



**INSTITUTE FOR
ADVANCED COMPUTING
AND SOFTWARE
DEVELOPMENT AKURDI,
PUNE**

Documentation On

**“SELLERKART”
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1. INTRODUCTION

Introduction:

Portal is a web system that provides the function and features to authenticate and identify the users and provide them with easy, intuitive, personalized and user-customizable web-interface for facilitating access to information and services that are of primary relevance and interests to the users. sellerkart is meant to serve the relationship between the wholesalers and the retailers. Looking at the growing virtual systems there is a need to have a business to business communication website which will solve a problem of shortage of product on retailer's side and to get the products on time and have a fruitful communication with the wholesalers in timely manner solving the real time issues.

Problem Statement:

In this modern era still entire business model between retailer and wholesaler are either rely on past relations they maintain or just verbal convincing approach by wholesaler which means no confirmation of delivery date and rate of product.

For not knowing different wholesalers available in the market, retailers buy products only from the wholesalers they know and end up giving high rate. Many times due to late delivery of product by wholesaler the retailer has to return their valuable customer which substandard the customer relation.

Aims and Objective:

The main purpose is to serve the relationship between the wholesalers and the retailers. Looking at the growing virtual systems there is a need to have a business to business communication website which will solve a problem of shortage of product on retailer's side and to get the products on time and have a fruitful communication with the wholesalers in timely manner solving the real time issues.

In other words, our SellerKart portal has, following objectives:

- Simple database is maintained.
- Easy operations for the user and the admin of the system.
- User interfaces are user accommodating and attractive; it takes very less time for the operator to use the system.
- This system will provide one click online order placing for the retailer and the business growth to the wholesaler.

2. OVERALL DESCRIPTION

Proposed Methodology:

This system is designed especially for large, premium and small retailer business and the local wholesalers. E-retailer portal provide the complete functionality of placing the order from the retailer and acknowledgement from the same and getting the orders accepted from the wholesaler. This system is going to provide ease of comparison with the price of the same product and also the location with the different wholesalers. This system will have Retailer, wholesaler and the Admin. Retailer can update the quantity they have in their shop according to the quantity the items/products will be sorted for “Placing-order” function, like if the item has reached the threshold level of the quantity then that will come under the list of orders to be placed. Retailer will chose the item to place an order and according to the item/product, wholesaler list will be filtered & displayed to the retailer. Wholesaler can update the product list on their site and can accept the order request or deny and once the order has been accepted and delivered to the retailer then retailer will send the acknowledgement. Wholesaler will be able to see the list of retailers whose order they are going to fulfil. Admin will be able to delete the retailer/wholesaler depending on the reviews.

OPERATING ENVIRONMENT:

Server Side:

Processor: Intel® Xeon® processor 3500 series

HDD: Minimum 500GB Disk Space

RAM: Minimum 4GB

OS: Windows 10

Database: MySQL

Client Side (minimum requirement):

Processor: Intel Dual Core

HDD: Minimum 80GB Disk Space

RAM: Minimum 2GB

OS: Windows 7

Design and Implementation Constraints:

- The application will use ReactJs, Axios and CSS as main web technologies.
- HTTP protocol is used as communication protocol. FTP is used to upload the web application in live domain and the client can access it via HTTP protocol.
- Several types of validations make this web application a secured one and SQL Injections can also be prevented.
- Since SellerKart is a web-based application, internet connection must be established.

3. REQUIREMENTS SPECIFICATION.

External Interface Requirements:

User Interfaces:

- All the users will see the same page when they enter in this website. This page asks the users a username and a password.
- After being authenticated by correct username and password, user will be redirect to their corresponding profile where they can do various activities.
- The user interface will be simple and consistence, using terminology commonly understood by intended users of the system. The system will have simple interface, consistence with standard interface, to eliminate need for user training of infrequent users.

Hardware Interfaces:

- No extra hardware interfaces are needed.
- The system will use the standard hardware and data communication resources.

This includes, but not limited to, general network connection at the server/hosting site, network server and network management tools.

Application Interfaces:

Web Browser:

The system is a web-based application; clients need a modern web browser such as Mozilla Firebox, Internet Explorer, Opera, and Chrome. The computer must have an Internet connection in order to be able to access the system.

Communications Interfaces:

- This system uses communication resources which includes but not limited to, HTTP protocol for communication with the web browser and web server and TCP/IP network protocol with HTTP protocol.
- This application will communicate with the database that holds all the booking information. Users can contact with server side through HTTP protocol by means of a function that is called HTTP Service. This function allows the application to use the data retrieved by server to fulfil the request fired by the user.

