

# User Requirement Document

## Medicine Shop Automation (MSA)

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## MEDICINE SHOP AUTOMATION TOOL

Version 1.1

### Requirement Document

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#### Version History

Version. No	Date	Changed by	Changes mode
V1.0			
V1.1			
V1.1			

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## **Introduction:**

This document has the requirements of Medicine Shop Automation tool. The MSA tool is used by Customer , Shop keeper, manager, vendor. By using the MSA Tool, provide services to their customers.

## **Purpose:**

The purpose of this document is to gather the requirements that are needed for implementing the Medicine Shop Automation tool. It also focuses on various key features, the medicine, customer vision and scope, medicine overview.

The purpose of MSA tool is to provide online solutions to customers.

## **Intended Audience:**

The intended audience will be the customers who want to get online medicines through Pharmacies.

## **Stakeholders:**

Client: Pharmacies – Lynn Robert Carter

Users: individuals who needs medicines.

## **Product Vision**

### ***Vision Statement:***

The product vision is to develop a MSA Tool, which is user friendly and easily accessible. This MSA Tool helps to provide online purchase of medicines for the customer problems.

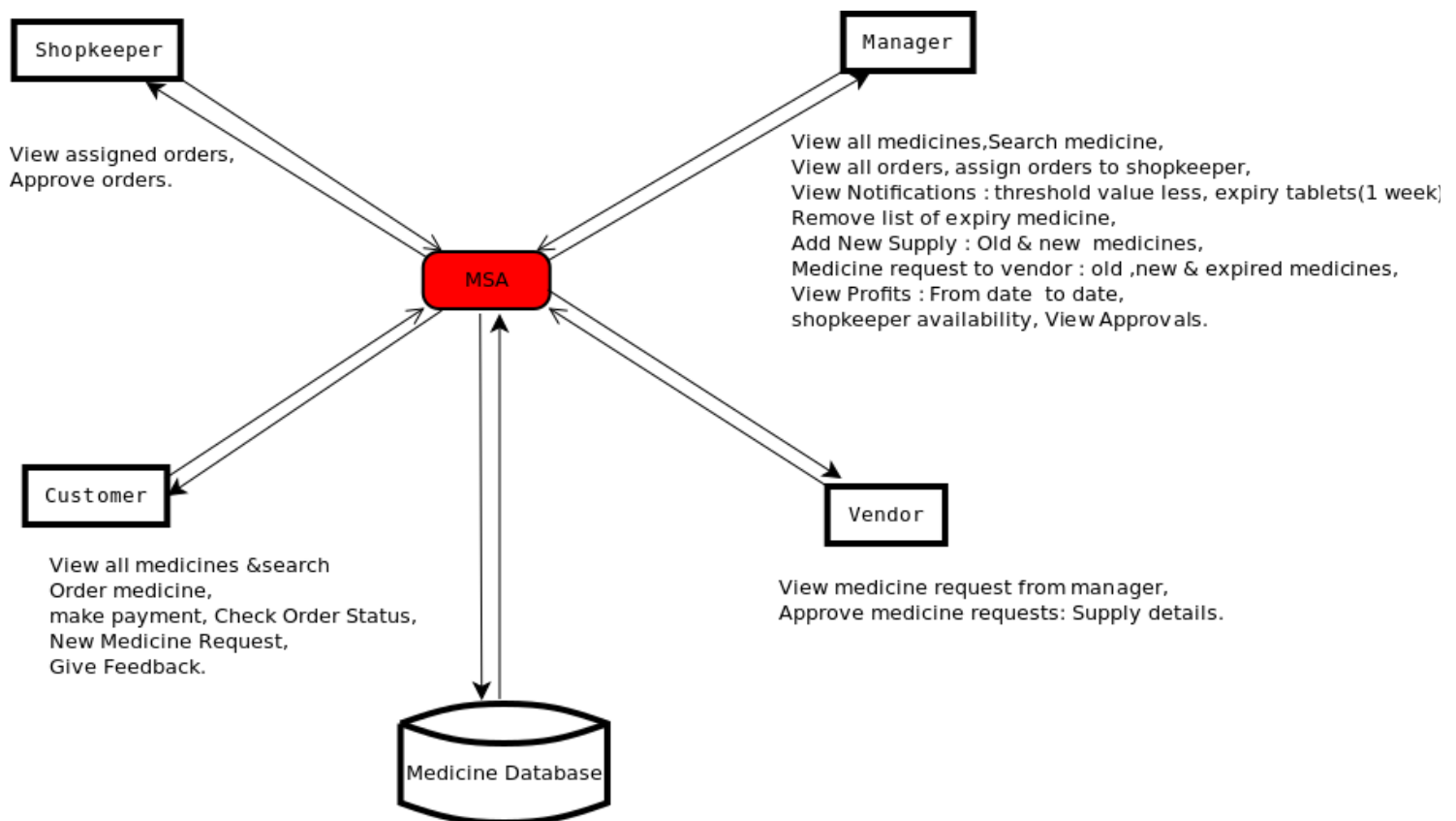
## **Technologies:**

HTML, PHP, MYSQL, JAVA SCRIPT, XAMPP, CSS.

### System in Context:

MSA Tool is a multi user system which provides online purchase of medicines for the customer problems. It takes orders from customers and provide order id to customer. It assigns order request to support manager. The manager will assign the order to the shop-keeper by using shop-keeper id's. He delivers the ordered medicines to the respective customer according to order id and after the delivery he can change the order status. MSA tool helps to check the status and support personnel to change help request status.

### Context Diagram



### User Characteristics:

The Users are typical computer users.

The users are familiar with using internet

**Constraints:**

N/A

