Day 4 - Dynamic Frontend Components – Samspire Interiors

Date:26-1-2025

1. Introduction

This document provides a comprehensive breakdown of the Next.js project, detailing each component, page, context, utilities, and their purpose. It serves as a guide for developers to understand the structure and functionality of the application.

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2. Project Overview

Technology Stack:

- **Framework:** Next.js
- **Styling:** Tailwind CSS
- **Backend:** Sanity.io
- **Database:** Integrated via Sanity
- **Deployment:**
- Vercel
-

Project Structure:

```
├── .next
├── node_modules
├── public
├── script
├── src/
│   ├── app/
│   │   ├── (pages)/
│   │   │   ├── About/
│   │   │   │   └── page.tsx
│   │   │   ├── Account/
│   │   │   │   └── page.tsx
│   │   │   ├── Blog/
│   │   │   │   └── page.tsx
│   │   │   ├── Cart/
│   │   │   │   └── page.tsx
│   │   │   ├── Checkout/
│   │   │   │   └── page.tsx
│   │   │   ├── Contact/
│   │   │   │   └── page.tsx
│   │   │   ├── Favourites/
│   │   │   │   └── page.tsx
│   │   │   ├── Search/
│   │   │   │   └── page.tsx
│   │   │   ├── Shop/
│   │   │   │   └── page.tsx
│   │   │   └── SingleProduct/
│   │   │       └── [id]/
│   │   │           └── page.tsx
│   │   ├── components/
│   │   │   ├── AccountForm.tsx
```

```
│   │        │       ├── BlogMiddle.tsx
│   │        │       ├── BlogSection.tsx
│   │        │       ├── CartMiddle.tsx
│   │        │       ├── CheckoutMiddle.tsx
│   │        │       ├── ContactForm.tsx
│   │        │       ├── ContentBlocks.tsx
│   │        │       ├── FAQs.tsx
│   │        │       ├── Footer.tsx
│   │        │       ├── Hero.tsx
│   │        │       ├── HomeHero.tsx
│   │        │       ├── HomeHero2.tsx
│   │        │       ├── Navbar.tsx
│   │        │       ├── NewArrivals.tsx
│   │        │       ├── Notifications.tsx
│   │        │       ├── PopUpCart.tsx
│   │        │       ├── ProductReviews.tsx
│   │        │       ├── ShopFilter.tsx
│   │        │       ├── ShopFooterTop.tsx
│   │        │       ├── ShopTopPicks.tsx
│   │        │       ├── SingleProductAsgaardSofa.tsx
│   │        │       ├── SingleProductDescription.tsx
│   │        │       ├── SingleProductRelatedProducts.tsx
│   │        │       └── TopPicks.tsx
│   │        ├── studio/
│   │        │   ├── [[...tool]]/
│   │        │   │   └── page.tsx
│   │        ├── favicon.ico
│   │        ├── globals.css
│   │        ├── layout.tsx
│   │        ├── loading.tsx
│   │        └── page.tsx
│   ├── context/
│   │       ├── CartContext.tsx
│   │       ├── FavouritesContext.tsx
│   │       └── ReviewContext.tsx
│   ├── lib/
│   │   └── db.ts
│   ├── sanity/
│   │   ├── lib/
│   │   │   ├── client.ts
│   │   │   ├── image.ts
│   │   │   └── live.ts
│   │   ├── schemaTypes/
│   │   │   ├── index.ts
│   │   │   ├── product.ts
│   │   ├── env.ts
│   │   └── structure.ts
│   ├── utils/
│   │   └── mock.ts
├── .env.local
├── .eslintrc.json
├── .gitignore
├── next-env.d.ts
├── next.config.mjs
├── package-lock.json
├── package.json
├── postcss.config.mjs
├── README.md
├── sanity.cli.ts
├── sanity.config.ts
├── tailwind.config.ts
├── tsconfig.json
```

```
└── types.d.ts
```

3. Items Added in the Project

Features Implemented:

- **Product Management** (Dynamic product listing and single product pages)
- **Shopping Cart & Checkout** (Add/remove products, process payments)
- **User Favorites** (Save products for later viewing)
- **Search & Filtering** (Efficient product search)
- **Responsive UI** (Optimized for mobile and desktop)
- **CMS Integration** (Sanity.io for managing content)

4. Pages Explanation

About Page (`/About`)

- Provides information about the company or platform.
- Includes static text, images, and possibly a mission statement.

Account Page (`/Account`)

- Displays user profile information.
- Allows users to manage settings, orders, and account details.

Blog Page (`/Blog`)

- Lists blog articles related to the platform.
- May include dynamic content fetched from Sanity.

