

## Technologies Used

### **1. Spring Boot (REST APIS)**

I have developed an E-commerce project using Spring Boot 3 and Spring Security 6.

### **2. React JS (Frontend)**

### **3. MySQL for Database**

### **4. Maven for project management**

### **5. Bootstrap (Styling)**

## User Modules in E-Commerce Project

The project basically has four user modules:

### **1) ADMIN MODULE**

### **2) SELLER MODULE**

### **3) CUSTOMER MODULE**

### **4) DELIVERY MODULE**

## Functional Modules in E-Commerce Multi-Vendor Project

### **1) User Authentication Module:**

The registration and Login system has been added so that only authenticated users (Admin, Seller, Delivery, or Customer) can perform their functionalities. For authentication, we have used Spring Security 6 and JWT.

### **2) Seller Module:**

Register Seller, Seller Login, View All Sellers, Delete Seller.

### **3) Product Category Module:**

Add Category, Update Category, View All Category, Delete Category.

### **4) Product Module:**

Add Product, Update Product, View All Products, Search Products by Category, Search Products by Seller, Search By Product Name, Delete Product.

### **5) Cart Module:**

Add Product to Cart, View Cart, Update Cart, Delete Product from Cart.

### **6) Order Module:**

Order Products, View Customer Orders, View Seller Orders, and View All Orders.

## **7) Delivery Person Module:**

Register Delivery Person for Seller, View Delivery Persons, Delete Delivery Person.

## **8) Order Delivery Module:**

Assign Delivery to Delivery Person, View Delivery Person's Order Delivery, Update Order Delivery Status, View Updated Order Status.

# **OVERVIEW**

The E-Commerce Multi-Vendor Shopping Project using Spring Boot and React JS contains 4 modules i.e. Admin, Seller, Delivery, and Customer. Admin can log into the system and add the product categories for which Sellers can add the products. Sellers can register and log into the system, and after login, they can add their delivery persons, can add the products to the system. Now When a customer visits the website for the very first time, he will be able to see the complete products which was added by the seller. Customers can search the products by name, category & seller.

But now since the customer is not logged in to the system, he will not be able to add the products into the cart. After login customer can add the products into the cart. After adding, he can edit the quantity, can delete the cart. After this customer can order the products, after the order we get a unique Order ID.

Once the Customer orders the products, the Seller can see the customer's orders and assign their delivery person for the order delivery to the customer. Once a delivery person is assigned for the delivery, the Delivery Person can log into the system and now he will be able to see the delivery orders that are assigned to him by the seller. And now he can update the Order status at any time. After the Delivery, he can update the delivery time and status as "Delivered". And Now customer can see the updated delivery status of their Orders.

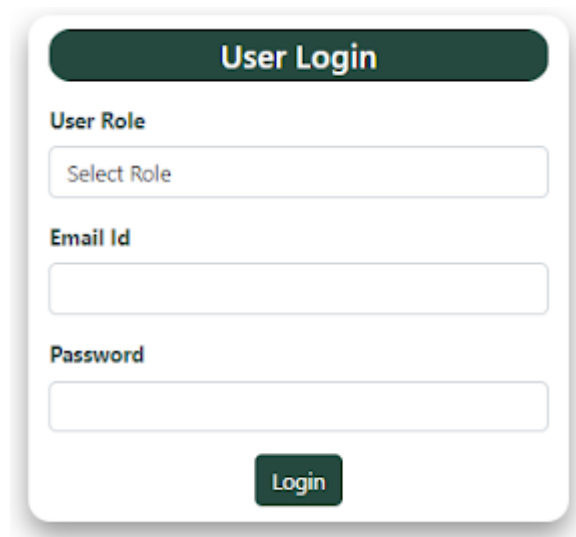
In the end, the Admin can see the complete details about Sellers, Delivery Persons, Customers, Products, and orders.

# **ROLES OF USER**

## **1) Admin will be able to log in to the System.**

When we successfully run our spring boot application, it automatically creates a default Admin with the credential "**demo.admin@demo.com**" as the email and "**123456**" password. So by using this, the admin can log in to the system.

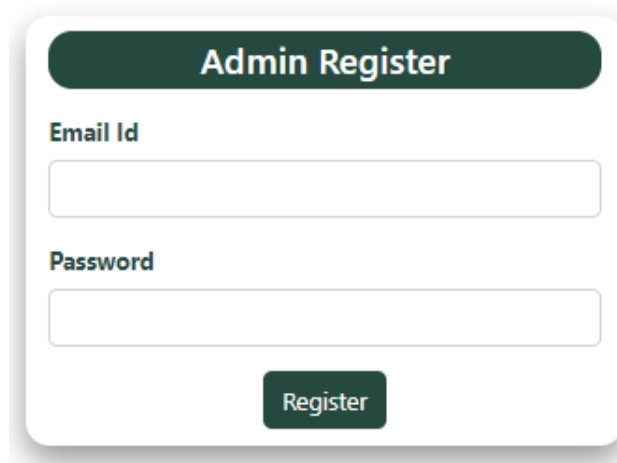
By using the below form, All users (Admin, Seller, Delivery & Customer) can log into the system by selecting the user role.



A user login form with a dark green header bar containing the text "User Login". Below the header, there are three input fields: "User Role" with a dropdown menu showing "Select Role", "Email Id", and "Password". At the bottom, there is a dark green button labeled "Login".

## 2) Admin can register other admins.

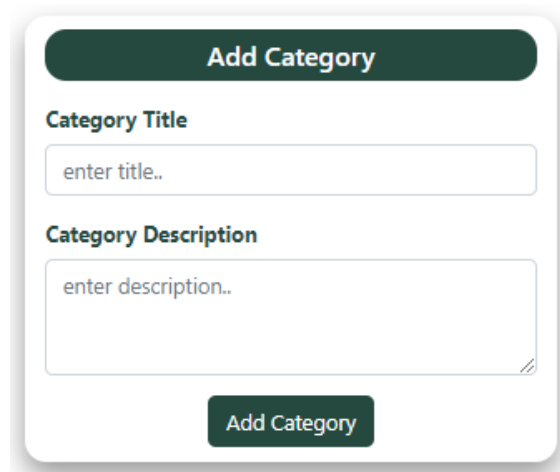
After the Admin login, the admin can register Admins into the system by using the below form.



An admin registration form with a dark green header bar containing the text "Admin Register". Below the header, there are two input fields: "Email Id" and "Password". At the bottom, there is a dark green button labeled "Register".

## 3) Admin can add Product Categories

Admin can add multiple categories into the system and Sellers can add the products from these categories only.



An add category form with a dark green header bar containing the text "Add Category". Below the header, there are two input fields: "Category Title" with placeholder text "enter title.." and "Category Description" with placeholder text "enter description..". At the bottom, there is a dark green button labeled "Add Category".

## 4) Admin can view and delete the sellers

Admin can view all the registered sellers in the system and at any time admin can delete the seller by clicking on the delete button. Once the admin deletes the seller, all products added by the seller will also get deleted and delivery persons of that seller will also get deactivated from the system.

All Sellers					
First Name	Last Name	Email Id	Phone No	Address	Action
Flipkart	Flipkart	flipkart@gmail.com	1597864530	Demo Street, Demo City, 123456	<a href="#">Delete</a>
Meecho	Meecho	meecho@gmail.com	4569638520	Demo Street, Demo City, 123456	<a href="#">Delete</a>





## 5) The Admin can view all the delivery persons from all the sellers.

Admin can view all the registered delivery persons from all the sellers.

All Delivery Persons					
First Name	Last Name	Email Id	Phone No	Address	Seller
Flipkart Delivery	Flipkart Delivery	flipkartdelivery@gmail.com	1234564070	Demo Street, Demo City, 123456	Flipkart
Addu	Meecho	addu@gmail.com	9637411230	Demo Street, My City, 456798	Meecho

## 6) Admin can view all the products.

Admin can view all the products from all the sellers.

My Products						
Product	Name	Description	Category	Quantity	Price	Seller
	White Sports Shoes For Men	Our Shoes are available in eye catching looks and designs. Its very light weight product in this range.	Shoes	99	399	Flipkart
	Farbot Men's Tshirts	These cool, elegant, and stylish t-shirts are made of 100% breathable and comfortable fabric. Extremely useful for daily usage like gym wear, small gatherings.	T-Shirt	150	899	Flipkart
	Chitrarekha Women Gowns	Chitrarekha Women Gowns. Three-Quarter Sleeves with Embroidered Pattern	Gown	146	599	Meecho
	Colour Blocked MAXI DRESS	COLOUR BLOCKED TIERED MAXI DRESS Fabric: Kora Muslin with Short Sleeve	Gown	0	999	Meecho

## 7) Admin can view and delete the product categories

Admin can view all the product categories added by him and he can delete the categories by clicking on the delete button. Once Admin deletes the category, all the products under that category from all sellers will also get deleted.

