DMDD PROJECT

Database Design Document

TOPIC: E-Commerce

GITHUB LINK: https://github.com/SanghaviArchie/DMDD-Project

Data Modeling Link: Data Model Design

Group 2 - Team Members:

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Entities:

- User, Product, Favourite, Product Details, Brands, Category, Cart, Orders, Order Details, Payment, Return/Exchange/Refund, Delivery

Flow:

There are three possible Roles/Logins applicable.

- Vendors:
    - Log in as a vendor and can add multiple **Product** listings based on different **Categories** and **Brands.**
    - **Vendors** can add/delete **Products** from the application.
    - **Vendors** need to pay an amount to upload **Products** into the application.
- Admin:
    - Manages the other roles in the application.
    - Grants permission to the roles.
- Customer:
    - A **Customer** can log in and browse various **Products** using filters like **Categories**, and **Brands**.
    - A Customer can view all the metadata of a Product like a price, brand, category, description.
    - A **Customer** can add **Products** to his **Cart** and place an **Order**
    - A **Customer** can review his **OrderDetails** and proceed with **Payment** using various **Payment** methods like a credit card, debit card, digital payment methods like Paypal.
    - A **Customer's** sensitive information like a credit card, debit card details are encrypted.
    - A **Customer** can choose his address and **Delivery** options like Priority delivery.
    - A **Customer** can Return/Exchange a **Product** within an **Order.** In the case of **Return**, the amount will be **Refunded** using the same mode of **Payment.**
    - A **Customer** can create his own **Favourite** Product List for future/regular usage.

Brands

Manufactured

Category

Favorite

Product Details

Categorized

Customer

TYPE : "C"

VENDOR

TYPE : "V"

d

USER

Browses

Is Marked

Includes

Admin

TYPE : "A"

Product

Is Added

Cart

Checked Out

Order Details

Contains

Delivery

Is
Shipped

Orders

Authorized by

Requested
for

Return/Exchange/Refund

Payment