**System-Wide Requirements (Received):****Actors:**

The system interacts with three kinds of users. Each user has own functions to access with system. The functionalities of users are dependent on each other.

**Events:**

MSA Tool is a multi-user system which provides online shopping for medicines.

The most critical events are:

1. Customer orders the medicines.
2. Manager assigns the order to shopkeepers.
3. Shopkeeper approves the orders.
4. Customer checks his order status.
5. Manager sends the new supply medicine request to vendor.
6. Vendor accept the request and give the supply details to the manager.
7. Manager adds the new supply details.
8. Manager can checks the profits.

The below table provides a set of user visible events that define the functionalities that are in

**MSA Tool**

	<u>Actor</u>	<u>Action</u>	<u>Object</u>	<u>Frequency</u>	<u>Arrival</u> <u>Patern</u>	<u>Response</u>
1.	Customer	Opens	Web page	2/week	Episodic	Page open, shows 2 options (login, registration)

2.	Customer	selects	registration	2/week	Episodic	Account created according to details and logged in
3.	Customer	login	Log in page	2/week	Episodic	Got customer page which contains customer options.
4.	Customer	selects	Search medicine	2/week	Episodic	Go to list of medicines according to his/her search.
5.	Customer	selects	medicines	2/week	Episodic	Got the details of the medicines
6.	Customer	selects	Order medicine	2/week	Episodic	Medicine ordered and got order id.
7.	Customer	selects	View order status	2/week	Episodic	Can see all the order status he order.
8.	Customer	selects	feedback	2/week	Episodic	Go to feedback page.
9.	Manager	Login	Login page	3/day	Episodic	Go to manager page which contains manager options
10.	Manager	selects	View all orders	3/day	Episodic	List of all orders
11.	Manager	selects	Assigned orders	3/day	Episodic	Go to list of shopkeeper to assign the order
12.	Manager	selects	View all medicines	3/day	Episodic	Get the list of all medicines by generic name, trade name
13.	Manager	selects	View all notifications	3/day	Episodic	Get the list the threshold value, expired tablets, removed medicines
14.	Manager	selects	New supply medicines	3/day	Episodic	Enter the details of the new supply
15.	Manager	selects	Request to	3/day	Episodic	Send a request a vendor