Cart Page (`/Cart`)

- Displays items added to the shopping cart.
- Allows users to modify or remove products before checkout.

Checkout Page (`/Checkout`)

- Handles payment and order confirmation.
- Likely integrates Stripe or another payment gateway.

Contact Page (`/Contact`)

- Includes a contact form for user inquiries.
- May display company address and social media links.

Favourites Page (`/Favourites`)

- Lists saved or liked products for quick access.
- Typically uses local storage or user authentication.

Search Page (`/Search`)

- Provides product search functionality.
- May include filters and sorting.

Shop Page (`/Shop`)

- Displays all products with categories.
- Includes pagination and filtering.

Single Product Page (`/SingleProduct/[id]`)

- Dynamic route displaying detailed product information.
- Fetches data from Sanity or another API.

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5. Components Explanation

Located in `src/app/components`, these are reusable UI elements used across different pages.

AccountForm

- Manages user authentication (Login, Signup, Register views).
- Handles form submissions and state management.

Log In

Email Address

Password

| Login | Forgot your password? Register

Don't have an account?Sign Up

Register

Email Address

A link to set a new password will be sent to your email address.

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our **privacy policy.**

| Register | Go back to Login

Sign Up

Username

Email Address

Password

| Sign Up |

Already have an account? Login

CartMiddle

- Manages shopping cart UI and interactions.
- Allows users to remove items, update quantity, and clear cart.

Product	Price	Quantity	Subtotal	
Replica Table	$750	2	$1,500	🗑
Armchair Chair Set	$850	9	$7,650	🗑
Sleek Modern Table	$2,000	3	$6,000	🗑
Blue Bed	$780	4	$3,120	🗑

Clear Cart

Cart Totals

Subtotal	$18,270
Total	**$18,270**

Check Out

CheckoutMiddle

- Handles billing details and checkout flow.
- Used within the `Checkout` page.

Billing details

First Name

Last Name

Company Name (Optional)

Country / Region

Pakistan

Street Address

Town / City

Province

Sindh

Product	Subtotal
Replica Table x 2	$1500
Armchair Chair Set x 9	$7650
Sleek Modern Table x 3	$6000
Blue Bed x 4	$3120
Subtotal	$18270.00
Total	**$18270.00**

◉ Direct Bank Transfer

Make your payment directly into our bank account. Please use your Order ID as the payment reference. Your order will not be shipped until the funds have cleared in our account.

○ Cash On Delivery

Your personal data will be used to support your experience throughout this website, to manage access to your account, and for other purposes described in our **privacy policy**.

Place order

ContactForm

- Provides a contact form for user inquiries.
- Collects and submits user messages.

Get In Touch With Us

For More Information About Our Product & Services. Please Feel Free To Drop Us An Email. Our Staff Always Be There To Help You Out. Do Not Hesitate!

Address
236 5th SE Avenue, New York NY10000, United States

Phone
Mobile: +(84) 546-6789
Hotline: +(84) 456-6789

Working Time
Monday-Friday: 9:00 - 22:00
Saturday-Sunday: 9:00 - 21:00

Your Name

Email Address

Subject

Message

Submit

FAQs

- Displays frequently asked questions in an expandable format.

Search FAQs...

General Questions

What types of furniture do you sell?	⌄
Do you have a showroom I can visit?	⌃

Currently, we are an online-only store. However, we provide detailed product descriptions, high-quality images, and videos to help you make informed choices.

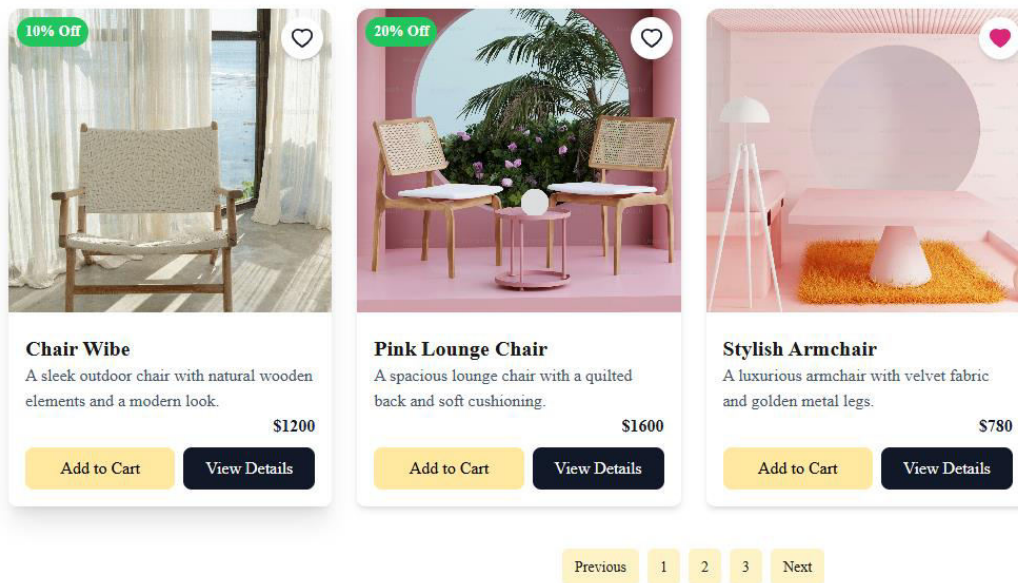| Do you offer customization options?	⌄
Do you offer eco-friendly furniture?	⌄
Can I see the products before purchasing?	⌄
Can I request a product catalog?	⌄

