E-Commerce Furniture Project Website

This project is an e-commerce platform that sells trendy, 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 Details

This document describes the API structure for the project. The system includes the following main APIs:

- **Products API**: Fetches product information.
- **Shipment API**: Handles shipments, including creation, tracking, and real-time updates.

1. Products API

- **Endpoint**: `/api/products`
- **Method**: `GET`
- **Function**: Fetches a list of available products.

Request

- No request body is needed.

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Response

- Returns a list of products, including details such as name, description, image, price,features, dimensions, category and tags availability.

```json
[
 {
  "id":"1",
  "name":"The Poplar suede sofa",
   "description":"A design, with premium materials features as one of our most popular   and iconic pieces.",
   "image":"https.//example.com",
  "features": [
   "Premium material",
   "Handmade upholster",
   "Quality timeless classic"
   ],

    "dimensions": {
     "Width":"110cm",
     "Height":"110cm",
     "Depth":"50cm"
    },
    "category": {
     "name":"Tableware",
     "Slug":"tableware"
    },
    "Price":980,
    "tags": [
     "popular products"
    ]

 }
]
```

2. Shipment API

- **Custom Endpoint**: /api/shipmentOrder (This endpoint Calls /api/shipments/)

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- **Shippo Endpoint**: `/api/shipments/`

- **Method**: POST
- **Purpose**: Creates a shipment and provides a tracking number.

Request

- The request body must include shipment and recipient details, such as name, address, package weight, and product ID.

```json
{
  "sender": {
    "name": "E-commerce Store",
    "street1": "789 Seller Road",
    "city": "Los Angeles",
    "state": "CA",
    "zip": "90001",
    "country": "US"
  },
  "recipient": {
    "name": "Jane Smith",
    "street1": "321 Buyer Avenue",
    "city": "Chicago",
    "state": "IL",
    "zip": "60601",
    "country": "US"
  },
  "package": {
    "length": "12",
    "width": "8",
    "height": "6",
    "distance_unit": "in",
    "weight": "3",
    "mass_unit": "lb"
  }
}
```

Response

The response will provide the shipment tracking number along with other details, including the shipping provider and the estimated delivery date.

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```
{
  "shipmentId": "123",
  "trackingNumber": "1234567890",
  "carrier": "Shippo",
  "estimatedDelivery": "2025-01-18T10:00:00Z",
  "currentStatus": "In Transit"
}
```

Live Tracking API

Custom Endpoint: `/api/liveTracking`

(Calls `/api/tracks/{carrier}/{trackingNumber}`)

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

Method: `GET`

This endpoint retrieves real-time tracking updates for a shipment using its tracking number.

Request

URL Parameters:

- `carrier`: The shipping provider's name (e.g., Shippo).
- `trackingNumber`: The tracking number received from the `/api/shipments/` endpoint.

Response

The response includes real-time tracking details, such as:

- Estimated delivery time (ETA)
- Tracking history
- Current shipment status
- Last known location

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```json
{
  "trackingNumber": "1234567890",
  "carrier": "shippo",
  "eta": "2025-02-10T12:00:00Z",
  "status": "In Transit",
  "trackingHistory": [
    {
      "date": "2025-01-08T09:00:00Z",
      "location": "Chicago, IL",
      "status": "Shipped"
    },
    {
      "date": "2025-02-09T16:00:00Z",
      "location": "Denver, CO",
      "status": "In Transit"
    }
  ],
  "origin": {
    "city": "Chicag",
    "country": "US"
  },
  "destination": {
    "city": "San Francisco",
    "country": "US"
  }
}
```

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API Overview

- **`/api/products`** – Fetches product details.
- **`/api/shipments/`** – Creates a shipment and provides a tracking number.
- **`/api/tracks/{carrier}/{trackingNumber}`** – Gives live tracking updates for a shipment.

This document explains the APIs used in the E-Commerce Furniture Project. These APIs help manage products, handle shipments, and track orders in real time.

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