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ADVANCED COMPUTING
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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:**

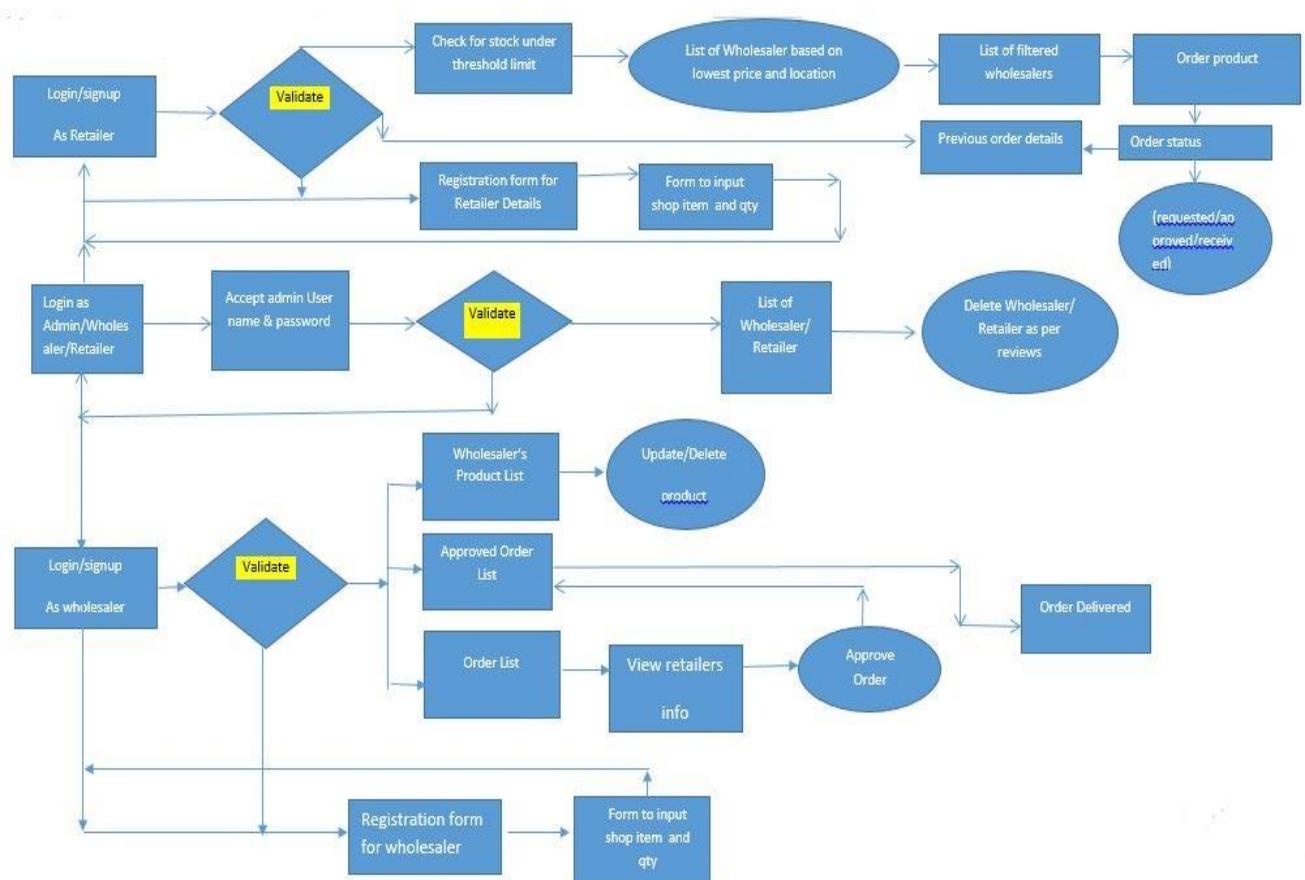


Fig.1

- **Data Flow diagram:**

First Level DFD:



Fig.2

Second Level DFD:

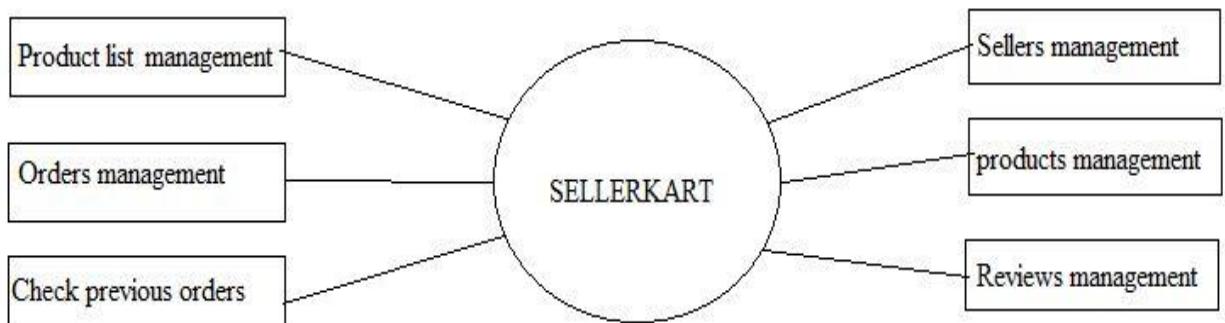


Fig.3

- **Use Case Diagrams:**

- **Admin Use Case:**



Fig.4

- **Wholesaler Use Case:**

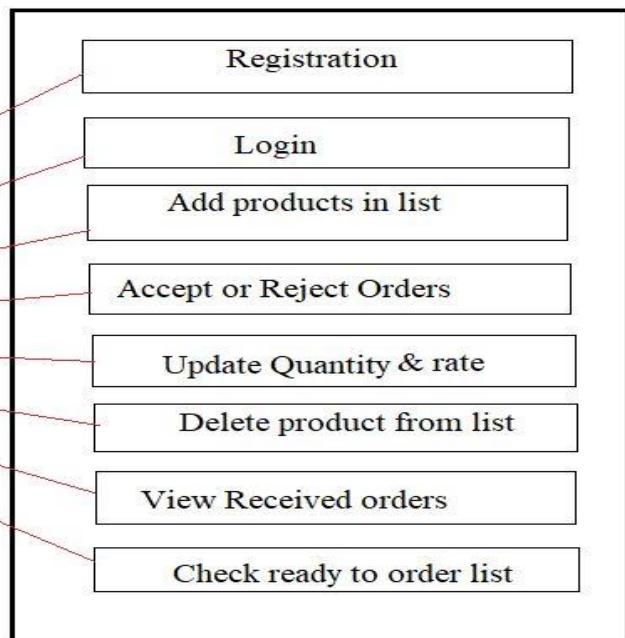


Fig.5

- Retailer Use Case:

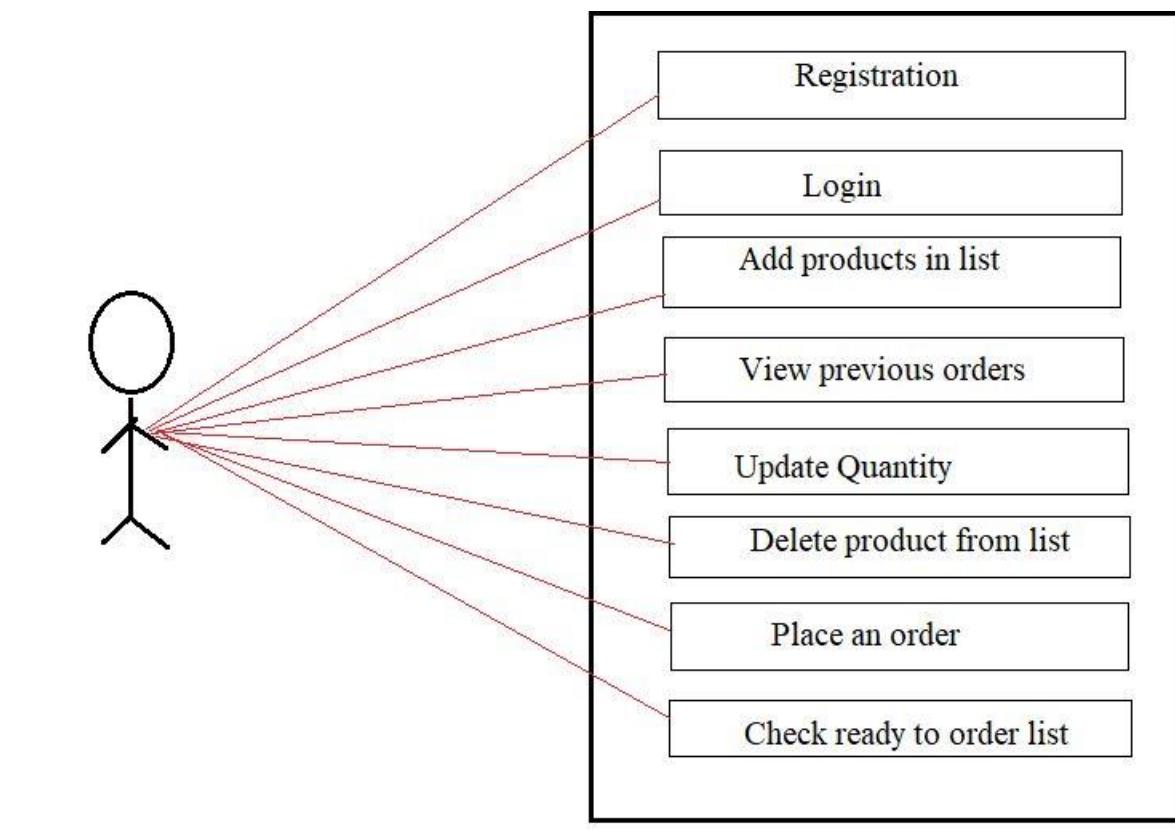


Fig.6

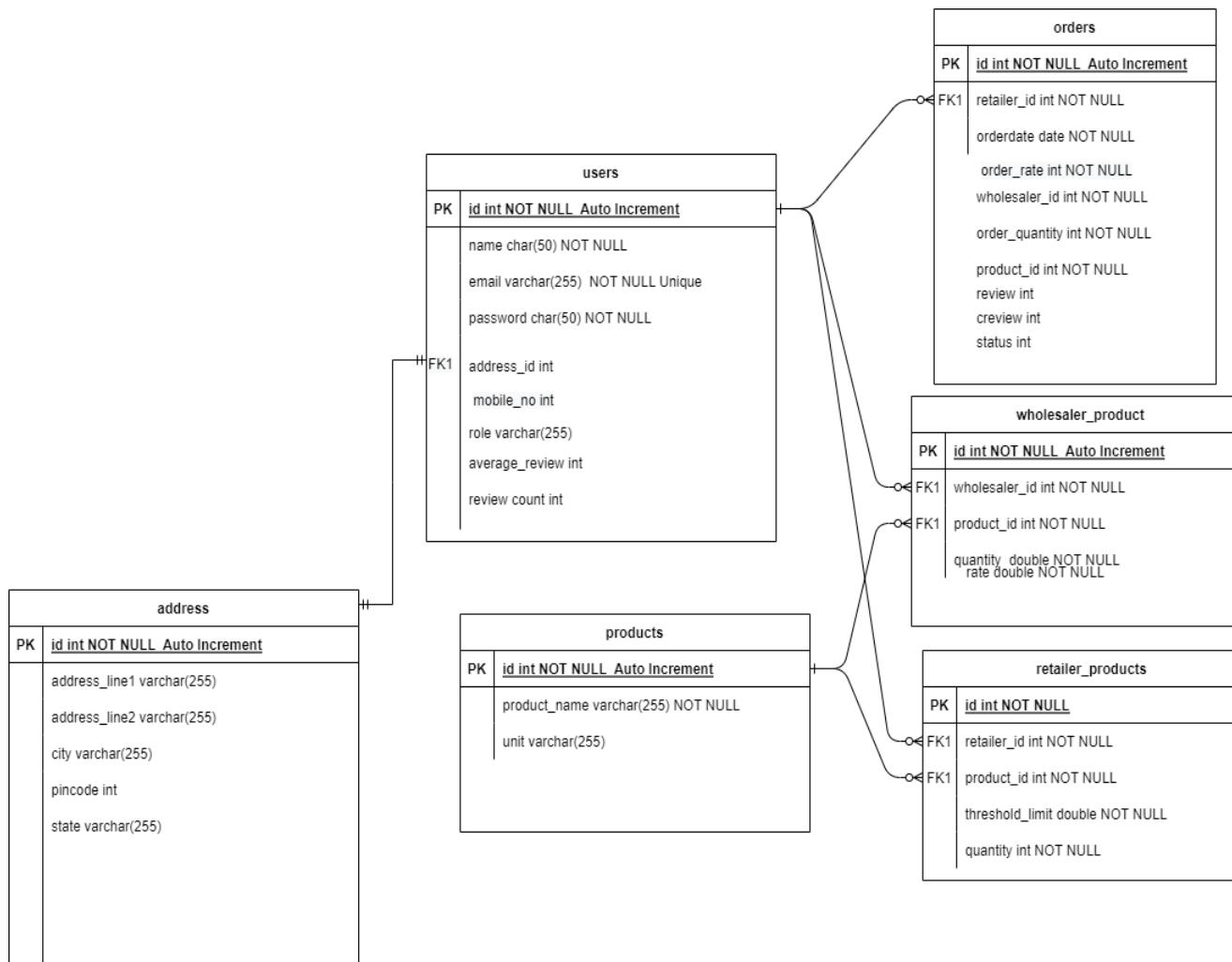
ER-Diagram:

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:

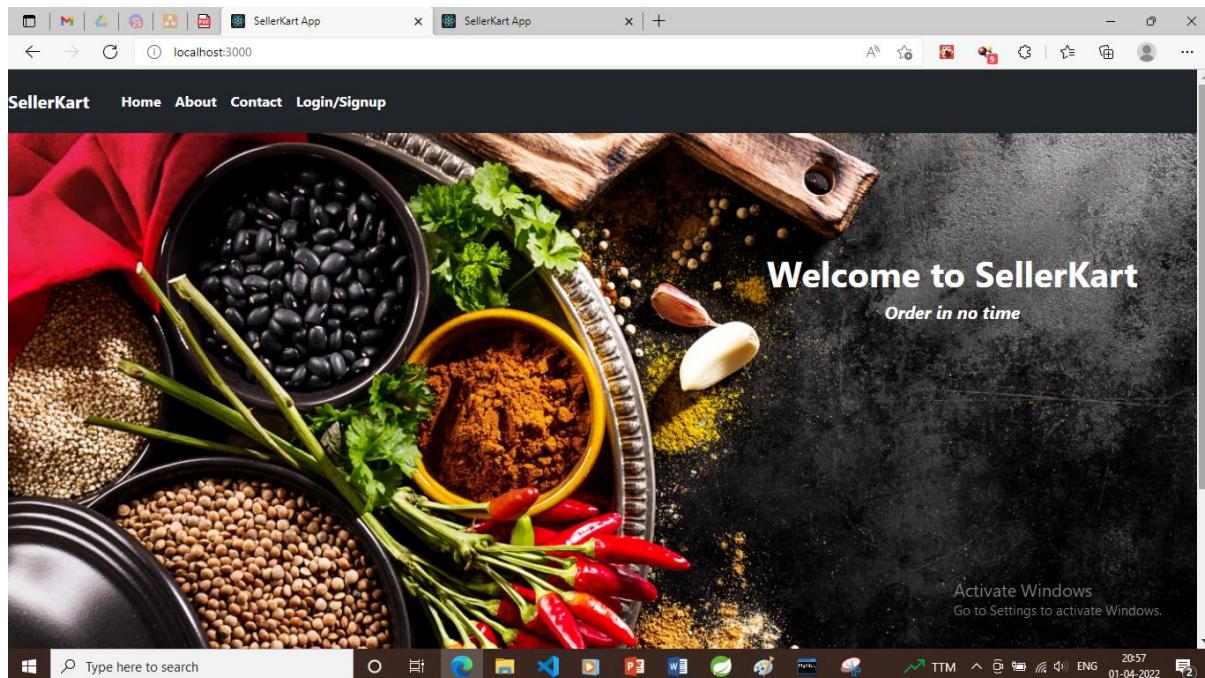
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
threshold_limit	double	NO		NULL	
product_id	int	NO	MUL	NULL	
retailer_id	int	NO	MUL	NULL	

- Wholesaler-products:

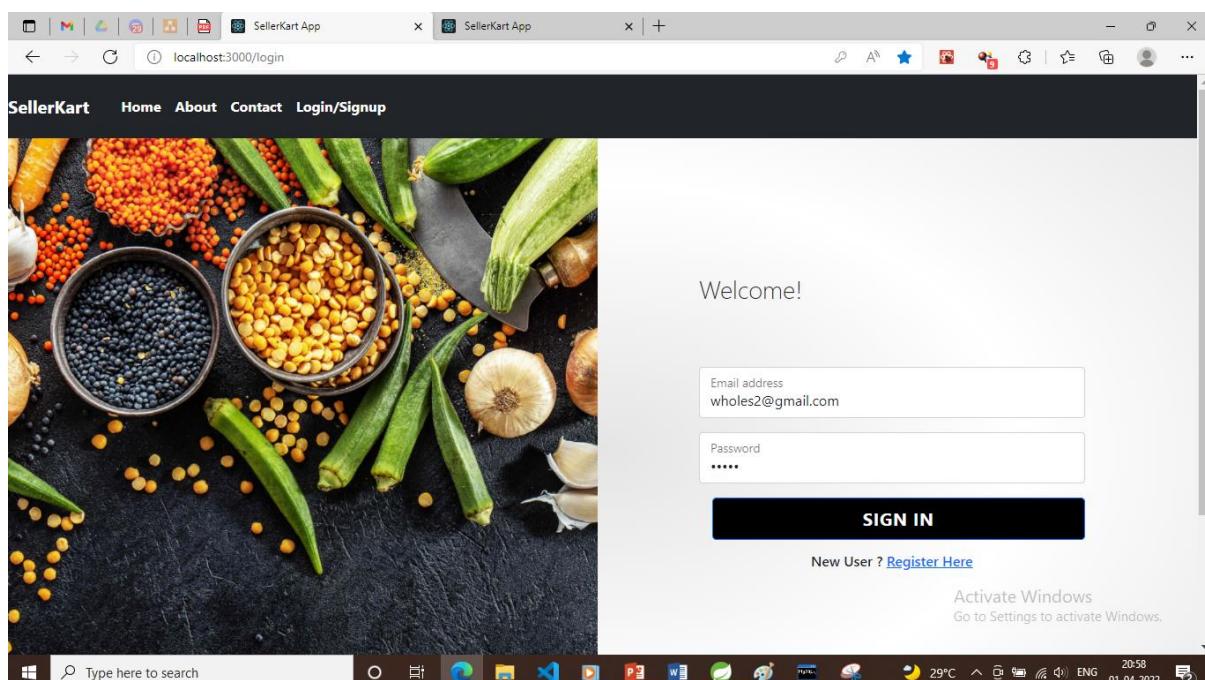
Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
quantity	int	NO		NULL	
rate	double	NO		NULL	
product_id	int	NO	MUL	NULL	
wholesaler_id	int	NO	MUL	NULL	

