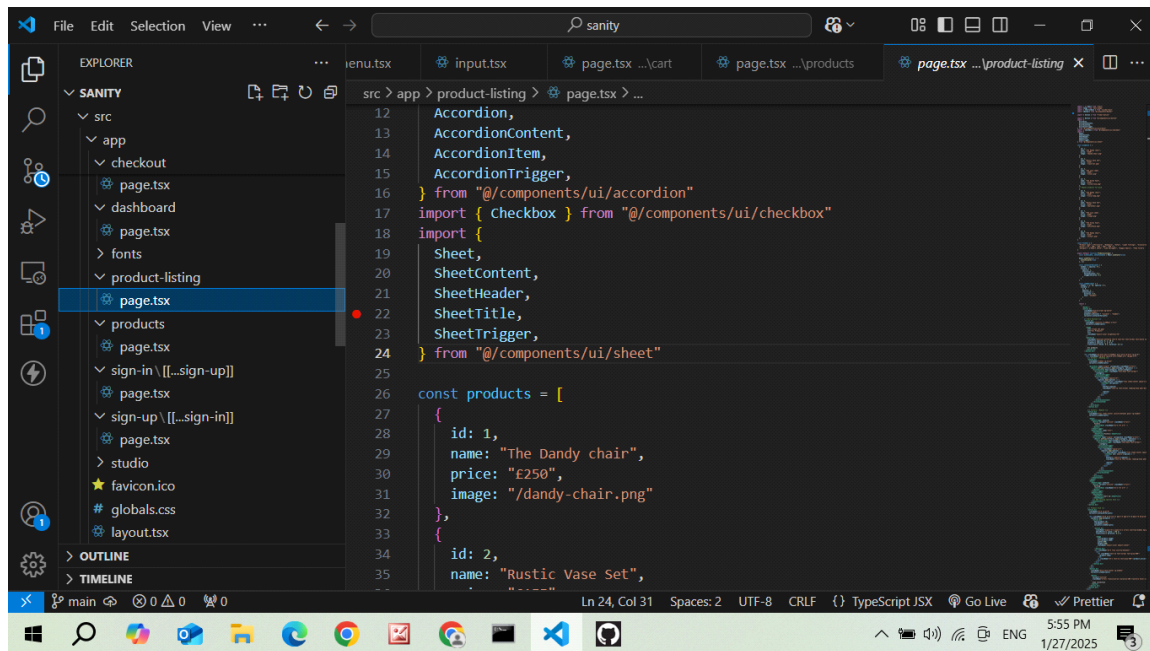


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Dynamic_Routing

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1. Dynamic Routing....



1. Dynamic Routing (Next.js)

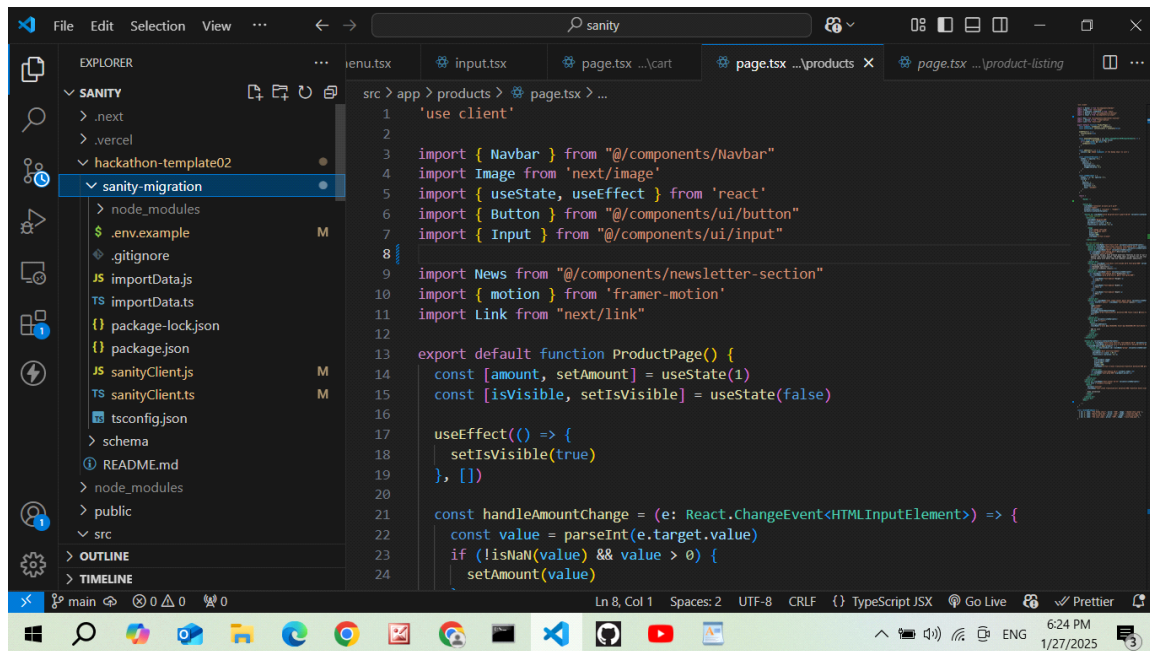
Dynamic routing in Next.js allows you to create unique pages for each product at runtime.

