

# PROJECT REPORT

## TITLE: MEDICAL STOCK MANAGEMENT SYSTEM

### Group Members:

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## Aim:

Develop a medical stock management system using JavaFX to reduce complexities for medical store. This Software helps them to perform stock management of medicines in medical store.

## Description of Project:

The Medical Stock Management System stores all the information/ details of Suppliers, Medicines and gives it to update, delete, search to the data in existing records.

At present Medical stores maintain their day to day transactions of stocks manually. These medical stores have thousands of products, they need to track all these products to check the stock, expiry date etc., If they do not return the expiry products to the distributor in time then they lose that much amount. So, it is very essential to track expiry items prior one month or before, then only they can be able to return these products back. To find the product is also another risky job. So proper system is required. They need a full pledged software to maintain their day to day transactions.

Our software helps them to maintain day to day transactions of stock of medicines in computer. They can keep track of their purchases, stocks details. The software is provided with all the master entries to enter any new product, or supplier to add or modify and delete, search.

## Project Scope:

As this is generic software it can be used by a wide variety of outlets (Retailers and Wholesalers) to automate the process of manually maintaining the records related to the subject of maintaining the stock. The main goal of the application is to maintain the records of purchase medicines and stock details & maintenance. This system will cover the following issues Add information of new Suppliers, Medicines. Search information of existing Suppliers, Medicines. Update information of existing Suppliers, Medicines. Delete information of existing Suppliers, Medicines. List the details of existing Supplier, Medicines. Generate daily purchase report.

This application can be accessed by two different kinds of users

- Administrator (Admin)
- Medical Store Manager

Administrator has a control over the different Medical store managers i.e. he/she can add different Medical Store Managers. Also, the administrator can access or generate the daily purchase report of medicines of each medical store.

The medical Store Manager will add new medicine / delete an existing medicine / search for an existing medicine / update an existing medicine and list or view the existing stock of medicine he / she has in his / her store and can add, search, remove a supplier.

## Main menu for Medical Stock Management System

The Supplier consists of the following

- Add new Supplier
- Delete supplier
- Search supplier
- Update supplier
- List of suppliers

The Medicine consists of the following

- Add new medicine
- Delete medicine
- Update medicine
- Search medicine
- List of medicine

### Classes Used:

- Users:  
Users login functionality is added in this class.
- Admin:
  - Admin can add different store managers
  - Admin can generate daily purchase report
  - Admin can also generate supplier wise report
- Store Manager:
  - A store manager can add, view, update, delete medicines
  - A store manager can add, view, update, delete Suppliers.
- Daily Purchase Report:  
This will generate report of medicines by date, so that admin (store owner) can keep track of all stock of medicines for a store manager.
- Supplier Wise Report:  
This will generate report of suppliers by name, so that admin (store owner) can keep track of medicines provided by a supplier.

## Login Credentials:

- Admin Login:
  - Username: admin
  - Password: 123
- Store Manager Login:
  - Username: pdeshmukh
  - Password: pdeshmukh

(We can add as many store managers we want from admin Login).

## Execution Steps:

- Double click on the jar file created: "pdesh\_finalProj.jar"

OR

- Execute in command prompt:

Go to the file location and execute below:

```
java -jar pdesh_finalProj.jar
```

## Individual Role In project:

Before talking about the individual contribution of the team members (Vighnesh and Prateek), we shall discuss the combine contribution of our both i.e. what all sections of the project or application we did together. We worked together on login page of the application and in the admin login we provided, we added store manager and for the credentials and details of the store manager, we both together created the tables related to admin and store manager in the database.

Now, talking about the individual contribution of members of team, we are in a group of two (Vighnesh and Prateek).

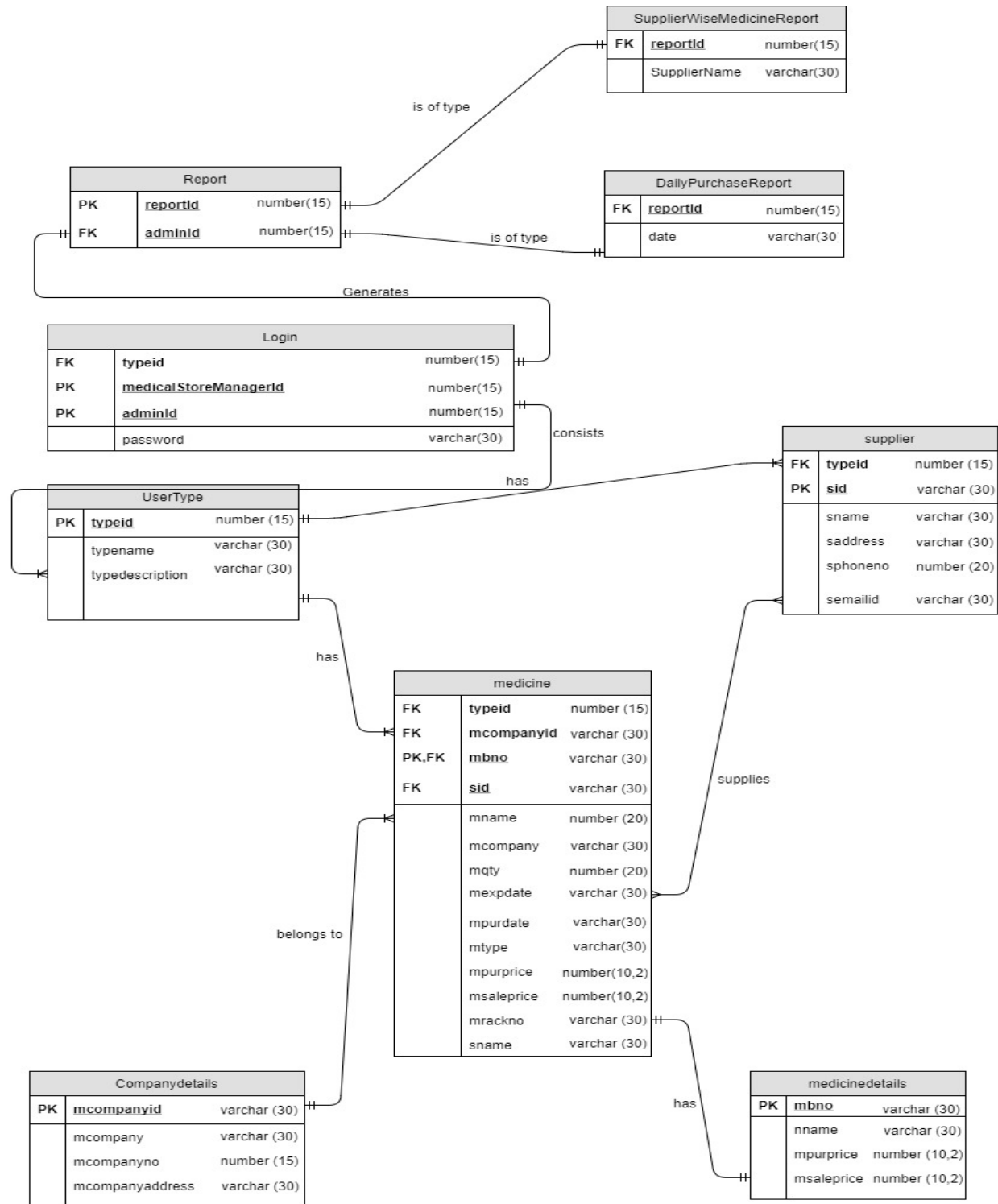
Talking about Prateek's contribution:

Prateek had developed the medicine module and by that means, Prateek did work on attributes of medicine i.e. he added details about the medicines in which he added add a medicine, search for a medicine, update a medicine, delete a medicine and to view the list of medicine added previously. Prateek also did work on the daily purchase report of medicine in the admin login, where by selecting a date and a store manager, we would be able to generate (display) report on the medicines that were sold out on that date and by that store manager. For this daily purchase report of medicines, Prateek worked on the database where he created every tables related to medicines.

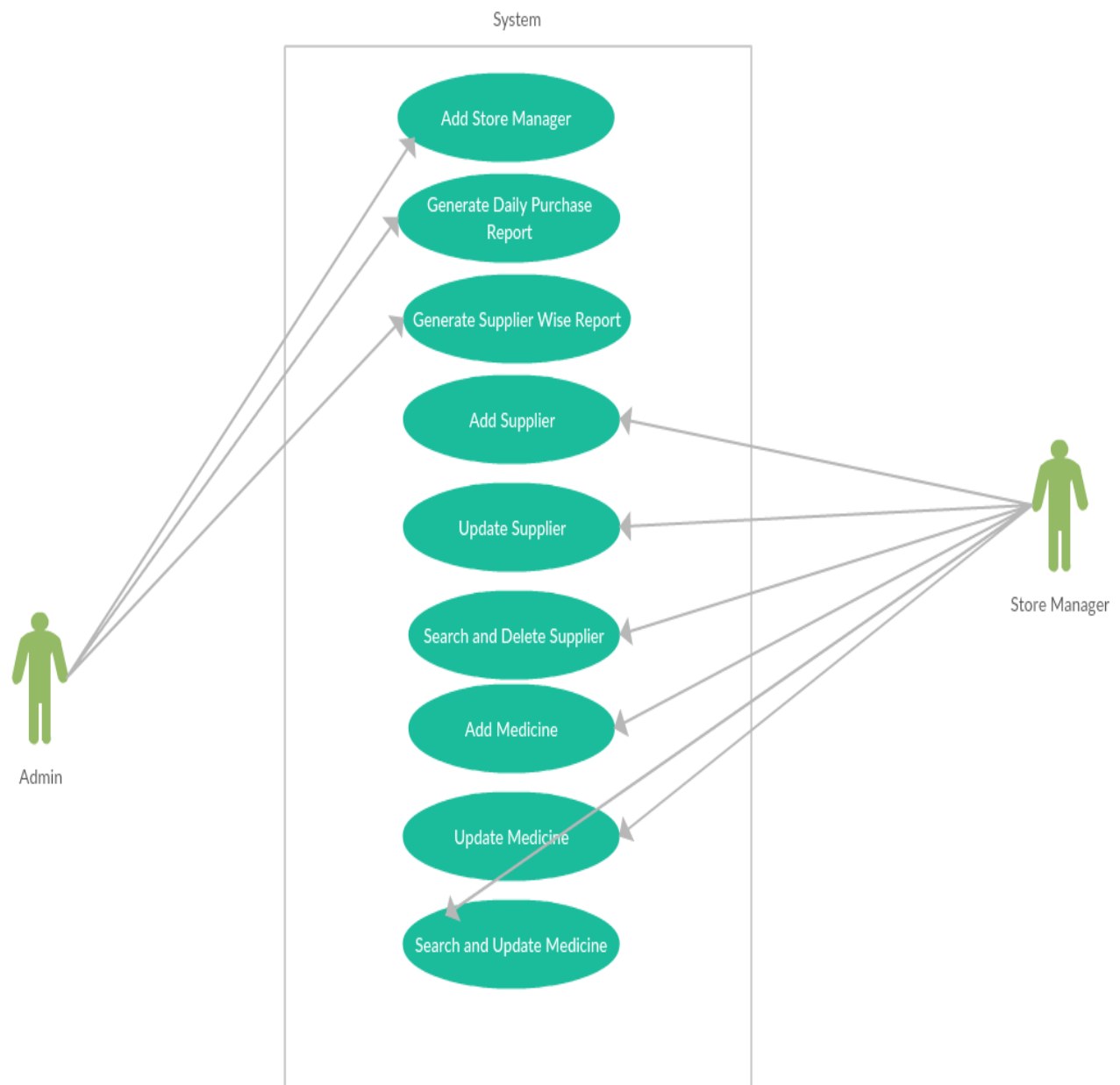
Talking about Vighnesh's contribution:

Vighnesh had developed the supplier module and by that means, Vighnesh did work on attributes of Supplier i.e. he added details about the supplier in which he added add a supplier, search for a supplier, update a supplier, delete an existing supplier and to view the list of previously added suppliers. Vighnesh also did work on the supplier wise medicine report in the admin login, where by selecting a date and a supplier, we would be able to generate (display) report on the medicines that were sold out by that specified supplier on that specified date. For this supplier wise medicine report, Vighnesh worked on the database where he created every tables related to supplier.

## ENTITY RELATION DIAGRAM:



## USE CASE DIAGRAM:

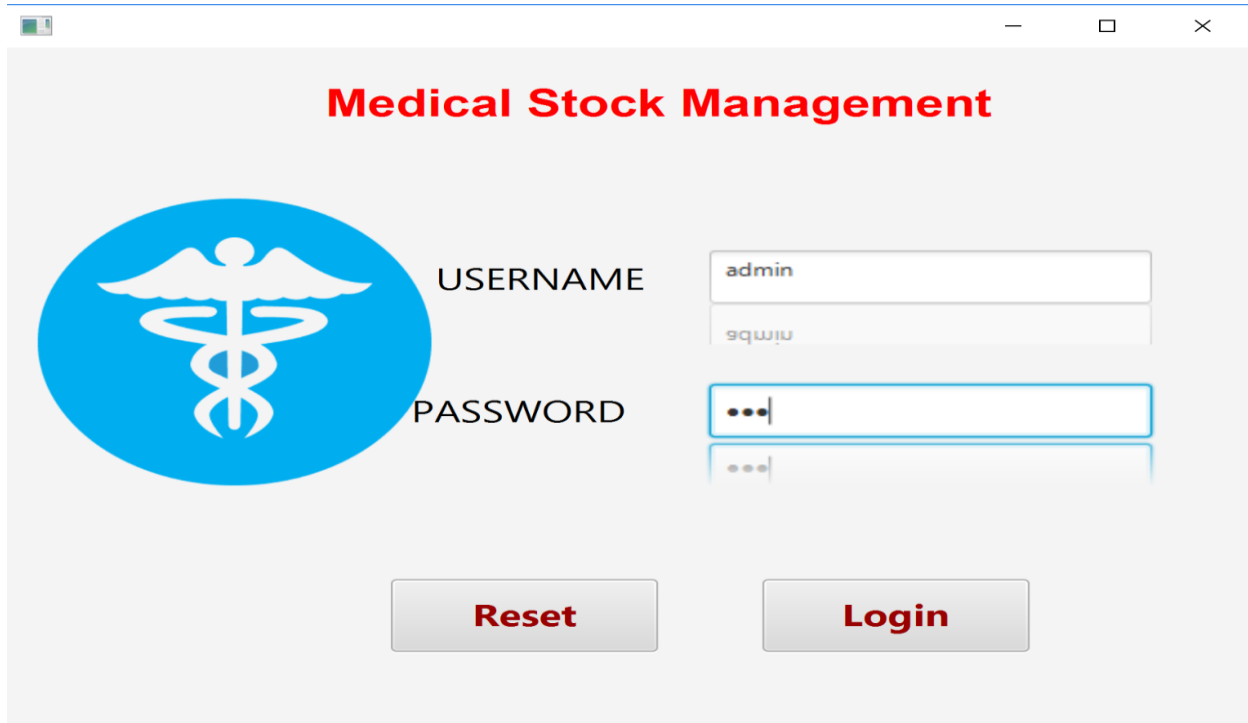


MEDICAL STOCK MANAGEMENT SYSTEM



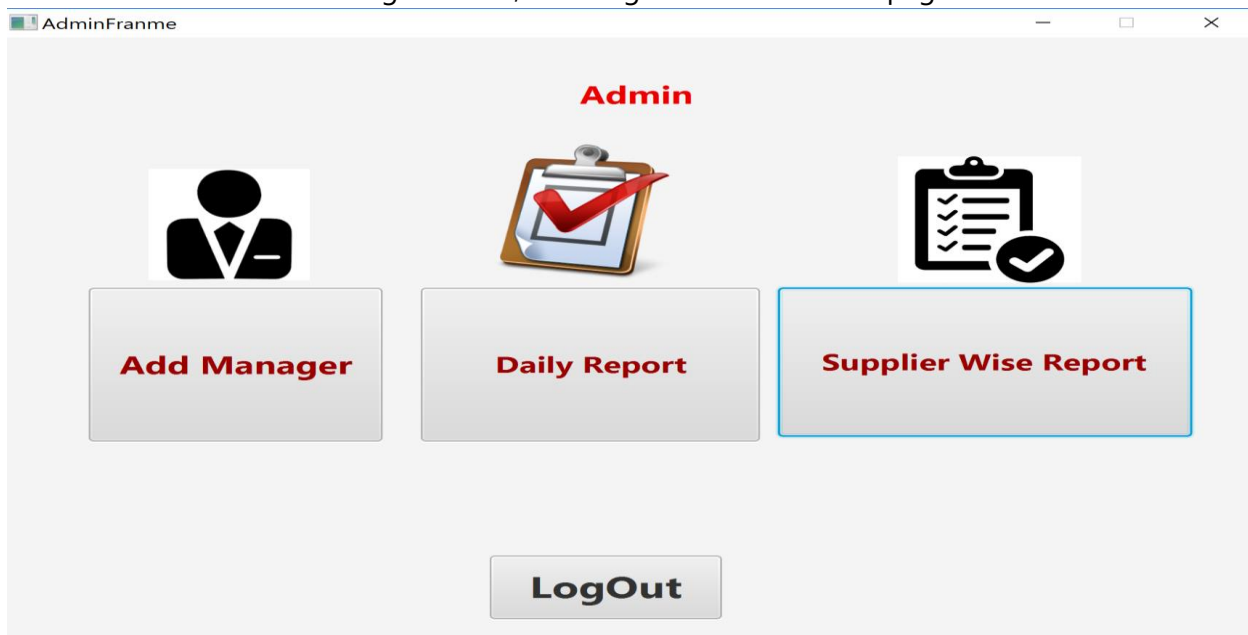
## Application Screenshots:

Login Page:



The screenshot shows a web application window titled "Medical Stock Management". On the left is a blue circular logo with a white caduceus. To the right of the logo are two input fields: "USERNAME" with the text "admin" and "PASSWORD" with masked characters. Below the input fields are two buttons: "Reset" and "Login".

As we have entered admin login details, we will get welcome admin page- The view for Admin.



The screenshot shows a web application window titled "Admin". At the top center is the word "Admin" in red. Below it are three buttons: "Add Manager" (with a person icon), "Daily Report" (with a clipboard icon), and "Supplier Wise Report" (with a clipboard icon). At the bottom center is a "LogOut" button.

Add Manager: (Prateek has been Successfully inserted into Database)

**Add Manager**

ManagerName: Prateek

Username: pdeshmukh

Password: .....

DateOfBirth: 9/24/1994

Message: Insert Successfully

Back Add

Added Manager:

(Successfully inserted into database)

				m_Id Auto_increment	m_Name	mUsername	m_Password	m_DOB
<input type="checkbox"/>	Edit	Copy	Delete	1	Viky	Vik	123	1991-08-21
<input type="checkbox"/>	Edit	Copy	Delete	2	Neha	Neh	123	1994-08-11
<input type="checkbox"/>	Edit	Copy	Delete	3	Parshant	shant	shant	1992-08-07
<input type="checkbox"/>	Edit	Copy	Delete	5	vighnesh	vsawant	vsawant	1994-11-17
<input type="checkbox"/>	Edit	Copy	Delete	6	Arihant	abothra	abothra	1996-12-29
<input type="checkbox"/>	Edit	Copy	Delete	7	Vishant	vbhole	vbhole	1995-04-16
<input type="checkbox"/>	Edit	Copy	Delete	8	Prateek	pdeshmukh	pdeshmukh	1994-09-24
<input type="checkbox"/> Check all With selected: Edit Copy Delete Export								

We will come back later to "Daily Purchase Report" and "Supplier Wise Report"

Now lets login with store manager Credentials.

Medical Stock Management

## Medical Stock Management



USERNAME

PASSWORD

## Store Manager View

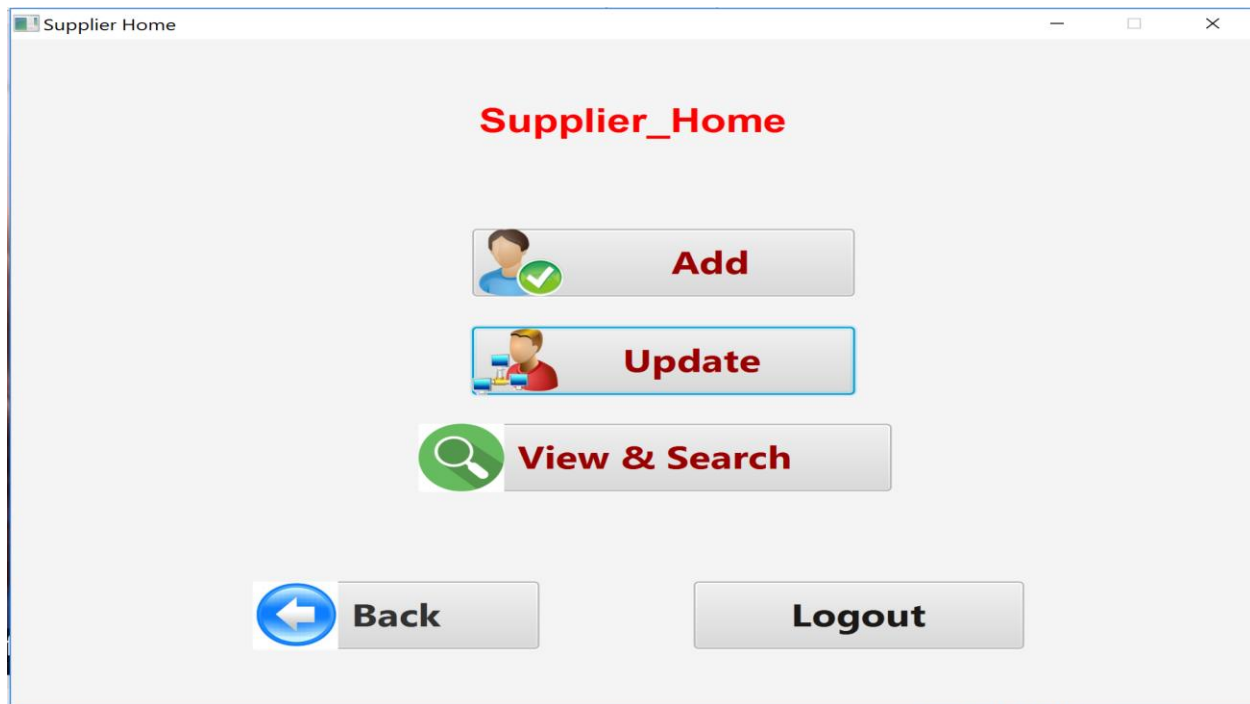
Store Manager Frame



## Store\_Manager\_Home



## Supplier View




Add Supplier:

The screenshot shows a window titled "AddSupplier". Inside the window, the text "ADD SUPPLIER" is displayed in red. On the left side, there are five input fields: "SupplierName:" with the value "Mary", "Address" with the value "NewYork", "Gender" with a dropdown menu showing "Female", "MobileNo" with the value "3128010789", and "Email" with the value "mary@gmail.com". On the right side, there is a large blue icon of a person wearing a headset, with the word "SUPPLIER" written below it. At the bottom of the window, there are three buttons: "Close", "Reset", and "Add Supplier" (with a green plus icon). A small "Message" dialog box is open in the center, displaying the message "Supplier has been added!" and an "OK" button.


Update Supplier View:

We can update using supplier name( drop down option available to select name)

Supplier Update Frame



## UPDATE SUPPLIER



SupplierName:

Address:

Gender:

MobileNo:

Email:

**Back** **Update**

Message

Update Successfully

OK

We can see Record is updated.

				id	sup_name	sup_add	geneder	sup_phone	sup_email	ManName
<input type="checkbox"/>	Edit	Copy	Delete	1	Ziyad	Kurla	Male	9619553315	ziyadbaig28@gamil.com	Viky
<input type="checkbox"/>	Edit	Copy	Delete	2	Niranjan	Soin	Male	1234567890	Nilu@gamil.com	Viky
<input type="checkbox"/>	Edit	Copy	Delete	3	pooja	Mumbra	Female	1234567890	pooja@gmail.com	Neha
<input type="checkbox"/>	Edit	Copy	Delete	4	Sawati	Bandra	Female	9881361699	Sawati@gmail.com	Neha
<input type="checkbox"/>	Edit	Copy	Delete	5	John	Chicago	Male	3128010839	john@gmail.com	Prateek
<input type="checkbox"/>	Edit	Copy	Delete	6	Mike	Tempe	Male	3128010840	mike@gmail.com	Prateek
<input type="checkbox"/>	Edit	Copy	Delete	7	Siddharth	India	Male	8087473903	sid@gmail.com	Prateek
<input type="checkbox"/>	Edit	Copy	Delete	8	Roman	Ohio	Male	3128010845	roman@gmail.com	Prateek
<input type="checkbox"/>	Edit	Copy	Delete	9	Mary	NewYork	Female	3128010789	mary@gmail.com	Prateek

View & Search :

SupplierList

Search By Name:

Id	Name	Address	Gender	MobileNo	Email
8	Roman	Ohio	Male	3128010845	roman@gmail.com

Enter Id:

**Delete**

**Back**

Delete:

SupplierList

Search By Name:

Id	Name	Address	Gender	MobileNo	Email
1	Ziyad	Kurla	Male	9619553315	ziyadbaig28@ga...
2	Niranjan	Soin	Male	1234567890	Nilu@gamil.com
3	pooja	Mumbra	Female	1234567890	pooja@gmail.com
4	Sawati	Bandra	Female	9881361699	Sawati@gmail.com
5	John	Chicago	Male	3128010839	john@gmail.com
6	Mike	Tempe	Male	3128010840	mike@gmail.com
7	Siddharth	India	Male	8087473903	sid@gmail.com
8	Roman	Ohio	Male	3128010845	roman@gmail.com
9	Mary	NewYork	Female	3128010789	mary@gmail.com

Enter Id:  **Delete**

Message    
 SupplierUser is Deleted

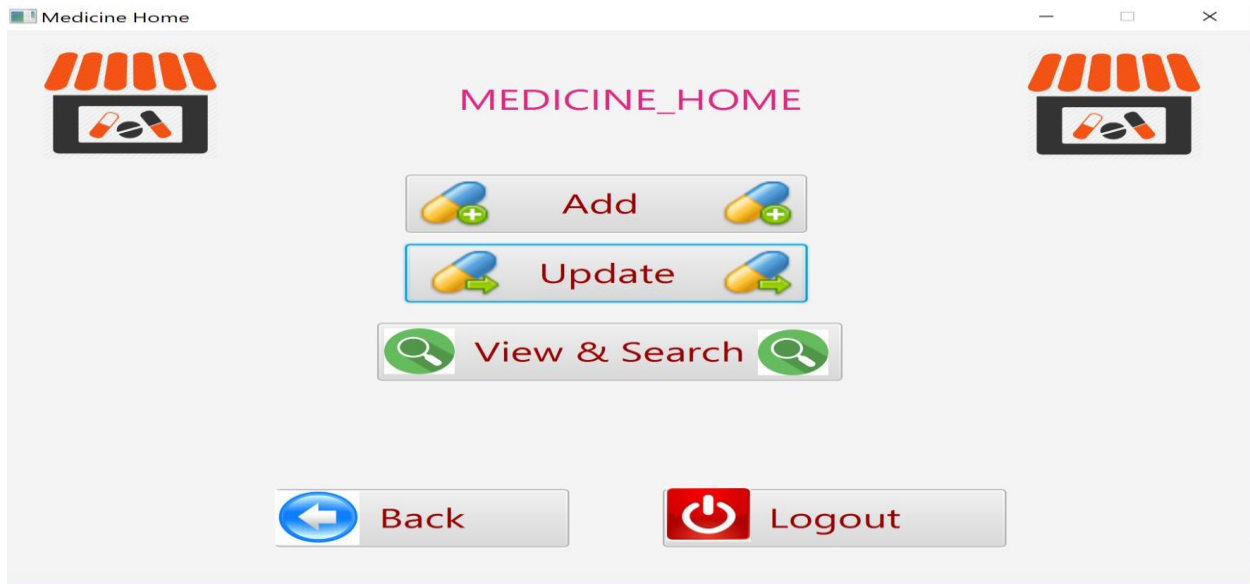
**Back**

As we can see Supplier Pooja has been deleted.

	id	sup_name	sup_add	geneder	sup_phone	sup_email	ManName
<input type="checkbox"/> Edit Copy Delete	1	Ziyad	Kurla	Male	9619553315	ziyadbaig28@gamil.com	Viky
<input type="checkbox"/> Edit Copy Delete	2	Niranjan	Soin	Male	1234567890	Nilu@gamil.com	Viky
<input type="checkbox"/> Edit Copy Delete	4	Sawati	Bandra	Female	9881361699	Sawati@gmail.com	Neha
<input type="checkbox"/> Edit Copy Delete	5	John	Chicago	Male	3128010839	john@gmail.com	Prateek
<input type="checkbox"/> Edit Copy Delete	6	Mike	Tempe	Male	3128010840	mike@gmail.com	Prateek
<input type="checkbox"/> Edit Copy Delete	7	Siddharth	India	Male	8087473903	sid@gmail.com	Prateek
<input type="checkbox"/> Edit Copy Delete	8	Roman	Ohio	Male	3128010845	roman@gmail.com	Prateek
<input type="checkbox"/> Edit Copy Delete	9	Mary	NewYork	Female	3128010789	mary@gmail.com	Prateek

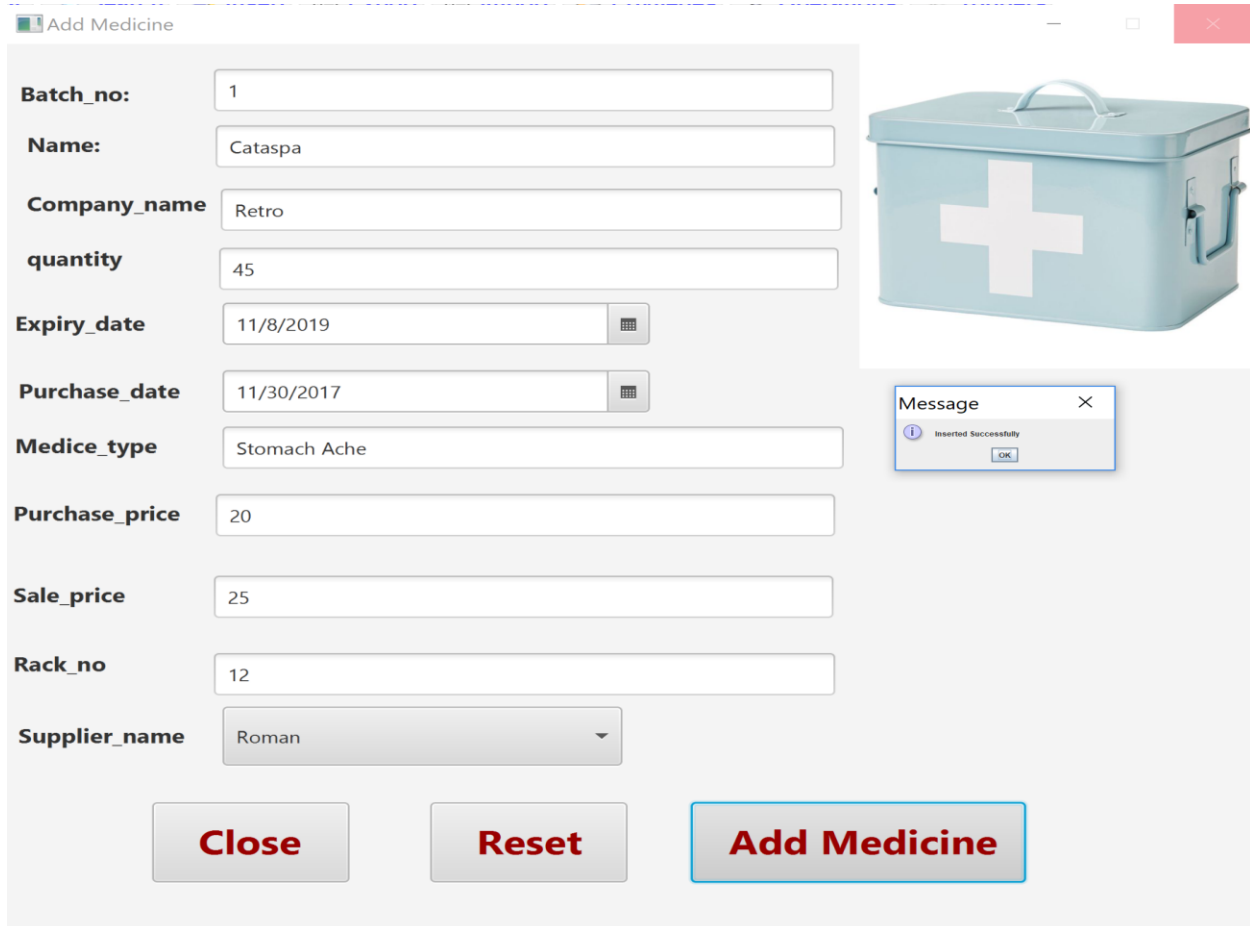
☐ Check all With selected:

## Medicine Home:



The Medicine Home window features a light gray background with a central title 'MEDICINE\_HOME' in pink. It includes three main action buttons: 'Add' (with a pill icon), 'Update' (with a pill icon and a green arrow), and 'View & Search' (with a magnifying glass icon). At the bottom, there are 'Back' and 'Logout' buttons. The window is flanked by two identical icons of a pharmacy storefront with an orange awning and a pill icon.

## Add Medicine



The Add Medicine window contains a form with the following fields: Batch\_no (1), Name (Cataspa), Company\_name (Retro), quantity (45), Expiry\_date (11/8/2019), Purchase\_date (11/30/2017), Medice\_type (Stomach Ache), Purchase\_price (20), Sale\_price (25), Rack\_no (12), and Supplier\_name (Roman). To the right of the form is an image of a blue first aid kit with a white cross. Below the form are three buttons: 'Close', 'Reset', and 'Add Medicine'. A 'Message' dialog box is open, displaying 'Inserted Successfully' with an 'OK' button.



Added into database

	id	batch_no	name	company_name	quantity	expiry_date	purchase_date	medice_type	purchase_price	sale_price	rack_no	supplier_name
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	21	Crocin	Nuetch	45	2018-12-07	2017-12-27	Fever	5	10	2	Ziyad
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	99	Veuriset	Nutech	25	2019-12-17	2017-12-27	Vomiting	50	60	3	Niranjana
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	12	Laveta	nutech	500	2020-12-18	2017-12-05	Allergy	52	15	10	Sawati
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	101	Combiflame	Retro	5	2018-11-30	2017-11-30	Fever	5	8	21	Ziyad
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	1	Cataspa	Retro	45	2019-11-08	2017-11-30	Stomach Ache	20	25	12	Roman

Check all With selected: Edit Copy Delete Export

We can Update Medicine By Medicine Name( We can select Name by Drop Down Option)

Update Medicine

Name: Ridol

Batch\_no: 7

Company\_name: Retro

quantity: 23

Expiry\_date: 2020-11-20

Purchase\_date: 2017-11-30

Medice\_type: Tablet

Purchase\_price: 10

Sale\_price: 25

Rack\_no: 54

Supplier\_name: Roman

Close

Reset

Update

Emergency Medicine Updates

Search Medicine:

We can search by Medicine Name

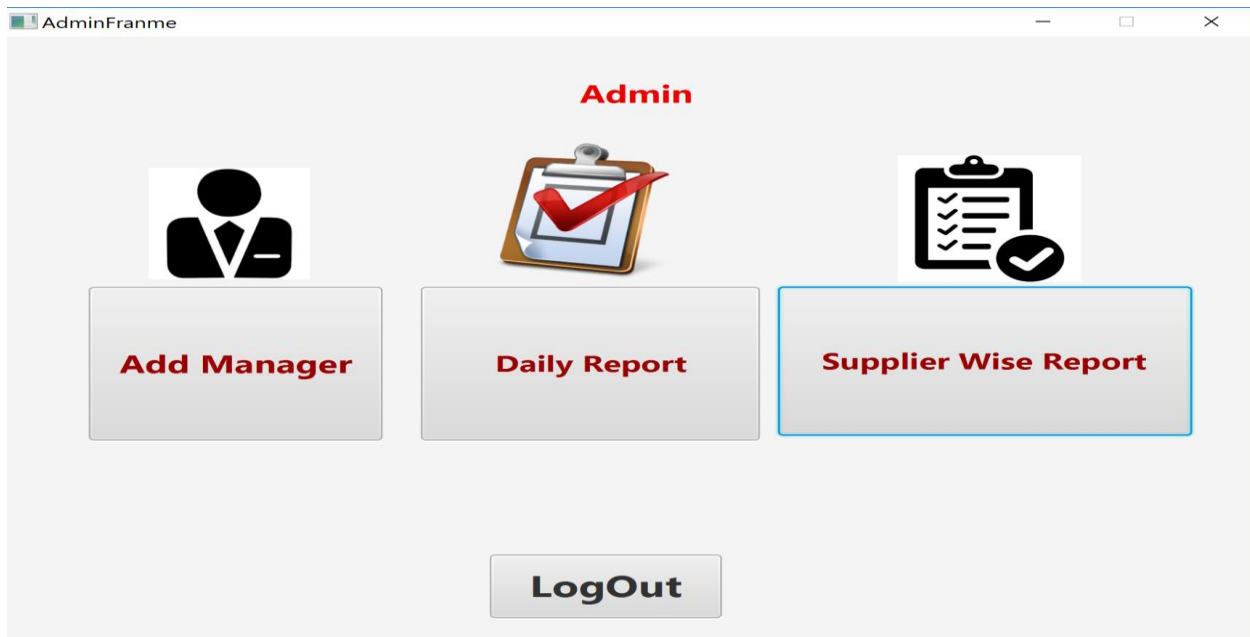
[illegible]

Delete Medicine:

We can delete Medicine By Id.

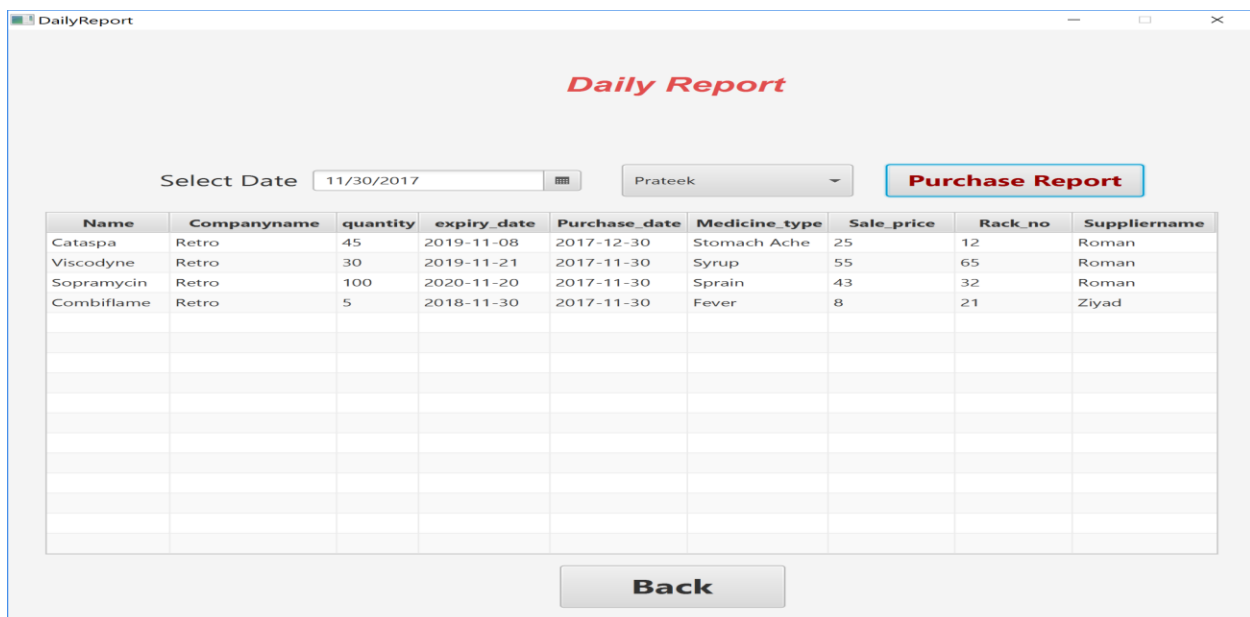
[illegible]

Again Login into admin to generate report



Daily Purchase Report:

We can generate daily report by selecting a date and a particular store manager.



## Supplier Wise Report:

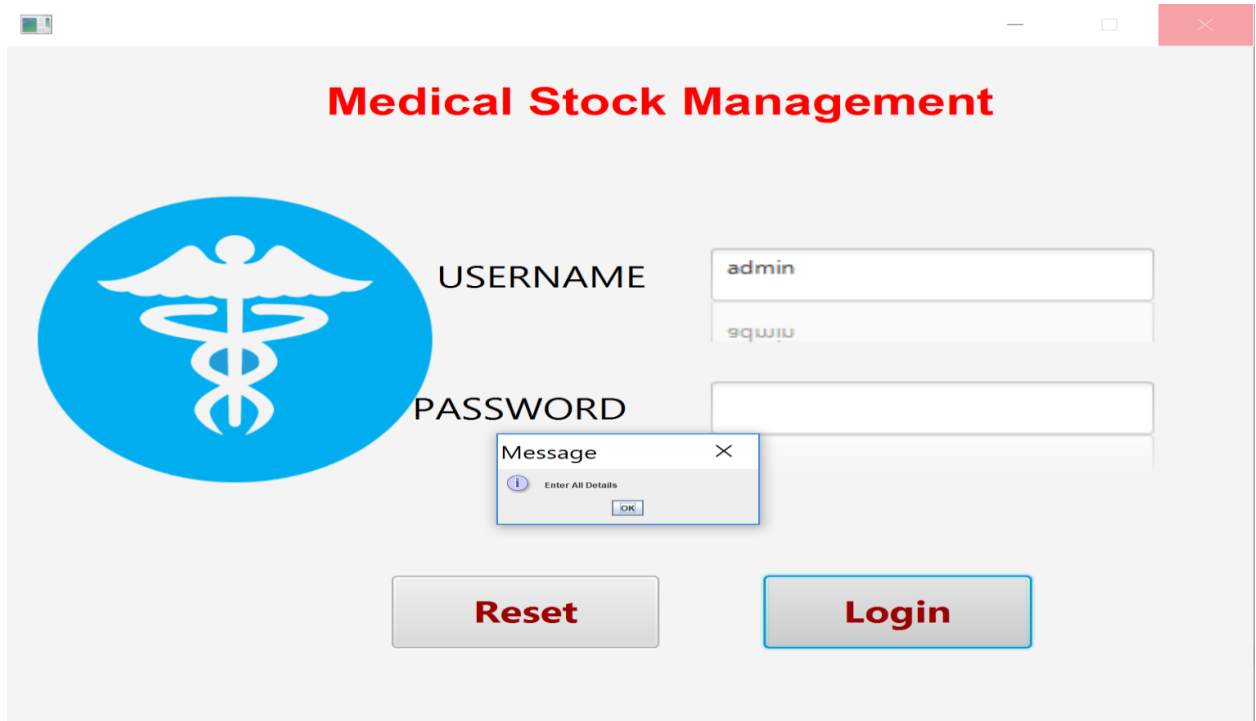
We can generate supplier report by selecting a date and a particular supplier.