7. SCREENSHOTS

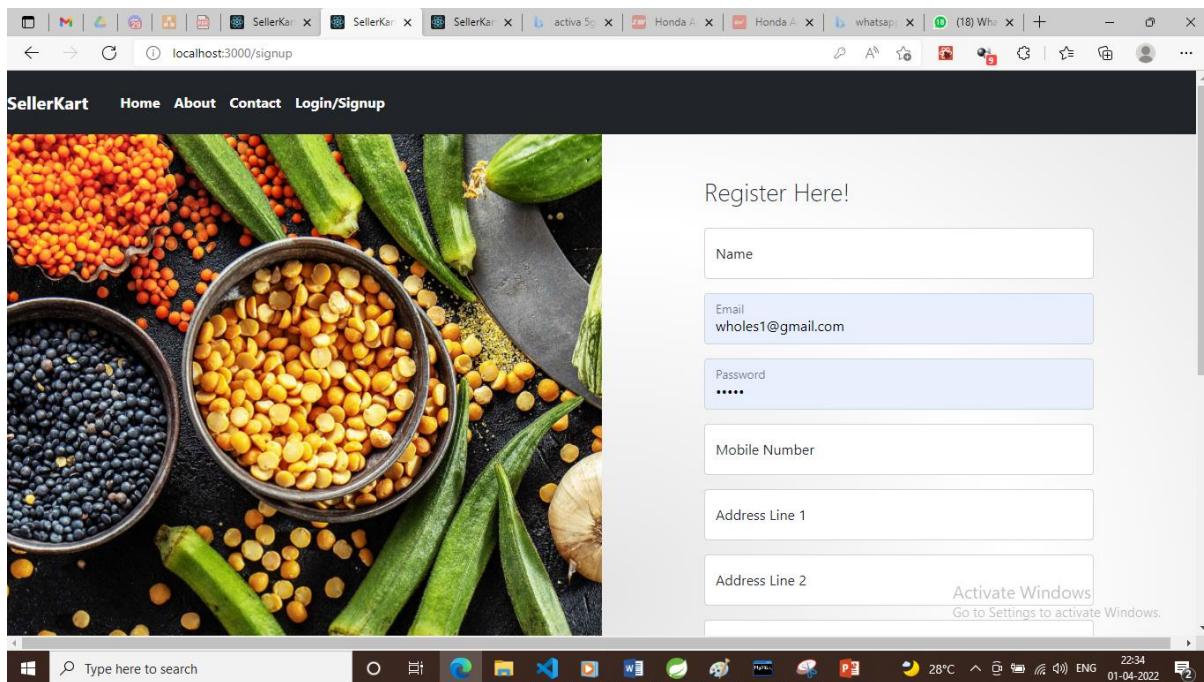
1. Home page-



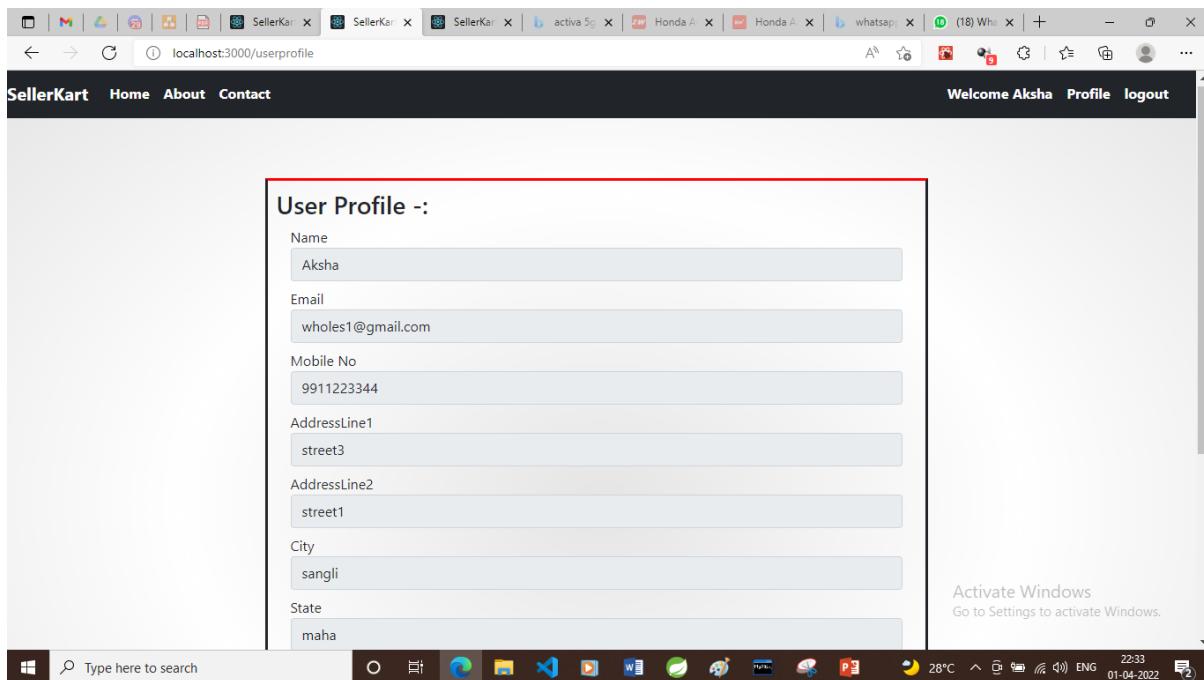
2. Login page-



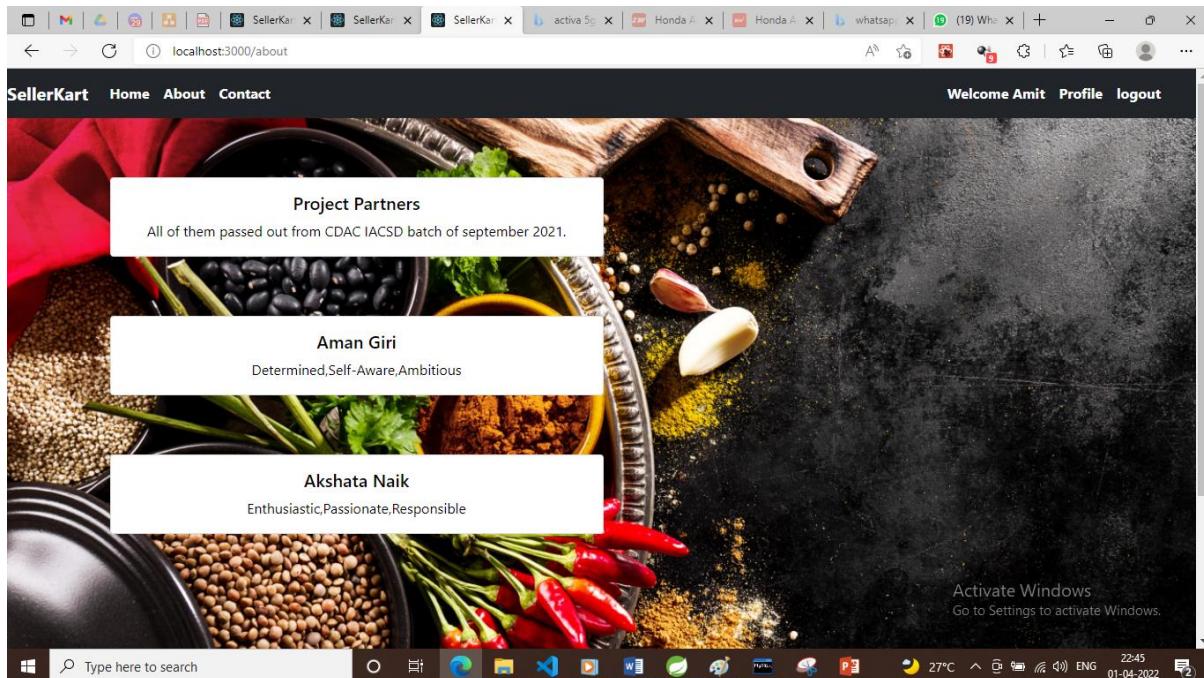
3. Registration page-



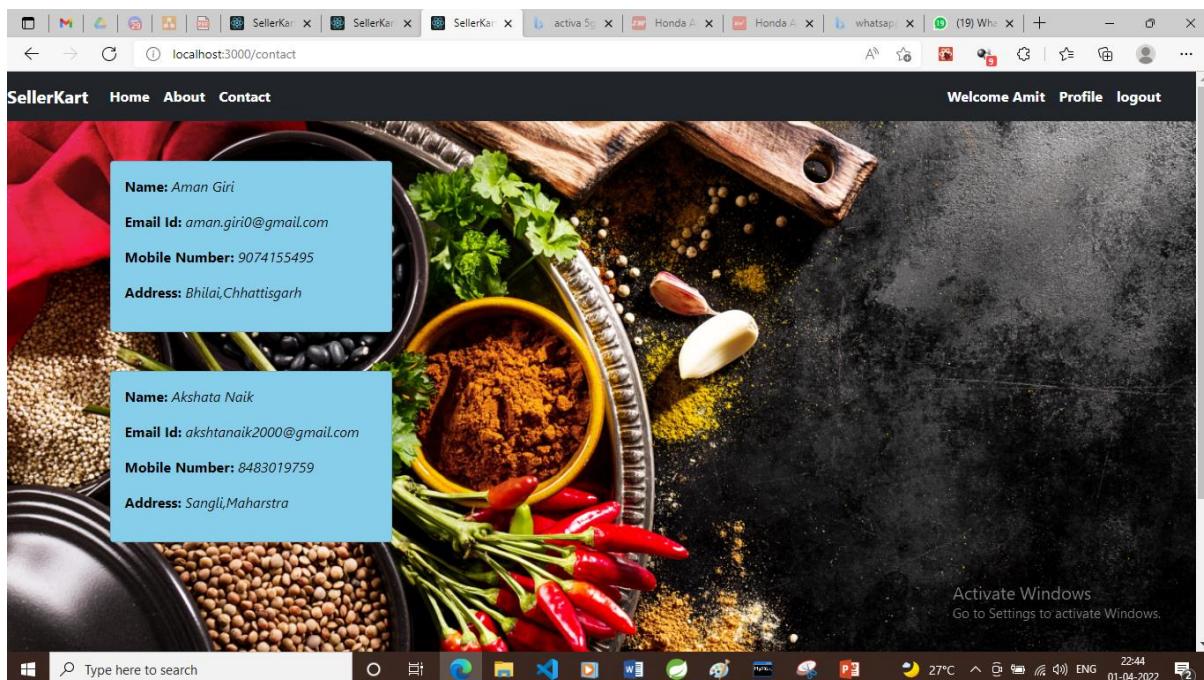
4. User profile page-



5. about page-



6. Contact page-



7. Wholesaler home page-

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>

[Add New Product](#) [Orders Received](#)

8. Wholesaler add new product-

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>

[Add New Product](#) [Orders Received](#)

Add New Product:

Product Name:

Quantity:

Rate:

Unit: kg

SUBMIT

9. Wholesaler orders page-

The screenshot shows a Microsoft PowerPoint slide titled "SellerKart App" with a slide number of 24. The slide content is a screenshot of a web browser displaying the SellerKart App's "Orders Received" page. The browser title is "SellerKart App". The page has a header with "SellerKart" and navigation links "Home", "About", "Contact", "Welcome Mk traders", "Profile", and "logout". Below the header is a section titled "Orders Received" with a table. The table columns are: Action, OrderDate, Retailer, Contact, Address, Product, Price, Quantity, Amount, and Review. The table contains three rows:

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

Below the table are two green buttons: "My Store" and "Refresh". The background of the page features images of various spices and ingredients. The browser status bar shows "SLIDE 24 OF 28", "ENGLISH (INDIA)", and the date "13-04-2022". The operating system taskbar at the bottom shows icons for various applications like File Explorer, Edge, and File Explorer.

10. Retailer home page-

The screenshot shows a Microsoft PowerPoint slide titled "SellerKart App" with a slide number of 25. The slide content is a screenshot of a web browser displaying the SellerKart App's "My Store" page. The browser title is "SellerKart App". The page has a header with "SellerKart" and navigation links "Home", "About", "Contact", "Welcome Akshata", "Profile", and "logout". Below the header is a section titled "My Store" with a table. The table columns are: Product, Limit, and Available Quantity. The table contains seven rows:

	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>

Below the table are three green buttons: "Add New Product", "Previous Orders", and "Ready to Order Products". The background of the page features images of grains and flour. The browser status bar shows "Activate Windows", "Go to Settings to activate Windows.", "29°C", "20:58", "01-04-2022", and the date "01-04-2022". The operating system taskbar at the bottom shows icons for various applications like File Explorer, Edge, and File Explorer.

11. 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 top navigation bar includes links for Home, About, Contact, and Profile. A sidebar on the left features a 'My Store' section with a table of products:

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

Below the table are buttons for 'Add New Product', 'Previous Orders', and 'Ready to Order'. The right side of the screen displays a modal titled 'Add New Product:' with fields for Product Name, Quantity, Threshold Limit, and Unit (kg), along with a 'SUBMIT' button. A status message at the bottom right says 'Activate Windows Go to Settings to activate Windows.' The taskbar at the bottom shows various application icons.

