Online E-commerce System

Team 13				
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Revised ER Diagram:
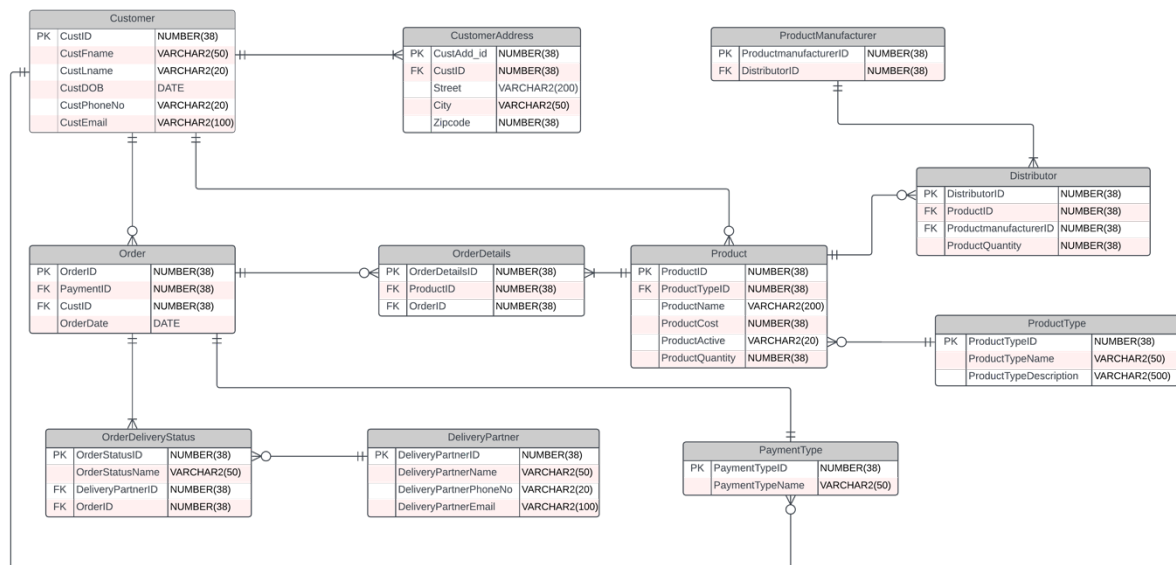
Mission Statement:

The purpose of this project is to develop a database for eCommerce Management System, this will be used by Admins and Vendors to add products to the inventory and to perform certain searches and generate reports.

Database Purpose:

The purpose of this database is to maintain and provide data as it is created or required during a transaction of an E-Commerce website. The database will be used by the admins, vendors, and customers of the website.

Business Problems Addressed:

- Allow admins to monitor items, orders etc being added or removed from the site.
- Allow vendors to monitor their products and add or delete items.
- Allow customers to explore products available.

Business Rules:

- A Product can have one and only one category.

