

PLANNING THE TECHNICAL FOUNDATION

Step 1: DEFINE TECHNICAL REQUIREMENTS

Frontend Requirements:

1. Framework: Next.js + TailwindCSS
2. Pages:
 - Home
 - Product Listing
 - Product Details
 - Cart
 - Checkout
 - Order Confirmation
3. Mobile-friendly & responsive UI

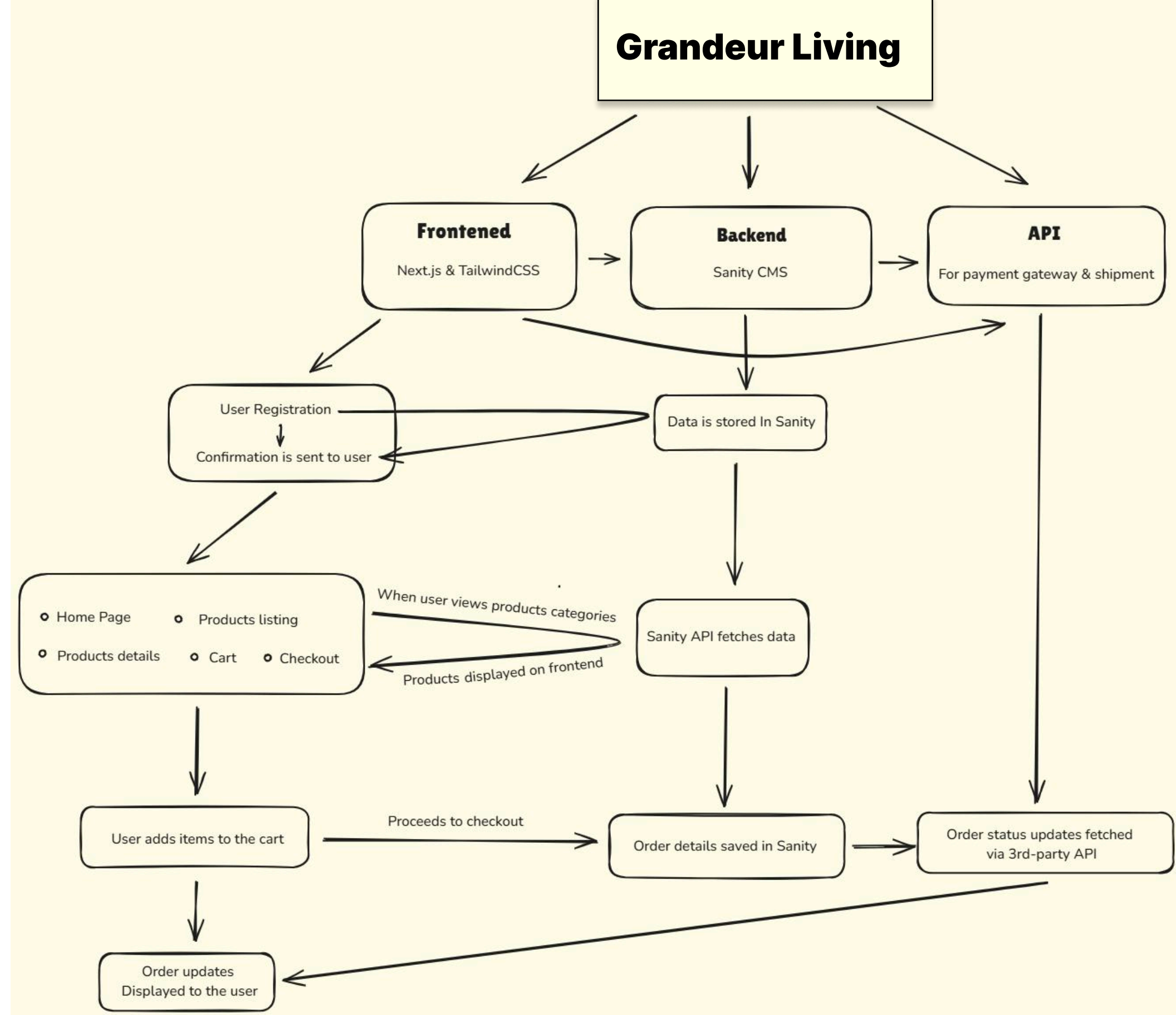
Backend Requirements (Using Sanity CMS + APIs).

