

# **DMDD PROJECT**

## **TOPIC: E-Commerce**

### **Background:**

Database management for E-commerce systems is very crucial as the entire application is dependent on storing, organizing, and retrieving data. The E-Commerce Database management system is divided into three roles: Administrator, Customer, Supplier/Vendor, The administrator's entry is accessible only to business owners. Its primary purpose is to allow business owners to manage their product inventory, deal with orders. A Customer can perform many actions such as buying items, saving for later in the shopping cart, users can add filters to the products based on the categories. In addition to that users can authorize payment transactions using different Credit cards, Debit cards, and digital payment methods like PayPal. We also have a Vendor portal where vendors can add multiple goods listings with associated categories to the Database. These records are fetched and displayed in the customer-facing portal as well as a vendor-facing portal. With this model, we can create an E-commerce platform that enhances User experience and simplify the shopping experience.

### **Objectives:**

1. To store products with metadata such as price, categories, purchase information, and vendor name
2. To perform CRUD operation on the product
3. Store Customers purchase history
4. Integrating a third party payment authorization
5. Implementing Column data encryption for sensitive user data
6. Developing search & filter option with regard to user requirements
7. Customer can raise a request for Return/Exchange/Refund
8. Additional features include adding to favorite, gifting, and priority delivery