How it works: You create a file with dynamic parameters (e.g., [id].js or [slug].js), and Next.js dynamically generates pages based on the URL.

Example: For a route like /products/[id], the id is dynamic, and a unique page is rendered for each product.

Benefit: It simplifies scalability and reduces the need to manually create multiple pages.

2. MockApi Sanity Migration...



MockAPI:

MockAPI is a tool for simulating backend APIs. It is used to fetch dummy data for testing purposes during development.

Example: Product details like name, price, and description can be fetched using MockAPI endpoints.

Sanity CMS:

Sanity is a headless CMS that manages dynamic content like product data.

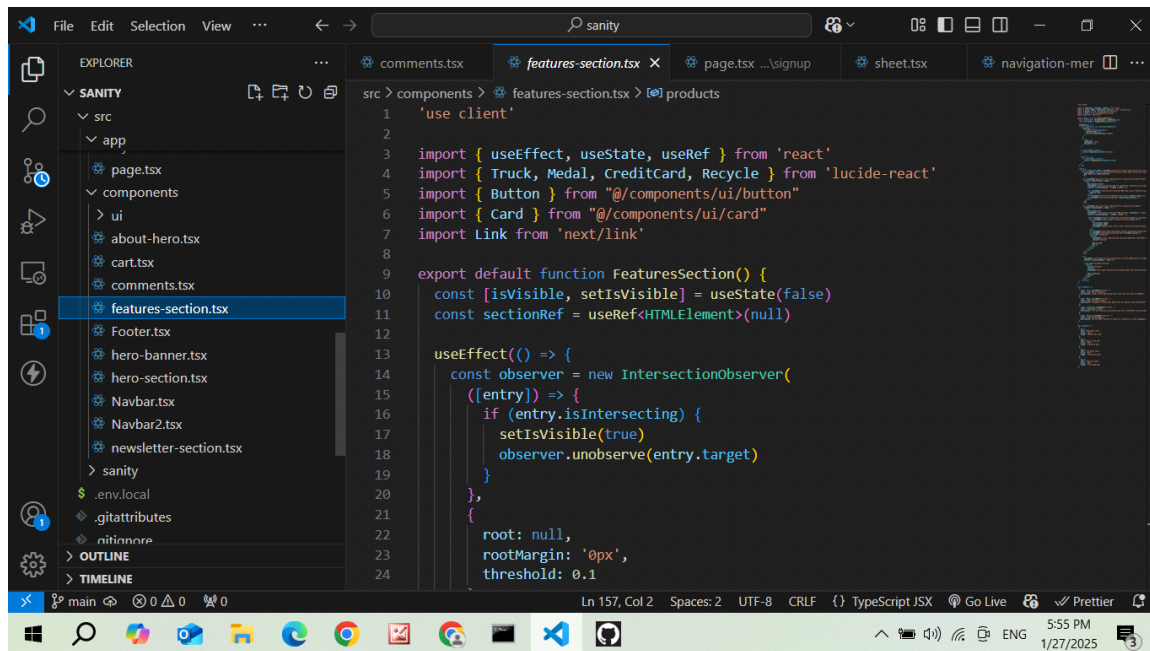
Example: You can update product names, images, or prices in the Sanity Studio, and the changes will appear in real-time on your website.