The screenshot shows a web application window titled "SupplierReport". It features a "Select Date" label, a date input field containing "11/30/2017", and a dropdown menu currently showing "Roman". To the right of these is a red button labeled "SupplierReport". Below these controls is a table with 8 columns: Id, Name, Address, Gender, MobileNo, Email, Medicine Name, and Purchaseprice. The table contains two rows of data for the supplier "Roman" and is followed by several empty rows. A "Back" button is located at the bottom center of the window.

Id	Name	Address	Gender	MobileNo	Email	Medicine Name	Purchaseprice
8	Roman	Ohio	Male	3128010845	roman@gmail...	Viscodyne	50
8	Roman	Ohio	Male	3128010845	roman@gmail...	Sopramycin	34

## Possible Validation Cases:

- 1) Should enter all the details



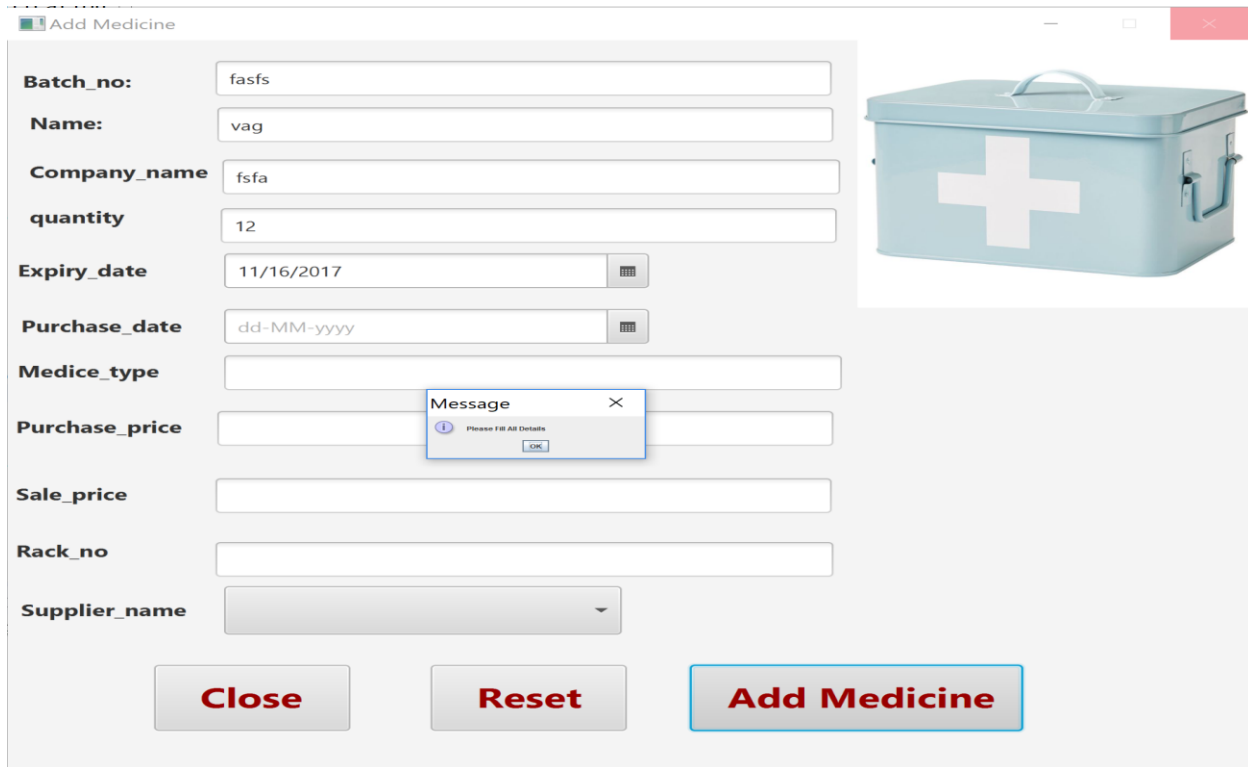
The screenshot shows the 'Medical Stock Management' login interface. It features a blue circular logo with a white caduceus symbol on the left. To the right of the logo are two input fields: 'USERNAME' and 'PASSWORD'. The 'USERNAME' field contains the text 'admin'. Below the 'PASSWORD' field is a 'Message' dialog box with the text 'Enter All Details' and an 'OK' button. At the bottom of the form are two buttons: 'Reset' and 'Login'.

- 2) Invalid Login Credentials



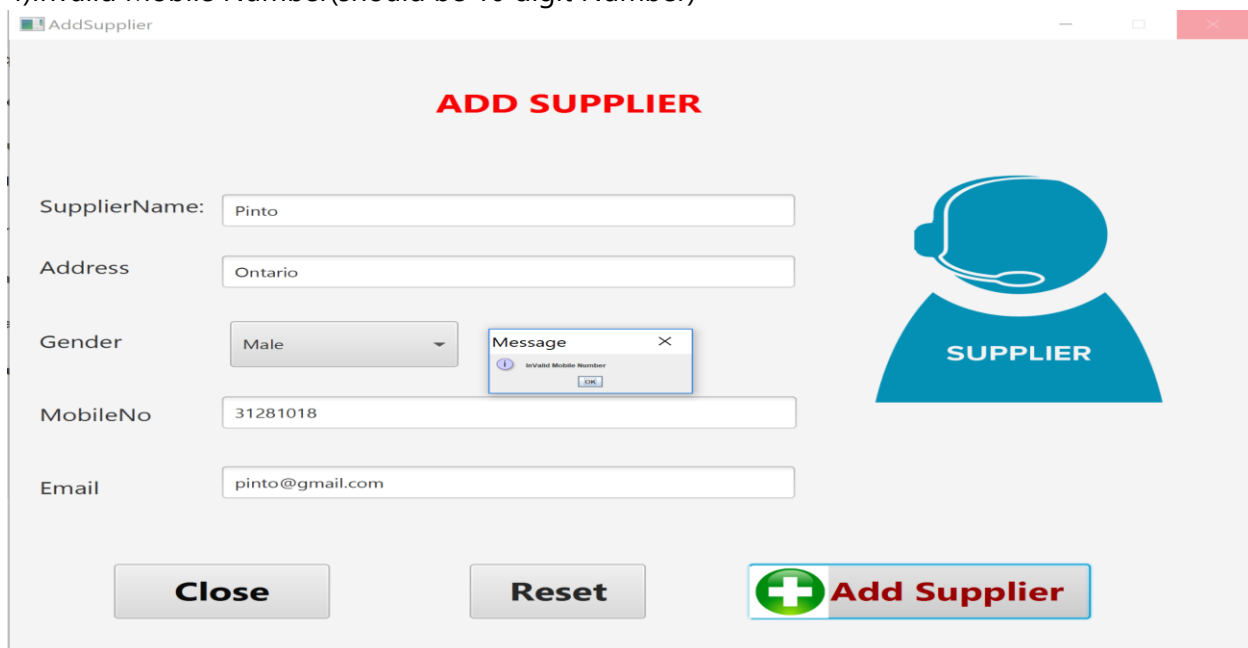
The screenshot shows the 'Medical Stock Management' login interface. It features a blue circular logo with a white caduceus symbol on the left. To the right of the logo are two input fields: 'USERNAME' and 'PASSWORD'. The 'USERNAME' field contains the text 'admin'. The 'PASSWORD' field contains a series of dots. Below the 'PASSWORD' field is a 'Message' dialog box with the text 'Invalid Username and Password' and an 'OK' button. At the bottom of the form are two buttons: 'Reset' and 'Login'.

