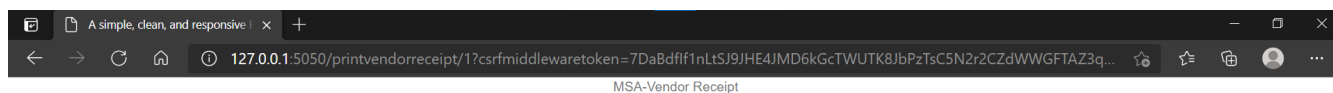
The main form contains the following fields:


- Receipt Number:
- Customer Name:
- Contact Number:
- Medicine:
- Quantity:

Below the form is a blue button labeled "Add Medicine".

At the bottom, there is a table with the following structure:

Serial Number	Medicine	Batch ID	Expiry Date	Price	Quantity	Total Price
Sum Total						0





Medicine Shop

Invoice #: 1
Created: April 30, 2021

IIT Kharagpur
Kharagpur
West Bengal, India, 721302
msa@gmail.com
1234554321

vendor
9876543210
vendor1@email.com
address of vendor

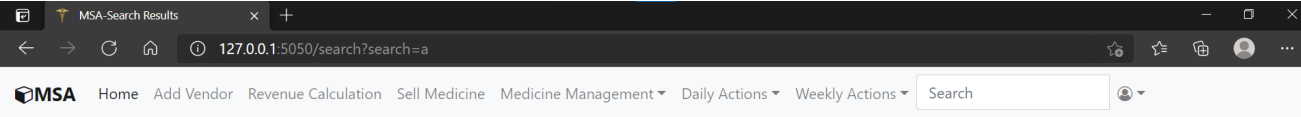
Serial Number	Medicine Name	Batch ID	Order Date	Expiry Date	Price	Quantity	Total Price
1	Trade name 1	batch123	April 30, 2021	April 16, 2021	100.00	500	50000.00
Sum Total:							50000.00

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Input	Expected Output	Actual Output	Inference
The medicine ID entered does not exist before pressing this button	An error message should be displayed	Error message was displayed	No bug found
The quantity for an existing medicine is less than the quantity entered before pressing this button	An error message should be displayed	Error message was displayed	No bug found
The customer details are entered in the wrong format before pressing this button. Example: Phone number	An error message should be displayed	Error message was displayed	No bug found

does not have 10 digits.			
The medicine ID exists, quantity demand is met and customer details are in the correct format before pressing this button.	No error message is displayed and a receipt containing the customer details and medicine list along with their quantity is provided to the shop owner in a document for printing.	A receipt is created that contains the customer details and medicines purchased along with their quantities which can be printed, is provided to the shop owner.	No bug found

Search Medicine



The screenshot shows a web browser window with the title 'MSA-Search Results'. The address bar shows the URL '127.0.0.1:5050/search?search=a'. The navigation bar includes links for Home, Add Vendor, Revenue Calculation, Sell Medicine, Medicine Management, Daily Actions, and Weekly Actions, along with a search bar. The main content area is titled 'Search Results' and displays a table with one result.

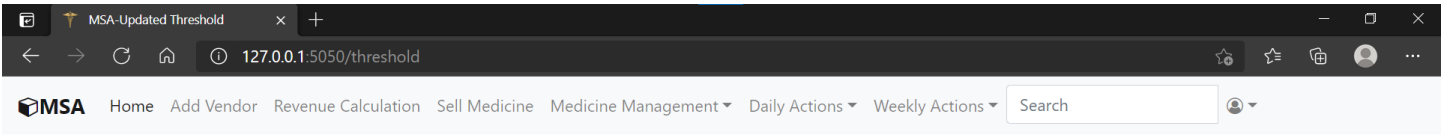
Medicine Code	Trade Name	Generic Name	Medicine Code	Vendor Name	Purchase Price	Selling Price	Quantity with Expiry Date
1	Trade name 1	Generic Name 1	1	vendor	100.00	150.00	<ul style="list-style-type: none"> Quantity: 500 Expiry Date: April 16, 2021

This testing checks the search medicine function.

Input	Expected Output	Actual Output	Inference
If name is empty	List of all the medicines to be displayed	List of all medicines is displayed	No bug found
No result with the provided search term present	“No Medicine with this name printed on the screen”	“No Matching Items Found” is displayed on the screen	No bug found
Input is as expected	List of all the medicines with all the details displayed on the	List of all corresponding medicines along with all their	No bug found

	screen	details is printed on the screen	
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Calculate Threshold



This testing checks the “calculate threshold”.

Input	Expected Output	Actual Output	Inference
If database contains no medicine	No change will happen	No change had happened	No bug found
Medicine are present	Threshold of all the Medicine will be updated	Threshold of all the Medicines were updated	No bug found

Printing Vendor Wise Payments

Medicine Shop

Invoice #: 1
Created: April 30, 2021

IIT Kharagpur
Kharagpur
West Bengal, India, 721302
msa@gmail.com
1234554321

vendor
9876543210
vendor1@email.com
address of vendor

Serial Number	Medicine Name	Batch ID	Order Date	Expiry Date	Price	Quantity	Total Price
1	Trade name 1	batch123	April 30, 2021	April 16, 2021	100.00	500	50000.00
Sum Total:							50000.00