Benefit:

MockAPI helps developers simulate data and test APIs without a backend.

Sanity CMS allows non-technical users to manage content easily.

3.Add To Cart Feature...



3. Add to Cart

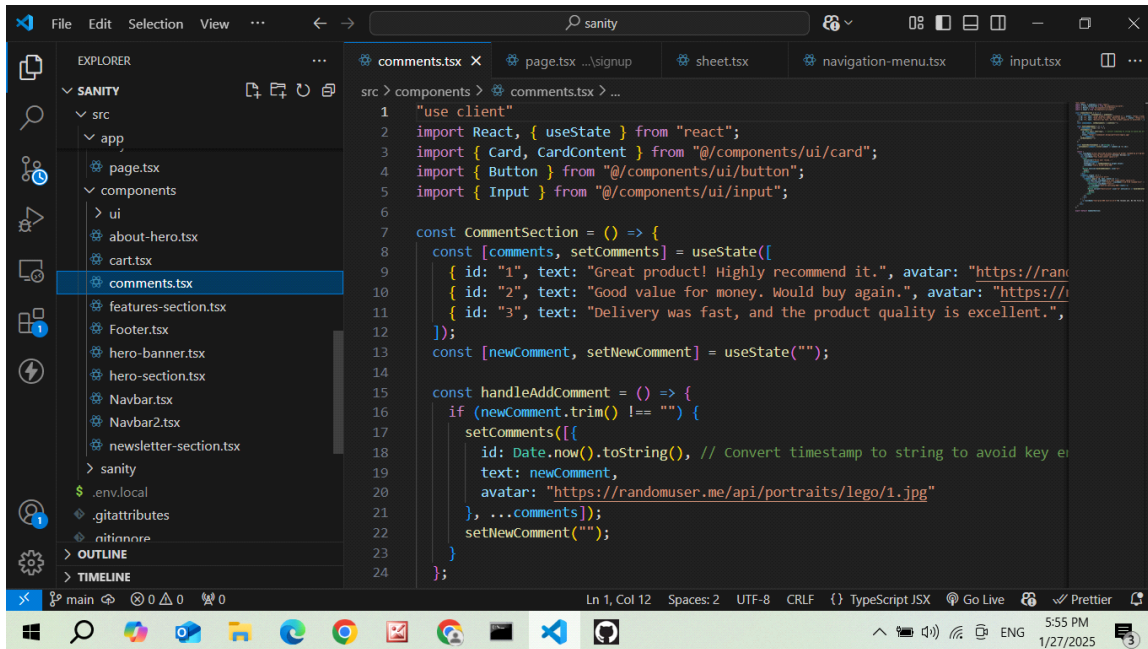
The Add to Cart feature lets users select products to temporarily save for checkout.

How it works: Selected items are stored in the browser (local/session storage) or on the server for tracking.

Example: Adding an item updates the cart's total quantity and price in real-time.

Benefit: It enhances the shopping experience by letting users organize their purchases.

4. Comment & Review....



4. Comment and Review System

A comment and review system allows users to share feedback about products.

How it works:

Users submit comments and ratings using a form.

