

# PROJECT REPORT

Inventory Management System

## ABSTRACT

The inventory management System mainly for inventory manager use.

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## PROJECT LINK

## TECHNOLOGY USED

- NextJS13
- Javascript
- TailwindCSS
- MySQL Database
- Rest APIs

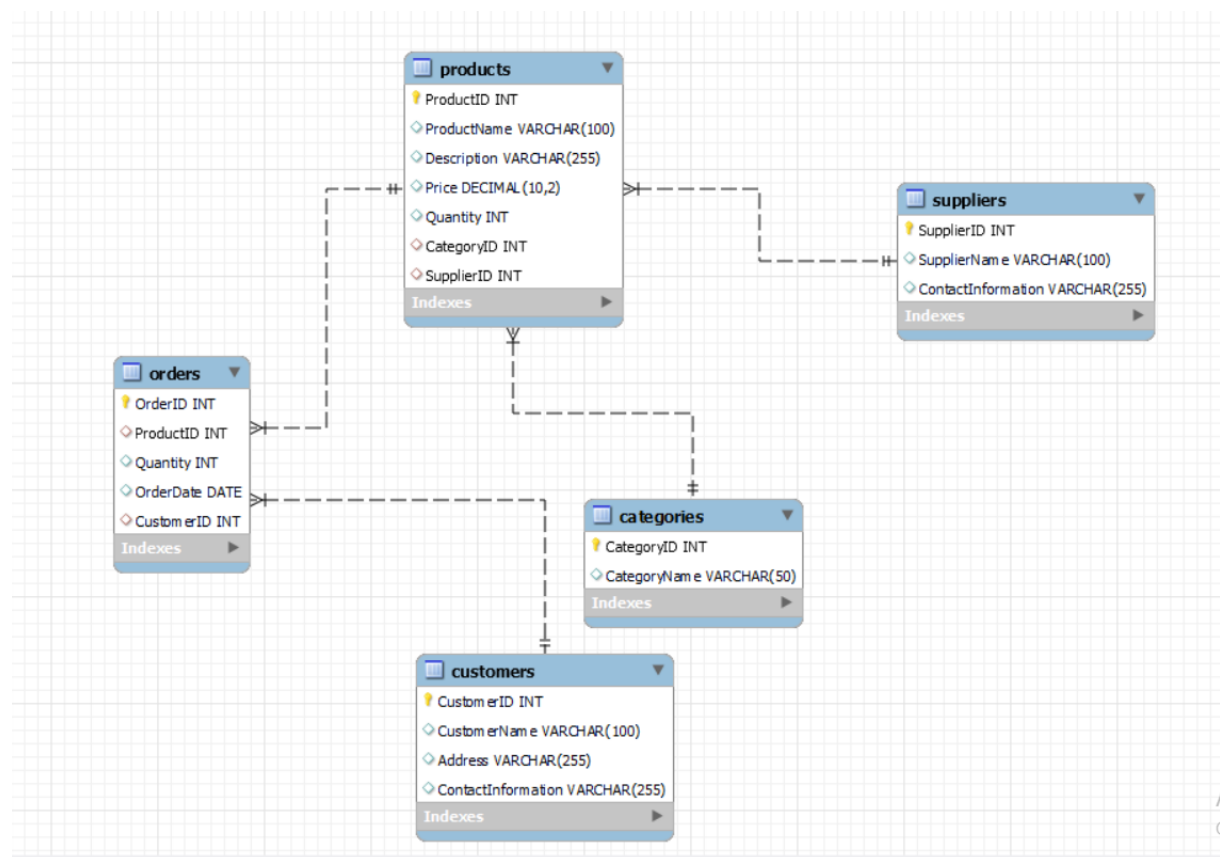
## TEAM MEMBERS

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# INTRODUCTION TO INVENTORY MANAGEMENT SYSTEM

The Next.js 13-based Inventory Management System is a comprehensive solution designed to streamline and optimize your inventory management processes. Leveraging the power of JavaScript, Tailwind CSS, and a MySQL database, our website offers a user-friendly interface with a range of functionalities including CRUD operations. With our system, you can easily add, delete, update, and retrieve products, empowering you to stay in control of your inventory at all times. Moreover, our platform allows you to manage customer information, enabling seamless communication and personalized experiences. You can efficiently create orders. Our system also facilitates categorization of products and tracks the suppliers associated with each product, enhancing organization and simplifying procurement processes. Experience the efficiency and convenience of our Inventory Management System as it empowers you to optimize your operations and achieve better control over your inventory.