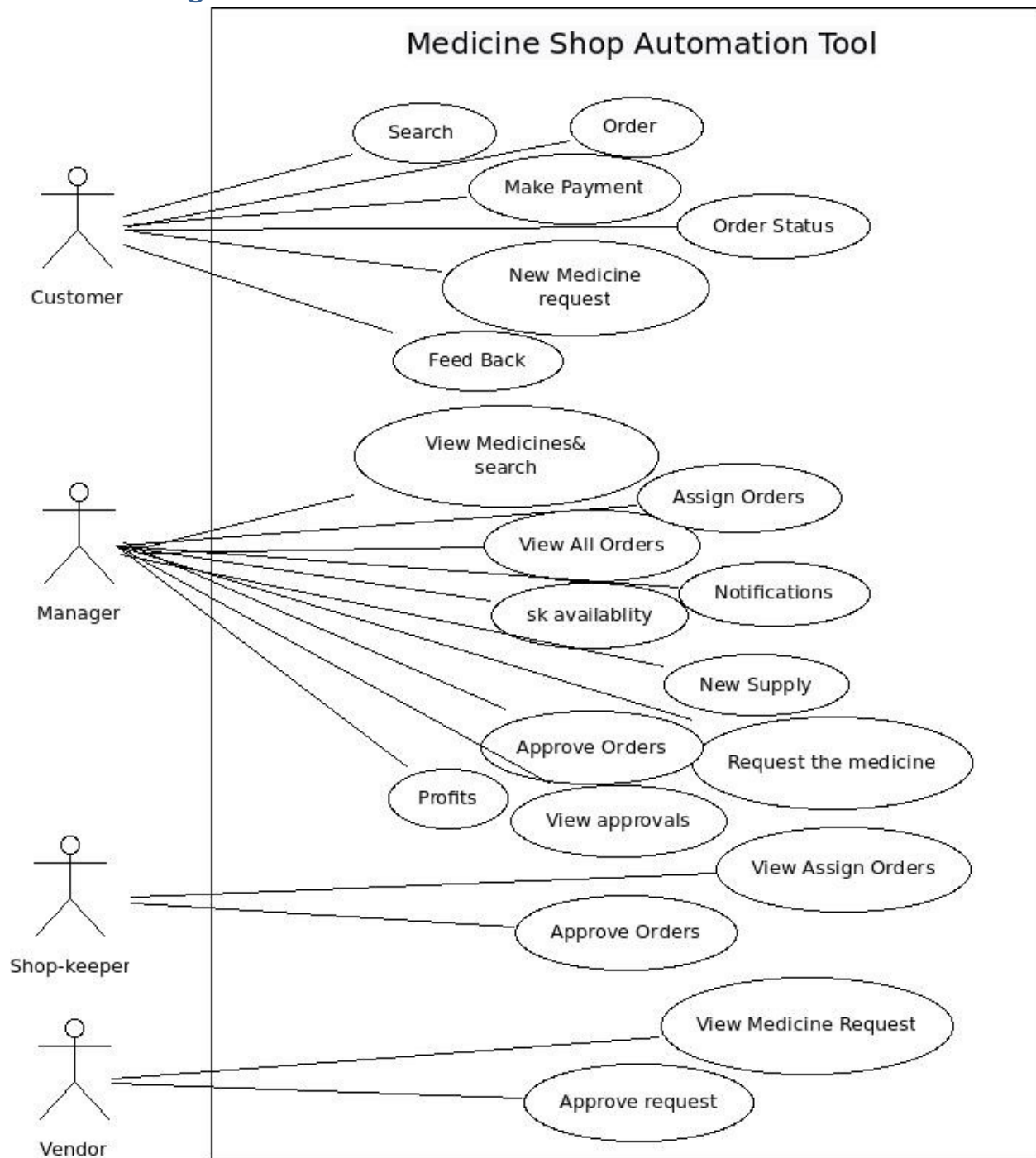


			vendor			about supplies
16.	Manager	selects	View all profits	3/day	Episodic	Get the page of all profits from date to date
17.	Manager	selects	View approve orders	3/day	Episodic	View the status of orders
18.	Shopkeeper	Login	Login page	3/day	Episodic	Go to shopkeeper page, which contains shopkeeper options
19	Shopkeeper	selects	Assigned orders	3/day	Episodic	Got the list of all assigned orders
20	Shopkeeper	selects	Approve orders	3/day	Episodic	Change the order status
21.	Vendor	Login	Login page	1/week	Episodic	Go to Vendor page, which contains vendor details
22.	Vendor	selects	Available medicine request	1/week	Episodic	Check all medicine requests from manager
23.	Vendor	selects	Approve the medicine supply	1/week	Episodic	Send a reply to the manager

### Use case overview:

	Use-CASE ID:	Use-Case Name	Priority	Stability	Verifiability
1.	UC-MSAT-CMS	Search medicines	High	Stable	Verifiable
2.	UC-MSAT-COM	Order medicines	High	Stable	Verifiable
3.	UC-MSAT-CMP	Make payment	High	Stable	Verifiable
4.	UC-MSAT-CCOS	Check order status	High	Stable	Verifiable

5.	UC-MSAT-CNMR	New medicine request	High	Stable	Verifiable
6.	UC-MSAT-CFB	Feedback	High	Stable	Verifiable
7.	UC-MSAT-MVAMS	View all medicines and search medicines	High	Stable	Verifiable
8.	UC-MSAT-MVAO	View all orders	High	Stable	Verifiable
9.	UC-MSAT-MAOS	Assigned orders to shopkeeper	High	Stable	Verifiable
10.	UC-MSAT-MVN	View all notifications (threshold value less, removed medicines, expired medicines)	High	Stable	Verifiable
11	UC-MSAT-MANS	Add new supplies	High	Stable	Verifiable
12	UC-MSAT-MMRV	Medicine requests to vendor	High	Stable	Verifiable
13	UC-MSAT-MVP	View profits	High	Stable	Verifiable
14	UC-MSAT-MSKA	Shop-keeper availability	High	Stable	Verifiable
15	UC-MSAT-MVSA	View Shopkeeper approvals	High	Stable	Verifiable
16	UC-MSAT-SVAO	View assigned orders	High	Stable	Verifiable
17	UC-MSAT-SAO	Approve orders	High	Stable	Verifiable
18	UC-MSAT-VVMR	View medicine request	High	Stable	Verifiable
19	UC-MSAT-VAMR	Approve medicine requests	High	Stable	Verifiable

**Use Case Diagram:**

## Use Case Specifications:

### 1. UC-MSAT CSM: Search medicines:

Use-Case ID:UC MSAT-CSM	Use-Case Name: <b>Search medicines</b>
Description:	Customer got list of medicines according to his/her search.
Pre-conditions	1. User must login to the MSA site.
Success guarantee (post-conditions)	After searching got list of medicines according to his/her search.
Frequency of use:	High
Main success scenario (or basic flow)	<ol style="list-style-type: none"><li>1. Customer access the MSA website homepage.</li><li>2. He must login to his account.</li><li>3. He/She enters the required medicines in search bar.</li><li>4. In last step, the customer clicks on Search button.</li></ol>
Extensions (or alternate flows)	<ol style="list-style-type: none"><li>1. If customer doesn't enter required details or entered invalid details like medicine name .<ol style="list-style-type: none"><li>a. the system prompts the customer to enter the correct details</li></ol></li></ol>
Frequency of occurrence	Low

**2. UC-MSAT-COM:Order medicines:**

<b>Use-Case ID:UC -MSAT-COM</b>	<b>Use-Case Name: Order medicines</b>
<b>Description:</b>	The customer orders medicines he/she required.
<b>Pre-conditions</b>	The user must need at least one medicine to order.
<b>Success guarantee (post-conditions)</b>	After ordering the medicines Customer gets an immediate email which has a unique order id.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	<ol style="list-style-type: none"><li>1. After successfully login the customer check the medicines details.</li><li>2. Customer checks the delivery availability</li><li>3. Customer click on the order medicine option.</li><li>4. Customer must enter the delivery details.</li><li>5. customer selects make payment option.</li></ol>
<b>Extensions (or alternate flows)</b>	<p>If customer clicks on the order option without selecting any medicines.</p> <ol style="list-style-type: none"><li>a. It shows a pop-up message 'please select medicines'.</li></ol>
<b>Frequency of occurrence</b>	Low

**3. UC MSAT-CMP: Make payment:**

<b>Use-Case ID:</b> UC MSAT-CMP	<b>Use-Case Name:</b> <b>Make payment</b>
<b>Description:</b>	The customer make payments for his/her ordered medicines
<b>Pre-conditions</b>	The customer must order at least one medicine.
<b>Success guarantee (post-conditions)</b>	After making payment the customer gets an immediate email which has payment details.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1. After successfully login and order the medicine. 2. customer clicks on the make payment.
<b>Extensions (or alternate flows)</b>	If customer wallet has insufficient amount. a. The system prompts customer to add money to wallet .
<b>Frequency of occurrence</b>	Low