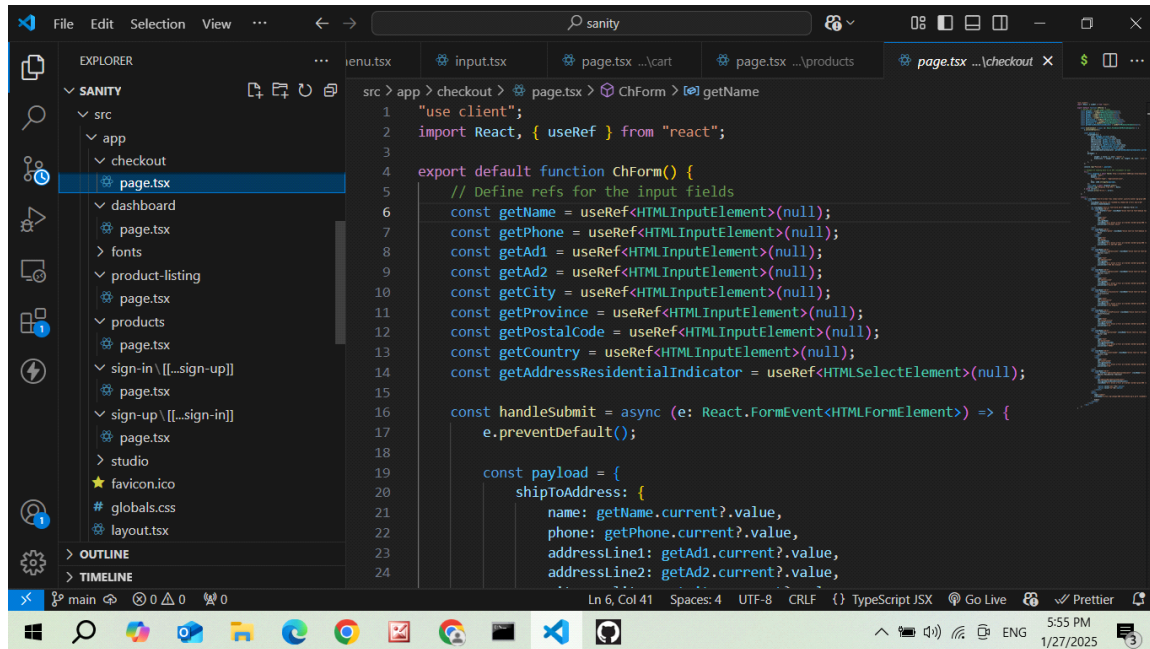
Data is sent to a backend or API for storage.

Reviews are displayed to other users to build trust.

Example: Star ratings and text reviews on platforms like Amazon.

Benefit: Reviews build credibility and improve customer engagement.

5.CheckOut...



5. Checkout Flow

The checkout flow ensures a seamless purchase process for users.

Steps:

Cart Review: Validate items and quantities.

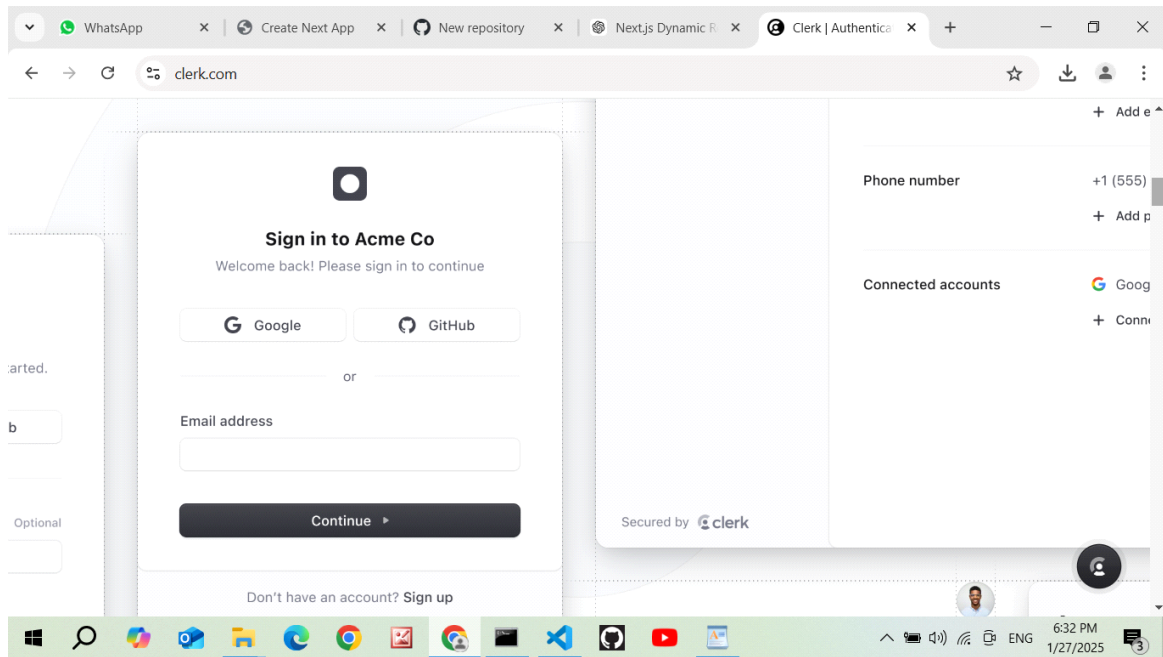
Address Input: Gather shipping details.