Footer

- Contains site-wide links, social media, and company information.

Links

Home

Shop

About

Contact

Help

Payment Options

Returns

Privacy Policies

Newsletter

Enter Your Email Address   SUBSCRIBE

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Navbar

- Displays the top navigation bar.
- Contains links to different pages and authentication status.

Home   Shop   About   Contact

Pagination

- Handles paginated data display in lists (e.g., shop and blog pages).

10% Off

Chair Wibe
A sleek outdoor chair with natural wooden
elements and a modern look.
$1200
Add to Cart   View Details

20% Off

Pink Lounge Chair
A spacious lounge chair with a quilted
back and soft cushioning.
$1600
Add to Cart   View Details

Stylish Armchair
A luxurious armchair with velvet fabric
and golden metal legs.
$780
Add to Cart   View Details

Previous   1   2   3   Next

ProductCards

- Displays individual product details.
- Includes add-to-cart and favorite options.
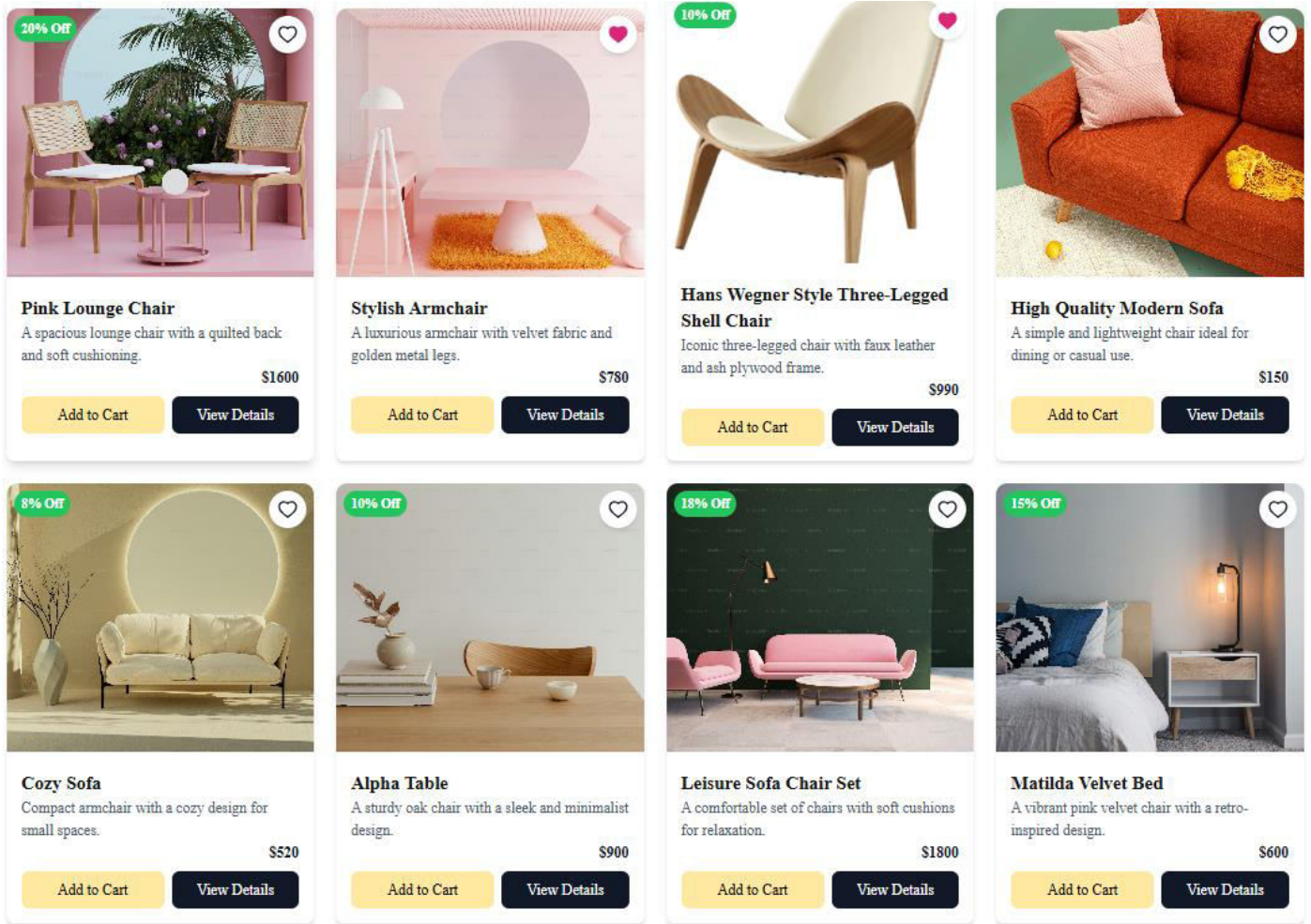
ProductGrid

