

Template 2 “Avion” E Commerce Website

1. Concept Overview

We created a scalable, user-friendly **Avion Chairs Marketplace Platform** focusing on:

- **Smooth User Experience** for browsing and purchasing chairs.
- **Efficient Admin Tools** to manage products, orders, and shipments.
- **API Integration** for dynamic data management and shipment tracking.

2. Identified Challenges and Solutions

1. **Managing Product Data Efficiently**
 - **Solution:** Use a headless CMS (Sanity) to handle product data dynamically. This allows the admin to update inventory without backend changes.
2. **Real-Time Shipment Tracking**
 - **Solution:** Integrate a third-party shipment tracking API to fetch order status and delivery updates.
3. **Streamlined Checkout**
 - **Solution:** Simplify checkout into clear steps: cart review → subtotal → payment, with real-time payment status updates.
4. **Separate Roles for Users and Admins**
 - **Solution:** Provide a clean interface for users and a dashboard for admins to manage the backend efficiently.

3. Key Features

User Features

- Browse products with filters (e.g., size, price, category).
- Add items to cart, view subtotal, and checkout.
- Track order and shipment updates after purchase.

Admin Features

- Add or edit products using Sanity CMS.
 - View and manage orders in real time.
 - Monitor shipment status via an integrated API.
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4. API Design

1. products Endpoint

- **Method:** GET
- **Purpose:** Fetch all products from the database.
- **Response:** Product details (name, price, stock, image).

2. orders Endpoint

- **Method:** POST
- **Purpose:** Create a new order.
- **Payload:** Customer info, product details, and payment status.

3. /shipment Endpoint

- **Method:** GET
 - **Purpose:** Track order shipment status.
 - **Response:** Order ID, shipment status, and delivery date.
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5. User Journey

1. **Homepage:** Users explore featured products and categories.
 2. **Shop:** Browse items, view product details, and add to cart.
 3. **Cart:** Review items, apply promo codes, and proceed to checkout.
 4. **Checkout:** Complete payment to place an order and start shipment.
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6. Admin Workflow

1. **Product Management:** Use Sanity CMS to add/edit products.
2. **Order Management:** View orders and track payment status.
3. **Shipment Tracking:** Fetch shipment status through APIs and update users.