

Accesi-Sphere

(Accessibility Products E Commerce Website)

(Database Management System Project- deadline 1)

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Project Scope & Objectives (Why was this topic chosen)

The project aims to address a significant gap in the market by providing a dedicated platform for accessibility products. It aligns with the principles of inclusivity and social responsibility while tapping into a niche market with considerable potential for growth. The inclusive e-commerce platform addresses this gap by offering a dedicated space for accessibility products, promoting equality, and fostering a sense of independence among individuals with disabilities.

Future scope

This project's objectives can go beyond traditional business goals, emphasizing social responsibility and creating a supportive community.

Users and Stakeholders

- It aims to build an inclusive and accessible solution for **customers** by creating a space where disabled individuals can access various products designed to meet their needs, some other **stakeholders** can be delivery agents.
- **Suppliers** can keep track of products, transaction amounts and customer order history The platform aims to sell electronic aids, modified furniture, or other assistive devices, the goal is to empower users to lead more fulfilling lives.
- The **admins** can manage the diverse product inventory. Based on the requirements they can edit the deals and the products available. The platform's scope extends to offering a wide and continuously expanding range of accessibility products.

- Some **potential users** can be individuals with needs, caregivers, professionals, doctors, users involved in the healthcare industry., The project's scope involves forming collaborations with manufacturers, accessibility advocacy groups, and NGOs.

Tech Stack

- Backend: SQL for database management
- Frontend: HTML, CSS, JavaScript, React
- Server: Node.js

Entities and Relations: (Possible - would change)

1. Entities: Users, Products, Orders, Manufacturers
2. Relations: Users place Orders; Orders contain Products; Products sourced from Manufacturers

Further elaboration of cardinality constraints would be done based on the progress of the project.

Access Constraints:

Ensuring limited access to the admin, customer, supplier and delivery agents,

Admin - Can view data except passwords and important transaction details

Customer - Can only view the products, place orders, view order history.

Supplier-Sales requirements and statistics, availability and transaction history

Delivery agent- Personal records, order history and order status

Functional Requirements

1. As a customer

- Place orders
Add items to wishlist/ cart
- Track live orders and view order history
- Search for products

2. As an admin

- Add/ Manage products
- View Customer History
- Managing suppliers and delivery agents

- Customizing options for users

3. As a supplier

- Manage requirements
- Update the status of available items
- View Transaction history and track payments

4. As a delivery agent

- Viewing customer details
- Accepting orders and tracking

Prompt used for reference:

“elaborate this a little further based on the needs and requirements. why is this idea important what are the objectives and scope

The project aims to address a significant gap in the market by providing a dedicated platform for accessibility products. It aligns with the principles of inclusivity and social responsibility while tapping into a niche market with considerable potential for growth.

The idea is to create an inclusive e-commerce platform specializing in accessibility products for disabled individuals. The platform will offer a wide range of products such as electronic aids, modified furniture, and other assistive devices to enhance the lives of people with disabilities.”

Contributions - equal