



SAGAR

MEDICAL AND GENERAL STORES



SDBI

School of
Data Science &
Business Intelligence

Pharmaceutical Medical System. VBA (Case Study)

Roll Numbers: 23, 12, 16, 06

Names: Vineet Poojary, Sumedh Kute, Ankit Pandey, Mohammed Choudhary.

This VBA case study dives into problems faced by local medical shops in terms of them not being able to sell store data they receive efficiently and use that data to their use and storing of such data in time efficient manner. Our team which consisted of 4 people, Vineet Poojary, Ankit Pandey, Mohammed Choudhary and Sumedh Kute made visits to both local medical shops and big pharma medicals as well like Wellness. Visits to local medicals were made to understand the problems and for this matter Sagar Medicals were our main source to get this information. Visit to Wellness was made to check if the problems faced by Sagar Medicals persisted in Wellness or were they resolved. Problems that were identified by our team were as follows and these are the problems our projects try to solve and provide a solution to.

- 1) Saving customer data which was being done in an inefficient way, so as to speed up the delivery and ordering process of medicines.
- 2) Inventory Management were also done in a very ineffective way wasting a lot of time of the business.
- 3) Creating invoices.
- 4) Having information stored regarding people working under the business owner or employees.

Firstly, we created a very simple and minimalistic dashboard in order to navigate through various userforms we had created for the business lets look how it looks. It has 3 buttons in order to access userforms the person working with can access and 1 exit button.



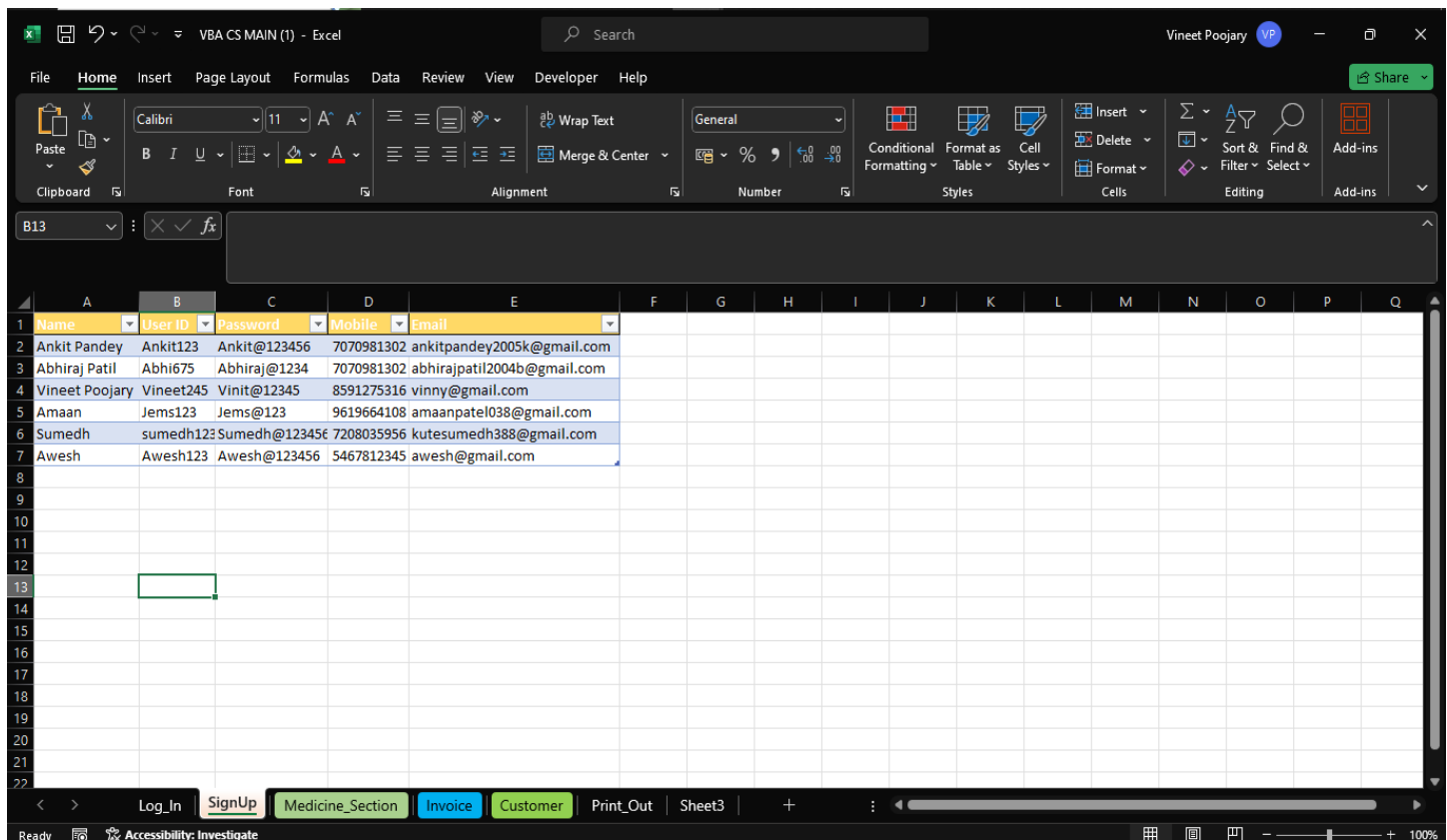
Sign Up (Employee)

One before accessing the main hub which is the dashboard will have to sign up in to the system so that his data is first entered which is the employee. For signing up one has provision of a button on the log in sheet on the system which lets the employee to access the sign up userform through the log in userform after which his data can be stored.

How does this help:

- 1) Storing employee data.
- 2) Keeping tab on who all work in the shop.
- 3) Storing employee data becomes important in terms of whether problem arises regarding a particular employee.

Let's check out the sheet which saves the signed up people's information.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Name	User ID	Password	Mobile	Email												
2	Ankit Pandey	Ankit123	Ankit@123456	7070981302	ankitpandey2005k@gmail.com												
3	Abhiraj Patil	Abhi675	Abhiraj@1234	7070981302	abhirajpatil2004b@gmail.com												
4	Vineet Poojary	Vineet245	Vinit@12345	8591275316	vinny@gmail.com												
5	Amaan	Jems123	Jems@123	9619664108	amaanpatel038@gmail.com												
6	Sumedh	sumedh123	Sumedh@123456	7208035956	kutesumedh388@gmail.com												
7	Awesh	Awesh123	Awesh@123456	5467812345	awesh@gmail.com												
8																	
9																	
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14																	
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16																	
17																	
18																	
19																	
20																	
21																	
22																	

Sign Up Form



Sign Up Here!

Name

Create User ID

Create Password

Mobile

Email

Register Now

Already Sign Up?

Sign In

Cancel

Add New User

We have created provision for picking up name and userid and password of the employee and some of his personal details like mobile number and email and then this data is stored after clicking on register now. Add new user button helps clear the filled details.

What if the person has already signed up, then he can go to sign in option or log in, lets check provision of log in or sign in in the next page.

Sign In (Employee)

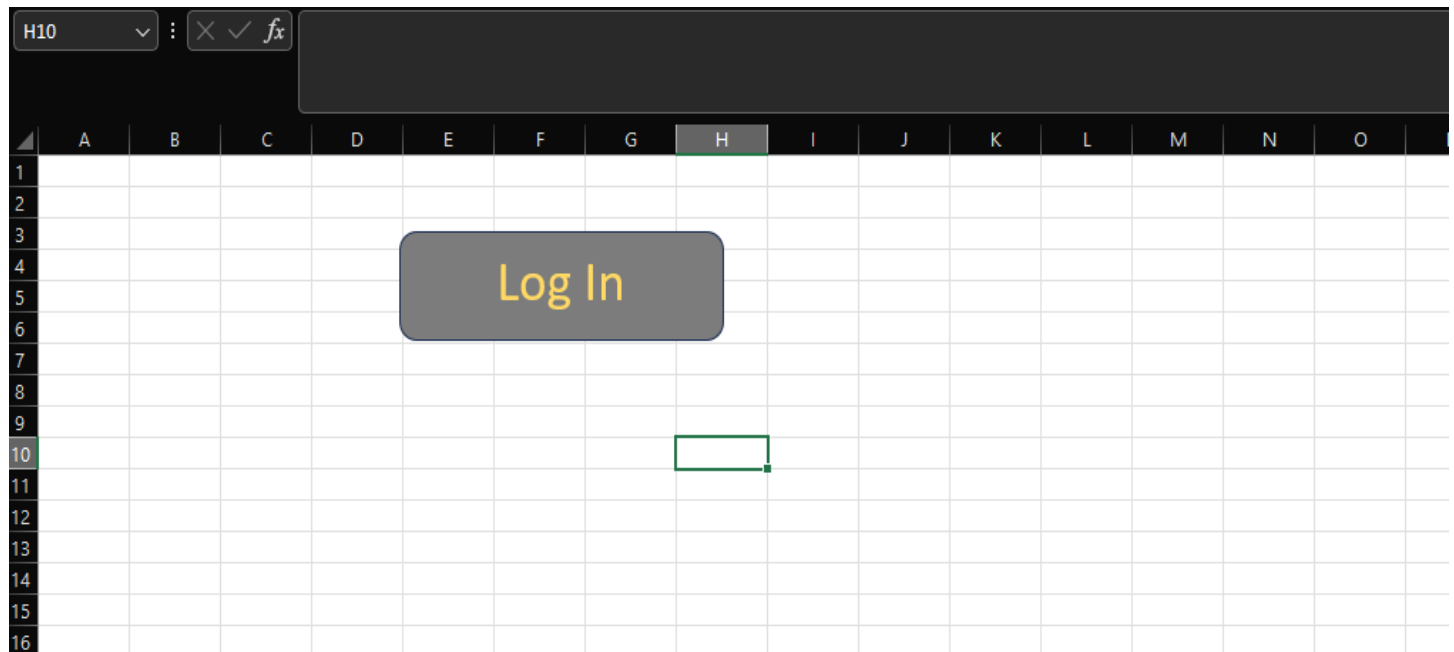
One will have to sign in to the system or log in in order to get access to all process within the system.

How does this help:

- 1) This helps in data validation.
- 2) Without log in person won't have access to other forms creating a secure system.