- Renders a grid of `ProductCard` components.
- Used in `Shop` and `Favourites` pages.

Rapson Thirty-Nine Sofa

$1300

Description

A mid-century modern chair with clean lines and durable materials.

15% OFF   Featured Product

In Stock

SKU: SS001
Category: Sofa
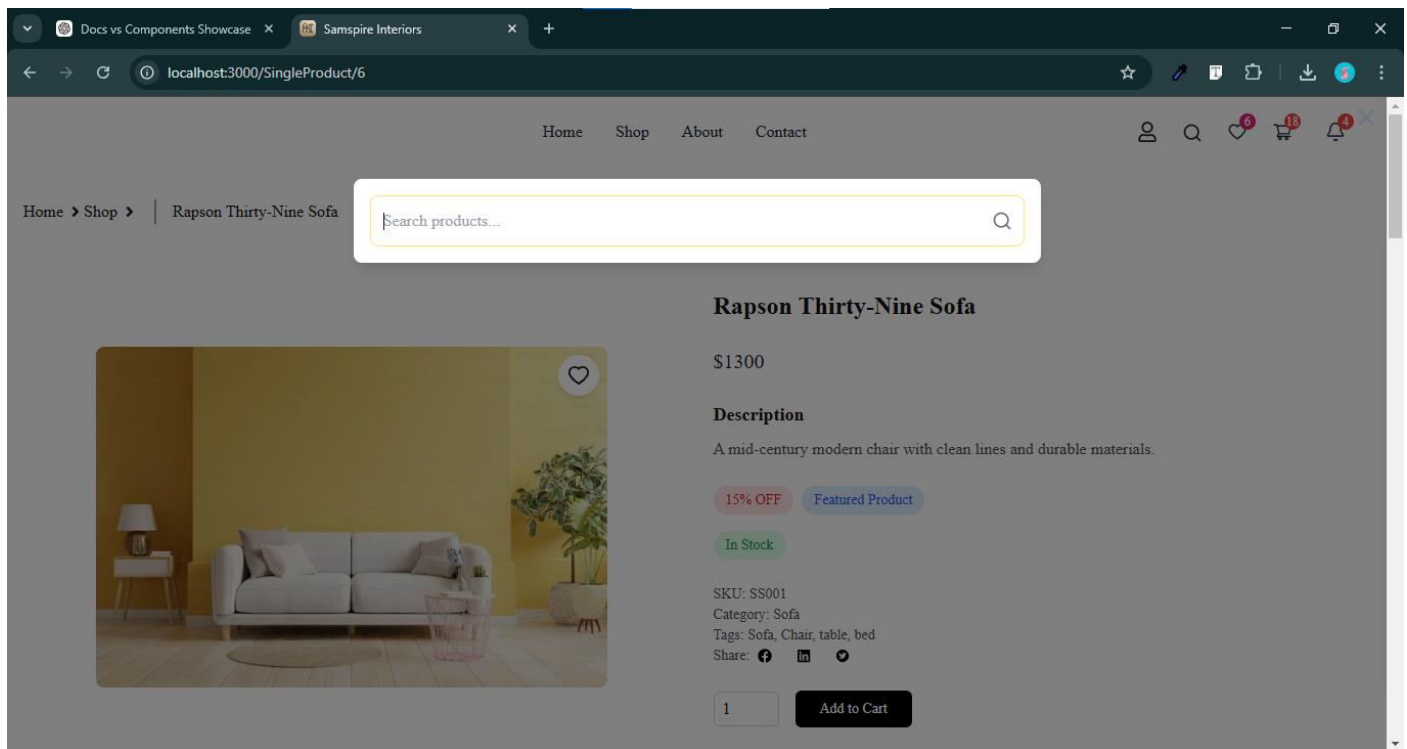Tags: Sofa, Chair, table, bed
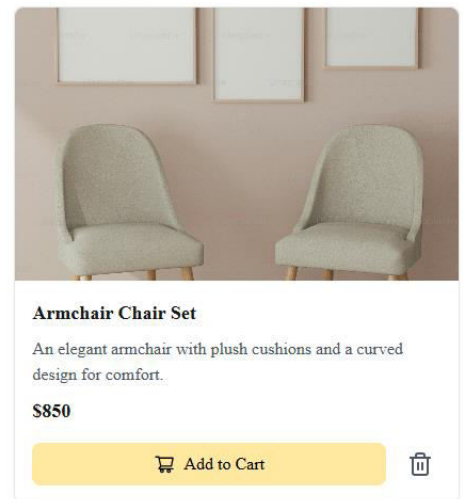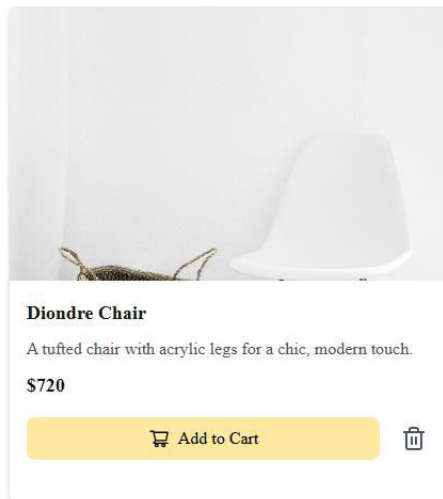Share:

| 1 | **Add to Cart**

SearchBar

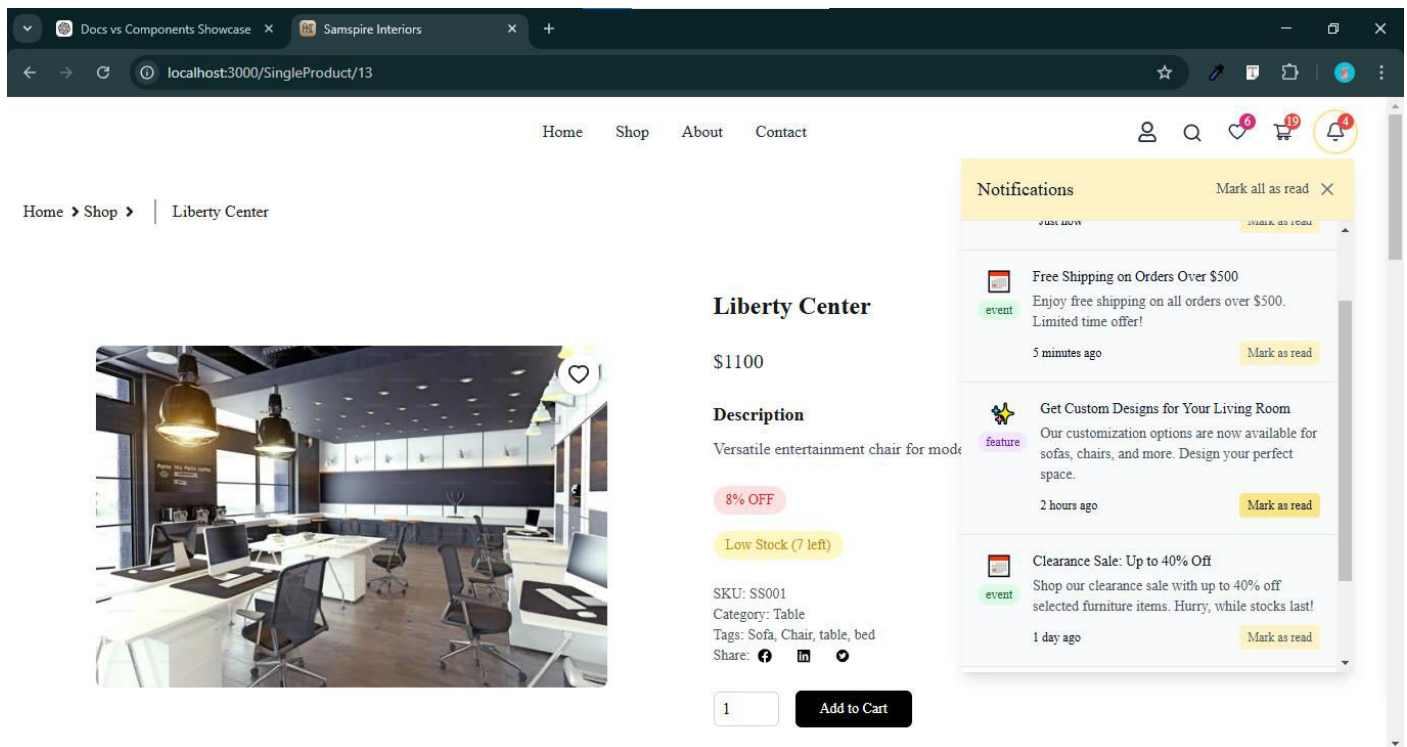- Provides a search input field with auto-suggestions.

