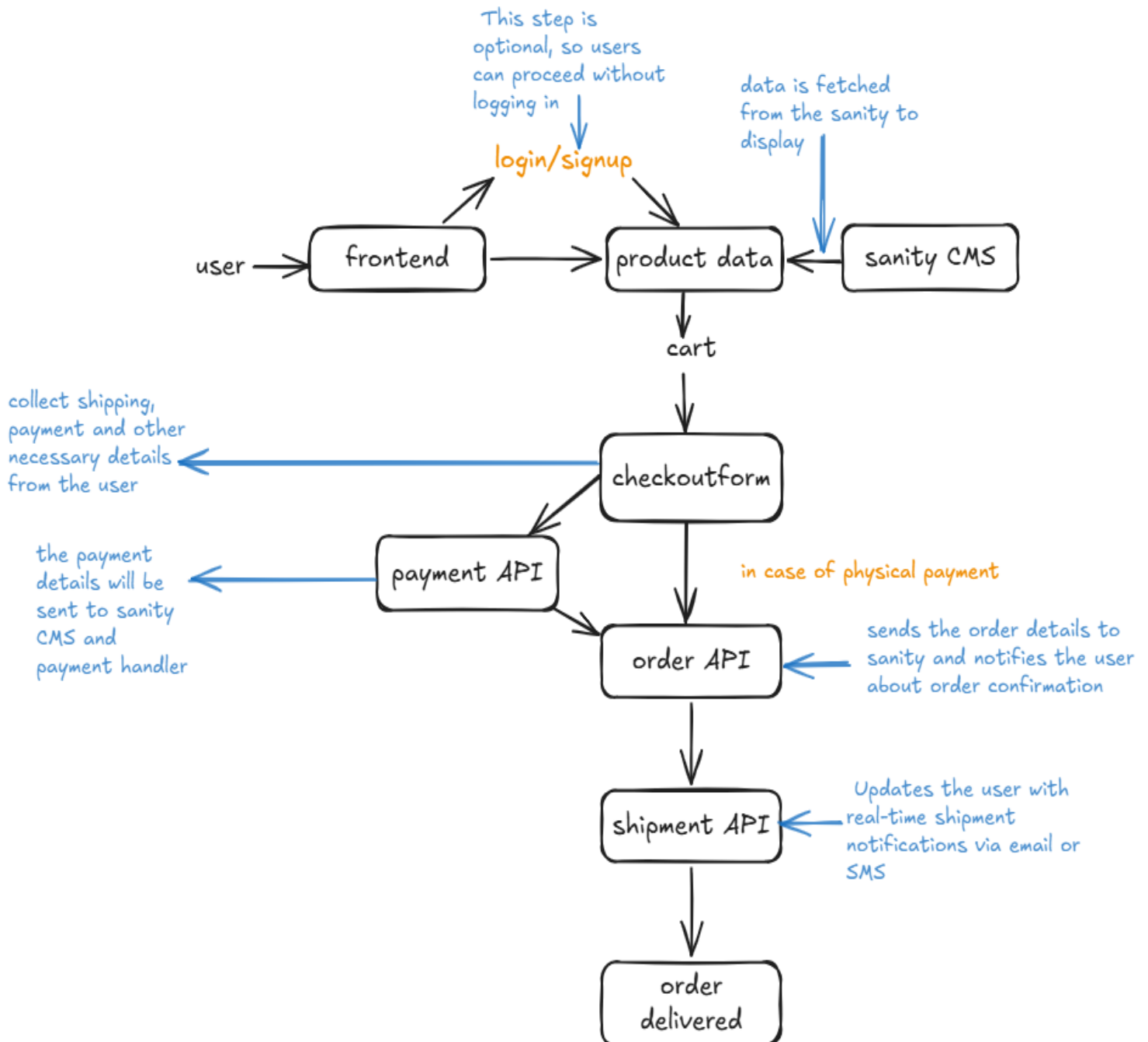


System Architecture Overview for General E-commerce website



API REQUIREMENTS AND ENDPOINTS

1. User Authentication Endpoints:

a. api/auth/signup

- **Method:** POST
- **Description:** Allows a new user to sign up by providing their details.
- **Response:** user ID

b. api/auth/login

- **Method:** POST
- **Description:** Allows an existing user to log in with their credentials.
- **Response:** user ID

2. Product Data Endpoints:

a. api/products

- **Method:** GET
- **Description:** Fetches a list of products from sanity CMS.
- **Response:** product ID, name, price, stock, image

b. api/products/[product]

- **Method:** GET
- **Description:** Fetches detailed information for a specific product by its ID.
- **Response:** product ID, name, price, stock, image, description

3. Order Management Endpoints:

a. api/orders

- **Method:** POST
- **Description:** Sends the order, payment method and shipping details to sanity CMS.
- **Response:** success, order ID

4. Payment Endpoints:

a. api/payment

- **Method:** POST
- **Description:** Processes a payment for an order.
- **Response:** payment status

5. Shipment Endpoints:

a. api/shipment

- **Method:** POST
- **Description:** Initiates the shipment process for an order.
- **Response:** shipment ID, tracking number, delivery date

b. api/shipment/[shipment ID]

- **Method:** POST
- **Description:** Fetches the shipment status and tracking information for a specific shipment.
- **Response:** status, delivery date

Sanity Schema Example

```
export default defineType({
  name: "product",
  title: "Product",
  type: "document",
  fields: [
    {
      name: "title",
      title: "Title",
      validation: (rule) => rule.required(),
      type: "string"
    },
    {
      name: "description",
      type: "text",
      validation: (rule) => rule.required(),
      title: "Description",
    },
    {
      name: "productImage",
      type: "image",
      validation: (rule) => rule.required(),
      title: "Product Image"
    },
    {
      name: "price",
      type: "number",
      validation: (rule) => rule.required(),
      title: "Price",
    },
    {
      name: "tags",
      type: "array",
      title: "Tags",
      of: [{ type: "string" }]
    },
  ],
})
```