Marketplace Technical Foundation - Hekto

Day 2: Planning the Technical Foundation

1. Define Technical Requirements

Frontend Requirements:

- User-friendly interface for browsing products:
 - Add titles and subtitles to help users understand what they are looking for (already done in the UI/UX template).
 - o Breadcrumbs already added.
 - Add a back button in the breadcrumb (not yet implemented, needs work).
 - Add "Back to Home" functionality on the logo.
 - Add movement effects using shadows and transform scale on buttons.
 - After adding dynamic products, use a carousel from ShadCN:
 - For mobile and tablet sizes, make the first product slightly move on the x-axis to grab user attention. Otherwise, users might think there is only a single product and swipe up/down.
- Responsive design for mobile and desktop users:
 - Use flex and grid layouts extensively.
 - o Hide certain elements for smaller screens.
 - Add a hamburger menu. (already done in the UI/UX template)
- Essential pages:
 - Home: Attract customers with featured products and categories.
 - Product Listing: Let users browse products with filters and pagination.
 - Product Details: Provide detailed product information.

Features: Images, description, price, add-to-cart button.

o Cart and Checkout: Ensure a smooth purchase process.

Features: View items in cart, payment, and order confirmation.

Order History: Enable users to view past orders.

Features: List of orders, status tracking.

Static vs Dynamic Pages:

Page Name	Static	Dynamic
Home	/	Needs work
Listing Product	✓	Needs work
Product Details	×	Needs work
Cart	/	Needs work
Checkout	/	Needs work
order	/	Needs work
order complete	/	No dynamic additions needed

Sanity CMS as Backend:

- Sanity CMS Schemas:
 - o Product Schema (High Priority): Fields: Name, description, price, category, stock, images.
 - o Order Schema (High Priority): Fields: User details, products, total price, status.
 - User Schema (Medium Priority): Fields: Name, email, phone, address.
 - Review Schema (Low Priority): Fields: Product ID, user ID, rating, comments.
- Use Sanity CMS to manage product data, customer details, and orders:
 - Product data: Needs work on it. We've done it in class projects, so not a hard task. Customer
 - o and order details: Need to research how to implement and then implement it.
- Focus on designing schemas in Sanity to align with the business goals from Day 1:
 - Schema will be provided by the teacher on Day 3, but as a backup, I think my schema is totally the same as what I created for my Thursday class project (9 to 12). Just need to add some tags like "Featured,"
 "Latest Products," "Trending," etc., and some extra details.
- For the day one 's goal to make the process transparent, we can have input fields like images/videos, a chat section, and more. Will refine it during creation.

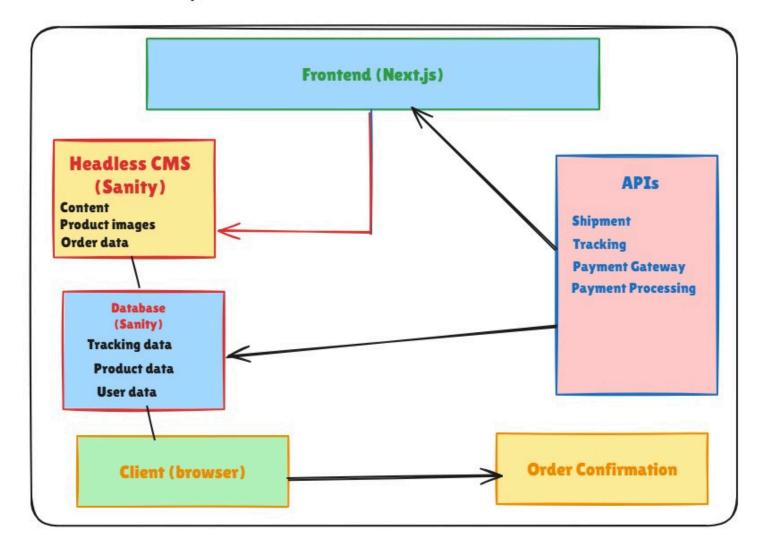
Third-Party APIs:

- ==> Integrate APIs for shipment tracking, payment gateways, and backend services.
 - o Need to research and develop this since it's something I have never done before.. Ensure APIs provide the
 - necessary data for frontend functionality. (Will work on it after completing the rest of the tasks.)

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2. Design System Architecture:

System Architecture



3. Plan API Requirements:

- Fetch Products: Endpoint: /products (GET).
- Fetch Product Details: Endpoint: /products/:id (GET).
- Create Order: Endpoint: /orders (POST).
- Fetch Orders by User: Endpoint: /users/:id/orders (GET).
- Order Tracking: Endpoint: /shipment/:id (GET).

First, check API endpoints on the browser.

Then use them in my project to take data and send it to Sanity.

Finally, use the data on the UI..