Plan API Requirements

1. Sanity CMS API

1.1 Fetch Products

- **Endpoint Name**: /products
- **Method**: GET
- **Description**: Fetch all available product details stored in Sanity CMS.
- **Response**: A list of products with details such as id, name, price, stock, and image.

Response Example:

```json
            "name": "Product A",
            "price": 100,
            "stock": 20,
            "image": "https://example.com/images/product-a.jpg"
        },
        {
            "id": 2,
            "name": "Product B",
            "price": 150,
            "stock": 15,
            "image": "https://example.com/images/product-b.jpg"
        }
    ]
```

1.2 Create an Order

- **Endpoint Name**: /order
- **Method**: POST
- **Description**: Create a new order in Sanity CMS when a user places an order.
- **Payload**: Customer information (name, email, shipping address), list of product details (productId, quantity), and payment status.

Request Payload Example:

```json
{
    "customer": {
        "name": "John Doe",
        "email": "john.doe@example.com",
        "shippingAddress": "123 Main St, City, Country"
    },
    "items": [
        {
            "productId": 1,
            "quantity": 2
        },
        {
            "productId": 2,
            "quantity": 1
        }
    ],
    "paymentStatus": "pending"
}
```

Response Example:

```json
{
    "orderId": 12345,
    "status": "order created",
    "orderDate": "2025-01-16",
    "totalPrice": 350
}
```

2. Shipment Tracking API (ShipEngine)

2.1 Track Shipment

- **Endpoint Name**: /shipment
- **Method**: GET
- **Description**: Track the shipment status of an order via the ShipEngine API.
- **Response**: Shipment ID, order ID, shipment status, and expected delivery date.

Request Example:

```
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GET /shipment?orderId=12345
```

Response Example:

```json
{
    "shipmentId": "SHIP123456789",
    "orderId": 12345,
    "status": "in transit",
    "expectedDelivery": "2025-01-20"
}
```

3. Payment Gateway API (Stripe)

3.1 Create Payment Intent

- **Endpoint Name**: /payment-intent
- **Method**: POST
- **Description**: Create a payment intent to process a payment through Stripe.
- **Payload**: Order details (total amount, currency, customer email).

Request Payload Example:

```json
{
    "amount": 35000, // Amount in cents (35000 = $350)
    "currency": "usd",
    "customerEmail": "john.doe@example.com"
}
```

Response Example:

```json
{
    "paymentIntentId": "pi_1GmUvJ2eZvkYlo2cvHGYYU0",
    "clientSecret": "secret_1234567890"
}
```

3.2 Confirm Payment

- **Endpoint Name**: /payment-confirm
- **Method**: POST
- **Description**: Confirm payment by providing the payment intent ID and client secret after the customer completes the payment.
- **Payload**: Payment Intent ID and Client Secret.

Request Payload Example:

```json
{
    "paymentIntentId": "pi_1GmUvJ2eZvKYlo2cvrhGYYUO",
    "clientSecret": "secret_1234567890"
}
```

Response Example:

```json
{
    "status": "succeeded",
    "paymentIntentId": "pi_1GmUvJ2eZvKYlo2cvrhGYYUO",
    "amountReceived": 35000
}
```

4. Additional API Requirements

4.1 User Registration

- **Endpoint Name**: /register
- **Method**: POST
- **Description**: Register a new user and store their details in Sanity CMS.
- **Payload**: User details (name, email, password, address, phone).

Request Payload Example

```json
{
    "name": "John Doe",
    "email": "john.doe@example.com",
    "password": "securepassword123",
    "address": "123 Main St, City, Country",
    "phone": "+1234567890"
}
```

Response Example:

```json
{
    "userId": 123,
    "status": "registered",
    "message": "User registered successfully"
}
```

4.2 Fetch User Orders

- **Endpoint Name**: /user-orders
- **Method**: GET
- **Description**: Fetch all orders placed by a specific user.
- **Response**: List of orders with details such as orderId, status, totalPrice, and orderDate.

Request Example:

```
GET /user-orders?userId=123
```

Response Example:

```json
[
    {
        "orderId": 12345,
        "status": "shipped",
        "totalPrice": 350,
        "orderDate": "2025-01-16"
    },
    {
        "orderId": 12346,
        "status": "pending",
        "totalPrice": 200,
        "orderDate": "2025-01-17"
    }
]
```

Summary

This API plan outlines the key endpoints required for the "ElevaShop" project, covering:

1. **Sanity CMS** for product and order management.
2. **ShipEngine** for shipment tracking.
3. **Stripe** for payment processing.
4. **Additional APIs** for user registration and order history.

These APIs ensure seamless integration between the frontend (Next.js) and backend services, providing a smooth and efficient user experience.