DAY#2 Hackathon(Market place Technical foundation general E-commerce of online customizing clothing and product brand Vision and Objectives

Platform Purpose: Provide users with an interactive platform to design, customize, and purchase clothing or other products.

Target Audience: Individuals, businesses, and events (e.g., personalized apparel for teams, events, or gifts).

Customization Scope: Clothing: T-shirts, hoodies, jackets, hats, etc.

Products: Mugs, phone cases, bags, shoes, notebooks, etc.

Technical Product Requirements for Online Clothing Customization and Product Brand

1. Pages & Components

1. **Home Page**
   - **Components**:
     - Hero Section
     - Product Categories
     - Search Bar
     - Featured Products
2. **Customization Page**
   - **Components**:
     - Product Selector
     - Customization Editor (Text, Graphics)
     - Live Preview Area
     - Add to Cart Button
3. **Catalog Page**
   - **Components**:
     - Product Grid
     - Filters (Size, Color)
4. **Cart/Checkout Page**
   - **Components**:
     - Cart Item List
     - Shipping Information Form
     - Payment Gateway Integration
     - Order Summary
5. **Order Confirmation Page**
   - **Components**:
     - Order Details
     - Tracking Information
     - Estimated Delivery Date

2. API Endpoints

- **User Authentication**:
    - POST /api/register
    - POST /api/login
    - POST /api/logout
- **Product Management**:
    - GET /api/products
    - POST /api/products
    - PUT /api/products/{id}
- **Customization**:
    - GET /api/customizations/{productId}
    - POST /api/customizations/{productId}
- **Order Management**:
    - POST /api/orders
    - GET /api/orders/{userId}
- **Payment**:
    - POST /api/payment/checkout
    - GET /api/payment/status

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3. Sanity CMS

- **Schemas**:
    - **Product Schema**: Name, image, price, customization options.
    - **Customization Schema**: Text, graphics, colors.
- **Sanity Studio**:
    - Admin panel for managing content (products, categories, etc.).

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4. Tech Stack

- **Frontend**: Next.js,CSS live product preview.
- **Backend**: Next.js,Tailwind CSS, SANITY CMS
- **Database**: MongoDB/PostgreSQL.
- **Payment**: Stripe/PayPal.
- **Hosting**: AWS/Google Cloud.
- **Version Control**: GitHub/GitLab.

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5. Non-Functional Requirements

- **Performance**: Fast loading, scalable backend.
- **Security**: SSL, secure data storage.
- **SEO/Analytics**: SEO-friendly, Google Analytics.
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- **Backup**: Regular backups, recovery plan