**4. Use-Case ID: UC MSAT-CCOS:**

<b>Use-Case ID:</b> UC MSAT-CCOS	Use-Case Name: <b>Check order status.</b>
<b>Description:</b>	The customer checks the order status.
<b>Pre-conditions</b>	The customer must completed at least one order.
<b>Success guarantee (post-conditions)</b>	The customer gets order status
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1. After successfully login and completes an order. 2. The customer checks the order status
<b>Extensions (or alternate flows)</b>	The Customer doesn't completed any order a. The system prompts the customer "there is no orders to check status"
<b>Frequency of occurrence</b>	Low

**5. Use-Case ID:UC MSAT-CNMR: New medicine request**

<b>Use-Case ID:UC MSAT-CNMR</b>	<b>Use-Case Name: New medicine request.</b>
<b>Description:</b>	The customer request the medicine which is not available.
<b>Pre-conditions</b>	The customer must enter at least one medicine which is not available in our MSA tool.
<b>Success guarantee (post-conditions)</b>	After requesting the new medicine the customer gets a notification when the requested medicine is available.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	<ol style="list-style-type: none"><li>1.After successfully login,the customer search medicines he/she required.</li><li>2.If the medicine is not available, the customer selects new medicine request option.</li><li>3. The customer enters new medicine details.</li></ol>
<b>Extensions (or alternate flows)</b>	<p>If the customer requests invalid medicine.</p> <ol style="list-style-type: none"><li>a. The manager sends an email to the customer about the medicine he/she requested.</li></ol>
<b>Frequency of occurrence</b>	Low



**6.UC MSAT-CFB: Feedback**

<b>Use-Case ID:UC MSAT-CFB</b>	Use-Case Name: <b>Feedback</b>
<b>Description:</b>	The customer gives feedback about the service.
<b>Pre-conditions</b>	The customer must have an account in MSA.
<b>Success guarantee (post-conditions)</b>	After giving the feedback the customer gets an immediate email about the feedback.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,he selects the feedback option.  2.Customer enter the feedback and selects the submit option.
<b>Extensions (or alternate flows)</b>	If the customer submits feedback without anything.  a. The system prompts the customer to use at least enter 3 characters.
<b>Frequency of occurrence</b>	Low

**7.UC MSAT-CFB: MVAMS**

<b>Use-Case ID:</b> UC MSAT-MVAMS	<b>Use-Case Name:</b> Search medicine(by generic/trade name)
<b>Description:</b>	Manager got list of medicines according to the search.
<b>Pre-conditions</b>	1.The manger must login.
<b>Success guarantee (post-conditions)</b>	After searching, got list of medicines according to his/her search.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	<ol style="list-style-type: none"><li>1. Manager access the MSA website homepage.</li><li>2. He must login to his account.</li><li>3. He/She enters the required medicines in search bar.</li><li>4. In last step, the customer clicks on Search button.</li></ol>
<b>Extensions (or alternate flows)</b>	<ol style="list-style-type: none"><li>1. If manager doesn't enter required details or entered invalid details like medicine details like generic/trade name.<ol style="list-style-type: none"><li>a. the system prompts the customer to enter the correct details</li></ol></li></ol>
<b>Frequency of occurrence</b>	Low

**8. UC MSAT-MVAO: View all orders.**

Use-Case ID:UC MSAT-MVAO	Use-Case Name: <b>View all orders.</b>
Description:	The manger views all orders.
Pre-conditions	The manager must login.
Success guarantee (post-conditions)	The manager gets the list of all orders.
Frequency of use:	High
Main success scenario (or basic flow)	1.After successfully login,selects view all orders option.
Extensions (or alternate flows)	If all orders are assigned to shopkeeper the system prompts the manger 'there is no new orders'.
Frequency of occurrence	Low