Let's check out the sheet which provides the log in button and the log in userform.

Note that the person in order to sign up will click on log in button and for log in as well he log in button will be used as in the log in form there is a button to get access to sign up form so only one button for the same so there is not much confusion.



Log In Form

✕



User ID

Password

New User?

[Sign Up](#)[Log In](#)[Exit](#)

Now the log in form has the provision which all log in forms in general has that is user id and password. This gets checked in the sign-up sheet and if the data matches with one of the entries in the sign-up sheet, then the person would get access of the system.

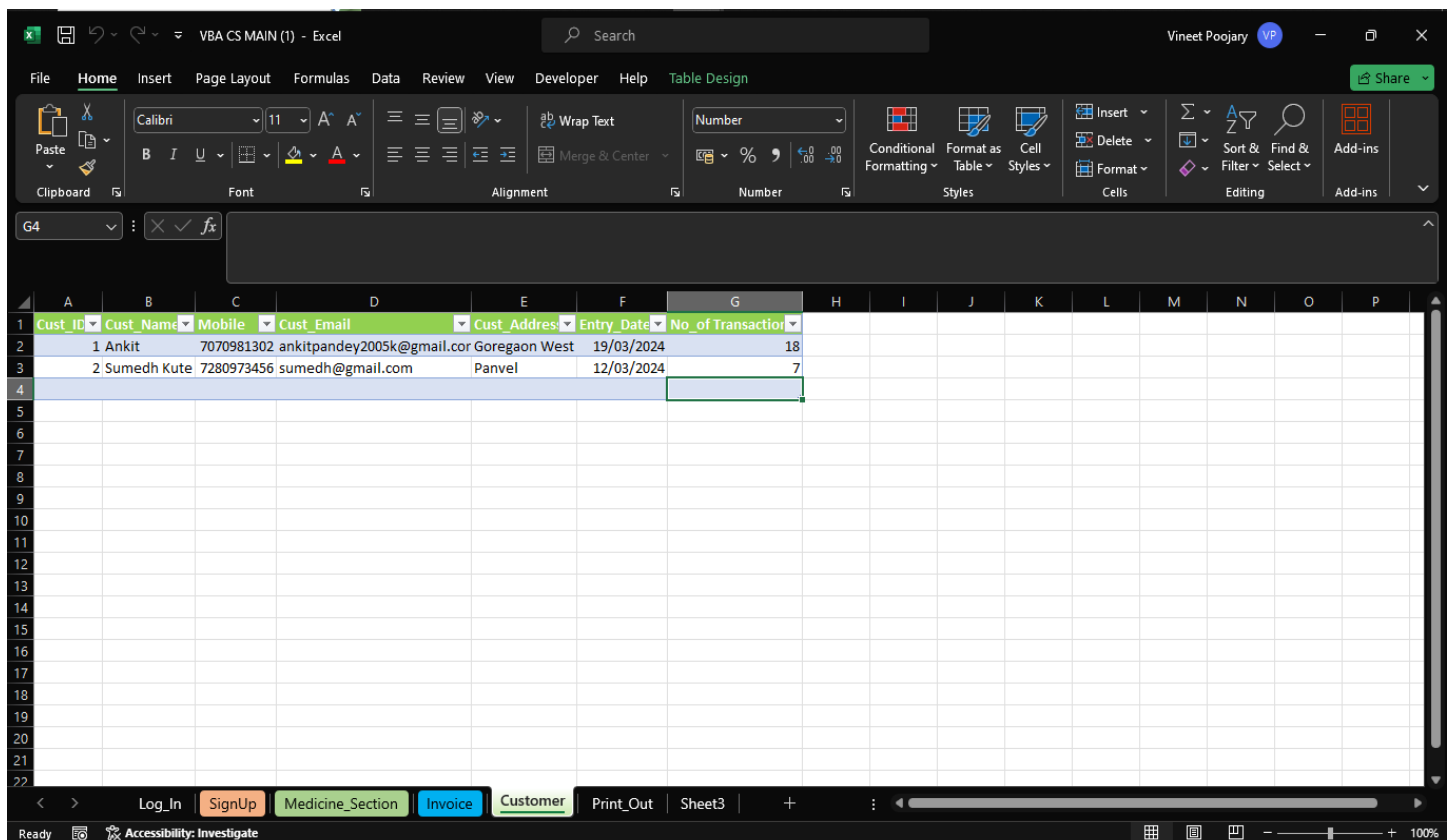
Customer Data Storage

Further set up has been made in regards to saving data of customer which is an essential part of the system. This is done with the help of customer userform. Customer data is taken in the form then stored in the customer sheet.

How does this help:

- 1) Taking customer data like ID helps speed the process of, if the customer orders the next time and has to order same medicines as before he won't have to repeat the names of all medicines or provide any prescription or so.
- 2) This also will speed up the process of taking the order by not noting the address again which would already be there in our customer sheet.

Let's check out the sheet which stores customer data and also the userform for the same.



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Cust_ID	Cust_Name	Mobile	Cust_Email	Cust_Address	Entry_Date	No_of Transaction									
2	1	Ankit	7070981302	ankitpandey2005k@gmail.com	Goregaon West	19/03/2024	18									
3	2	Sumedh Kute	7280973456	sumedh@gmail.com	Panvel	12/03/2024	7									
4																
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Customer Section

Search Customer



Dashboard

Billing Section

Customer Area

Medicine Section

Customer_id 00003

C_Email

Add new Customer

Customer Name

C_Address

Save

Delete

C_Mobile

Entry_Date

Exit

Customer_id is automatically generated which would uniquely identify the customer, other personal details like address is taken of the customer and other option like add new customer and save option are provided as well. Information of a customer can be pulled with the help of search customer option. Also other userforms can be accessed from top right within this userform. Also, there is a number of transaction column which can be used to provide various perks on the basis of how much the customer is loyal to the medicine in terms of how much number of transactions has been made.

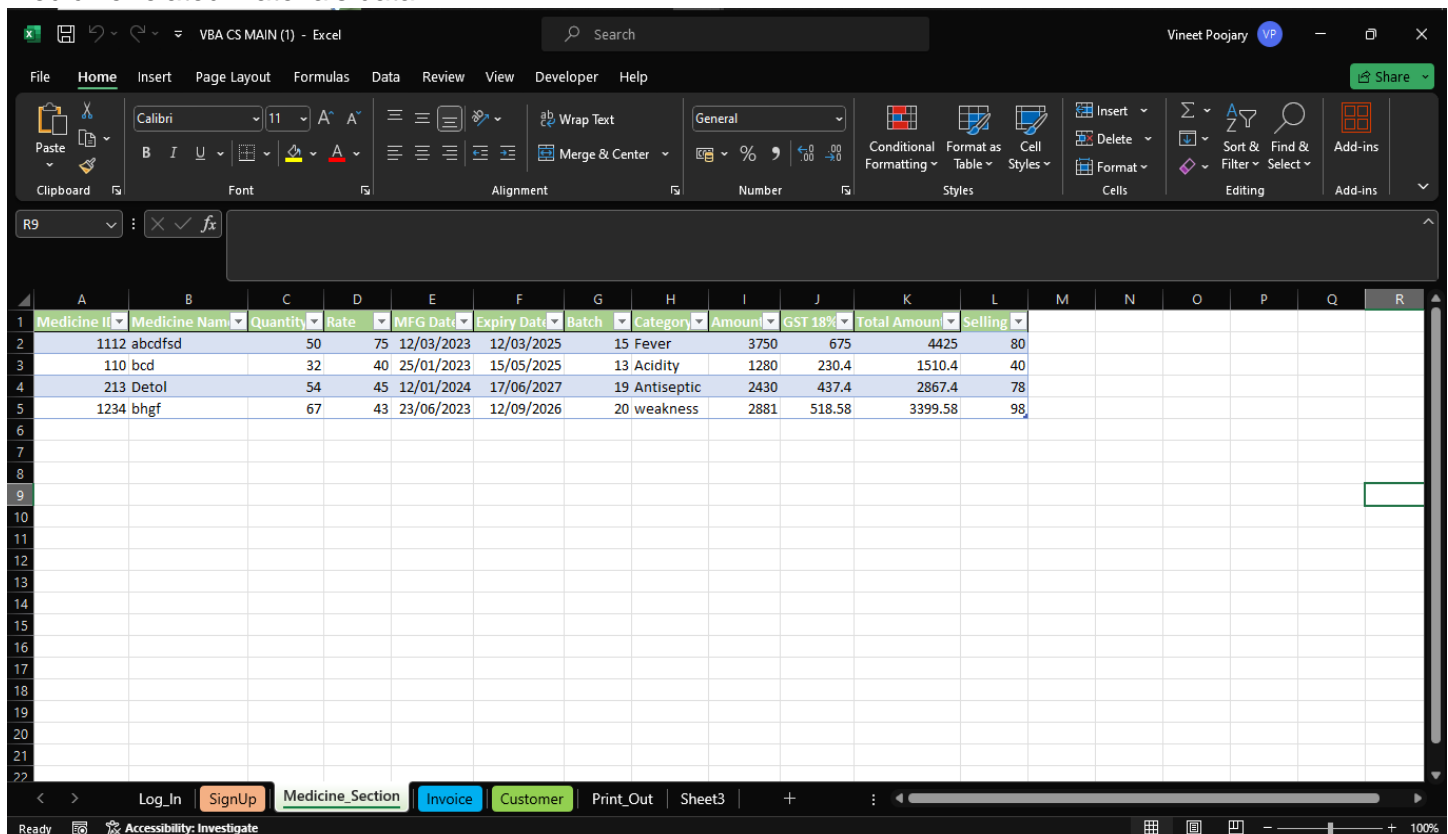
Medicine Data Storage

Now this section would take information regarding the medicines the business has in its inventory. This would help facilitate the storage of information of the medicines the business has in its stock so that the business could take up orders accordingly.

How does this help:

- 1) This helps in keeping the track of the medicines inventory of the business in a simpler manner which also is time efficient.
- 2) Would help in taking up orders accordingly.
- 3) Keeps track of the cost and selling price of that particular medicine as well.

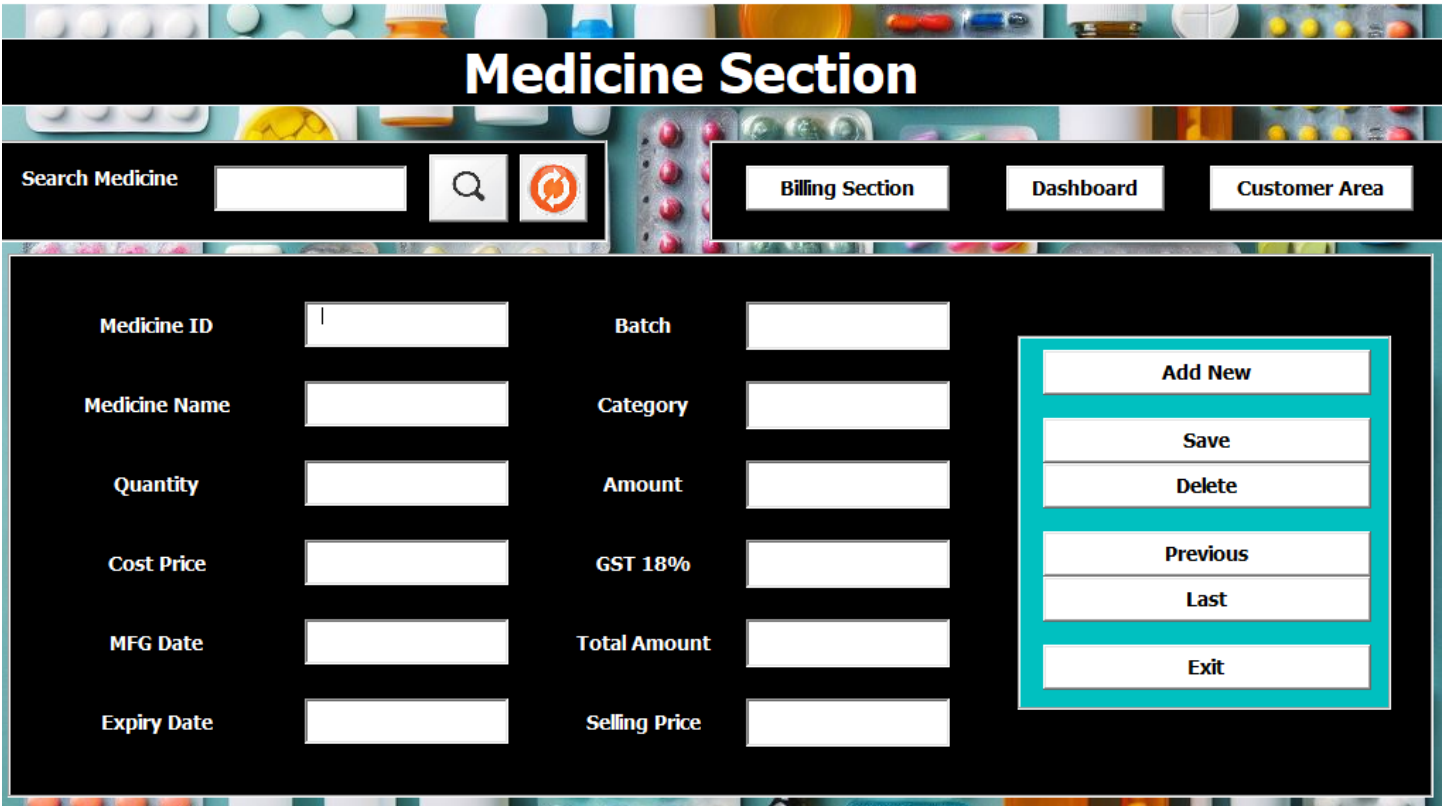
Let's check out the medicine section that is the form and the sheet which saves all medicines data and medicine related materials data.



Medicine ID	Medicine Name	Quantity	Rate	MFG Date	Expiry Date	Batch	Category	Amount	GST 18%	Total Amount	Selling
1112 abcd	1112 abcd	50	75	12/03/2023	12/03/2025	15 Fever		3750	675	4425	80
110 bcd	110 bcd	32	40	25/01/2023	15/05/2025	13 Acidity		1280	230.4	1510.4	40
213 Detol	213 Detol	54	45	12/01/2024	17/06/2027	19 Antiseptic		2430	437.4	2867.4	78
1234 bhgf	1234 bhgf	67	43	23/06/2023	12/09/2026	20 weakness		2881	518.58	3399.58	98

Medicine Form

X



Medicine Section

Search Medicine

Medicine ID	<input type="text"/>	Batch	<input type="text"/>	<div style="border: 2px solid red; padding: 5px;"> <input type="button" value="Add New"/> <input type="button" value="Save"/> <input type="button" value="Delete"/> <input type="button" value="Previous"/> <input type="button" value="Last"/> <input type="button" value="Exit"/> </div>
Medicine Name	<input type="text"/>	Category	<input type="text"/>	
Quantity	<input type="text"/>	Amount	<input type="text"/>	
Cost Price	<input type="text"/>	GST 18%	<input type="text"/>	
MFG Date	<input type="text"/>	Total Amount	<input type="text"/>	
Expiry Date	<input type="text"/>	Selling Price	<input type="text"/>	

Ample of data is being taken with regards to medicines inventory, data regarding to the cost, selling price, gst and various such data revolving around the medicine is taken up.

Here as well add new save and delete options are taken up to facilitate this form in a smoother way.

Also information of medicines can be searched by using the search medicine option which facilitates searching of a desired medicine.

All sort of information of a particular medicine can be pulled up like how much quantity is left, batch number it arrived in and so on with the help of search medicine option.

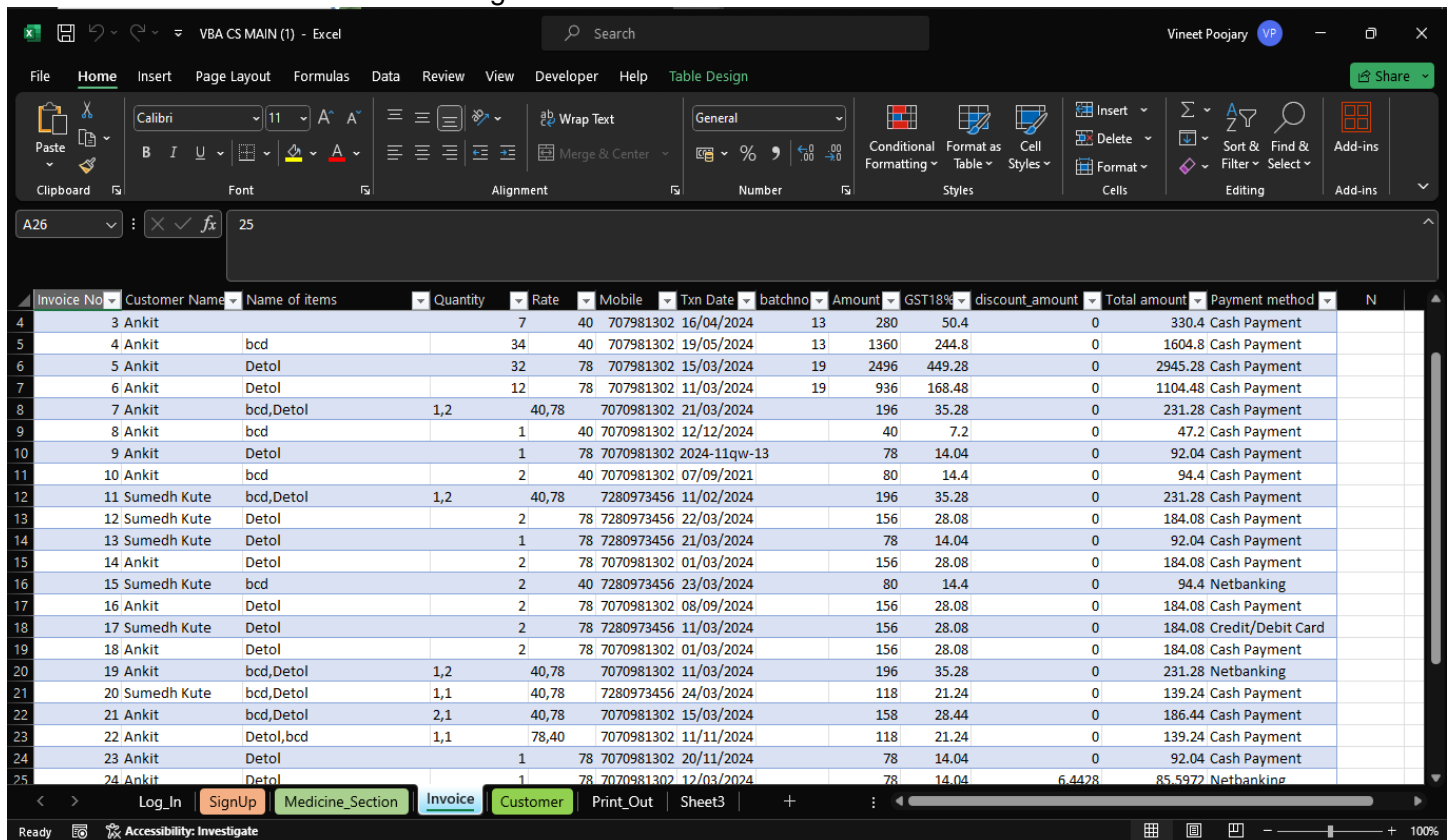
Invoice Section

Now this section would take information on the bill and store it in the sheet also there are other provisions we have taken care of here.

What problem does this solve

- 1) Invoice sheet helps the business keep track of the goods sold.
- 2) Keeping tab of the orders one gets within the day.
- 3) Generate a well-made bill.

Let's find out what all sheets are being used in the invoice section and the userforms.



