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Project Definition and Scope

Project Title : Ignite Perfume Web Application

1. Problem Statement

Buying perfumes online can be confusing for customers because many
websites:
- Have unclear product details (size, fragrance type, images).
- Are not user-friendly or mobile-responsive.
- Lack smooth checkout or cart experience.
- Don't allow easy admin management for the store owner.

Many small perfume businesses struggle to build an affordable and efficient
online platform for selling products. Ignite Perfume solves this problem by
providing a simple, user-friendly, mobile-ready, and scalable e-commerce
website tailored for perfume sellers.

2. Objective

- Create a full-featured e-commerce website where users can browse, search,
and filter perfumes.
-Provide product details including images, descriptions, and pricing for
better customer experience.
-Enable secure user accounts with login, signup, and admin panel for
product management.

-Include cart and checkout functionality so users can buy perfumes easily.
-Make the website mobile-friendly and responsive for seamless access on any device.

3. Relevance to ICT Domain

This project fits within the ICT domain because it uses:

- Web Development: React.js for frontend, Node.js/Express.js for backend, and MongoDB for the database.
- Cloud Deployment: Using Vercel for hosting ensures scalability and easy access.
- Data Security: Secure login, password encryption, and safe handling of user data.
- UI/UX Trends: Mobile-first design and responsive layouts to improve user experience.

4. Feasibility Analysis

Technical Feasibility
- Frontend: React.js for dynamic UI and responsive design.
- Backend: Node.js and Express.js for handling APIs.
- Database: MongoDB Atlas (cloud-based, scalable).
- Hosting: Vercel for deployment.

Ethical Considerations
- User data will be encrypted and securely stored.
- Users will have consent and privacy policies clearly displayed.
- Only necessary data is collected to avoid misuse.

5. Market/User Needs Analysis

- Customers want clear perfume details: images, price, brand, size, fragrance notes.
- Mobile users are increasing, so the website must be responsive.
- Users want fast-loading pages and simple navigation.
- Admins need easy product management, order tracking, and user management.

6. Literature Review & Novelty

Existing perfume e-commerce sites often lack:
- Clear product details, responsive design, or simple checkout.
- Affordable solutions for small businesses.

Novelty of Ignite Perfume:
- Tailored for perfume sellers with images, details, and responsive design.
- Admin panel for product and user management.
- Affordable, using modern tools (React, Node.js, MongoDB, Vercel).
- Scalable for future growth.

7. Conclusion
Ignite Perfume is a practical, user-friendly, and secure perfume e-commerce platform. It:
- Improves user experience for buyers.
- Provides tools for sellers to manage products easily.
- Uses ICT technologies effectively: web development, cloud hosting, and secure data management.
- Is cost-effective and scalable.