Nike

Marketplace Technical Foundation

System Architecture

1. **Home Page**:

    ○ Displays a list of products fetched from Sanity.
    ○ Each product card includes details like name, price, and an image.
    ○ Clicking on a product redirects to the **Product Page**.

2. **Product Page**:

    ○ Shows detailed information about a selected product, such as the product name, price, and a detailed description.
    ○ Users can add the product to their cart.

3. **Cart Page**:

    ○ Displays all the items added to the cart.
    ○ Uses the `use-shopping-cart` hook to manage cart details in local storage.
    ○ Provides a summary of the total cost with a "Checkout" button.

4. **Checkout Page**:

    ○ Redirects to Stripe's hosted checkout page.
    ○ Users can enter payment details to complete the purchase.

- After a successful payment, Stripe sends a webhook to your backend.

5. **Backend Process After Payment**:

   Stripe webhook performs the following tasks:

   - **Validates the Stripe Webhook** to ensure it is legitimate.
   - **Reduces Product Stock** in the database.
   - **Gets Shipping Rates and Tracking ID** using ShipEngine.
   - **Creates an Order** document in Sanity.
   - **Sends an Email** to the user with their order details and tracking ID.

6. **Success Page**:

   - After a successful payment, users are redirected here.
   - Displays a confirmation message and provides a "Track your Order" button.

7. **Tracking Page**:

   - Users can enter their tracking ID to track the status of their order.
   - Fetches tracking information from the ShipEngine API and displays the delivery status.

Tools Used

1. **Figma:** For designing the layout.

2. **Next.js:** Framework for the website.

3. **Sanity:** Backend for managing product and order data.

4. **Stripe:** For handling payments.

5. **ShipEngine:** For order tracking.

6. **Auth.js:** For authentication.

7. **use-shopping-cart:** For managing cart state.

8. **Resend:** For sending emails.

API Endpoints

Endpoint	Method	Description
/products	GET	Fetch all available products from Sanity.
/orders	POST	Create a new order in Sanity
/validate-webhook	POST	Validates the incoming Stripe webhook request to ensure authenticity
/update-stock	POST	Updates the product stock in the Sanity database based on the purchased items
/get-rates	POST	Fetches shipping rates and creates a shipping label using ShipEngine
/send-email	POST	Sends an email to the user with order confirmation and tracking details using Resend
/track-order	GET	Fetches the tracking information for an order using the ShipEngine API