- A Product can have zero or one sub-category.
- A Product can have one and only one Brand.
- A Product can have one or many attributes.
- A Product Category can have zero or more products.
- A Product Sub-Category can have zero or more products.
- An Order can have one or multiple products.
- An Order can have one and only one payment option.
- An attribute group can have one or many attributes.
- A User can have one or many address.
- A User can have one or more order.
- Product Quantity in Product Table should be less than the Product Quantity in Distributor Table
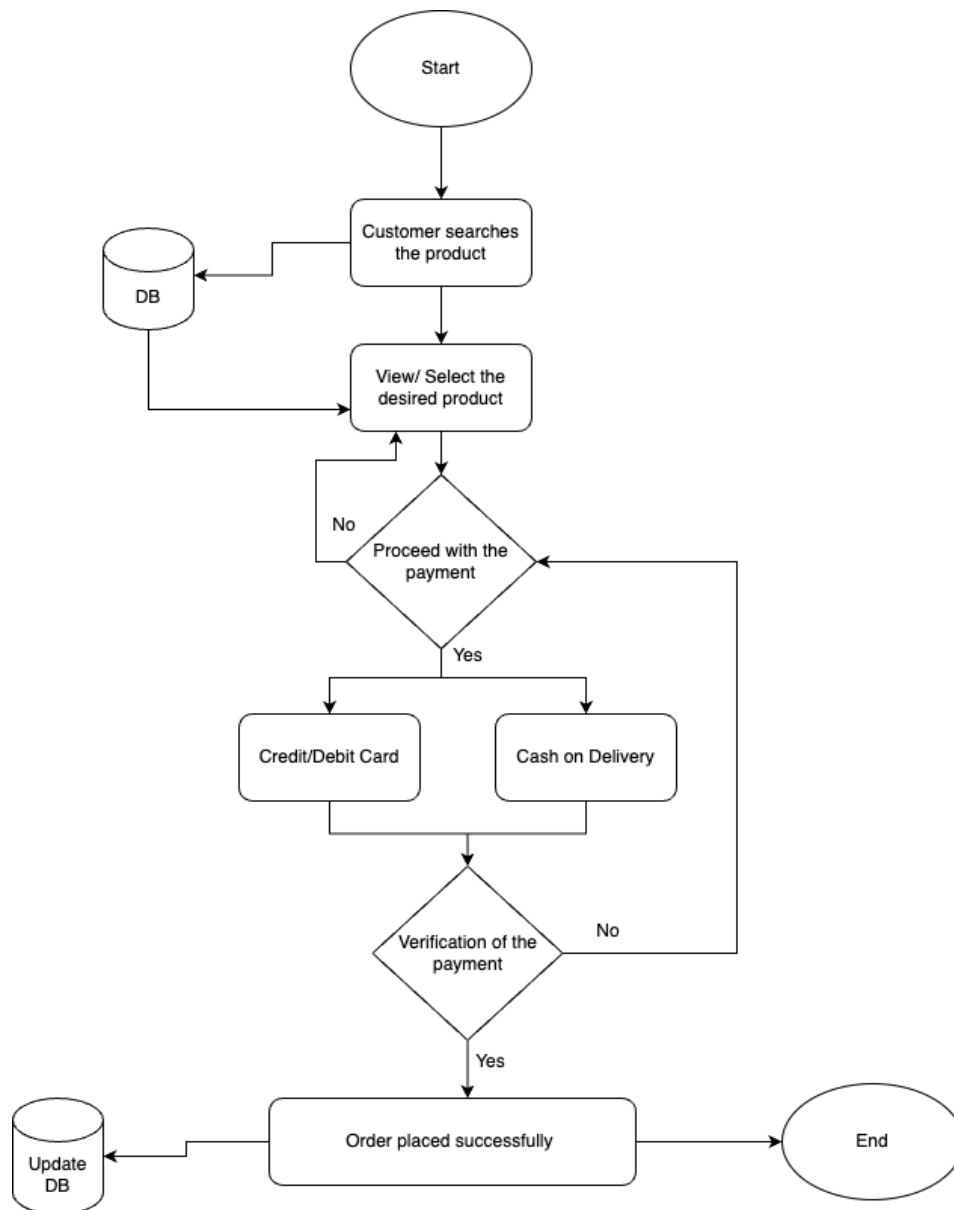
Views:
1. Order_total: Total cost of all the product of single order.
2. Payment_total: Total amount to pay for the product linked with single order.
3. Total_purchase_of_individual_customer
4. Zone_wise_sale

Data Flow Diagram:

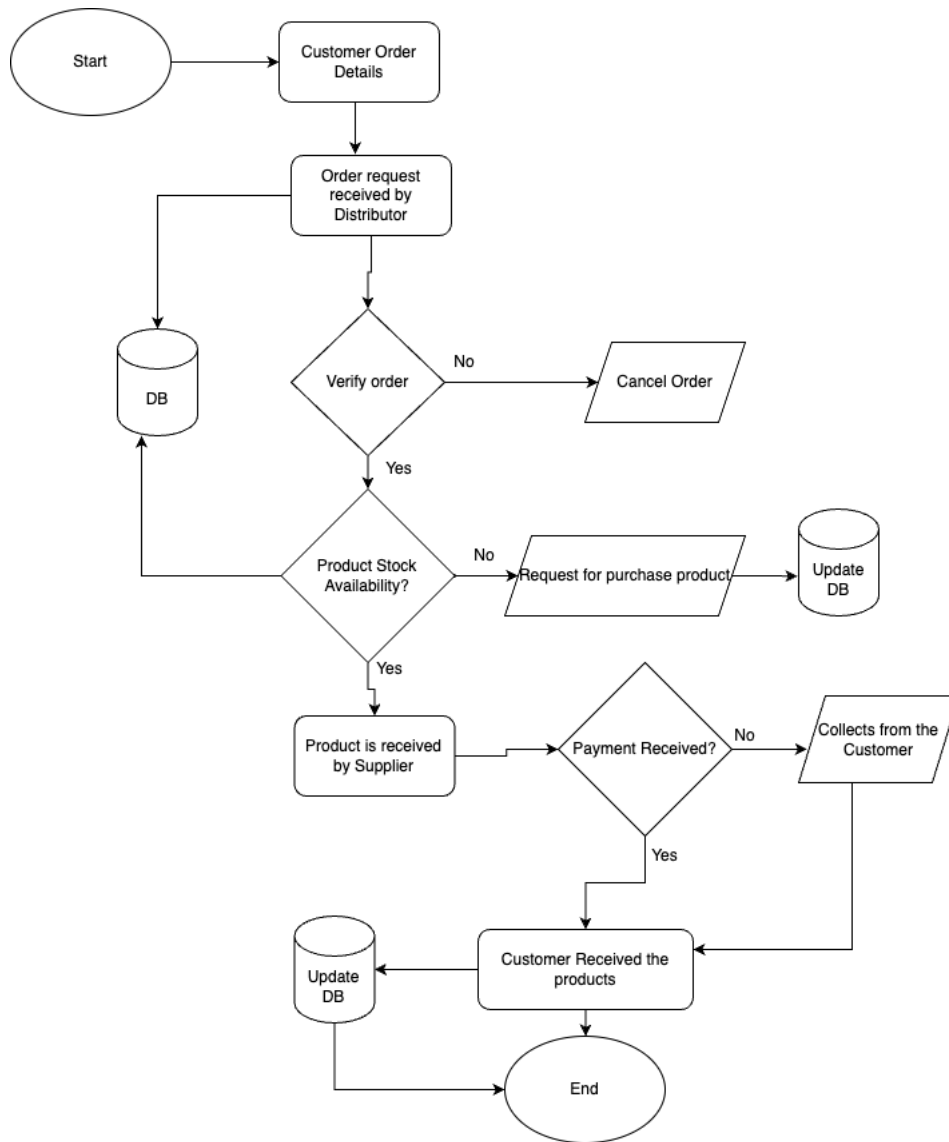1. Login/Customer Onboarding Flow:
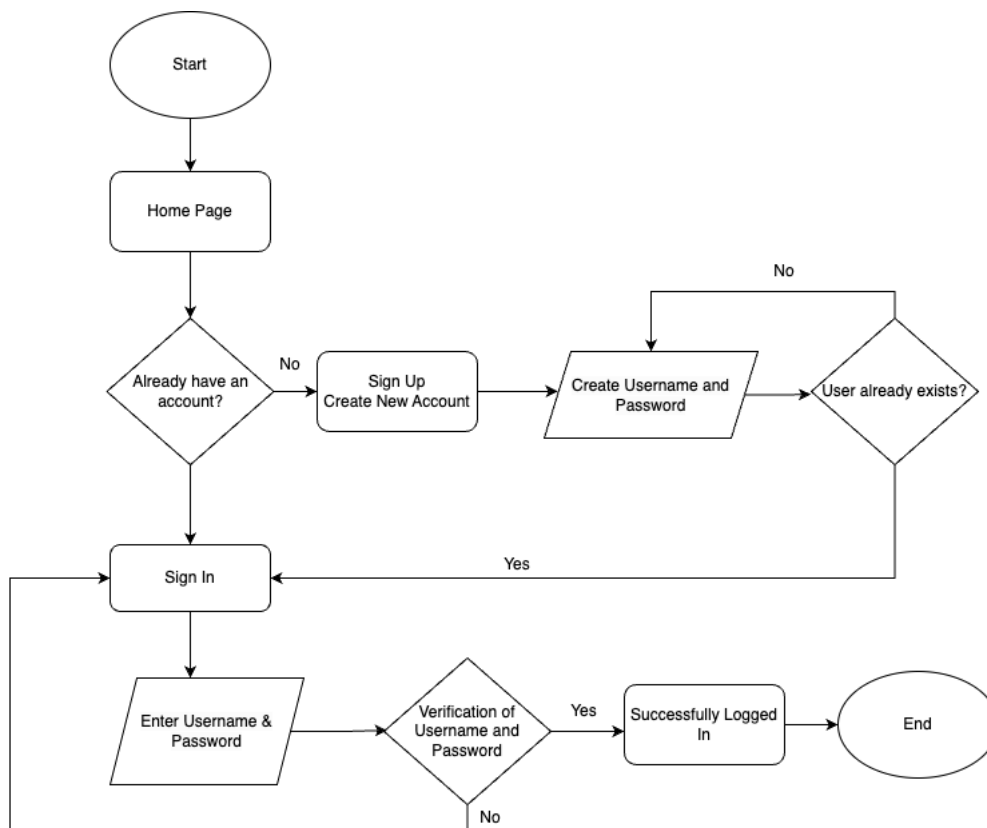
2. Search and Customer Transaction Flow:

3. Distributor and Supplier (Product Supply) Flow:

ROLE 1 - ADMIN:

	CREATE	VIEW	UPDATE	DELETE
Order details	☑	☑	☑	☑
Product	☑	☑	☑	☑
Product type	☑	☑	☑	☑
Payment type	☑	☑	☑	☑
Order delivery status	☑	☑	☑	☑
Customer Address	☑	☑	☑	☑
Customer	☑	☑	☑	☑
Order	☑	☑	☑	☑
Product Manufacturer	☑	☑	☑	☑
Distributor	☑	☑	☑	☑
Delivery Partner	☑	☑	☑	☑

ROLE 2 - CUSTOMER:

	CREATE	VIEW	UPDATE	DELETE
Order details		☑		
Product		☑		
Product type		☑		
Payment type		☑	☑	
Order delivery status		☑		
Customer Address		☑	☑	☑
Customer		☑	☑	☑

Customer can only access their personal information and perform view, update, and delete commands. In case if any customer is trying to access other information; an error statement would be displayed.