4. SYSTEM DIAGRAMS.

- **Flow Chart:**

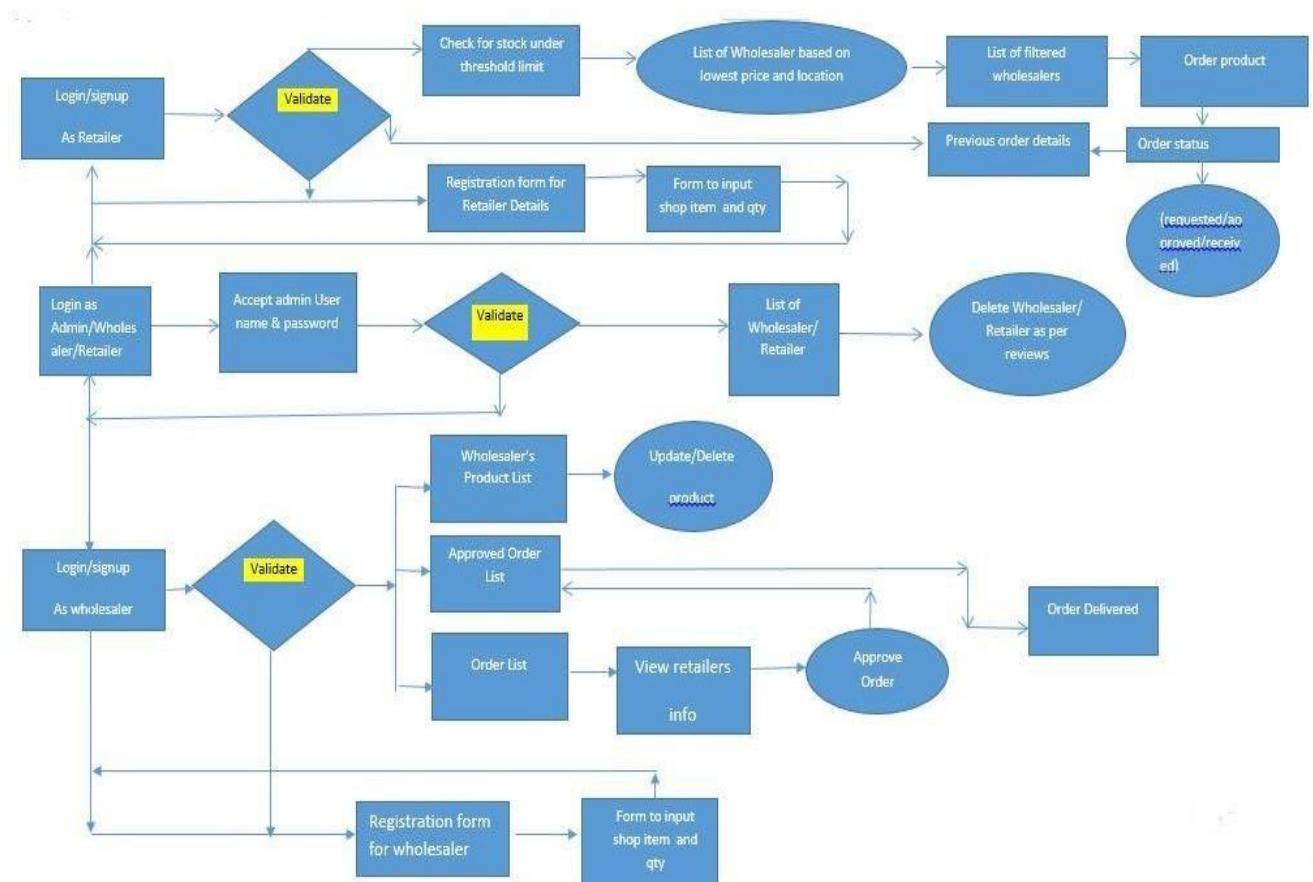


Fig. 1

- **Data Flow diagram:**

First Level DFD:



Fig.2

Second Level DFD:

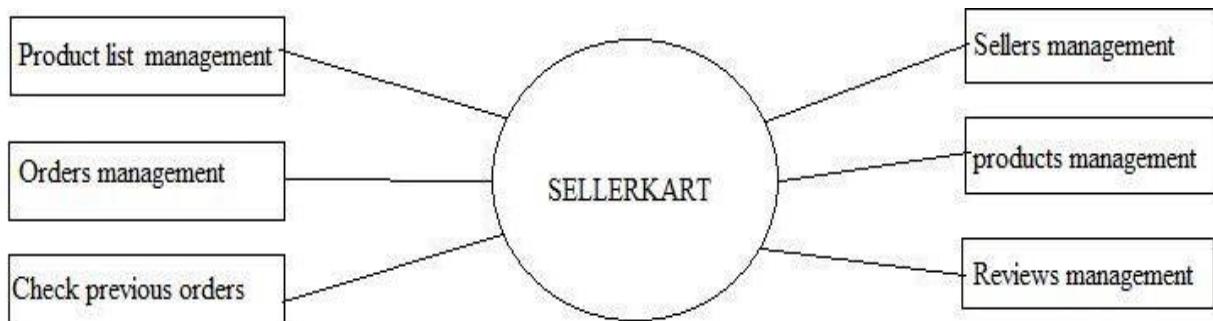


Fig.3

- **Use Case Diagrams:**

- **Admin Use Case:**

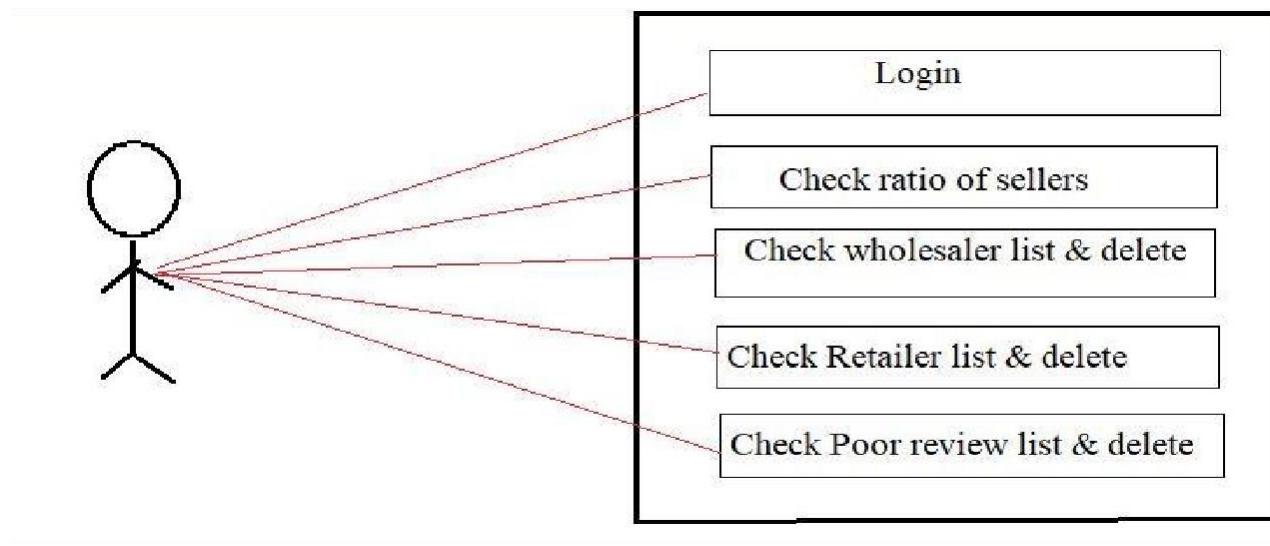


Fig.4

- **Wholesaler Use Case:**

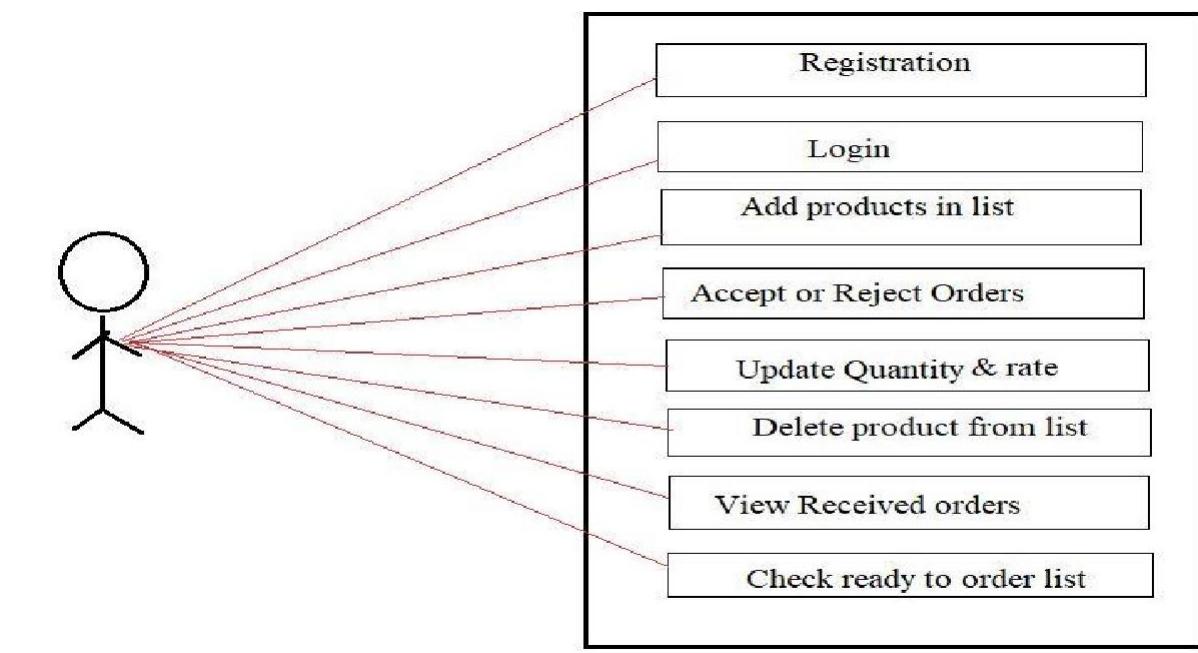


Fig.5

- Retailer Use Case:

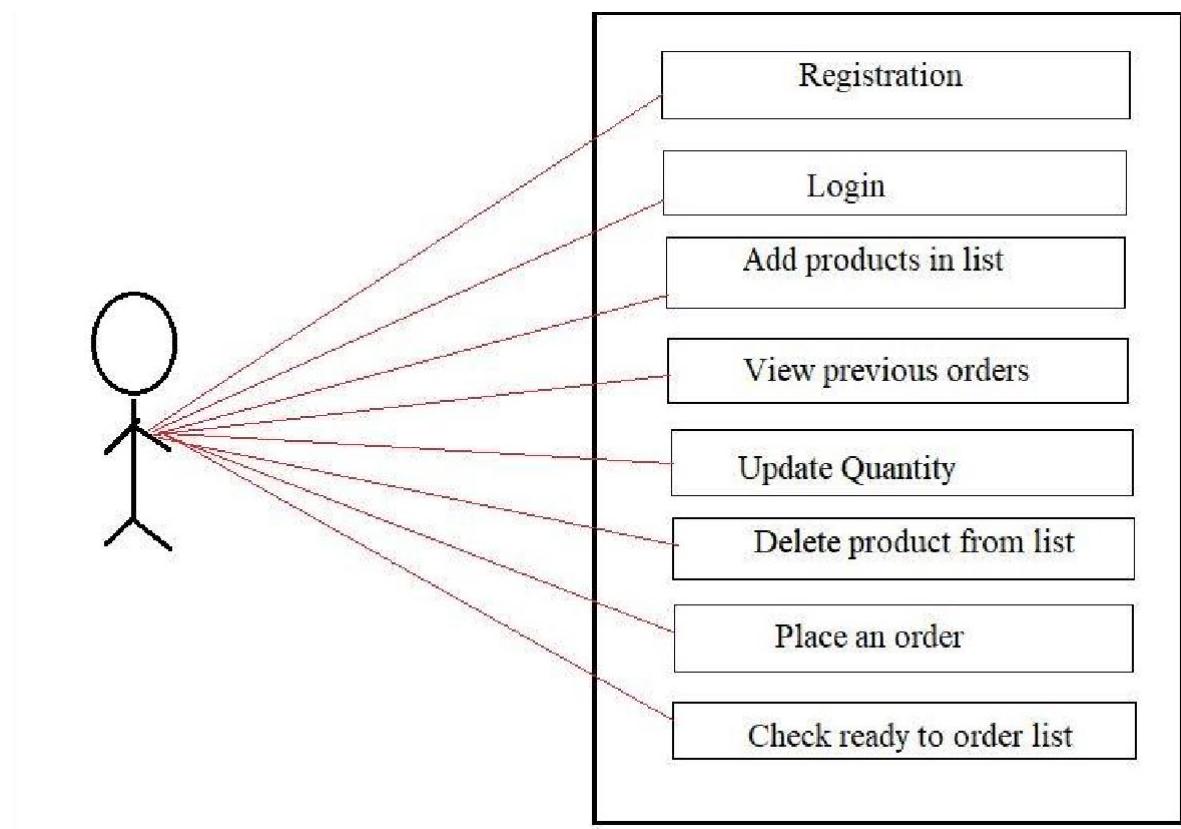


Fig.6

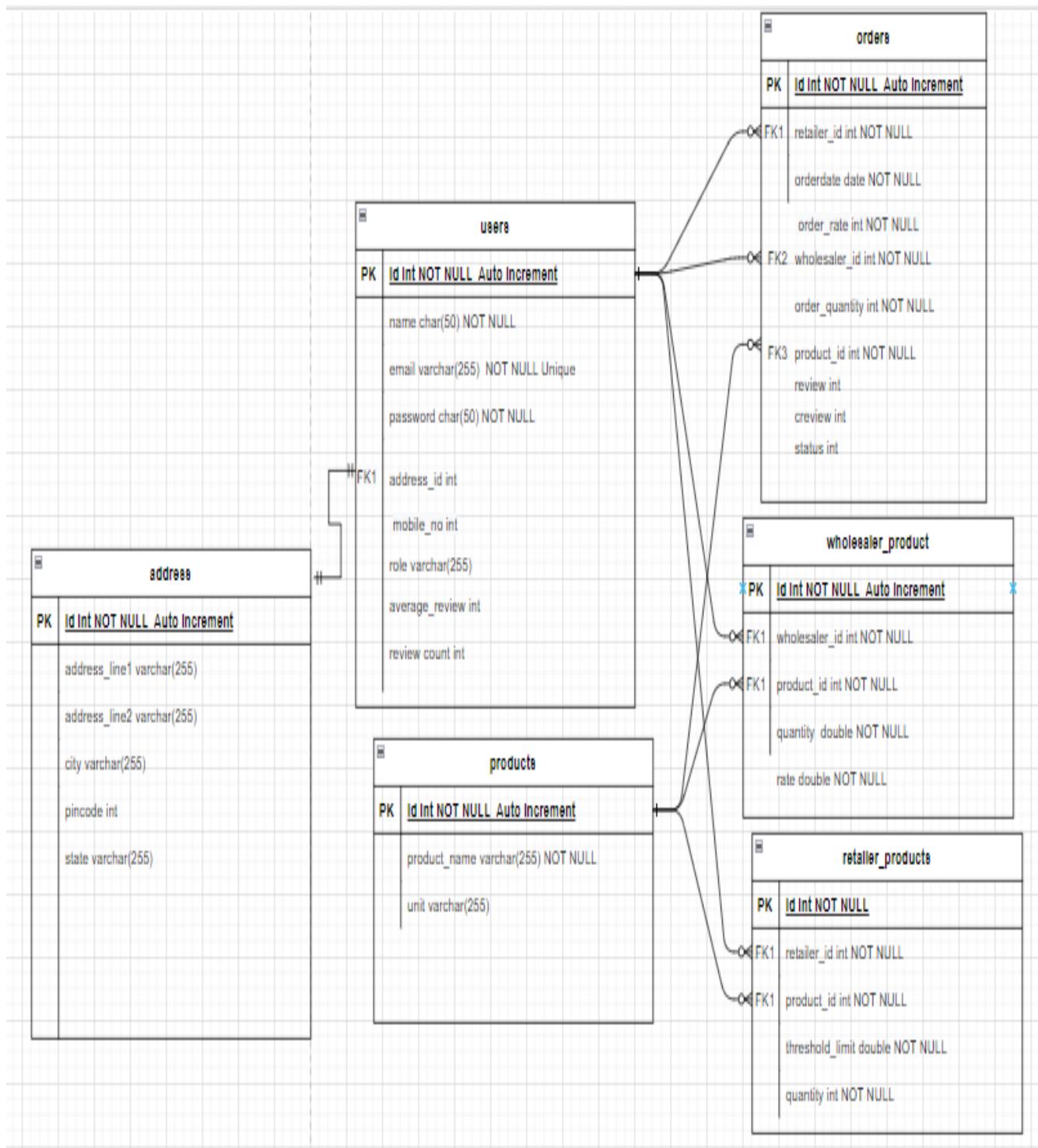
ER-Diagram:

Fig.7

5.**TABLE STRUCTURE**

- Users:

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
email	varchar(255)	YES	UNI	NULL	
mobile_no	varchar(255)	YES		NULL	
name	varchar(255)	YES		NULL	
password	varchar(255)	YES		NULL	
role	varchar(255)	NO		NULL	
address_id	int	YES	MUL	NULL	
average_review	decimal(10,1)	NO		NULL	
review_count	int	NO		NULL	

- Address:

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
address_line1	varchar(255)	YES		NULL	
address_line2	varchar(255)	YES		NULL	
city	varchar(255)	YES		NULL	
pincode	int	YES		NULL	
state	varchar(255)	YES		NULL	

- Products:

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
product_name	varchar(255)	YES		NULL	
unit	varchar(255)	NO		NULL	

- Orders:

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
order_quantity	int	NO		NULL	
status	int	NO		NULL	
product_id	int	NO	MUL	NULL	
retailer_id	int	NO	MUL	NULL	
wholesaler_id	int	NO	MUL	NULL	
order_rate	int	NO		NULL	
review	int	NO		NULL	
creview	int	NO		NULL	
orderdate	date	YES		NULL	

- Retailer-products:

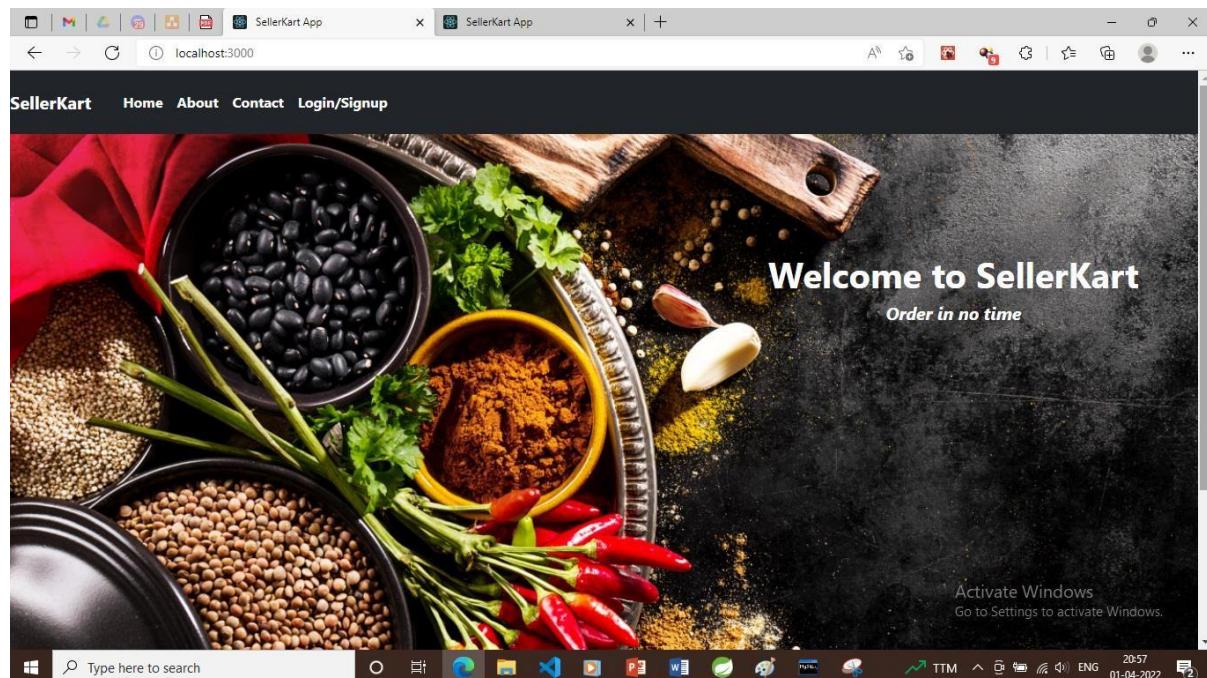
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
threshold_limit	double	NO		NULL	
product_id	int	NO	MUL	NULL	
retailer_id	int	NO	MUL	NULL	

- Wholesaler-products:

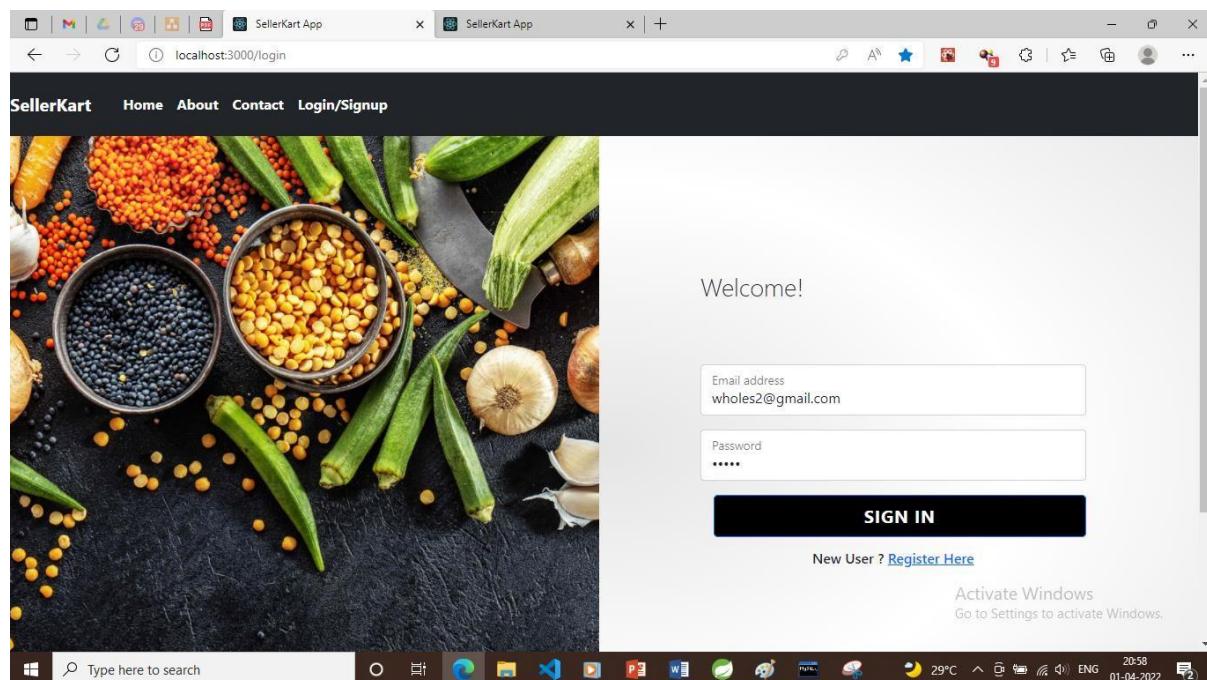
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
rate	double	NO		NULL	
product_id	int	NO	MUL	NULL	
wholesaler_id	int	NO	MUL	NULL	

