API Endpoints

1. Home Page API

- Endpoint: / (GET)
- Description: Fetch new arrivals and featured clothes.
- Response: JSON array of products categorized as "new arrivals" or "featured".
- Query Parameters: ?limit=10 for paginated responses.
- · Example Response:

```
{
   "newArrivals": [{ "id": 1, "name": "Dress A", "price": 50 }],
   "featured": [{ "id": 2, "name": "Jacket B", "price": 80 }]
}
```

2. Products API

- Endpoint: /products (GET)
- Description: Fetch products by category and apply filters.
- · Request Parameters:
 - ?category=women → Filter by category.
 - ?priceRange=100-500 → Filter by price range.
 - ?sort=price → Sort by price or relevance.
- Response: JSON array of products matching filters.
- · Example Response:

```
[
    { "id": 1, "name": "T-shirt", "price": 20, "category": "women" },
    { "id": 2, "name": "Skirt", "price": 35, "category": "women" }
]
```

3. Single Product API

- Endpoint: /product/:id (GET)
- Description: Fetch specific product details.
- Request Parameters: :id → Product ID (e.g., /product/123).
- Response: JSON object with detailed product info.
- Example Response:

```
"id": 123,
   "name": "Winter Coat",
   "description": "Warm and stylish coat.",
   "price": 150,
   "stock": 25,
   "images": ["image1.jpg", "image2.jpg"]
}
```

3.1. Cart Management (State Management)

- Description: Manage user's shopping cart using state management (Zustand).
- Actions:
 - Add to Cart: Add a product to the user's cart.
 - Remove from Cart: Remove a product from the user's cart.
 - Fetch Cart Items: Retrieve all products in the user's cart.
- o State Structure:

- Example Actions:
 - Add to Cart:

```
addToCart({ productId: 101, name: "T-shirt", price: 20, quantity: 2 });
```

Remove from Cart:

```
removeFromCart(101);
```

Fetch Cart Items:

```
const cartItems = getCartItems();
```

- o Example State Update:
 - Add to Cart:

```
{
    "message": "Product added to cart successfully."
}
```

Remove from Cart:

```
{
    "message": "Product removed from cart successfully."
}
```

4. Orders API

- Endpoint: /orders (POST)
- Description: Save the order and process payment.
- Request Body:

- Response: Confirm order status and payment.
- Example Response:

```
{
   "orderId": "ORD12345",
   "status": "success",
   "message": "Order placed successfully."
}
```

5. Shipment API

- Endpoint: /shipment (GET)
- Description: Fetch all orders and their payment status.
- $\bullet \ \ \textbf{Request Parameters:} : ? userId=1 \ \rightarrow \text{Fetch shipments for a specific user}.$
- Response: JSON array of orders with shipment and payment status.
- Example Response: