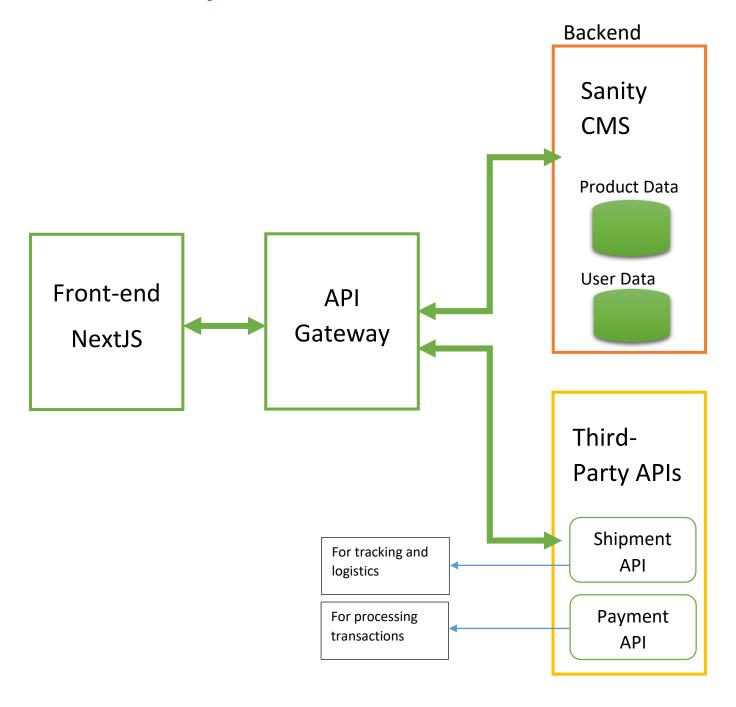
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System Architecture



Workflow Description:

1. Frontend Interaction (Next.js):

- Users interact with the e-commerce platform via a user-friendly interface developed with Next.js.
- Main pages include:
 - Products Page: Displays the list of available products.
 - Product Details Page: Provides detailed information about a selected product.
 - Sign-up/Login Page: Allows users to create accounts or log in.

2. User Actions:

- If User is Not Logged In:
 - Can browse products and view product details.
 - Must log in or sign up to proceed to the checkout process.
- If User is Logged In:
 - Can:
 - Add products to the cart or wish list.
 - View and manage the wish list.
 - Access the cart page to review selected items.
 - Proceed to checkout for finalizing the purchase.

3. Checkout Process:

- Payment Integration:
 - The checkout process integrates with a third-party payment API to handle secure transactions.
- Shipment Integration:
 - Shipment details and logistics are managed via a third-party shipment API.

4. Content Management with Sanity CMS:

- The website content, including product information and other data, is dynamically managed using Sanity CMS.
- This ensures seamless updates to the front-end without requiring additional development.

5. Post-Checkout Workflow:

- On successful checkout:
 - Users receive confirmation of their purchase.
 - Order details are processed and managed via the third-party APIs and stored in the system for future reference.

Detailed Workflow

1. User Registration Workflow:

- **Step 1**: User accesses the **Sign-up/Login Page** and provides necessary details (e.g., name, email, and password).
- Step 2: User data is sent to the backend and securely stored in Sanity CMS.
- **Step 3**: A confirmation email or notification is sent to the user upon successful registration.
- Step 4: The user is logged in and redirected to the homepage or their profile page.

2. Product Browsing Workflow:

- **Step 1**: User visits the **Products Page** and selects a category or browses the available products.
- **Step 2**: The **Sanity API** fetches product data based on user interactions (e.g., filtering, sorting).
- **Step 3**: The fetched product data is dynamically displayed on the front-end, including images, prices, descriptions, and availability.
- **Step 4**: Users can click on a product to view its **Product Details Page**, with additional details and a button to add to the cart.

3. Order Placement Workflow:

- **Step 1**: User selects products and clicks the **Add to Cart** button.
- **Step 2**: The selected items are stored temporarily in a cart (either in the frontend state or backend).
- **Step 3**: User proceeds to the **Cart Page**, reviews the selected items, and clicks the **Checkout** button.
- Step 4: At checkout:
 - User provides delivery and payment details.
 - Payment is processed via a third-party payment API.
- **Step 5**: Upon successful payment:
 - Order details are saved in Sanity CMS (including order ID, product IDs, user info, and status).
 - o A confirmation message is sent to the user.

4. Wish List Workflow:

- Step 1: User clicks the Add to Wish List button on the Product Details Page or Products Page.
- Step 2: If the user is not logged in, they are prompted to log in or sign up.
- **Step 3:** For logged-in users, the product is added to their wish list (data stored in Sanity CMS linked to the user account).
- **Step 4:** The Wish List Page dynamically fetches and displays the user's wish list items via the Sanity API.

- Step 5: Users can:
 - o Remove items from the wish list.
 - o Add wish list items directly to the cart for purchase.

5. Shipment Tracking Workflow:

- **Step 1**: After the order is placed, the shipment process begins via a **third-party shipment API**.
- **Step 2**: Order status updates (e.g., shipped, in transit, delivered) are periodically fetched from the shipment API.
- Step 3: Users can view the Order Status on their profile or order history page.
- **Step 4**: Shipment details, such as tracking number and estimated delivery date, are displayed dynamically to the user.