7. SCREENSHOTS

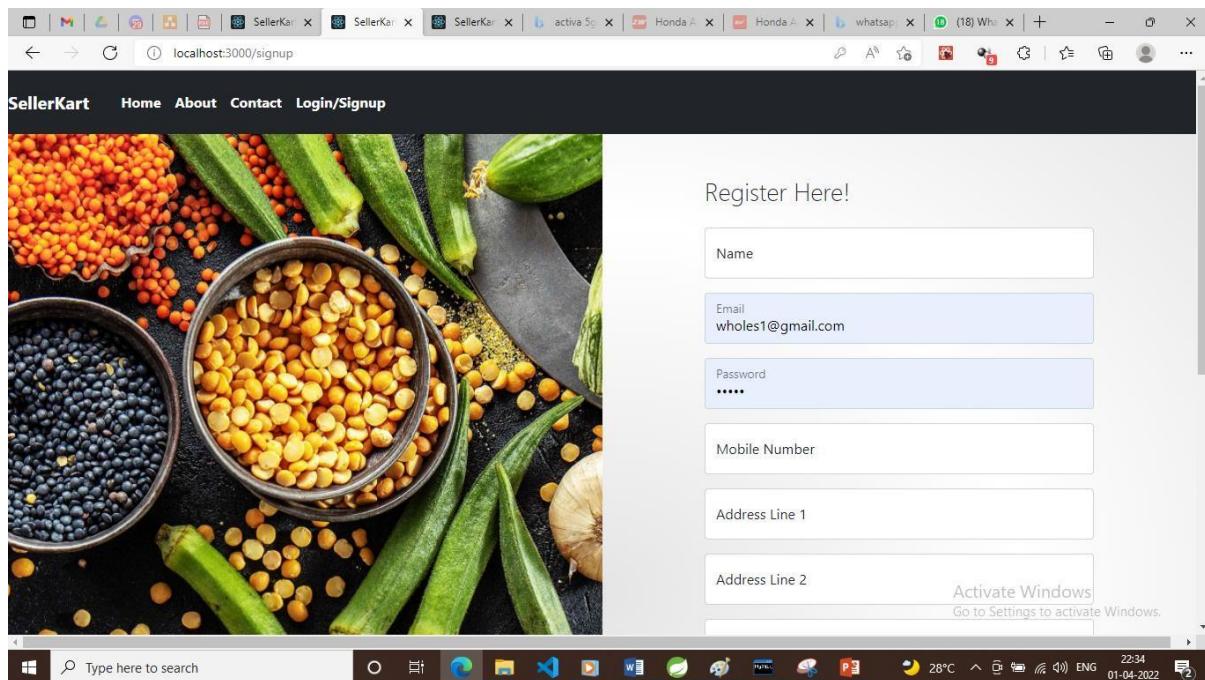
1. Home page-



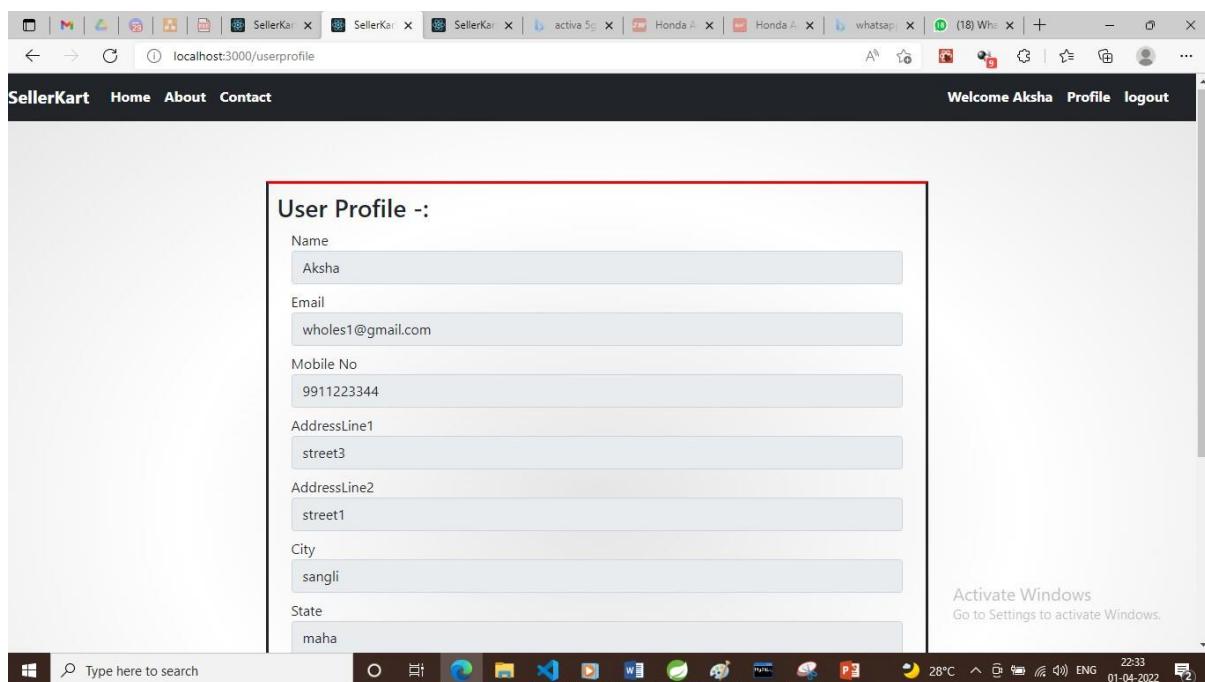
2. Login page-



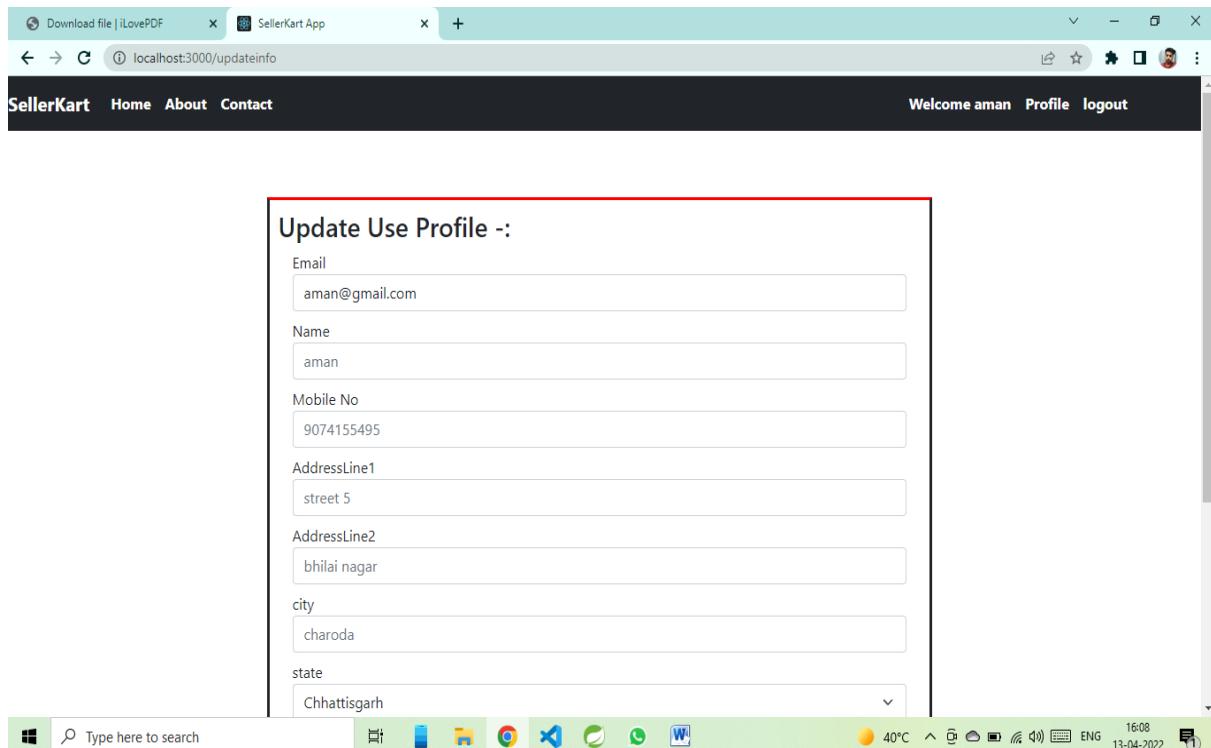
3. Registration page-



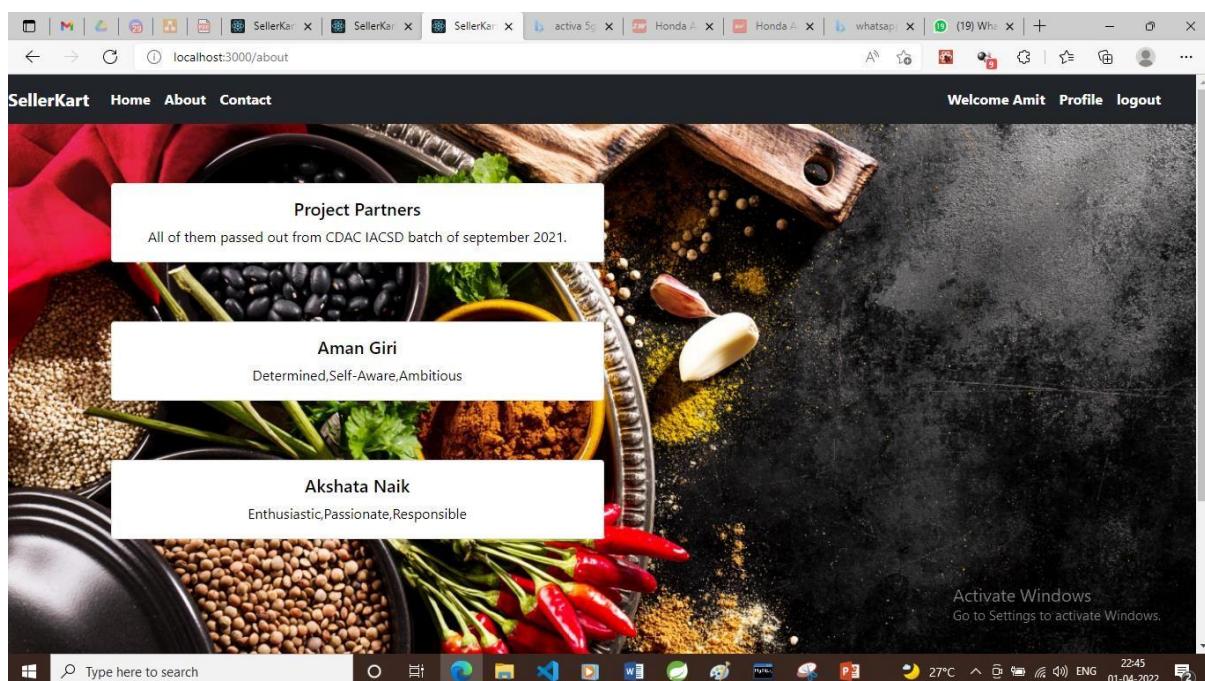
4. User profile page-



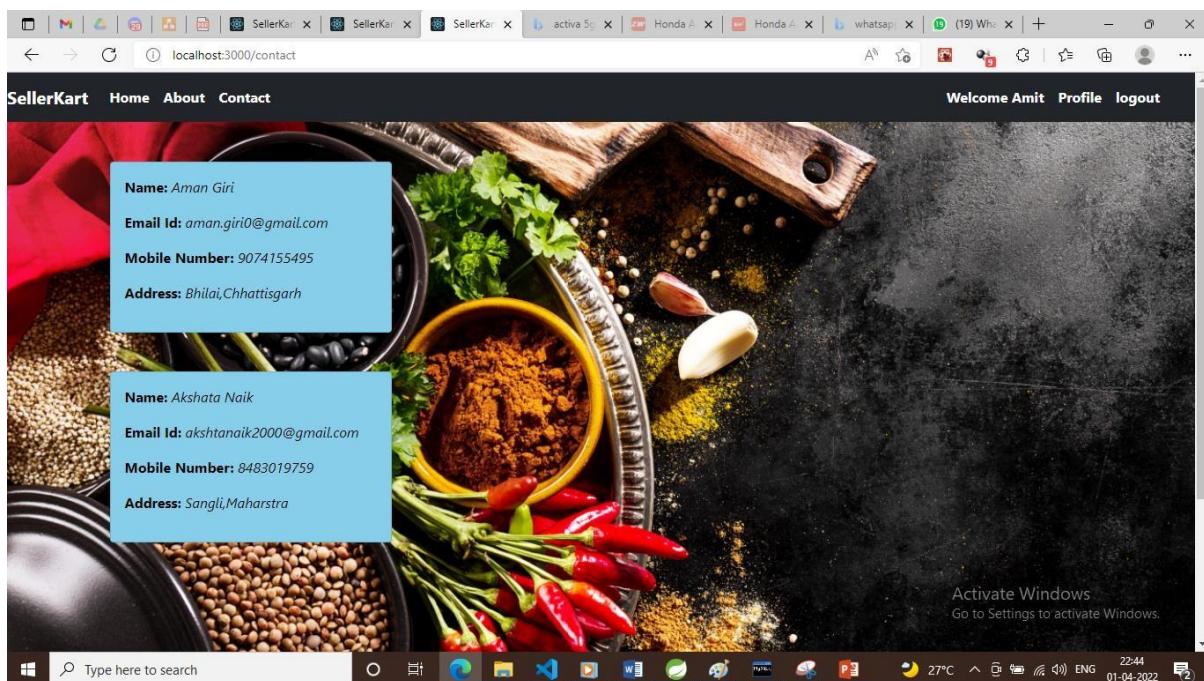
5. Update user profile:



6. about page-



7. Contact page-



8. Wholesaler home page-

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'SellerKart' at 'localhost:3000/wholesaler'. The page title is 'SellerKart' and the user is 'Welcome Aksha'. The main content area has a header 'My Store' over a background image of various spices in bowls. Below is a table with columns 'Product', 'Available Quantity', 'Rate', and 'Actions' (update, delete). The table data is:

Product	Available Quantity	Rate	Actions
Salt	100 packet	22 /packet	<button>update</button> <button>delete</button>
oil	88 packet	188 /packet	<button>update</button> <button>delete</button>
Shampoo	2 packet	98 /packet	<button>update</button> <button>delete</button>
wheat	50 Kg	45 ./Kg	<button>update</button> <button>delete</button>
waterBottle	50 packet	23 /packet	<button>update</button> <button>delete</button>

Below the table are two green buttons: 'Add New Product' and 'Orders Received'. A sidebar on the left shows a phone number '186046'. At the bottom, there's a Windows taskbar with icons and system status.