12. Retailer orders page-

The screenshot shows a Windows desktop environment with a browser window open to the SellerKart App at localhost:3000/Retailerlist/8. The top navigation bar includes links for Home, About, Contact, and Profile. A large error message box in the center of the screen displays the text 'we are sorry' and 'No Wholesaler sells this product'. The background features a close-up image of a wooden bowl filled with grains. The taskbar at the bottom shows various application icons.

SellerKart App SellerKart App

localhost:3000/Retailerlist/3

Welcome Akshata | Profile | logout

Wholesalers List for : Shampoo

Wholesaler	Contact	Rating	Quantity	Unit Price	Order Quantity	Total Price	Action
Aksha	9911223344	3	2 packet	Rs.98/packet	<input type="text" value="enter quantity"/>	Rs.0	<button>Order</button>

[My Store](#) [Previous Orders](#)

Activate Windows
Go to Settings to activate Windows.

Type here to search 21:01 29°C ENG 01-04-2022

SellerKart App

localhost:3000/prevorders

Welcome a

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

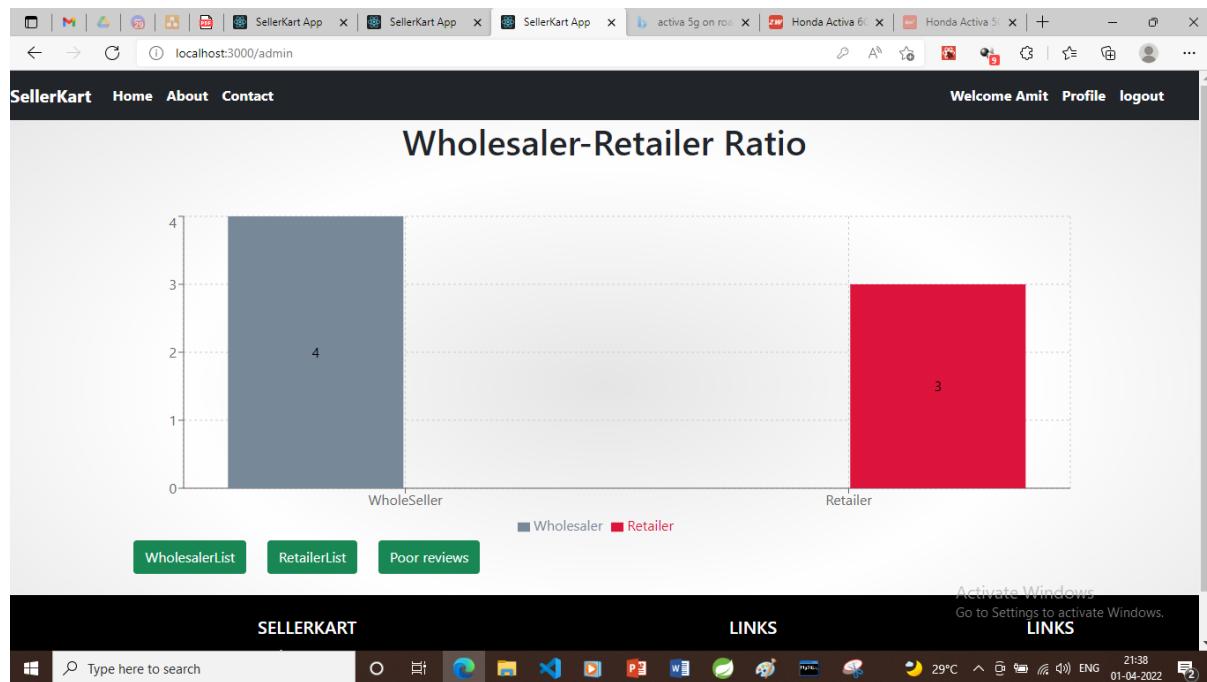
Previous Orders

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 12:06 40°C ENG

13. Admin home page-



14. Review list page-

The screenshot shows a table of reviews listed under "WholesalerList". The columns are: Name, Email, MobileNo, Address, Review, ReviewCount, and Action (with a delete button). There are five rows of data.

Name	Email	MobileNo	Address	Review	ReviewCount	Action
Aksha	wholes1@gmail.com	9911223344	sangli,maha,123123	2	8	<button>delete</button>
Akshata Sunil Naik	akshtanaik2000@gmail.com	998877677	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. At the bottom right is a Windows taskbar.

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](https://docs.spring.io/spring-data/jpa/docs/current/reference/html/)