

DBMS | CSE202

PROJECT SCOPE

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ONLINE ELECTRONICS RETAIL STORE

BANDWIDTH ELECTRONICS

A Robust Database Management System for an E-commerce Platform Specializing in Electronics. The system aims to efficiently manage information associated with an online electronics retail store, offering a diverse range of products. Key functionalities include handling customer information, managing inventory, processing sales, tracking financial data, and providing statistical insights.

Users Can :

- Authenticate themselves on the application
- Search for components and filter results based on preferences
- Explore products compatible with their selected items
- View purchase history
- Provide product ratings and reviews.

Store Manager(s) Can :

- Add or remove products.
- Manage offers and discounts.
- Specify product quantity and availability in warehouses.
- Access store statistics, including inventory, registered users, and revenue.

REQUIREMENTS

Functional :

1. **User Registration and Authentication:** New users can register and log in.
2. **Product Searching and Filtering:** Search products by name, type, brand, etc. Filter Products on the basis of prices, ratings, etc.
3. **Shopping Cart Management:** Users can update their cart with products. Users can also view amount , delivery time, delivery address, etc.
4. **Update Inventory and Catalogue:** Admin can update product availability. Add new products. Delete Products. Edit Product Details/Properties.
5. **Provide Offers:** Admin can update product offers and discounts. Here some constraints can be added for e.g., if user purchases using online payment methods rather than COD then they can avail additional discount of 10% , etc.
6. **View Store Statistics:** Admin can access information about revenue generation, inventory, product sales, etc.

Technical :

1. **Web Application Interface:** Intuitive and user-friendly design. Seamless signup/login process. Display highest-rated or discounted products upon authentication.
2. **User Experience:** Users can search and filter products easily. Explore products based on categories, ratings, and brands. Updated cart management with a smooth checkout process.
3. **Database Management:** Track registered users and products with defining attributes. Efficiently manage brand names, prices, features, ratings, warranty, etc. Cart management for selected items with flexible update

Tools And Technologies I plan to work with:

1. **Front End Framework:** HTML , CSS
2. **Back End Framework:** Python with Flask
3. **Database Management System:** Mysql
4. **Version Control:** Github
5. **Development Environment:** Visual Code Studio