Favourites

- Handles the user's saved products.

My Favourites

Solid Bed

Durable and lightweight plastic chair for everyday use.

$100

Add to Cart

Diondre Chair

A tufted chair with acrylic legs for a chic, modern touch.

$720

Add to Cart

Armchair Chair Set

An elegant armchair with plush cushions and a curved design for comfort.

$850

Add to Cart
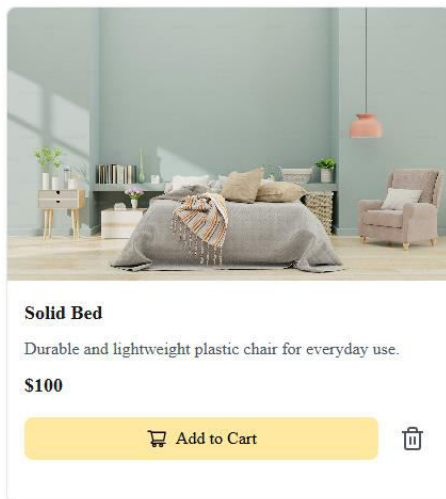
Notifications

- Manages user notifications for updates, promotions, and alerts.

PopUpCart

- Displays a quick view of the shopping cart as a pop-up.
- Allows users to review items without navigating away.
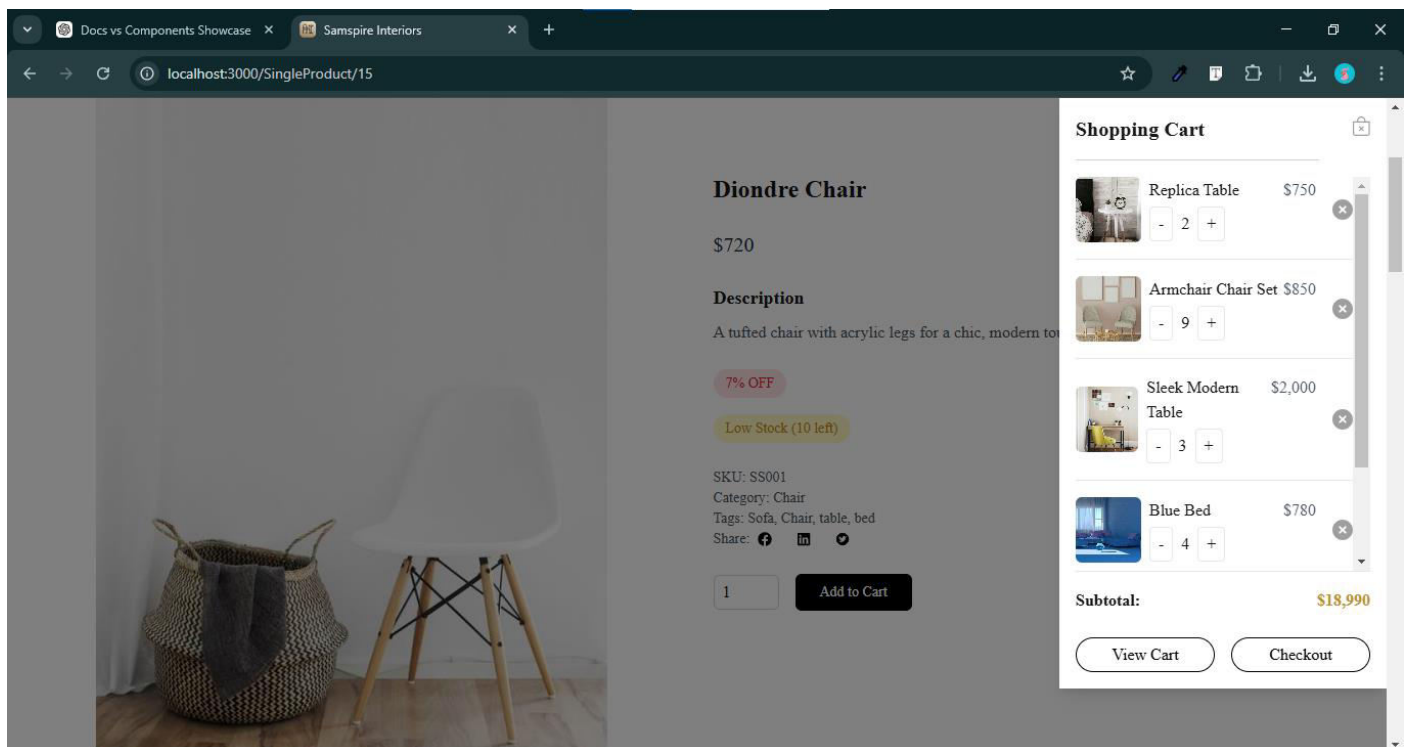
ProductReviews