All Categories			
Category Id	Category Name	Description	Action
1	Shoes	This category will contain all the shoe products	<a href="#">Update</a> <a href="#">Delete</a>
2	T-Shirt	This category will contain all t-shirt products	<a href="#">Update</a> <a href="#">Delete</a>
3	Gown	This category will contain all the women gown products	<a href="#">Update</a> <a href="#">Delete</a>

## 8) Admin can update the Category.

Admin can update the Category by below form.

### Update Category




**Category Title**

**Category Description**

**Update Category**

## 9) Admin can view all the Customer orders.

Admin can view all the customer orders from all the sellers, he can also search the orders by order ID as shown below.

All Orders												
<input type="text" value="Enter Order Id..."/>		<b>Search</b>										
Order Id	Product	Product Name	Category	Seller	Price	Quantity	Customer	Order Time	Order Status	Delivery Person	Delivery Contact	Delivery Time
C976R04MWVRQFQMI		White Sports Shoes For Men	Shoes	Flipkart	399	1	Sonu	9/24/2023, 4:29:34 PM	Delivered	Flipkart Delivery	1239564870	2023-09-30 Night
JTPLKHYCJT/VDTSN		Chitrarekha Women Gowns	Gown	Meezho	599	1	Sonu	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning
JTPLKHYCJT/VDTSN		Colour Blocked MAXI DRESS	Gown	Meezho	999	2	Sonu	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning

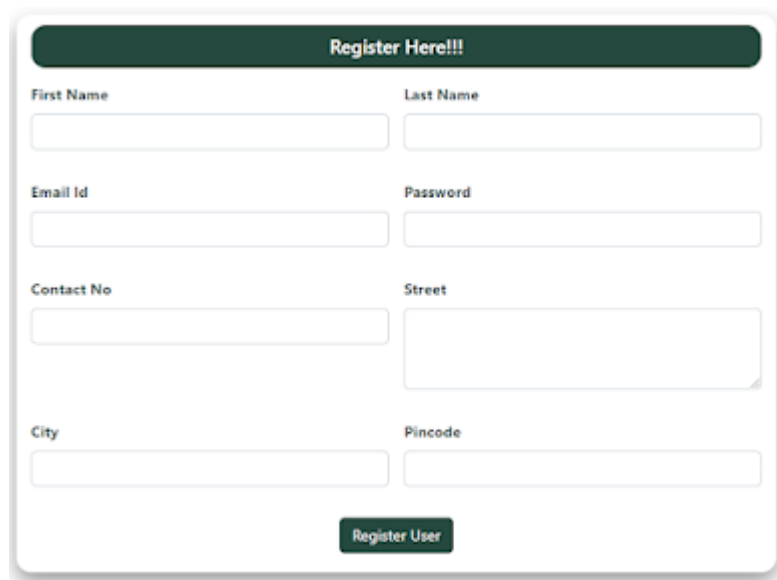
## 10) Admin can view all the Customers.

Admin can view all the registered customers in the system.

All Customers				
First Name	Last Name	Email Id	Phone No	Address
Sonu	Shaikh	sonu@gmail.com	1234567890	Demo Street, Demo City, 123456
Ali	Khan	ali@gmail.com	1234567809	Demo, Demo, 13456

