

REQUIREMENTS ELABORATION. Phase – 2.

Project: E-Commerce Website.

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Requirements Elaboration Document

1: Abstract:

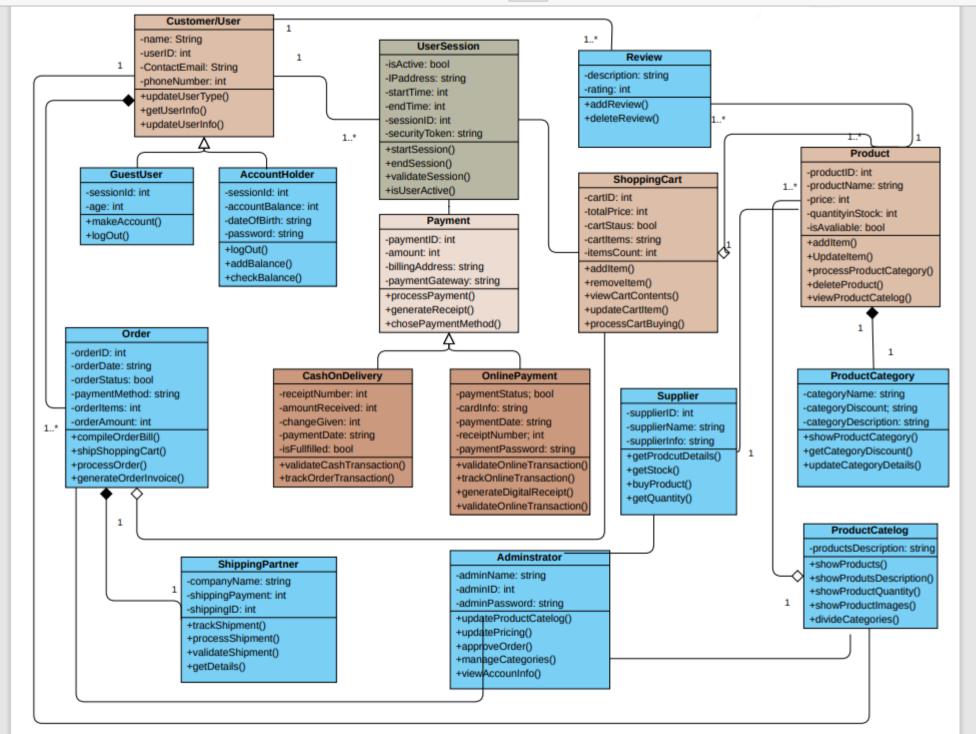
Our main goal is to make online shopping easier for our customers by creating a new website for our store. Our current website isn't very good, and it's hard for people to find and buy the products they want. So, we're building a new website that will be easy to use and will have lots of different products for sale. To do this, we'll use different computer languages to build the website. Think of it like building a house - we'll use bricks and cement (HTML, CSS, JavaScript) for the front of the house, and strong foundations (Node.js and MongoDB) for the back. This will make sure the website works smoothly for everyone. Our team, which includes Saim Imran, Talha Tofeeq, Azfar Nayyan, and Abdullah Shafqat, is working hard to make this new website great. We want it to be full of useful features and easy for people to use when they shop online.

2: Scope:

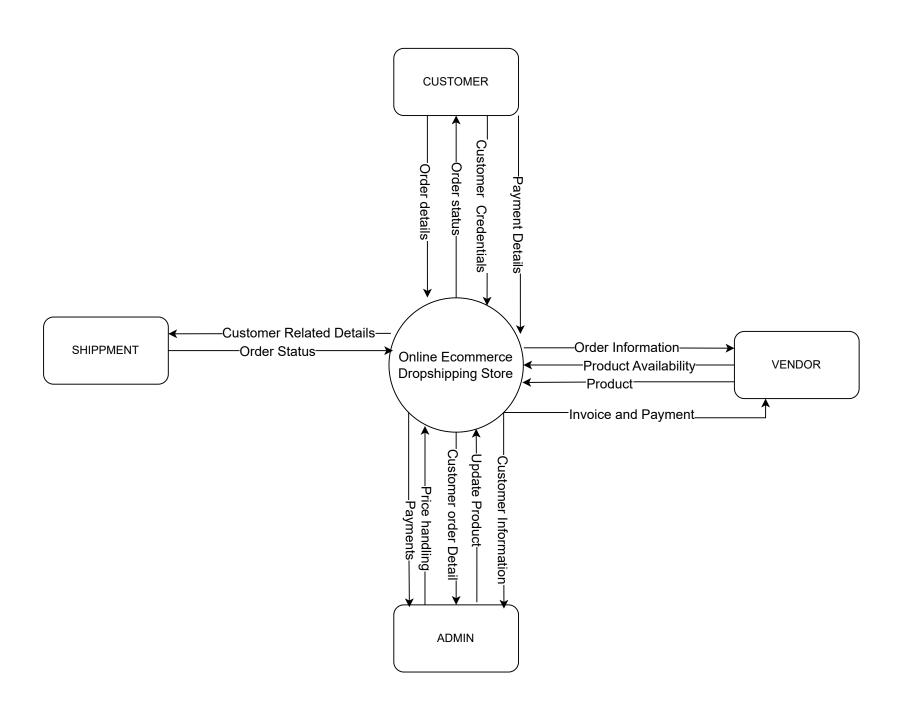
The e-commerce website project involves creating a complete online store with a wide range of products in different categories. This project will include features like allowing users to sign up, managing the list of products, letting customers add items to a cart, ensuring safe payment, and giving users a personalized shopping experience. The goal is to make a website that works well on different devices, keeps customer information safe, and is easy for people to use. It will also follow all the rules about protecting customer data and will offer many useful shopping features.

3: Features:

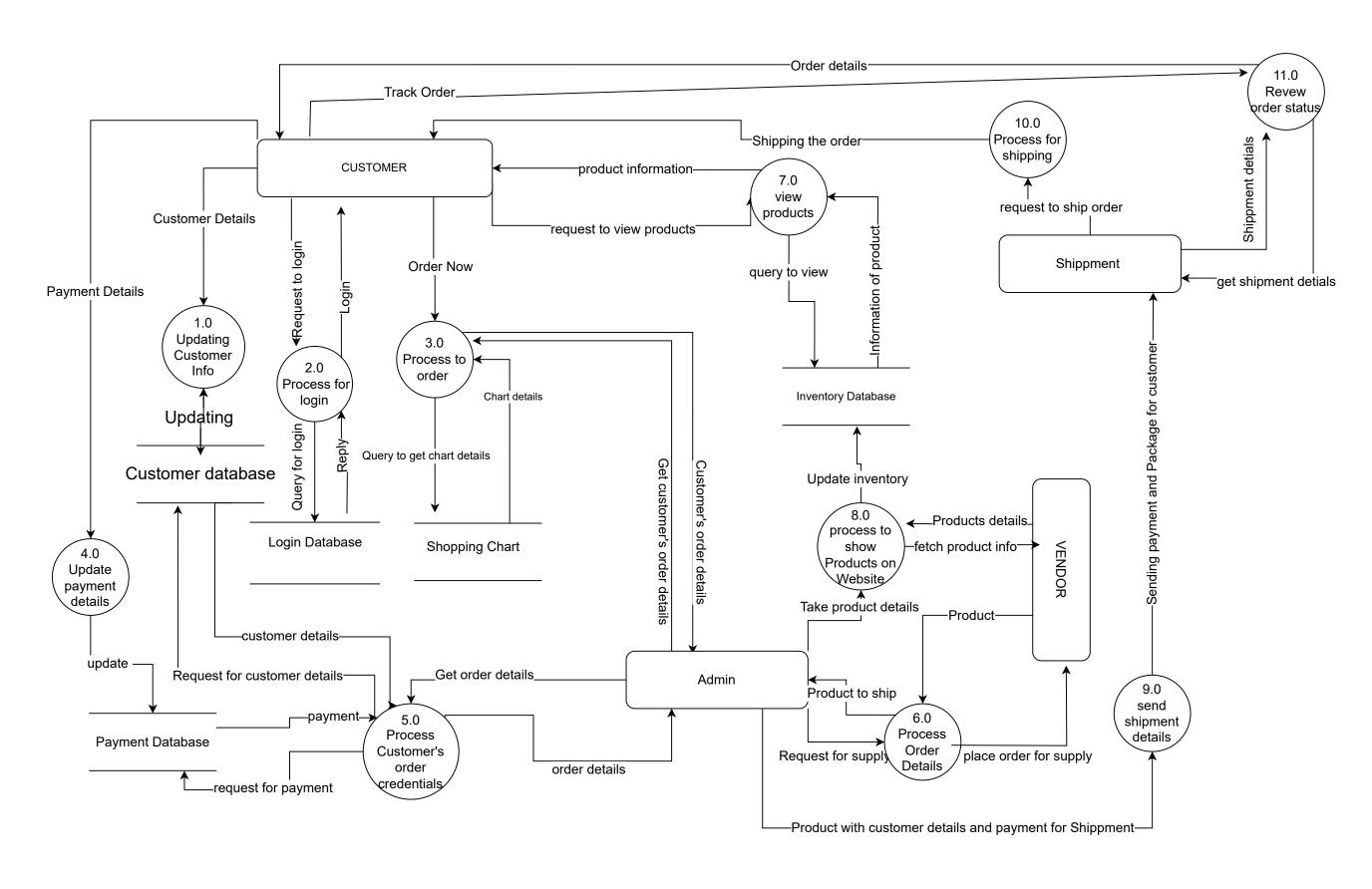
- User Authentication: User accounts with secure login and registration processes.
- Product Catalog: A well-organized product catalog with categories and subcategories. Also, detailed product data with images, descriptions and prices.
- Shopping Cart and Checkout: A customer shopping cart to add, edit, or remove items. Also, secure checkout process with multiple payment options
- User Reviews: Allow customers to leave reviews for products and show them to customers before buying.
- Inventory Management: Real-time inventory tracking and add, edit, or remove options for store admin.
- Order History for Customer: Customers can view their order history and can track their purchased items.
- Customer Wallet: Customer wallet which includes the customer money and customer can add more money to wallet.
- Product Sharing: Customer can share products to others on different platforms.
- Product search: Customer can search for desired product.
- User Account Dashboard: Customer profiles with order history, wallet and shopping points.
- Discount Code: Allow customers to use the discount code at the time of billing (if any).