- Displays user-generated reviews for individual products.
- Includes star ratings, review texts, and timestamps.

Share Your Review

Your Name

Your Review

⭐⭐⭐⭐⭐ 5

Submit Review

User Reviews

Sameed
very Comfortable & affordable
⭐ 4 / 5

ShopFilter

- Provides filtering options for the shop page.
- Includes categories, price ranges, and other sorting methods.

All Categories ⌄ | Showing Filtered Results   Show [14 ⌄] Sort by [Price: High to Low ⌄]

ShopFooterTop

- A section at the top of the shop page footer.
- May contain promotional messages, quick links, or trust signals.

Free Delivery
For all orders over $50, consectetur adipiscing elit.

90 Days Return
If guests have problems, consectetur adipiscing elit.

Secure Payment
100% secure payment, consectetur adipiscing elit.

ShopTopPicks

- Highlights selected products from the shop.
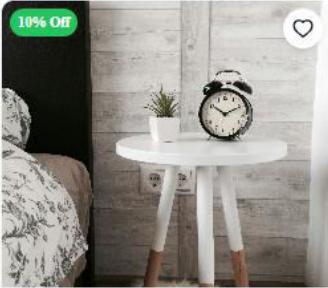- Used to promote trending or best-selling items.

Armchair Chair Set
An elegant armchair with plush cushions and a curved design for comfort.
$850
Add to Cart | View Details

Replica Table — 10% Off
Classic wishbone chair with a dark walnut frame and cord seat.
$750
Add to Cart | View Details

Sleek Modern Table
A modern chair with a carbon fiber frame and bold red accents.
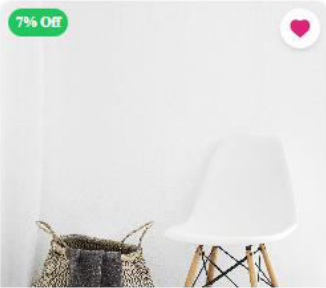$2000
Add to Cart | View Details

Liberty Center — 8% Off
Versatile entertainment chair for modern interiors.
$1100
Add to Cart | View Details

Diondre Chair — 7% Off
A tufted chair with acrylic legs for a chic, modern touch.
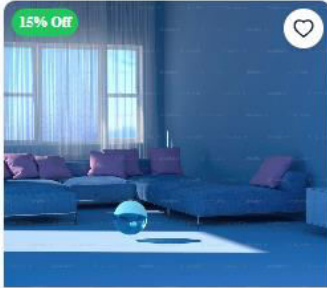$720
Add to Cart | View Details

Solid Bed — 25% Off
Durable and lightweight plastic chair for everyday use.
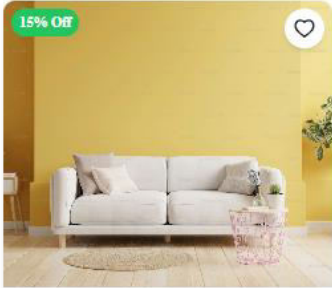$100
Add to Cart | View Details

Blue Bed — 15% Off
A modern cantilever chair with a unique floating effect.
$780
Add to Cart | View Details

Rapson Thirty-Nine Sofa — 15% Off
A mid-century modern chair with clean lines and durable materials.
$1300
Add to Cart | View Details

SingleProductDescription

- Displays an in-depth description of a product.
- Includes materials, dimensions, care instructions, and more.

Description **Additional Information** Reviews [5]

Style and Suitability

Design Style: A Modern Scandinavian design with minimalist lines and a timeless aesthetic.

Room Suitability:
- Ideal for dining rooms, home offices, or living rooms.
- Fits perfectly in both compact and spacious interiors.

Usage:
- Great for hosting dinner parties or as a stylish work desk.
- Versatile enough for both formal and casual settings.