**9. UC MSAT-MAOS :Assign orders to shopkeeper.**

Use-Case ID:UC MSAT-MAOS	Use-Case Name: <b>Assign orders to shopkeeper.</b>
Description:	The manager assign orders to the shopkeeper.
Pre-conditions	There must be at least one new order.
Success guarantee (post-conditions)	The order will be assigned to the shopkeeper.
Frequency of use:	High
Main success scenario (or basic flow)	1.After successfully login,selects view all orders option.  2.Select the option assign order to shopkeeper by using shopkeeper's ID's.
Extensions (or alternate flows)	If all orders are assigned to shopkeeper the system prompts the manger 'there is no new orders'.
Frequency of occurrence	Low

**10. UC MSAT-MVN : View all Notifications.**

<b>Use-Case ID:</b> UC MSAT-MVN	<b>Use-Case Name:</b> <b>View all Notifications.</b>
<b>Description:</b>	The manger can view all the notifications like threshold value less,Removed medicine,Expired medicine,New medicine request.
<b>Pre-conditions</b>	The manager must login.
<b>Success guarantee (post-conditions)</b>	The manger can get all the notifications like threshold value less,Removed medicine,Expired medicine,New medicine request.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,selects view notifications option.
<b>Extensions (or alternate flows)</b>	If there is no new notifications like threshold value less,Removed medicine,Expired medicine,New medicine request.  a. The system prompts the manager 'There is no new notifications.
<b>Frequency of occurrence</b>	Low

**11. UC MSAT-MANS : Add new supplies.**

<b>Use-Case ID:UC MSAT-MANS</b>	<b>Use-Case Name: Add new supplies.</b>
<b>Description:</b>	The manager can add the new supply details.
<b>Pre-conditions</b>	The manger must login and also there must be at least one new supply.
<b>Success guarantee (post-conditions)</b>	The manager can add the new supply details
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,the manager selects the Add_New_Supply option.  2.The manager enters the new supply details.
<b>Extensions (or alternate flows)</b>	If there is no new supplies.
<b>Frequency of occurrence</b>	Low

**12. UC MSAT-MMRV : Medicine request to vendor.**

<b>Use-Case ID:</b> UC MSAT-MMRV	<b>Use-Case Name:</b> <b>Medicine request to vendor.</b>
<b>Description:</b>	The manager sent a request to the vendor about the medicines which are threshold value less,Expired medicine,New medicine request from customer.
<b>Pre-conditions</b>	The manager must login and he must contain at least one new notification about the medicines which are threshold value less,Expired medicine,New medicine request from customer..
<b>Success guarantee (post-conditions)</b>	After manager sending the request, the vendor can get a notification which contain list of requested medicines.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login the manager selects the Medicine_Request_to_Vendor.  2.Enter medicine details and selects submit option.
<b>Extensions (or alternate flows)</b>	If there is no new notifications about the medicines which are threshold value less,Expired medicine,New medicine request from customer.  a. The system prompts the manger,'There is no need to request for medicines'.
<b>Frequency of occurrence</b>	Low

**13. UC MSAT-MVP : View Profits.**

<b>Use-Case ID:</b> UC MSAT-MVP	<b>Use-Case Name:</b> <b>View Profits.</b>
<b>Description:</b>	The manager can view the profits between some time period(date to date).
<b>Pre-conditions</b>	The manager must login and there must have at least one completed order between that time period.
<b>Success guarantee (post-conditions)</b>	The manager gets the profit details in the given time period.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,he/she selects View_Profit option.  2.Enter time period and selects submit option.
<b>Extensions (or alternate flows)</b>	If there is no completed orders between the given time period.  a. The system prompts the manager 'There is no orders so no profit'.
<b>Frequency of occurrence</b>	Low



**14. UC MSAT-MSKA : Shopkeeper Availability**

<b>Use-Case ID:</b> UC MSAT-MSKA	<b>Use-Case Name:</b> <b>Shopkeeper Availability</b>
<b>Description:</b>	The manager can view availability of shopkeepers.
<b>Pre-conditions</b>	1.The manager must login.
<b>Success guarantee (post-conditions)</b>	The manager can the availability of all the shopkeepers.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,he selects Shopkeeper_Availability option.
<b>Extensions (or alternate flows)</b>	
<b>Frequency of occurrence</b>	Low