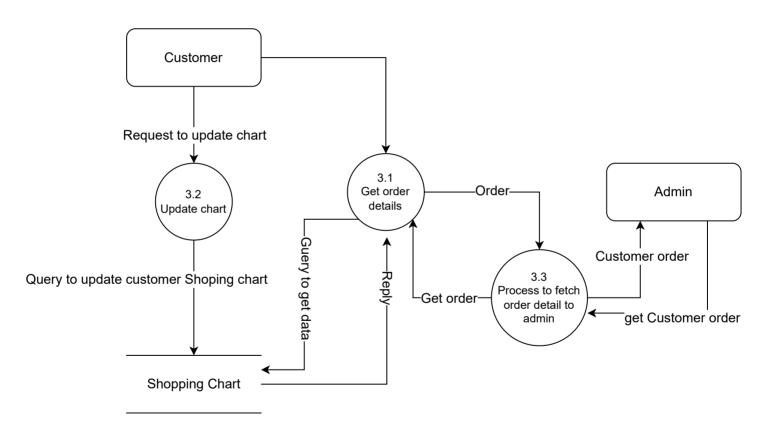
Context Diagram



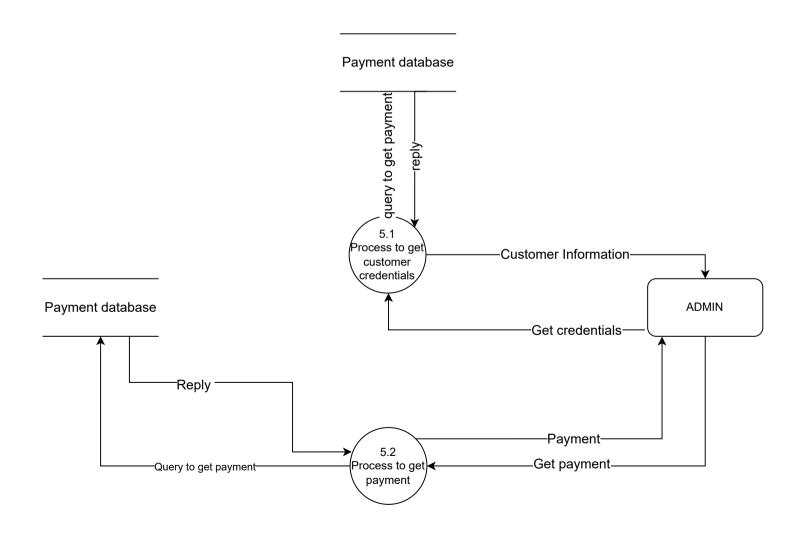
DFD LEVEL 0



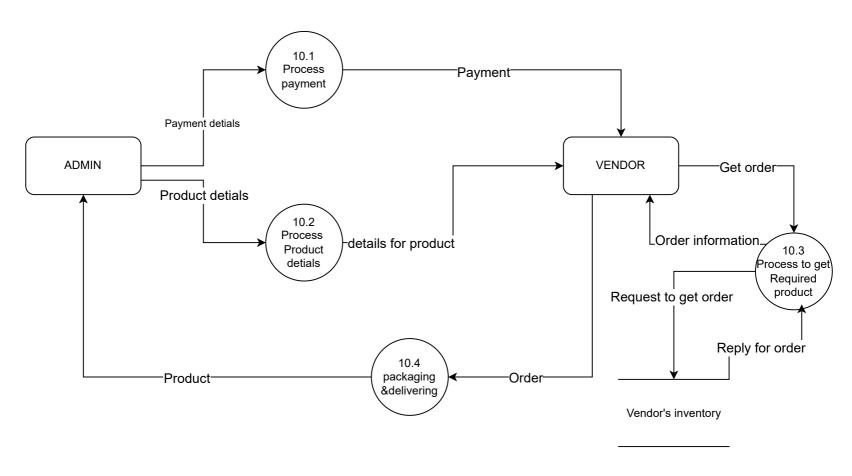
DFD LEVEL 1 FOR 3.0 Process to order



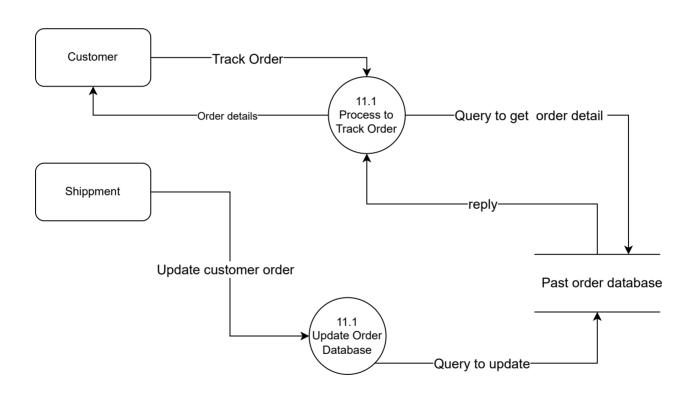
DFD LEVEL 1 FOR 5.0 Process customer order credentials