9. Wholesaler add new product-

The screenshot shows a web browser window with multiple tabs open at the top. The active tab is 'SellerKart' at 'localhost:3000/wholesaler'. The page title is 'SellerKart' and the user is 'Welcome R mart'. The main content area has a header 'My Store' over a background image of various spices. Below is a table with columns 'Product', 'Available Quantity', 'Rate', and 'Actions' (update, delete). The table data is:

Product	Available Quantity	Rate	Actions
turmeric	850 packet	Rs.70/packet	<button>update</button> <button>delete</button>
MoongDaal	500 kg	Rs.95/kg	<button>update</button> <button>delete</button>

Below the table are two green buttons: 'Add New Product' and 'Orders Received'. A modal window titled 'Add New Product:' is open on the right side, containing fields for 'Product Name', 'Quantity', 'Rate', and 'Unit kg', with a 'SUBMIT' button. A sidebar on the left shows a phone number '#292066046'. At the bottom, there's a Windows taskbar with icons and system status.

10. Wholesaler orders page-

Action	OrderDate	Retailer	Contact	Address	Product	Price	Quantity	Amount	Review
<button>Approve</button> <button>Reject</button>	2022-04-09	aman	9074155495	bhilai	sugar	Rs.10/kg	34 kg	Rs.340	☆☆☆☆☆
<button>Approved</button> <button>Reject</button>	2022-04-09	aman	9074155495	bhilai	jaggery	Rs.12/kg	34 kg	Rs.408	☆☆☆☆☆
<button>Delivered</button> <button>Reject</button>	2022-04-03	aman	9074155495	bhilai	kerosene oil	Rs.22/litre	45 litre	Rs.990	☆☆☆☆☆

11. Retailer home page-

	Product	Limit	Available Quantity	
<button>Order</button>	waterBottle	12 packet	20 packet	<button>update</button> <button>delete</button>
<button>Order</button>	powder	25 package	20 package	<button>update</button> <button>delete</button>
<button>Order</button>	facewash	14 package	20 package	<button>update</button> <button>delete</button>
<button>Order</button>	toothpaste	20 piece	40 piece	<button>update</button> <button>delete</button>
<button>Order</button>	Shampoo	15 packet	22 packet	<button>update</button> <button>delete</button>
<button>Order</button>	oil	6 packet	99 packet	<button>update</button> <button>delete</button>
<button>Order</button>	Salt	5 packet	6 packet	<button>update</button> <button>delete</button>

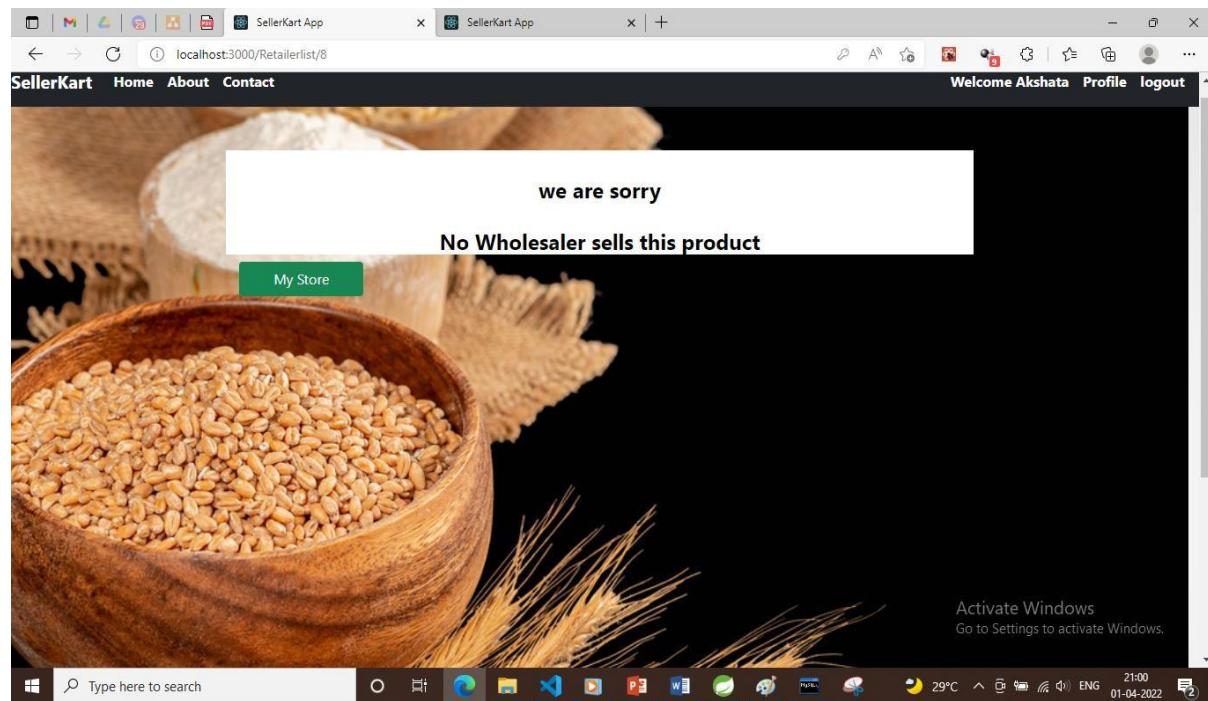
12. Retailer add new product-

The screenshot shows a Windows desktop environment with a browser window open to the SellerKart App at localhost:3000/retailer. The app's header includes 'SellerKart' and navigation links 'Home', 'About', 'Contact', 'Welcome Akshata', 'Profile', and 'logout'. A sidebar on the left features a 'My Store' section with a table of products like waterBottle, powder, facewash, toothpaste, Shampoo, oil, and Salt, each with an 'Order' button, limit, and available quantity. Below this are buttons for 'Add New Product', 'Previous Orders', and 'Ready to Order'. The main content area has a modal titled 'Add New Product:' with input fields for 'Product Name', 'Quantity', 'Threshold Limit', and 'Unit kg'. A large 'SUBMIT' button is at the bottom right. The taskbar at the bottom shows various application icons and system status.

13. Ready to order product-

This screenshot shows the same Windows desktop setup as the previous one, but the modal is no longer visible. The 'Ready to Order' section of the app is now active, displaying a table with a single row for 'powder'. The row shows 'Order' as the action, 'powder' as the product, '2 number' as the limit, and '1 number' as the available quantity. There are 'update' and 'delete' buttons next to the quantity field. Below the table are buttons for 'Add New Product', 'Previous Orders', and 'My store'. The background features a large image of a wooden bowl filled with grains. The taskbar at the bottom remains the same.

