# E-Commerce Furniture Project

This project is an e-commerce platform that sells trendy, Pinterest-inspired, and affordable furniture. The website is built using **Next.js 14** and **TypeScript** and integrates **Sanity** for data management. The system supports both **user** and **admin** functionalities, including managing products, tracking shipments, placing orders, and more.

# **API Specification**

This document outlines the API specifications for the project. The system includes the following key APIs:

**Products API**: For retrieving product data.

**Shipment API**: For managing shipments, including shipment creation, tracking, and live updates.

#### 1. Products API

Endpoint: /api/products

Method: GET

This endpoint retrieves a list of products available for sale.

#### Request

No request body is required for this endpoint.

#### Response

The response will return a list of products, each containing details like the product's name, description, price, stock quantity, and image.

```
[
{
  "id": "123",
  "name": "Modern Sofa",
  "description": "A stylish, modern sofa for your living room.",
  "price": 599.99,
  "image": "https://example.com/images/sofa.jpg",
  "category": "Sofas",
  "stock": 50
},
...
]
```

## 2. Shipment API

### My Endpoint: /api/shipmentOrder

(This endpoint will call /api/shipments/)

Shippo Endpoint: /api/shipments/

Method: POST

This endpoint creates a shipment and retrieves the shipment tracking number.

#### Request

The request body should include details about the recipient and shipment, such as the recipient's name, address, weight, and product ID.

```
"sender": {
 "name": "E-commerce Store",
 "street1": "123 Store Lane",
 "city": "San Francisco",
 "state": "CA",
 "zip": "94107",
 "country": "US"
"recipient": {
 "name": "John Doe",
 "street1": "456 User Street",
 "city": "New York",
 "state": "NY",
 "zip": "10001",
 "country": "US"
"package": {
 "length": "10",
 "width": "10",
 "height": "10",
 "distance_unit": "in",
 "weight": "5",
 "mass unit": "lb"
```

#### Response

The response will include the tracking number and additional shipment information, such as the carrier and estimated arrival time (ETA).

```
{
    "shipmentId": "987",
    "trackingNumber": "1234567890",
    "carrier": "shippo",
    "eta": "2025-01-18T10:00:00Z",
    "status": "In Transit"
}
```

### My Endpoint: /api/liveTracking

(This endpoint will call /api/tracks/{carrier}/{trackingNumber})

Shippo Endpoint: /api/tracks/{carrier}/{trackingNumber}

Method: GET

This endpoint fetches live tracking details for a shipment using the tracking number.

#### Request

#### **URL Parameters:**

carrier: The name of the shipping carrier (e.g., shippo).

tracking Number: The tracking number obtained from the /api/shipments/ endpoint.

#### Response

The response will contain the live tracking information, including the ETA, tracking history, status, and location.

```
"trackingNumber": "1234567890",
"carrier": "shippo",
"eta": "2025-01-18T10:00:00Z",
"status": "In Transit",
"trackingHistory": [
  "date": "2025-01-16T10:00:00Z",
  "location": "New York, NY",
  "status": "Shipped"
  "date": "2025-01-17T14:00:00Z",
  "location": "Philadelphia, PA",
  "status": "In Transit"
"origin": {
"city": "New York",
 "country": "US"
"destination": {
 "city": "Los Angeles",
 "country": "US"
```

# **Summary of APIs**

/api/products: Fetches product details.

/api/shipments/: Creates a shipment and retrieves a tracking number.

/api/tracks/{carrier}/{trackingNumber}: Fetches live tracking details for the shipment.

This document provides a detailed outline of the APIs used in the E-Commerce Furniture Project. These APIs ensure smooth operations for managing products, processing shipments, and providing real-time tracking updates to customers.

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