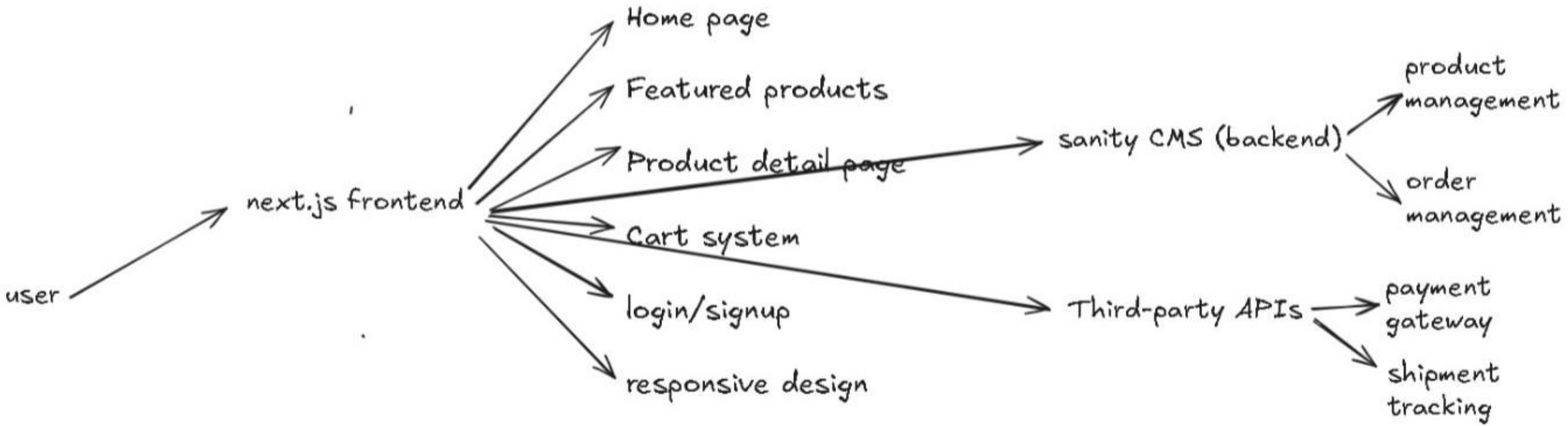
Day 2 Planning the technical foundation:

my marketplace name is comforty my technical thinking about my website is

- Technical Requirments

- Frontend: my marketplace will include good user interface, with homepage, featured products, product listing, cart items, checkout and login/signup functionality and responsive design
- Sanity CMS: products and orders will manage from sanity
- Third party APIS: payment gateways, shipment tracking will manage from third party APIS

- Plan The System Architecture



3: Workflow

User Registration

1: User signs up on the frontend.

2: Data is stored in Sanity CMS.

3: A confirmation email is sent to the user.

Product Browsing

1: User navigates through product categories.

2: The frontend requests product data from Sanity CMS.

3: Products are fetched and displayed dynamically.

Order Placement

1: User adds products to the cart.

2: Proceeds to checkout and confirms the order.

3: Order details are stored in Sanity CMS.

4: Payment is processed via the Payment Gateway API.

Shipment Tracking

1: The system requests order status updates from the Shipment Tracking API.

2: Real-time tracking details are displayed to the user.

4. Data Flow & Integration

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Frontend ↔ Sanity CMS: Handles authentication, product retrieval, and order management.

Frontend ↔ Third-Party APIs: Fetches payment and shipment status updates.

Sanity CMS ↔ Third-Party APIs: Syncs order and tracking information.

4: Category-Specific Instructions

- General e-commerce (Comforty):
    - Focus on: Standard product browsing, cart management, wishlist, and order placement.
    - Inventory management and real-time stock updates.

- Workflow Example:
    - Endpoint: /products
    - Method: GET
    - Purpose: Fetch all Comforty product listings.

Response Example:


```
[
  {
    "name": "Comforty Sofa",
    "id": "1",
    "image": "https://comfortysofa.png",
    "description": "comfortable and fancy sofa",
    "price": 2000,
    "discountPrice": 500,
    "stock": 39,
    "reviews": 50
  }
]
```

5: API Endpoints

Endpoint	Method	Purpose	Response Example
/products	GET	Fetch all comforty product detail	[{"name": "comforty sofa", "id": "1", "price":1500}]
/order	POST	Submit new order details	{"orderid":123, "status":"success"}
/shipment-tracking	GET	Fetch real-time tracking updates	{"trackingid":"AB123", "status": "In Transit"}
/shipment-tracking	GET	Fetch express delivery tracking info	{"orderid": 456, "deliveryTime": "30 mins"}
/inventory	POST	Fetch real-time stock levels	{"productid": 789, "stock": 39}
/cart	POST	Add product to cart	{"wishlistid": 202, "items": [...]}

6: Sanity Schema

```
import { defineField, defineType } from 'sanity';

export default defineType({
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    defineField({
      name: 'name',
      title: 'Name',
      type: 'string',
    }),
    defineField({
      name: 'id',
      title: 'ID',
      type: 'string',
    }),
    defineField({
      name: 'image',
      title: 'Image',
      type: 'image',
      options: {
        hotspot: true,
      },
    }),
```

```
    hotspot: true,
  },
}),
defineField({
  name: 'description',
  title: 'Description',
  type: 'text',
}),
defineField({
  name: 'price',
  title: 'Price',
  type: 'number',
}),
defineField({
  name: 'discountPrice',
  title: 'Discount Price',
  type: 'number',
}),
defineField({
  name: 'stock',
  title: 'Stock',
  type: 'number',
}),
defineField({
  name: 'reviews',
  title: 'Reviews',
  type: 'array',
```

```
    title: 'Reviews',
    type: 'array',
    of: [
      {
        type: 'object',
        fields: [
          defineField({
            name: 'rating',
            title: 'Rating',
            type: 'number',
            validation: Rule => Rule.min(1).max(5),
          }),
          defineField({
            name: 'comment',
            title: 'Comment',
            type: 'text',
          }),
        ],
      },
    ],
  }),
],
});
```