## ENTITY RELATIONSHIP DIAGRAM



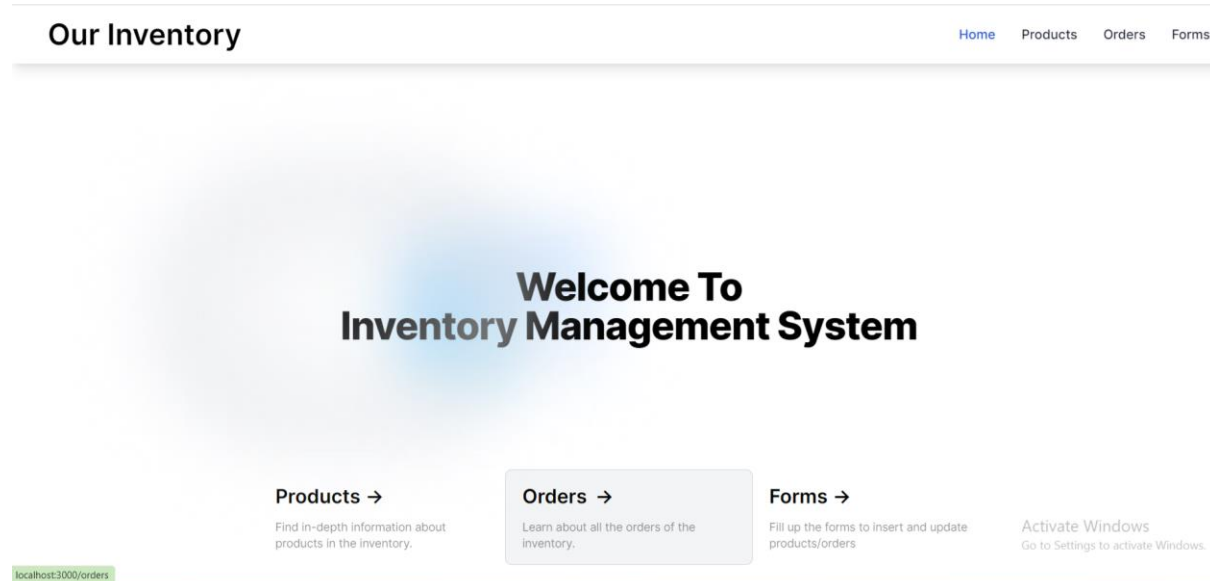
## Flow of Project

This inventory management system has various functionalities for inventory admin's convenience. Following are the pages.

- Home page
- Products page
- Orders page
- Forms page
  1. Add product
  2. Update product
  3. Add customer / Place order
  - 4.

## Home Page

The home page serves as the initial introduction to the website, featuring the inventory logo and a navigation bar that provides access to various pages. The main section of the home page displays small cards that serve as links to different pages, allowing users to easily navigate through the website.



## Products page

The product page provides users with comprehensive product details, including information such as product name, price, quantity, suppliers, and category. Additionally, users have the capability to remove products from the page as long as they have not been ordered yet.

Our Inventory						<a href="#">Home</a> <a href="#">Products</a> <a href="#">Orders</a> <a href="#">Forms</a>
PRODUCTS						
PRODUCT ID	PRODUCT NAME	PRICE	QUANTITY IN STOCK	CATEGORY	SUPPLIER'S NAME	
1	Laptop	1500.00	10	Electronics	Parco Electronics	Delete
2	T-shirt	20.00	50	Clothing	Jimmy Clothing	Delete
3	Sofa	80898.00	20	Furniture	Pure Furniture	Delete
4	Python Programming Book	30.00	20	Books	Find Books	Delete
5	Cricket Bat	120.00	10	Sports	Sports Emporium	Delete
6	Action Figure II	15.00	30	Toys	Toys Unlimited	Delete
7	Football	25.00	15	Sports	Sports Emporium	Delete

## Orders Page

The orders page displays a comprehensive view of all the orders placed within the inventory, presenting detailed order information such as customer ID, product ID, quantity, and the total amount for each product ordered.

**Our Inventory** [Home](#) [Products](#) [Orders](#) [Forms](#)

### ORDERS

ORDER ID	ORDER DATE	CUSTOMER ID	PRODUCT ID	QUANTITY	AMOUNT
1	May 01 2023 12:00:00AM	1	1	2	5000
2	May 02 2023 12:00:00AM	2	2	3	5000
3	May 03 2023 12:00:00AM	3	3	1	5000
4	May 04 2023 12:00:00AM	4	4	2	5000
5	May 05 2023 12:00:00AM	5	5	1	5000
6	May 06 2023 12:00:00AM	6	6	4	5000
7	May 07 2023 12:00:00AM	7	7	2	5000
8	May 08 2023 12:00:00AM	8	8	1	5000
9	May 09 2023 12:00:00AM	9	6	3	5000
10	May 10 2023 12:00:00AM	10	4	2	5000

34°C Mostly sunny Search 7:21 PM 7/2/2023

## Forms Page

This page offers three distinct options for users to choose from: adding a product, updating a product, and placing orders.

- Add Product Form

The "Adding Product" form component is utilized within the forms page. It allows users to insert a new product record into the database table. All fields in the form must be filled with valid data types. Upon submitting the form, a popup will be displayed to indicate the successful insertion of the product.

Our Inventory

HomeProductsOrdersForms

Product FormUpdate Product FormOrder Form

Add a new product

Product Name

Mobile Phone

Category

Electronics

Price

70000

Supplier Id

Parco Electronics

Quantity

20

Description

Smart Phone

Add product

Activate Windows  
Go to Settings to activate Windows.

- Update Product Form

The update product form component is utilized in both the forms page and the update product page. This form enables the modification of a specific product record in our database table. Initially, the form prompts the user to search for the product to be updated by submitting its ID. Upon submission, if the record is found, its details will populate the form, allowing the user to update all fields except for the category and suppliers. Upon submitting the form, the corresponding record will be successfully updated.

Our Inventory

HomeProductsOrdersForms

Search Product

2

Search

Update Product 2

Product Name

T-shirt

Category

Clothing

Price

20.00

Supplier Id

Jimmy Clothing

Quantity

50

Description

Cotton t-shirt

Update product

Activate Windows  
Go to Settings to activate Windows.



- Place Order Form

The "Place Order" form is a reusable component utilized on the forms page. This form initially prompts for the customer's name, determining whether the customer already exists in the inventory system. If the customer is already registered, the order is directly placed for them. However, if the customer is new, their details such as name, contact information, and address must be inserted before placing the order. The order details encompass the selected product, desired quantity, and the current date is automatically recorded upon data insertion. Through this process, an order is successfully placed.

The screenshot displays a web browser window with the URL `localhost:3000/forms`. The page title is "Our Inventory". The navigation bar includes links for "Home", "Products", "Orders", and "Forms". Below the navigation bar, there are three buttons: "Product Form", "Update Product Form", and "Order Form". The main content area features a "Search Customer" section with a text input field containing the letter "a" and a "Search" button. Below this is a "New Customer" section with three input fields: "Customer Name" (containing "M. Usman"), "Address" (containing "abc street karachi"), and "Contact Information" (containing "1248555"). A "Submit Customer Info" button is located at the bottom of the form. The Windows taskbar at the bottom shows the system clock as 7:29 PM on 7/2/2023, along with weather information (34°C, Mostly sunny) and various application icons.

