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| Name | Muhammad Bilal Hussain |
| Roll Number | **00425090** |
| Class Day | **Tuesday** |
| Timing | **2 to 5** |

**DAY 2 PLANNING**

**THE TECHNICAL FOUNDATION**

**Furniture E-Commerce**

**Key Features to Implement**

**1. Frontend (UI/UX):**

* Design interactive pages:
  + **Home**: Highlights popular products and categories.
  + **Shop**: Displays all furniture products with filters.
  + **About**: Describes the brand and its story.
  + **Contact**: Includes a contact form, location map, and customer support info.

**2. Real-Time Updates:**

* Use Web Sockets for:
  + Live updates on order status.
  + Inventory changes for product availability.
  + Notifications for offers or updates.

**3. Third-Party APIs:**

* Integrate:
  + Payment Gateway (e.g., **Stripe** or **PayPal**).
  + Shipping/Tracking API (e.g., **FedEx**, **DHL**).
  + Analytics (e.g., **Google Analytics**) to track user activity.

**4. Backend Endpoints:**

Set up REST APIs for CRUD operations:

* GET /products: Fetch all products.
* POST /orders: Create a new order.
* PUT /orders/{id}: Update an order status.
* DELETE /orders/{id}: Remove an order.

**5. Sanity CMS Schema:**

* Schema for managing product data:

File.js

Copyedit

export default {

name: 'product',

type: 'document',

fields: [

{ name: 'name', type: 'string', title: 'Product Name' },

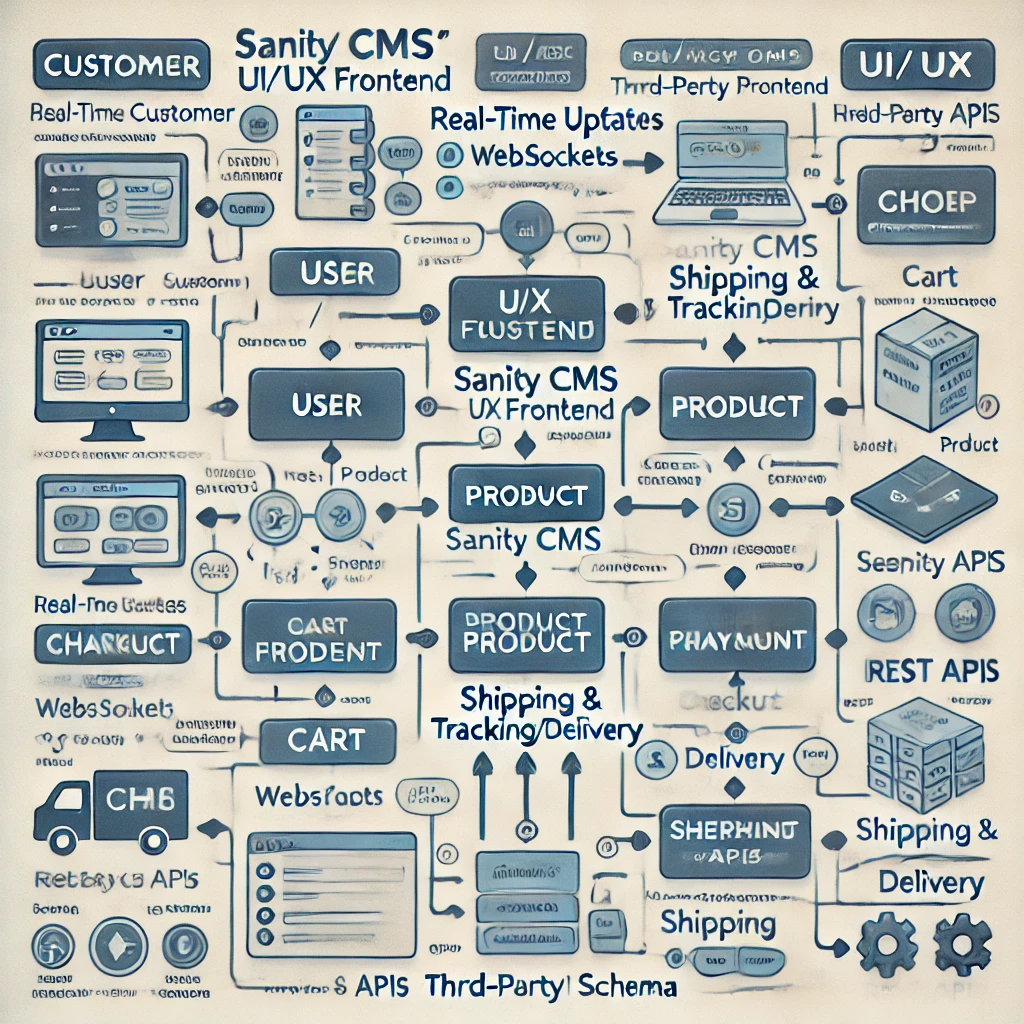
{ name: 'price', type: 'number', title: 'Price' },

{ name: 'stock', type: 'number', title: 'Stock Level' },

{ name: 'image', type: 'image', title: 'Product Image' },

],

};

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**Working with CMS: My Approach and Workflow**

**Technical Roadmap:**  
When tackling a project, I rely on a structured process to ensure clarity and efficiency. Here's how I approach tasks systematically:

1. **Initial Review & Planning:**  
   I begin by carefully examining the project documentation and consulting with relevant team members or mentors. This allows me to establish a clear understanding and direction for the work.
2. **Understanding CMS Dynamics:**  
   The connection between users and the CMS plays a pivotal role. Key CMS functionalities, such as linking users to their orders and associating orders with specific products, are essential for maintaining smooth operations and effective management.
3. **Document Insights:**  
   My first step involves thoroughly analyzing the project details to identify primary objectives and tasks. This helps me get a comprehensive grasp of the project's scope and deliverables.
4. **Creative Ideation:**  
   I dedicate time to brainstorming and gathering innovative ideas for each segment of the project. This phase allows me to devise practical and creative solutions tailored to the requirements.
5. **Collaboration for Problem-Solving:**  
   When I face hurdles, I don’t hesitate to seek guidance from senior team members or colleagues. This ensures that I can resolve challenges efficiently and maintain consistent progress.
6. **Implementation:**  
   After completing all necessary preparations, I move on to execution, whether it involves design, planning, or coding. By following this roadmap, I maintain productivity and deliver quality outcomes in a timely manner.