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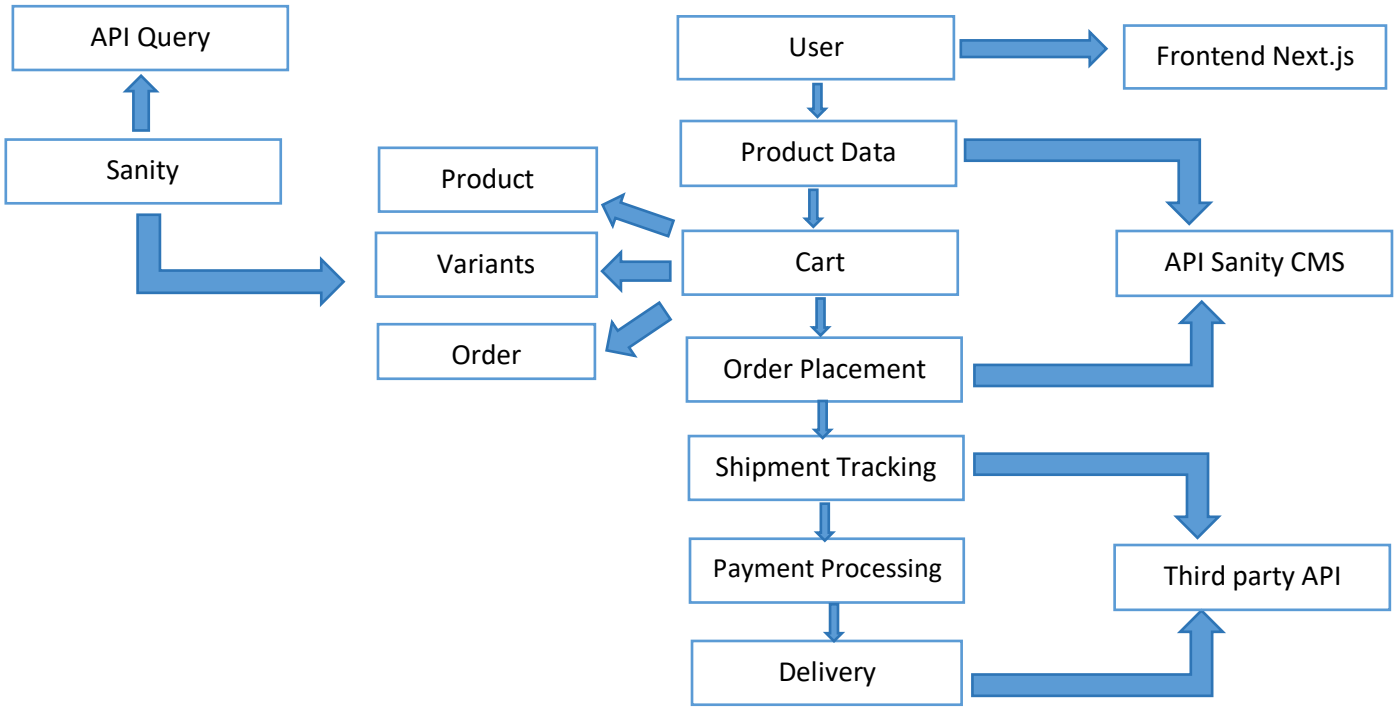
TECHNICAL ANALYSIS

Design System Architecture



Frontend Requirements

When a user comes to our website to make a purchase, the following steps will take place:

1. **Product Selection:** Products will be displayed through categories and filters for easy browsing.
2. **Product Details:** Each product will have a detailed page where the user can view specifications, price, and reviews.
3. **Add to Cart:** The user will have the option to easily add products to their cart.
4. **Cart Review:** After reviewing the cart, the user will have the option to proceed to checkout.

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5. **Checkout:** The user will verify their shipping details, payment method, and order summary.
6. **Order Confirmation:** After completing the purchase, the user will receive a confirmation page and email.
7. **Order Tracking**: The user will be provided with a tracking number to monitor the status of their order.

Sanity CMS As Backend

It stores and manages data such as products,images, etc. Content can be dynamically updated and managed without having to touch the website's code. Sanity's backend API, either REST API, serves the content to the frontend.

The main benefit of this is that content can be easily updated, and fetched, making website management simpler. Sanity's flexible schema and real-time collaboration features also make it a powerful backend solution.

Third-Party APIs: Third party APIs are APIs that come from external services or platforms and can be integrated into your application or website. These APIs help provide additional functionality without the need to develop your own backend.

For example:

1. **Payment APIs (e.g. PayPal):** Allow users to make online payments
2. **Social Media APIs (e.g., Facebook, Twitter)**: Enable features like social media login, sharing, and content synchronization.

Third-Party Product API Allows you to fetch and display external product data, such as prices, descriptions, and availability, from platforms like **Shopify** or **Amazon**. It helps manage product information in real-time without maintaining your own database.

User Feedback

1) Add a section titled **"We Value Your Feedback"** with a simple form.

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2) Use a clear **"Submit Feedback"** button and display a thank-you message after submission.

API Method:

Name	Method	Response
/Product	get	{id:1},” name”, product, price
/Order	post	{confirm}**,** status,done
/Shipment	get	{shipment id}, payment,status
/user	get	{user id}, email,password
/cancel	delete	{Order id}, status, return

Tools And Library:

Authentication: Firebase, Clerk

Sanity: Content mangment

Shipment: Shopify

Cart functionality: Redux toolkit, react context api

Payment: Paypal

Data schema

{ Name: “Product”,

Tiltle: “Product”,

Type: “Documents”,

Fields:[

{name: “name”,

Title: :name”,

Type: “string”,}]

{ Name: “Order”,

Tiltle: “Order”,

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Type: “Documents”,

Fields:[

{name: “Order ID”,

Title: : “Order ID”,

Type: “string”,}]

{ Name: “Shipment”,

Tiltle: “Shipment”,

Type: “Documents”,

Fields:[

{name: “Shipment ID”,

Title: : “Shipment ID”,

Type: “string”,}]

Conclusion

- **User-Friendly Shopping Experience:**

The website offers smooth navigation with product categories, detailed pages, easy cart management, and a simple checkout process.

- **Flexible Content Management:**

Sanity CMS makes it easy to manage and update content like products and images without changing the website code.

- **Powerful Third-Party Integrations:**

APIs like PayPal for payments shopify for shipments provide secure and real-time functionality.

- **Modern and Scalable Technology:**

Tools like Firebase, Redux Toolkit, and React ensure the website is reliable, scalable, and efficient.