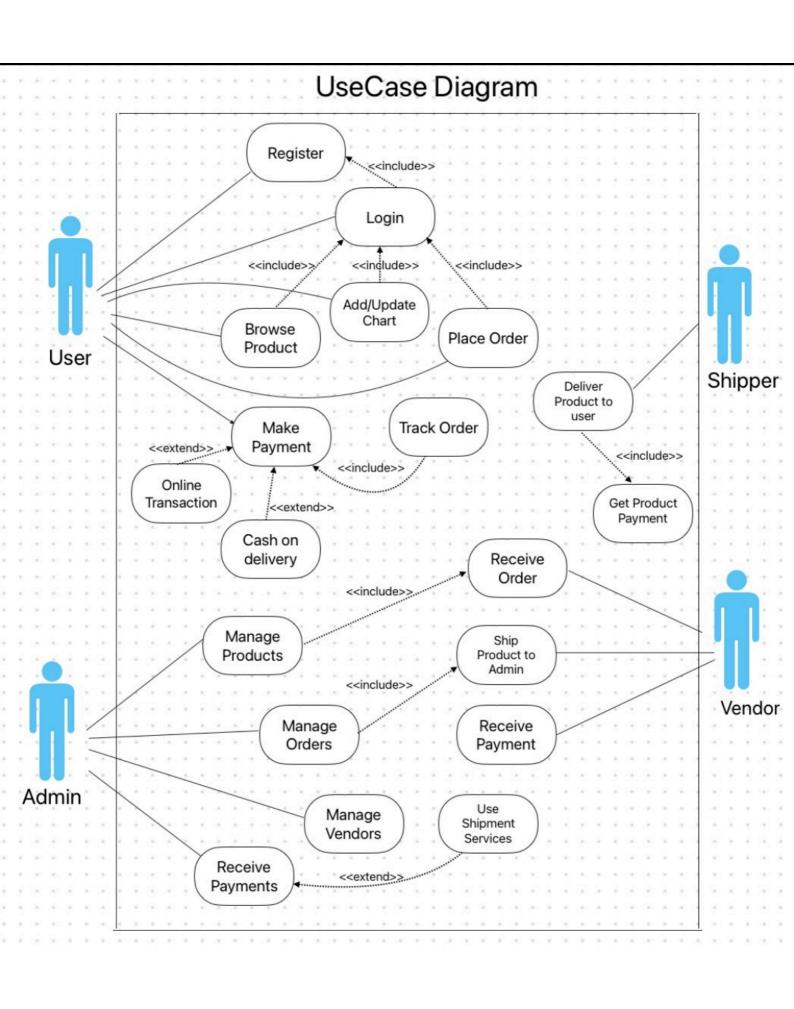


DFD LEVEL 1 FOR 6.0 Process order details

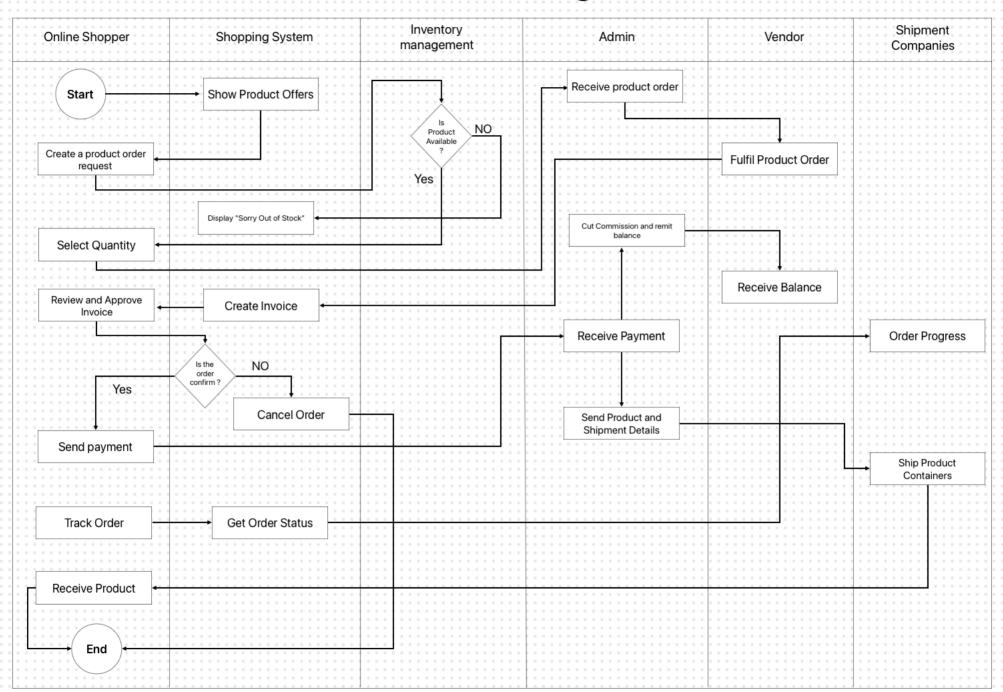


DFD LEVEL 1 FOR 11.0 Review Order Status

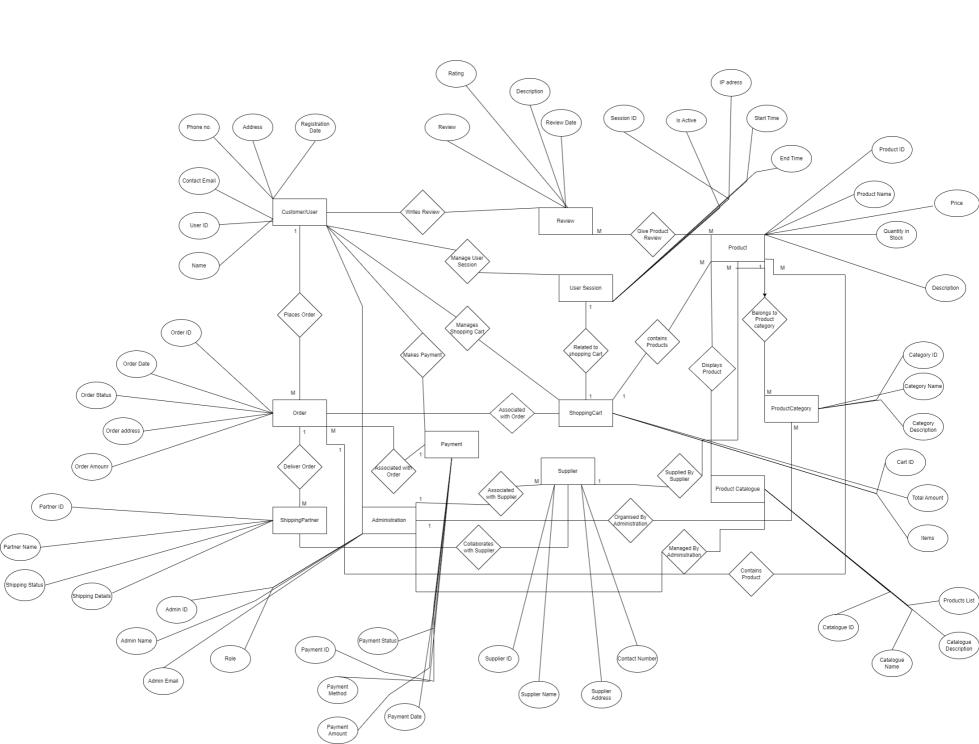




Swimlane Diagram



Entity-Relationship Diagram (ERD)



14: Conclusion:

The development of this eCommerce website presents an exciting opportunity to enter the thriving eCommerce market. By delivering a user-friendly platform with a diverse product range, we aim to meet the evolving needs of online shoppers and establish a successful and profitable online business.

15: References:

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- Smith, J. (2023). E-commerce Website Design Trends.
- Johnson, A. (2022). Payment Gateway Integration in E-commerce.
- Patel, R. (2022). Personalization Techniques in E-commerce.
- Williams, S. (2023). Best Practices for E-commerce Website Security.