Features and Benefits

Weight Capacity: Supports up to 400 lbs for durable and long-term use.

Eco-Friendly: Made from sustainable and FSC-certified wood.

Customizable Options: Choose from various finishes and fabric options for upholstery (if applicable).

Special Features:
- Scratch-resistant coating for everyday wear and tear.
- Rounded edges for child safety.
- Adjustable feet to ensure stability on uneven floors.

Shipping & Delivery

Shipping Time: Delivered within 5-7 business days.

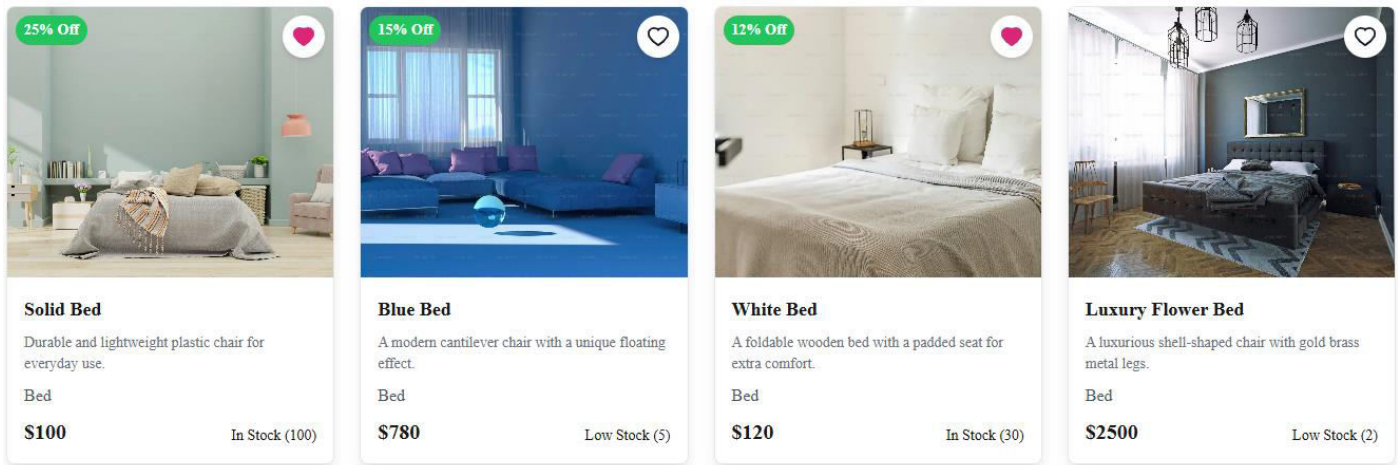Delivery Options: Free curbside delivery or paid in-home setup.

Packaging: Ships in flat-pack boxes with recyclable packaging materials.

RelatedProducts

- Shows related products based on the currently viewed item.
- Encourages users to explore similar items.

Related Products

6. Context Explanation

Located in `src/context`, these provide global state management across the application.

CartContext

- Handles cart functionality such as adding, removing, and updating products.
- Used in `Cart`, `Checkout`, and `Shop` pages.

FavouritesContext

- Manages the user's favorite (wishlist) products.
- Used in the Wishlist and Product pages.

ReviewContext

- Handles fetching and storing product reviews.
- Used in Product and ProductReviews components.

7. Lib & Utils Explanation

Located in `src/lib` and `src/utils`, these contain helper functions and reusable logic.

Lib

Manages local storage solutions.

- **Local Database (IndexedDB) for Reviews:**
  - `db.ts` – Implements an IndexedDB solution using **Dexie.js** for storing user reviews.

- o **Structure:**
  - **ID (`id`)** – Auto-incremented unique identifier for each review.
  - **Name (`name`)** – Name of the reviewer.
  - **Comment (`comment`)** – Review content.
  - **Rating (`rating`)** – User rating (numeric value).
- o **Usage:**
  - Stores user reviews locally in the browser.
  - Allows adding, retrieving, updating, and deleting reviews.

Utils

Contains utility functions for data manipulation.

- **Mock Data & Testing:**
  - o `mock.ts` – Provides mock data for testing purposes.

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8. Backend & CMS (Sanity.io)

Sanity Integration

- Content is managed via Sanity.
- The `/studio` folder includes Sanity configuration.

Data Structure

- `Products` – Stores product information.

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9. Deployment & Configuration

Environment Variables

- `.env.local` contains sensitive credentials.

Deployment

- Hosted on Vercel.
- Continuous deployment through GitHub.

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10. Conclusion

This documentation serves as a developer guide to understanding the project structure, functionalities, and setup. Future updates should be documented to maintain clarity.

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