Payment Gateway: Process the payment securely.

Order Confirmation: Show details and generate an order ID.

Benefit: A smooth and secure checkout experience reduces cart abandonment.

6. Clerk Authentication



6. User Authentication (Clerk)

Clerk provides an out-of-the-box authentication system for user login, signup, and session management.

Features:

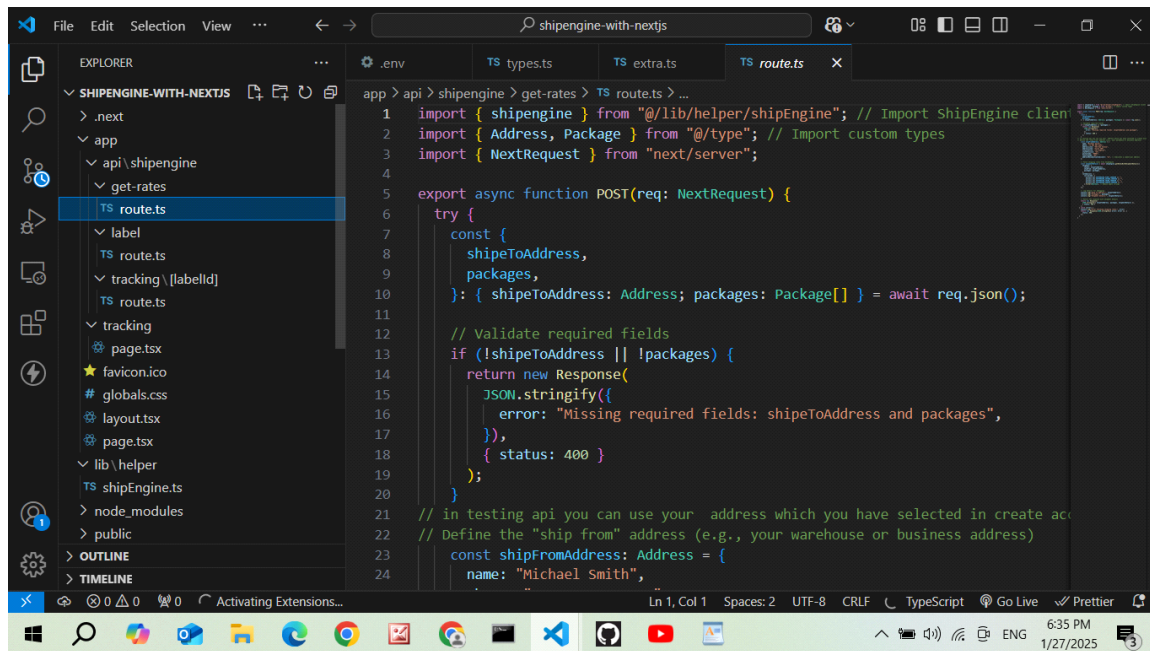
User login/signup forms.

Social logins (e.g., Google, Facebook).

Secure session management.

Benefit: Clerk simplifies authentication, saving development time while ensuring security.

7.ShipEngine...



7. Shipping Integration (ShipEngine)

ShipEngine automates the creation of shipping labels and provides tracking details for orders.

How it works:

Once the order is confirmed, shipping details (e.g., address, weight) are sent to ShipEngine.

A shipping label is generated and sent to the courier service.

Tracking details are provided to the user.

Benefit: Automated shipping improves accuracy and speeds up the delivery process.