14. Retailer orders page-



The screenshot shows a web browser window with two tabs open, both titled 'SellerKart App'. The URL in the address bar is 'localhost:3000/Retailerlist/3'. The main content area displays a table titled 'Wholesalers List for : Shampoo'. The table has columns: Wholesaler, Contact, Rating, Quantity, Unit Price, Order Quantity, Total Price, and Action. One row is visible, showing 'Aksha' as the wholesaler, '9911223344' as the contact, '3' as the rating, '2 packet' as the quantity, 'Rs.98/packet' as the unit price, an input field 'enter quantity' for order quantity, 'Rs.0' as the total price, and a yellow 'Order' button. Below the table are two green buttons: 'My Store' and 'Previous Orders'. The background features a close-up photograph of a wooden bowl filled with whole grains and some wheat stalks. At the bottom right of the screen, there is a Windows taskbar with various icons and a system status bar showing '29°C', 'ENG', '01-04-2022', and a battery level of '21:01'.

15.Retailer previous orders page-

SellerKart Home About Contact

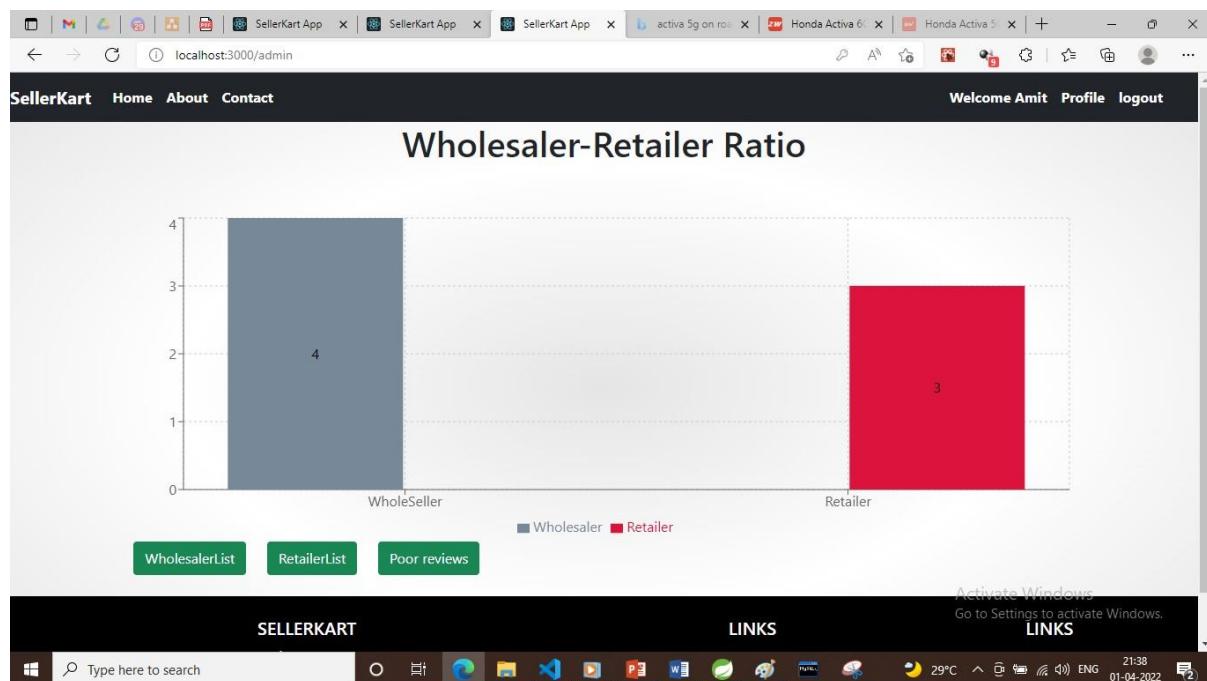
Welcome a
order placed to: Mk traders
Product: sugar
Quantity: 34kg
Total Amount: Rs340

Action	Status	OrderDate	Wholesaler	Contact	Product	Price	Quantity	Amount	Review
Cancel	Pending	2022-04-09	Mk traders	8786786674	sugar	Rs.10/kg	34 kg	Rs.340	☆ ☆ ☆ ☆ ☆ ☆
Cancel	Pending	2022-04-09	Mk traders	8786786674	jaggery	Rs.12/kg	34 kg	Rs.408	★ ☆ ☆ ☆ ☆ ☆
Delivered	Approved	2022-04-03	Mk traders	8786786674	kerosene oil	Rs.22/litre	45 litre	Rs.990	★ ★ ★ ★ ☆ ☆
Rejected	Rejected	2022-04-03	Mk traders	8786786674	jaggery	Rs.12/kg	500 kg	Rs.6000	You can't review this order.

My Store Refresh

Type here to search 40°C ENG 12:06

16. Admin home page-



17. Wholesaler Review list page-

The screenshot shows a table of Wholesaler reviews. Each row contains the following information:

Name	Email	MobileNo	Address	Review	ReviewCount	Action
Aksha	whole1@gmail.com	9911223344	sangli,maha,123123	2	8	<button>delete</button>
Akshata Sunil Naik	akshtanaik2000@gmail.com	9988776777	sangli,maharashtra,411041	4	4	<button>delete</button>
Akshata	abc@gmail.com	8877776655	sangli,maharashtra,123456	3	2	<button>delete</button>
Akshataaaa	akshu@gmail.com	8899889977	sangli,maharashtra,416415	4	1	<button>delete</button>

At the bottom left is a green "Home" button. A Windows taskbar is visible at the bottom of the screen.

18. Retailer review list page-

Name	Email	MobileNo	Address	Review	ReviewCount	Action
aman	aman@gmail.com	9074155495	charoda,Chhattisgarh,48087	0	0	<button>delete</button>
aman	snehal@gmail.com	9878675446	sangali,Maharstra,8989	1.5	2	<button>delete</button>
surman	surman@gmail.com	7678678987	bhilai,Chhattisgarh,345534	0	0	<button>delete</button>

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19. Poor review list page-

Name	Email	MobileNo	Address	Review	ReviewCount	Action
aman	snehal@gmail.com	9878675446	sangali,Maharstra,8989	1.5	2	<button>delete</button>

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6. CONCLUSION

This project aid in online business of wholesaler and retailer. This system brings ease in the communication and business of B2B field. It provides the complete functionality of placing the order from the retailer and acknowledgement from the same and getting the orders accepted from the wholesaler. This system is going to provide ease of comparison with the price of the same product and also the location with the different wholesalers.

- **Future Scope:**

This project can be enhanced further by adding payment gateway to reduce the maintenance of cash for the order amount at retailers end and also can be used to implement B2C in the same to have efficient loop of business. The software is flexible enough to be modified and implemented as per future requirements. We have tried our best to present this free and user-friendly website to Institutes.

6. REFERENCES

- **References:**

-  [React – A JavaScript library for building user interfaces \(reactjs.org\)](https://reactjs.org)
-  [Bootstrap · The most popular HTML, CSS, and JS library in the world. \(getbootstrap.com\)](https://getbootstrap.com)
-  [Recharts](#)
-  [React Tutorial \(w3schools.com\)](https://www.w3schools.com/react/)
-  [Learn Spring Boot | Baeldung](https://baeldung.com/spring-boot-tutorial)
-  [Spring Data JPA - Reference Documentation](#)