## SELLER ROLE

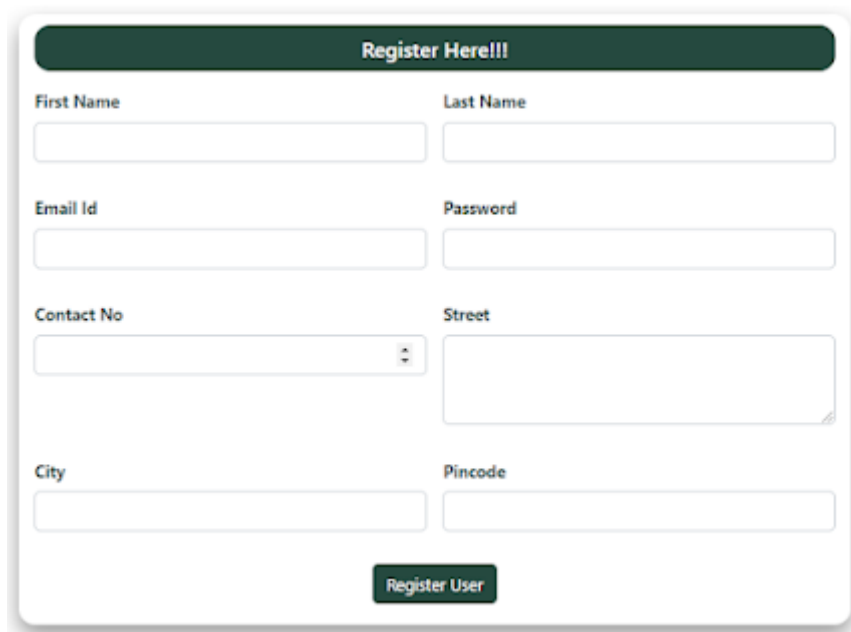
### 1) Seller can register himself by using the below form.



A registration form titled "Register Here!!!" in a dark green header. The form contains eight input fields arranged in four rows and two columns. The first row has "First Name" and "Last Name". The second row has "Email Id" and "Password". The third row has "Contact No" and "Street". The fourth row has "City" and "Pincode". A dark green "Register User" button is centered at the bottom.

Register Here!!!	
First Name	Last Name
<input type="text"/>	<input type="text"/>
Email Id	Password
<input type="text"/>	<input type="text"/>
Contact No	Street
<input type="text"/>	<input type="text"/>
City	Pincode
<input type="text"/>	<input type="text"/>
<input type="button" value="Register User"/>	

2) Seller can register the Delivery Person by using the below form.



A registration form titled "Register Here!!!" in a dark green header. The form contains eight input fields arranged in four rows and two columns. The first row has "First Name" and "Last Name". The second row has "Email Id" and "Password". The third row has "Contact No" and "Street". The fourth row has "City" and "Pincode". A dark green "Register User" button is centered at the bottom.

Register Here!!!	
First Name	Last Name
<input type="text"/>	<input type="text"/>
Email Id	Password
<input type="text"/>	<input type="text"/>
Contact No	Street
<input type="text"/>	<input type="text"/>
City	Pincode
<input type="text"/>	<input type="text"/>
<input type="button" value="Register User"/>	

3) Seller can add his product

The seller can add his products to the system by the below form.

Add Product

**Product Title**

**Product Description**

**Category**

**Product Quantity**

**Product Price**





**Select 1st Image**

**Select 2nd Image**

**Select 3rd Image**

#### 4) Seller can view all his products

The seller can view all the products which were added to him and by clicking on the delete button he can also delete the product.

My Products							
Product	Name	Description	Category	Quantity	Price	Action	
	White Sports Shoes For Men	Our Shoes are available in eye catching looks and designs. Its very light weight product in this range.	Shoes	99	399	<input type="button" value="Update"/> <input type="button" value="Delete"/>	
	Farbot Men's Tshirts	These cool, elegant, and stylish t-shirts are made of 100% breathable and comfortable fabric . Extremely useful for daily usage like gym wear, small gatherings.	T- Shirt	150	899		
	White Solid Casual shoes for men	White Solid Casual shoes for men	Shoes	49	500	<input type="button" value="Update"/> <input type="button" value="Delete"/>	
	Solid Men Full Sleeve Round Neck Tshirt	Solid Men Full Sleeve Round Neck Navy Blue and Dark Grey T-Shirt (Pack of 2)	T- Shirt	100	600		

#### 5) Seller can update his product.

The seller can update any of his products at any time.



Update Product Details

**Product Title**

**Product Description**

**Category**

**Product Quantity**

**Product Price**

Update Product Image

**Select 1st Image**

**Select 2nd Image**

**Select 3rd Image**




## 6) Seller can view and delete Delivery Persons.

The seller can view all the delivery persons which was registered by him and at any time he can delete the delivery persons.

All Delivery Persons					
First Name	Last Name	Email Id	Phone No	Address	Action
Flipkart Delivery	Flipkart Delivery	flipkartdelivery@gmail.com	1239564870	Demo Street, Demo City, 123456	Delete

## 7) Seller can view all his orders.

The seller can view all the customer orders of his products as shown.

Seller Orders													
Enter Order Id...		Search											
Order Id	Product	Product Name	Category	Seller	Price	Quantity	Customer	Order Time	Order Status	Delivery Person	Delivery Contact	Delivery Time	Action
C976R04MWVRQFQMI		White Sports Shoes For Men	Shoes	Flipkart	399	1	Sonu	9/24/2023, 4:29:34 PM	Delivered	Flipkart Delivery	1239564870	2023-09-30 Night	Delivery Assigned
P8L2U6TPHD9SS1ZF		White Solid Casual shoes for men	Shoes	Flipkart	500	1	Sonu	10/3/2023, 12:39:54 AM	Delivered	Flipkart Delivery	1239564870	2023-10-03 Night	Delivery Assigned
P8L2U6TPHD9SS1ZF		Men Solid Polo Neck Cotton Green Tshirt	T-Shirt	Flipkart	300	1	Sonu	10/3/2023, 12:39:54 AM	Delivered	Flipkart Delivery	1239564870	2023-10-03 Night	Delivery Assigned

## 8) Seller can assign a delivery person for an order.

The seller can assign a delivery person for the customer's orders.

### Assign To Delivery Person

Order Id

GF3U3P3H2DR5DSTN

Delivery Person

Select Delivery Person

Assign

Close




1) Customer can register himself by using the below form

**Register Here!!!**

First Name	Last Name
<input type="text"/>	<input type="text"/>
Email Id	Password
<input type="text"/>	<input type="text"/>
Contact No	Street
<input type="text"/>	<input type="text"/>
City	Pincode
<input type="text"/>	<input type="text"/>


Register User

2) Customers can search for products by name.




Category: *Shoes*  
**White Sports Shoes For Men**  
Our Shoes are available in eye catching looks and ...

Add to Cart Price : ₹399




Category: *T-Shirt*  
**Farbot Men's Tshirts**  
These cool, elegant, and stylish t-shirts are made...

Add to Cart Price : ₹899



Category: *Gown*  
**Chitrarekha Women Gowns**  
Chitrarekha Women Gowns. Three-Quarter Sleeves wit...

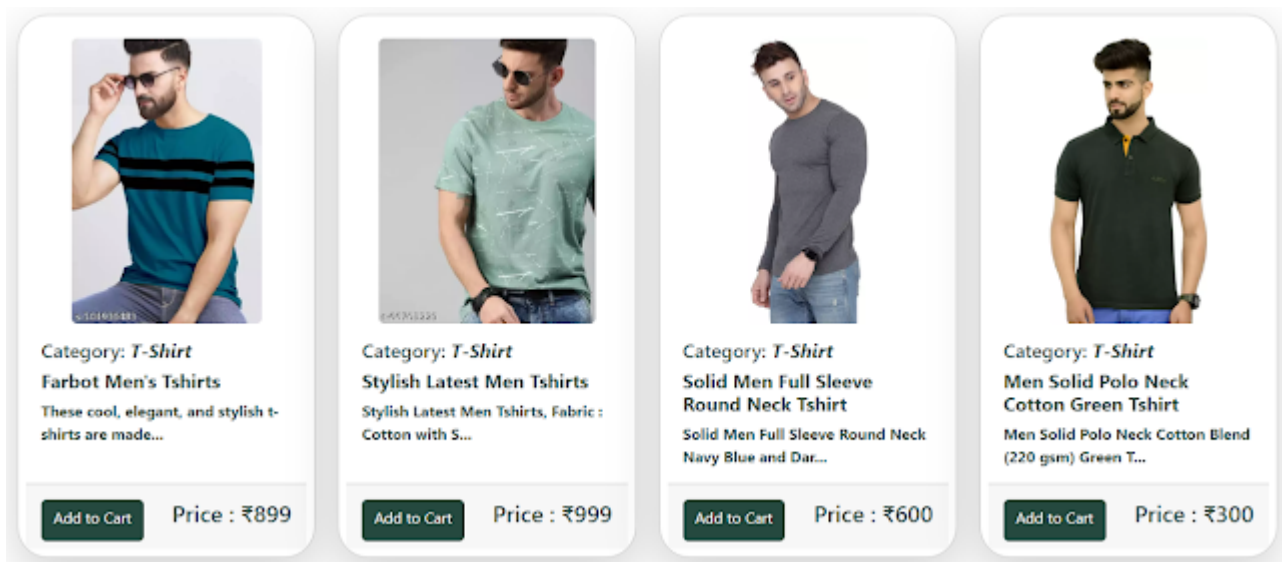
Add to Cart Price : ₹599



Category: *Gown*  
**Colour Blocked MAXI DRESS**  
COLOUR BLOCKED TIERED MAXI DRESS Fabric : Kora Mus...

Add to Cart Price : ₹999

3) Customers can search products by category as shown below.





#### 4) Customers can add products to their cart.

Customers can view product details and add the products to the cart. And here customers will be able to see the product reviews by other customers.



#### 5) Customers can view their cart.

Customer can view the products in their cart, they can increase or decrease the product quantity of products or simply they can delete the product from the cart, and below they will be able to see the total cart amount as shown below.

My Cart						
Product	Product Name	Category	Seller	Price	Quantity	Action
	Farbot Men's Tshirts	T-Shirt	Flipkart	899	- 1 +	Delete
	White Solid Casual shoes for men	Shoes	Flipkart	500	- 1 +	Delete
						Total Price: ₹ 1399/-
						Checkout

After clicking on the checkout button, it will get redirected to the dummy payment page.

Payment Details

Name on Card

Card Number

Valid Through





CVV

Pay Rs 1399

After entering the details, when the customer clicks on the Pay button, the Product will get ordered and we will get a Unique Order ID also all the products from the cart will get deleted.

## 6) Customers can view their orders.





Customers can view all ordered products along with the delivery status as shown below.

My Orders											
Order Id	Product	Product Name	Category	Seller	Price	Quantity	Order Time	Order Status	Delivery Person	Delivery Contact	Delivery Time
C976R04MWVRQFQMI		White Sports Shoes For Men	Shoes	Flipkart	399	1	9/24/2023, 4:29:34 PM	Delivered	Flipkart Delivery	1239564870	2023-09-30 Night
JTPLKHYCJTJVD TBN		Chitrarekha Women Gowns	Gown	Meesho	599	1	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning
JTPLKHYCJTJVD TBN		Colour Blocked MAXI DRESS	Gown	Meesho	999	2	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning
APRZ9GT3Q4FPUVCF		Chitrarekha Women Gowns	Gown	Meesho	599	3	10/3/2023, 12:39:54 AM	Delivered	Addu	9637411230	2023-10-03 Morning

## DELIVERY PERSON ROLE

### 1) The Delivery Person can view Delivery Orders assigned to him

Delivery Person can view all the delivery orders assigned to them by the seller as shown below.

My Delivery Orders													
Enter Order Id...		Search											
Order Id	Product	Product Name	Category	Seller	Price	Quantity	Customer	Order Time	Order Status	Delivery Person	Delivery Contact	Delivery Time	Action
PLKHYCJTJVD TBN		Chitrarekha Women Gowns	Gown	Meesho	599	1	Sonu	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning	Delivered
PLKHYCJTJVD TBN		Colour Blocked MAXI DRESS	Gown	Meesho	999	2	Sonu	9/29/2023, 12:08:05 AM	Delivered	Addu	9637411230	2023-10-02 Morning	Delivered
1Z9GT3Q4FPUVCF		Chitrarekha Women Gowns	Gown	Meesho	599	3	Sonu	10/3/2023, 12:39:54 AM	Delivered	Addu	9637411230	2023-10-03 Morning	Delivered
1Z9GT3Q4FPUVCF		Stylish T-Shirt	T-Shirt	Meesho	999	1	Sonu	10/3/2023, 12:39:54 AM	Delivered	Addu	9637411230	2023-10-03 Morning	Delivered

### 2) The Delivery Person can update the Delivery Status of Orders.

The delivery Person can update the Delivery Status of the orders that were assigned to him by the seller. and the same status will be visible to all i.e. Admin, Customer (who made orders), and Seller.

## Update Delivery Status



Order Id

NM4LWHTSBUNZFTNS

Delivery Date

dd-mm-yyyy



Delivery Time

Select Delivery Time

Delivery Status

Select Delivery Status

Update Status

Close