**15. UC MSAT-MVSA : View shopkeeper approvals**

<b>Use-Case ID:</b> UC MSAT-MVSA	<b>Use-Case Name:</b> <b>View shopkeeper approvals</b>
<b>Description:</b>	The manager can view all the approvals of the orders by the shopkeeper.
<b>Pre-conditions</b>	The manager must login.
<b>Success guarantee (post-conditions)</b>	The manager gets all the approvals of the orders by the shopkeeper.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.After successfully login,he/she selects View_Shopkeeper's_Approvals option.
<b>Extensions (or alternate flows)</b>	If there is no new approvals by shopkeepers.  a. The system prompts the manger ' There is no new approvals'.
<b>Frequency of occurrence</b>	Low

**16. UC MSAT-SVAO : View assigned orders**

<b>Use-Case ID:UC MSAT-SVAO</b>	<b>Use-Case Name: View assigned orders</b>
<b>Description:</b>	Shop-keeper got the lost of all his assigned orders
<b>Pre-conditions</b>	Shop-keeper must login to MSA tool
<b>Success guarantee (post-conditions)</b>	After login to the MSA tool ,shop-keeper views the all assigned orders.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.shop keeper must login to MSA tool 2.Shop keeper can check all assigned orders
<b>Extensions (or alternate flows)</b>	If shop keeper does not have any assigned orders a. System prompts there is no any assigned orders to you .
<b>Frequency of occurrence</b>	Low

**17. UC MSAT-SAO : Approve orders**

<b>Use-Case ID:UC MSAT-SAO</b>	<b>Use-Case Name: Approve orders</b>
<b>Description:</b>	Shop keeper approve the assigned orders which is assigned by manager.
<b>Pre-conditions</b>	Shop-keeper should has at least one assigned order .
<b>Success guarantee (post-conditions)</b>	Shop-keeper must approve the assigned orders.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.shop keeper must login MSA tool,check the assigned orders  2.Shop keeper will approve the assigned orders .
<b>Extensions (or alternate flows)</b>	.1.shop keeper must have at least one assigned order  a. approve option will work otherwise the system will show Pop-up .
<b>Frequency of occurrence</b>	Low

**18. UC MSAT-VVMR : View medicine request**

<b>Use-Case ID:UC MSAT-VVMR</b>	<b>Use-Case Name: View medicine request</b>
<b>Description:</b>	Vendor got the list of all medicine request notifications from manager
<b>Pre-conditions</b>	Manager sends the medicine request to vendor through MSA Tool.
<b>Success guarantee (post-conditions)</b>	Vendor can check all medicine requests in his account.
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.He must login to MSA tool,check all medicine requests  2.He reply to the medicine requests.
<b>Extensions (or alternate flows)</b>	1.if vendor does not have requested medicines  a. Vendor will send a message to manager that requested medicine is not available  b. Vendor does not send medicines to manager without medicine requests.
<b>Frequency of occurrence</b>	High

**19. UC MSAT-VAMR : Approve medicine request:**

<b>Use-Case ID:</b> UC MSAT-VAMR	<b>Use-Case Name:</b> Approve medicine request
<b>Description:</b>	Vendor approve the medicine requests if vendor has list of all medicines which medicines manager need .
<b>Pre-conditions</b>	1.Vendor must have at least one medicine request from manager.
<b>Success guarantee (post-conditions)</b>	Vendor will send approved medicines to manager .
<b>Frequency of use:</b>	High
<b>Main success scenario (or basic flow)</b>	1.Vendor must login to MSA tool,check all medicine requests notifications  2.Vendor will approve medicine requests if requested medicine is available to him/her
<b>Extensions (or alternate flows)</b>	1.Vendor must have at least one medicine request  a. approve option will work otherwise the system will show Pop-up .
<b>Frequency of occurrence</b>	High

## Non-Functional Requirements:

### Reliability:

Customer should get the exact ordered medicines.

### Usability:

This MSA tool should have user friendly GUI. User can use it effectively.

### Availability:

Customer can order medicines 24x7 with this tool.

### Accessibility:

This MSA tool supports multi user accessing. Any user can access the system from different places to use the tool.

### Performance:

User should have fast access to search and order the medicines very quickly.

### Security:

As it is a web based application it should be more secure in order to save medical company confidential data from hackers.

### Platform Compatibility:

This MSA tool has to work on any kind of operating system without modifying it.