EcoFashion Management System

Background:

In today's digital world, the widespread use of the internet has made it easier for consumers to purchase their clothing needs online. However, on the manufacturer side, there is still a salient problem of damaged clothing that is eventually discarded in dump fills or destroyed. With the current shift in consumer trends to be more sustainable and fashionable, our EcoFashion House procures products destined for disposal from brands and resells on our platform. This will help us reduce wastage, and encourage sustainable fashion. This background lays the groundwork for a creative solution that responds to environmental issues while meeting changing consumer and market needs.

Mission Statement / Objectives:

The primary purpose of the system is to efficiently oversee and optimize diverse facets of sustainable fashion operations, encompassing everything from sourcing products to effectively managing the entire product lifecycle by using a Database Management System.

1. **Securely Store Data:** Implement strong security measures to protect sensitive user data. Leverage encryption to store sensitive data onto our DB.
2. **Data Visualization:** Make use of the data present in our Database to derive information that can help businesses capitalize and commercialize on market trends such as brand-wise product analysis, geographical impact, consumer trends, etc.
3. **Scalability**: Develop a scalable database architecture for the sustainable fashion e-commerce platform, ensuring peak speed and responsiveness with increased product data and user interactions during expansion
4. **Inventory Management**: Improving the accuracy and effectiveness of stock level updates, product labeling as sold, and new item additions from various brands in the inventory system.
5. **Access Management for the DB:** Ensure only users who have been given access can interact with the database.

Github: https://github.com/arpithasheshadri/Group-4-DMDD-Assignment