Invoice No	Customer Name	Name of items	Quantity	Rate	Mobile	Txn Date	batchno	Amount	GST18%	discount_amount	Total amount	Payment method	N
4	3 Ankit			7	40	707981302	16/04/2024	13	280	50.4	0	330.4 Cash Payment	
5	4 Ankit	bcd		34	40	707981302	19/05/2024	13	1360	244.8	0	1604.8 Cash Payment	
6	5 Ankit	Detol		32	78	707981302	15/03/2024	19	2496	449.28	0	2945.28 Cash Payment	
7	6 Ankit	Detol		12	78	707981302	11/03/2024	19	936	168.48	0	1104.48 Cash Payment	
8	7 Ankit	bcd,Detol	1,2	40,78		707981302	21/03/2024		196	35.28	0	231.28 Cash Payment	
9	8 Ankit	bcd		1	40	707981302	12/12/2024		40	7.2	0	47.2 Cash Payment	
10	9 Ankit	Detol		1	78	707981302	2024-11qw-13		78	14.04	0	92.04 Cash Payment	
11	10 Ankit	bcd		2	40	707981302	07/09/2021		80	14.4	0	94.4 Cash Payment	
12	11 Sumedh Kute	bcd,Detol	1,2	40,78		7280973456	11/02/2024		196	35.28	0	231.28 Cash Payment	
13	12 Sumedh Kute	Detol		2	78	7280973456	22/03/2024		156	28.08	0	184.08 Cash Payment	
14	13 Sumedh Kute	Detol		1	78	7280973456	21/03/2024		78	14.04	0	92.04 Cash Payment	
15	14 Ankit	Detol		2	78	707981302	01/03/2024		156	28.08	0	184.08 Cash Payment	
16	15 Sumedh Kute	bcd		2	40	7280973456	23/03/2024		80	14.4	0	94.4 Netbanking	
17	16 Ankit	Detol		2	78	707981302	08/09/2024		156	28.08	0	184.08 Cash Payment	
18	17 Sumedh Kute	Detol		2	78	7280973456	11/03/2024		156	28.08	0	184.08 Credit/Debit Card	
19	18 Ankit	Detol		2	78	707981302	01/03/2024		156	28.08	0	184.08 Cash Payment	
20	19 Ankit	bcd,Detol	1,2	40,78		707981302	11/03/2024		196	35.28	0	231.28 Netbanking	
21	20 Sumedh Kute	bcd,Detol	1,1	40,78		7280973456	24/03/2024		118	21.24	0	139.24 Cash Payment	
22	21 Ankit	bcd,Detol	2,1	40,78		707981302	15/03/2024		158	28.44	0	186.44 Cash Payment	
23	22 Ankit	Detol,bcd	1,1	78,40		707981302	11/11/2024		118	21.24	0	139.24 Cash Payment	
24	23 Ankit	Detol		1	78	707981302	20/11/2024		78	14.04	0	92.04 Cash Payment	
25	24 Ankit	Detol		1	78	707981302	12/03/2024		78	14.04	6.4428	85.5972 Netbanking	

Invoice Generation

Search Invoice

Dashboard
Medicine Section
Customer Area

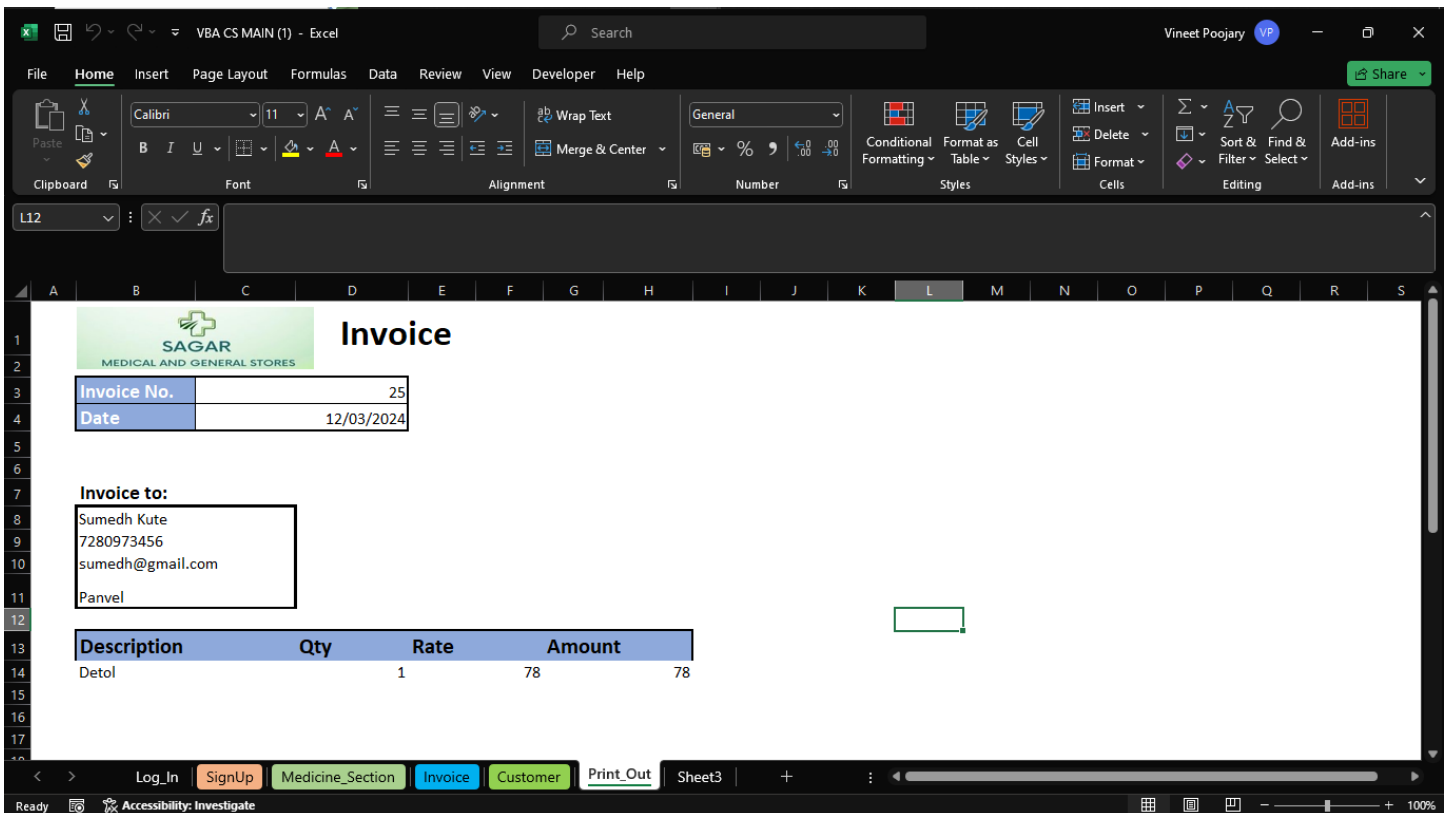
Invoice No	00026	Amount	<input type="text"/>
Customer Name	<input type="text"/>	GST 18%	<input type="text"/>
Name of Items	<input type="text"/>	Discount	<input type="text"/>
Quantity	<input type="text"/>	Total Amount	<input type="text"/>
Rate	<input type="text"/>	Payment Method	<input type="text"/>
Mobile	<input type="text"/>		
Txn Date	<input type="text"/>		

New_Invoice
Save
Delete
Print
Exit

This userform collects data usually taken in like name of items ordered and quantity and by filling this things other things like rate, gst and total amount is being automatically being pulled with the help of medicine sheet which is being used to manage inventory.

After this its very natural that one would need a bill as well which cane be printed as well for which we are taking help of another sheet within the system.

With the help of that sheet bill can be generated and can be printed so as to provide it to the customer, let's see how it works in further pages.



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Invoice

Invoice No.	25
Date	12/03/2024

Invoice to:

Sumedh Kute
7280973456
sumedh@gmail.com
Panvel

Description	Qty	Rate	Amount
Detol	1	78	78

Log_In | **SignUp** | Medicine_Section | **Invoice** | Customer | Print_Out | Sheet3

This is the sheet being used to generate a bill which can further be printed.

Let's see how the bill would look like which could then be printed.



Invoice

Invoice No.	24
Date	24-03-2024

Invoice to:

Sumedh Kute
7280973456
sumedh@gmail.com
Panvel

Description	Qty	Rate	Amount
bcd	1	40	40
Detol	1	78	78

Subtotal	118
GST	21.24
Discount	0
Total	139.24

Shop Details	Payment Method
Shop No. 3, Jubilee Road, F.U Road, Versova Andheri West, Mumbai 8591275316	Cash Payment

This how the bill would look like.

This concludes our project and was a great experience to talk to medical shops and the team was grateful that Sagar Medicals helped us explain their issues and we are thanking them as well for providing us with their letter head as an appreciation token. Thank you. Vineet Poojary, Sumedh Kute, Mohammed Choudhary and Ankit Pandey.



SAGAR MEDICAL STORES

022-2632-1769
sagar@medicalstores.com
www.sagarmedical.com

Date, 20 MARCH, 2024

'My name is Fahim Kalim Khan, and I am the owner of Sagar Medical for the past 5 years. We used to manually maintain all our data and processes, which required a group of 2 to 3 people and it takes a lot of time and effort. However, a few days ago, a student from SDBI conducted a survey at our medical shop. They understood our backend processes and provided us with a solution. Now, all this manual work can be done by just one person in a shorter time using the user form they created for us. This user form includes billing, data entry, inventory management, and more. We tried it out and it's working really well. I would like to thank these SDBI students: Vineet Poojary, Mohammed Choudhary, Sumedh Kute, and Ankit Pandey. They all worked well together, and their assistance has been quite helpful. We are grateful to these SDBI students."

SAGAR MEDICAL STORES
1, Jubilee Apt., Fisheries University Road,
Versova, Andheri (W), Mumbai - 400061.

SIGNATURE

SHOP NO.3, JUBILEE APT., F.U ROAD, VERSOVA, ANDHERI(W), MUMBAI - 400061.

GSTIN No: 27AADPK7381F1ZM

022-2632-1769

Also big thanks to Awesh sir as well who guided us during this project and making this experience amazing.

Vineet Poojary: [Vineet Poojary LinkedIn](#)

Sumedh Kute: [Sumedh Kute LinkedIn](#)

Ankit Pandey: [Ankit Pandey LinkedIn](#)

Mohammed Choudhary: [Mohammed Choudhary LinkedIn](#)

Awesh Bhornya: [Awesh Bhornya LinkedIn](#)