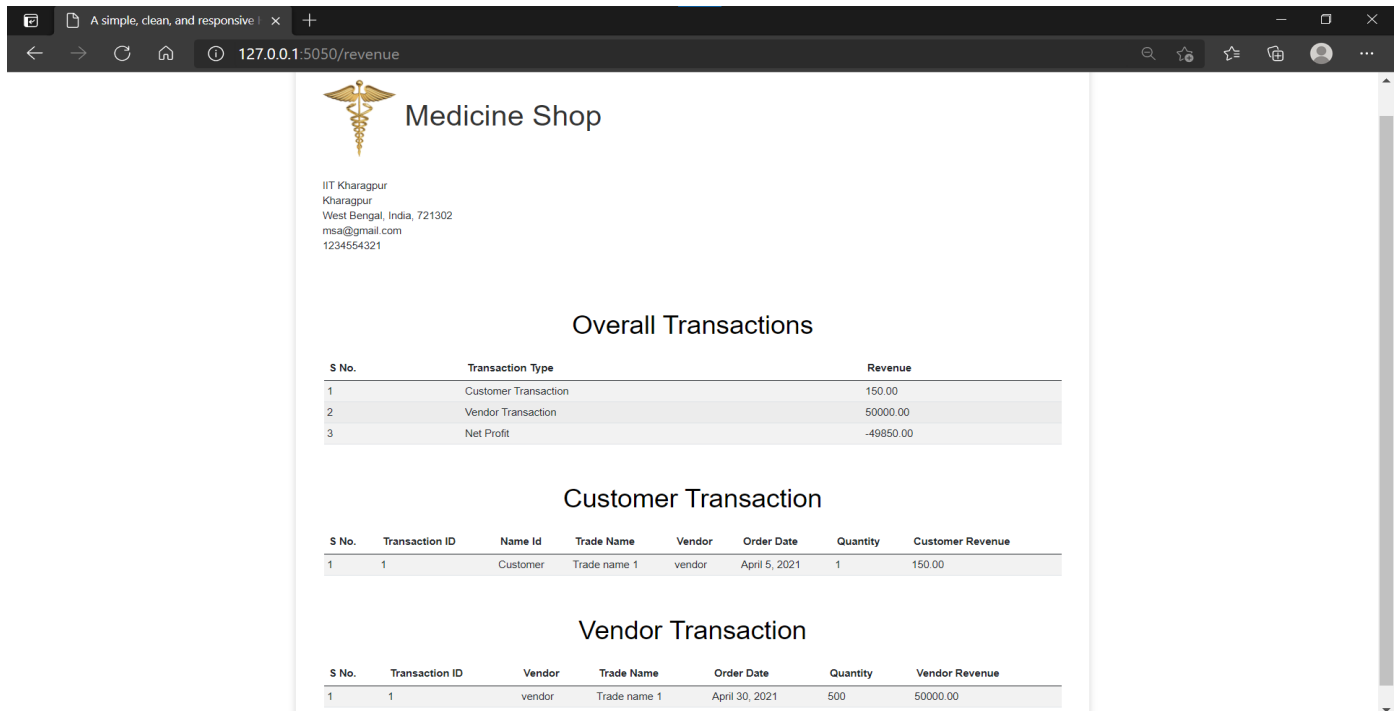
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This testing checks the “Print Vendor Wise Payment” method in the medicine shop manager’s interface. All the vendor transactions are taken into account for a particular period of time which is read from the user on pressing this button. A popup asks the user for the duration for which the vendor wise transactions are to be displayed.

Input	Expected Output	Actual Output	Inference
The vendor ID entered does not exist.	An error message should be displayed	An error message is displayed	No bug found
No vendor transactions are created in the given duration before pressing this button	An error message should be displayed	An error message is displayed	No bug found

<p>A proper start date and end date is entered and Vendor Transactions are created in this duration for that particular vendor before pressing this button</p>	<p>No error message should be displayed and a detailed report of all medicines bought in the period along with their quantity and id from that particular vendor. In the report, the net expenditure over the period with the selected vendor is also mentioned.</p>	<p>No error message is displayed and a detailed report of all medicines bought in the period along with their quantity and id from that particular vendor. In the report, the net expenditure over the period with the selected vendor is also mentioned.</p>	<p>No bug found</p>
<p>The duration entered is in a wrong format.</p>	<p>An error message should be displayed</p>	<p>An error message is displayed</p>	<p>No bug found</p>

Calculating Profit and Revenue



Medicine Shop
 IIT Kharagpur
 Kharagpur
 West Bengal, India, 721302
 msa@gmail.com
 1234564321

Overall Transactions

S No.	Transaction Type	Revenue
1	Customer Transaction	150.00
2	Vendor Transaction	50000.00
3	Net Profit	-49850.00

Customer Transaction

S No.	Transaction ID	Name Id	Trade Name	Vendor	Order Date	Quantity	Customer Revenue
1	1	Customer	Trade name 1	vendor	April 5, 2021	1	150.00

Vendor Transaction

S No.	Transaction ID	Vendor	Trade Name	Order Date	Quantity	Vendor Revenue
1	1	vendor	Trade name 1	April 30, 2021	500	50000.00

This testing checks the “calculate profit and revenue” method in the medicine shop manager’s interface. All the transactions and expenditures are taken into account for a particular period of time which is read from the user on pressing this button. A popup asks the user for the duration for which the profit and revenue is to be displayed

Input	Expected Output	Actual Output	Inference
No transactions and expenditures are created in the given duration before pressing this button	An error message should be displayed	An error message should be displayed	No bug found
A proper start date and end date is entered and Transactions/expe	No error message should be displayed and a document	No error message is displayed and a document	No bug found

nditures are created in this duration before pressing this button	containing a detailed report of all medicines sold in the period along with their quantity and id, and similarly all medicines bought from the different vendors in the given time. In the report, the net profit and net expenditure over the period are mentioned.	containing a detailed report of all medicines sold in the period along with their quantity and id, and similarly all medicines bought from the different vendors in the given time. In the report, the net profit and net expenditure over the period are mentioned.	
The duration entered is in a wrong format.	An error message should be displayed	An error message is displayed	No bug found