3) Complete all details( Similarly Done for all forms)



The screenshot shows a web application window titled "Add Medicine". It contains several input fields: "Batch\_no:" (value: fasfs), "Name:" (value: vag), "Company\_name" (value: fsfa), "quantity" (value: 12), "Expiry\_date" (value: 11/16/2017), "Purchase\_date" (value: dd-MM-yyyy), "Medice\_type", "Purchase\_price", "Sale\_price", "Rack\_no", and "Supplier\_name" (a dropdown menu). To the right of the form is an image of a blue first aid kit with a white cross. At the bottom are three buttons: "Close", "Reset", and "Add Medicine". A small "Message" dialog box is open in the center, displaying the text "Please Fill All Details" and an "OK" button.

4)Invalid Mobile Number(should be 10 digit Number)



The screenshot shows a web application window titled "AddSupplier". It features a red heading "ADD SUPPLIER" at the top. Below it are input fields for "SupplierName:" (value: Pinto), "Address" (value: Ontario), "Gender" (a dropdown menu with "Male" selected), "MobileNo" (value: 31281018), and "Email" (value: pinto@gmail.com). To the right is an icon of a person wearing a headset with the word "SUPPLIER" below it. At the bottom are three buttons: "Close", "Reset", and "Add Supplier" (which has a green plus icon). A "Message" dialog box is open, showing the error "Invalid Mobile Number" and an "OK" button.

5) Invalid Email (should Contain:- '@' an '(dot)'):

AddSupplier

**ADD SUPPLIER**

SupplierName:

Address:

Gender:

MobileNo:

Email:

**SUPPLIER**

Message  
Invalid Email  
OK

6) To add Medicine We need to select Supplier name, and that supplier should be present in the database

Add Medicine

Batch\_no:

Name:

Company\_name:

quantity:

Expiry\_date:

Purchase\_date:

Medice\_type:

Purchase\_price:

Sale\_price:

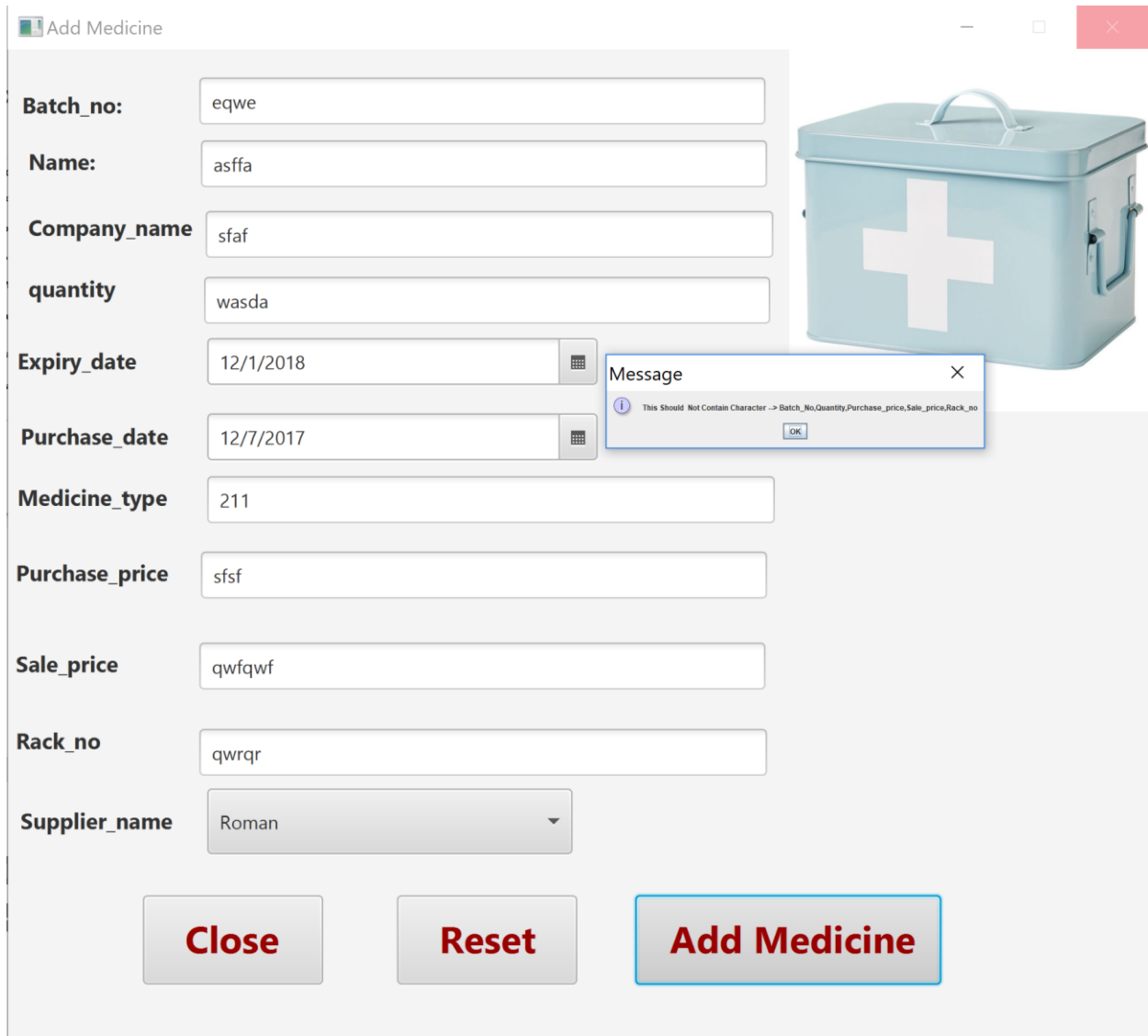
Rack\_no:

Supplier\_name:

Ziyad  
Niranjan  
Sawati  
John  
Mike  
Siddharth

**+**

7) Should not contain character in Batch\_no, Quantity, Purchase\_price, Sale\_price, Rack\_no (Similarly done for all other forms)



The screenshot shows a web application window titled "Add Medicine". The form contains the following fields and values:

- Batch\_no: eqwe
- Name: asffa
- Company\_name: sfaf
- quantity: wasda
- Expiry\_date: 12/1/2018
- Purchase\_date: 12/7/2017
- Medicine\_type: 211
- Purchase\_price: sfsf
- Sale\_price: qwfqwf
- Rack\_no: qwrqr
- Supplier\_name: Roman (dropdown menu)

At the bottom of the form are three buttons: "Close", "Reset", and "Add Medicine". A blue medical box with a white cross is visible in the background. A "Message" dialog box is displayed over the form, stating: "This Should Not Contain Character -> Batch\_No,Quantity,Purchase\_price,Sale\_price,Rack\_no". The dialog box has an "OK" button.