1. Sanity CMS for managing:
 - Products
 - Customers
 - Orders

Third-Party APIs for:

- Stripe for payment processing.
- Authentication system.
- Shipment tracking API.

Step 02 & 3: SYSTEM ARCHITECTURE AND WORKFLOW



Step 04: API SPECIFICATION

The necessary API endpoints for product retrieval, order management, shipment tracking, payment processing, and authentication.

Products API:

- GET /products → Fetch all available products
- GET /product/:id → Fetch details of a specific product.

Orders API:

- POST /orders → Create a new order
- GET /order/:id → Fetch details of a specific order

Shipment APL:

- GET /shipment/:orderId → Fetch shipment tracking info

POST (also about 50 pages)

- POST /checkout - Process payment through stripe

- POST /auth/register

- POST /auth/login → Authenticate user & issue token

Step 03: DATA SCHEMA DESIGN

```

name: 'product',
title: 'Product',
type: 'document',
fields: [
  { name: 'name', type: 'string', title: 'Product Name' },
  { name: 'description', type: 'text', title: 'Description' },
  { name: 'price', type: 'number', title: 'Price' },
  { name: 'stock', type: 'number', title: 'Stock Level' },
  { name: 'category', type: 'reference', to: [{ type: 'category' }], title: 'Category' },
  { name: 'images', type: 'array', of: [{ type: 'image' }], title: 'Product Images' },
  { name: 'tags', type: 'array', of: [{ type: 'string' }], title: 'Tags' }
]
};

```

Category: General:

```
export default {
  name: 'category',
  title: 'category',
  type: 'document',
  fields: [
    { name: 'name', type: 'string', title: 'Category Name' },
    { name: 'description', type: 'text', title: 'Description' },
    { name: 'parentCategory', type: 'reference', to: [{ type: 'category' }],
      title: 'Parent Category' },
  ]
};
```

```
export default {
  name: 'customer',
  title: 'customer',
  type: 'document',
  fields: [
    { name: 'name', type: 'string', title: 'Full Name' },
    { name: 'email', type: 'string', title: 'email' },
    { name: 'phone', type: 'string', title: 'Phone number' },
    { name: 'address', type: 'text', title: 'address' },
  ]
};
```

Order Schema:

```
export default {
  name: 'order',
  title: 'Order',
  type: 'document',
  fields: [
    { name: 'customer', type: 'reference', to: [{ type: 'customer' }],
      title: 'Customer' },
    { name: 'products', type: 'array', of: [{ type: 'reference', to:
      [{ type: 'product' } ]}], title: 'Products' },
    { name: 'totalAmount', type: 'number', title: 'Total Amount' },
    { name: 'status', type: 'string', title: 'Status',
      options: { list: ['Pending', 'Shipped', 'Delivered', 'Canceled'] } },
    { name: 'timestamp', type: 'datetime', title: 'Order Date' }
  ]
};
```

```

title: 'payment',
type: 'document',
fields: [
  { name: 'order', type: 'reference', to: [{ type: 'order' }], title: 'Order' },
  { name: 'amount', type: 'number', title: 'Amount' },
  { name: 'method', type: 'string', title: 'Payment Method',
    options: { list: ['Credit Card', 'PayPal', 'Cash on Delivery'] } },
  { name: 'status', type: 'string', title: 'Status',
    options: { list: ['Paid', 'Pending', 'Failed'] } },
  { name: 'timestamp', type: 'datetime', title: 'Order Date' }
]

```