DBMS Project Overview
Gada Electronics Online Retail Store

Group 10

Vikranth Udandarao - 22570, Tharun Harish - 22541,
Hemanth Dindigallu - 22212, Aditya Prasad - 22036

Project Scope

Gada Electronics Online Retail Store aims to create an efficient online platform offering a diverse range of electronic products. Customers can seamlessly browse, purchase, and track orders. Warehouse managers have tools to manage inventory effortlessly. The system integrates loyalty programs and location-based trends for an enhanced user experience.

Functional Requirements

Customer Module

1. **Sign Up / Login:**

   - Customers can create accounts using their name, email, phone number, and a password.
   - Login using email/phone and password and then add or select the address.

2. **View Products:**

   - Customers can browse products categorized into different electronic types (Laptops, Mobile Phones, etc.).

3. **Add to Cart:**

   - Customers can add products to their cart for future purchase.

4. **Payment:**

   - Customers can make payments for their orders.

5. **Buy:**

   - Confirm and complete the purchase.

Warehouse Manager Module

1. **Sign Up / Login:**

   - Warehouse managers can create accounts using their name, email, phone number, and a password.
   - Login using email/phone and password.

2. **Manage Products:**

   - Add, update, and delete products.
   - Update product descriptions.

Features

1. **Loyalty:**
   - Implement a loyalty program to reward repeat customers.

2. **Location-Based Trends:**
   - Analyze customer data to provide location-based product recommendations and discounts.

Database Entities

Customer Entity
- **CustomerID (Primary Key)**, Name, Email, Phone no, Password

Address Entity
- **AddressID (Primary Key)**, **CustomerID (Foreign Key)**, Address detail

Product Entity
- **ProductID (Primary Key)**, Manufacturer, Name, Price, Description, Quantity, Discount

Technical Requirements

- **Front End**: HTML, CSS, JavaScript
- **Back End**: Flask, Python
- **Database**: MySQL