**YOUR TASK FOR DAY 1**

***Step 1: Choose Your Marketplace Type;***

* General E-Commerce

***Primary Purpose:***

The primary purpose of this e-commerce project is to design and develop a fully functional and visually appealing online platform where users can explore, select, and purchase products with ease. This project serves multiple objectives:

1. **Learning and Skill Development**:
   * To enhance proficiency in modern web development technologies, including Next.js, Tailwind CSS, React, and Sanity for CMS.
   * To gain hands-on experience in creating responsive and dynamic user interfaces.
   * To implement advanced functionalities like dynamic cart management, API integration, and state management.
2. **Target Audience**:  
   This platform is designed to cater to small-to-medium-sized businesses and individual users seeking a seamless online shopping experience. The project aims to provide a scalable and customizable solution for businesses to showcase and sell their products.
3. **Key Features**:
   * **Dynamic Product Listings**: Display products fetched from Sanity, updated in real-time.
   * **Interactive Cart Management**: Allow users to add, update, or remove products with instant feedback.
   * **User-Friendly Navigation**: An intuitive interface for browsing categories, viewing product details, and proceeding to checkout.
   * **Secure Checkout Process**: Ensuring a reliable and smooth checkout experience.

This project not only aims to provide a functional e-commerce platform but also serves as a foundation for refining UI/UX design skills in preparation for future professional opportunities and challenges like hackathons.

***Step 2: Define Your Business Goal***

1. **Problem Statement**:  
   This platform addresses the difficulty users face in finding customizable and high-quality furniture at affordable prices. It bridges the gap between traditional shopping and the modern need for convenience and variety in the furniture market.
2. **Target Audience**:  
   The primary audience includes:
   * Homeowners looking to furnish or redecorate their living spaces.
   * Small businesses seeking functional and aesthetic office furniture.
   * Interior designers searching for customizable and premium-quality options.
3. **Product Offerings**:  
   The marketplace specializes in:
   * **Furniture**: Chairs, tables, sofas, beds, and storage units.
   * **Customizable Options**: Users can select colors, sizes, and materials for certain products.
   * **Niche Categories**: Ergonomic chairs, sustainable furniture, and modular units.
4. **Unique Selling Proposition (USP)**:
   * **Quality & Affordability**: Offering premium furniture at competitive prices.
   * **Customization**: Allowing users to personalize furniture to meet their needs.
   * **User Experience**: A sleek and intuitive platform that simplifies furniture shopping.
   * **Convenience**: Detailed product visuals, dynamic cart features, and a seamless checkout process.

This furniture-focused e-commerce platform aims to become the go-to destination for functional, stylish, and affordable furniture solutions.

***Step 3: Create a Data Schema***

**Custom Data Schema for Furniture E-Commerce**

1. **Identify the Entities in Your Marketplace**  
   The main components interacting in your furniture e-commerce platform include:
   * **Furniture Products**: Items like chairs, sofas, tables, etc., available for purchase.
   * **Orders**: Records of transactions, including customer details and product information.
   * **Customers**: Individuals purchasing furniture.
   * **Payments**: Monitors transactions and payment statuses.
   * **Shipping Details**: Tracks the delivery progress for orders.

**Relationships Between Entities**  
Below is an example of how entities interact:

[Product]

- ID

- Name

- Price

- Stock

- Category

|

|

[Order] ---------> [Customer]

- Order ID - Customer ID

- Product ID - Name

- Quantity - Contact Info

|

|

[Shipping Details] <------- [Payment]

- Shipping ID - Payment ID

- Order ID - Amount

- Status - Status

1. **Key Fields for Each Entity**

**Products**:

* **ID**: Unique identifier for each furniture item.
* **Name**: Name of the product (e.g., "Ergonomic Office Chair").
* **Price**: Cost per unit.
* **Stock**: Number of units available.
* **Category**: Product classification (e.g., Living Room, Office).
* **Dimensions**: Measurements (e.g., height, width, depth).
* **Material**: Main materials used (e.g., Wood, Metal).
* **Tags**: Keywords (e.g., "Luxury," "Eco-Friendly").

**Orders**:

* **Order ID**: Unique identifier for each order.
* **Customer Info**: Name, contact details, and address.
* **Product Details**: List of furniture items, quantities, and prices.
* **Order Status**: Pending, Processing, Shipped, or Delivered.
* **Order Timestamp**: Date and time of order placement.

**Customers**:

* **Customer ID**: Unique identifier.
* **Name**: Full name of the customer.
* **Contact Info**: Phone number and email address.
* **Address**: Delivery address.
* **Order History**: List of past purchases.

**Shipping Details**:

* **Shipping ID**: Unique identifier for tracking.
* **Order ID**: Linked order.
* **Shipping Status**: In Progress, Out for Delivery, Delivered.
* **Estimated Delivery Date**: Predicted delivery time.

**Payments**:

* **Payment ID**: Unique identifier for the transaction.
* **Order ID**: Associated order.
* **Amount**: Total payment value.
* **Payment Status**: Completed, Pending, or Failed.

