

Name & Address

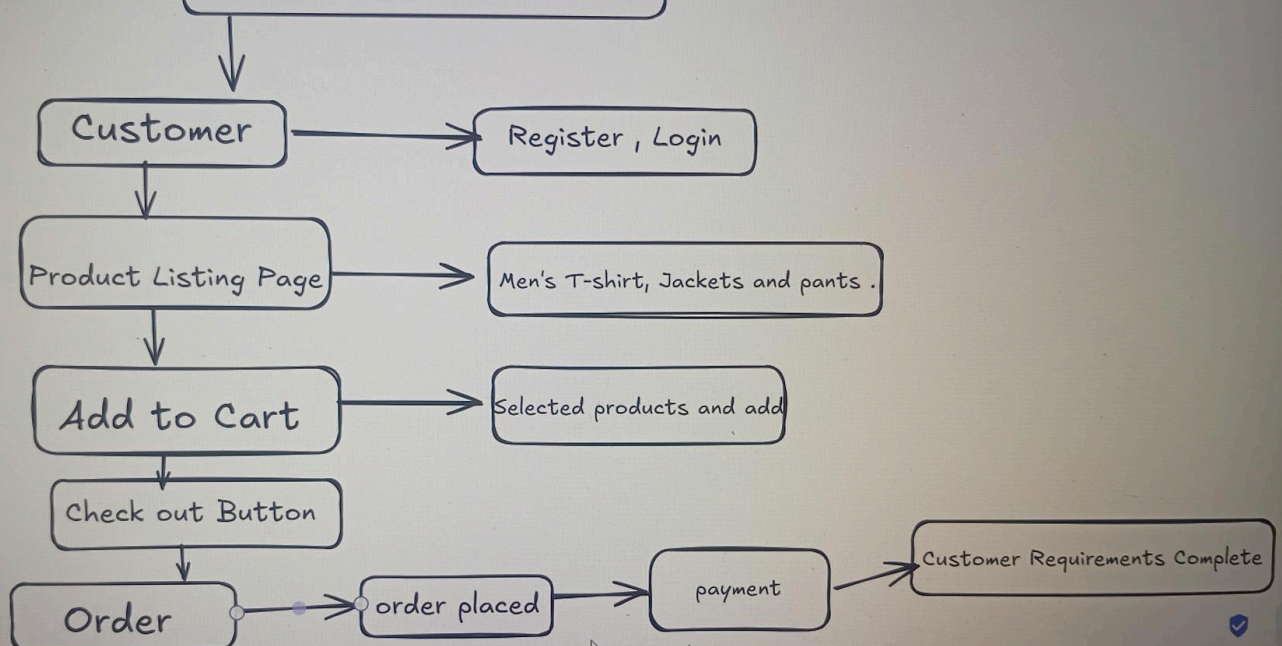
Phone / Fax / Mobile / E-mail

Day : 02

Planning The

Technical Foundation

Frontend Achievements



Name & Address

Phone / Fax / Mobile / E-mail

Definition:

The first step is to translate my business goals that means technical requirements. My business goals meets with the e-commerce projects. In this project, I will define clearly that my project is well structured, functional and user expectations.

Purpose:

My purpose related to the project that users and customers that can easily be interacted and understand my project details.

Name & Address

Phone / Fax / Mobile / E-mail

Frontend Requirements

User friendly interface:

In frontend requirement, users customers can easily register and login into my website and buy it some products like pants, T-shirt and jacket and customers have an option to choose products that add to cart and checkout and payments.

Responsive design:

The website should work seamlessly on both mobile and desktop screens. ~~Customers~~ 'Use frameworks like Tailwind CSS or custom CSS to ensure responsiveness

Essential Pages:

- Home Page: Highlight featured products and offers.
- Product Listing Page: Display all products and mention price.
- Product detail Page: Providing information about image, price, description and name.
- Cart and Checkout: Users review and selected items.
- Order : Confirm selected products and display order details.

Name & Address

Phone / Fax / Mobile / E-mail

Backend with Sanity CMS:

Sanity CMS is the head of the data handling products ~~set~~ customer details and orders. Using fetch data backend from sanity and shows on frontend that the schema is defined here:

```
export default: {
```

```
  name : 'product'
```

```
  type : 'document'
```

```
  title : 'Product'
```

```
  field : [
```

```
    { name : 'name', type : 'string', title : 'Name' },
```

```
    { name : 'price', type : 'number', title : 'Price' },
```

```
    { name : 'description', type : 'text', title : 'Description' },
```

```
    { name : 'image', type : 'Image', title : 'Image' }.
```


Name & Address

Phone / Fax / Mobile / E-mail

Third Party API

Third Party API enhances functionality by providing additional services like payment processing and shipment tracking.

Payment Gateway integration:

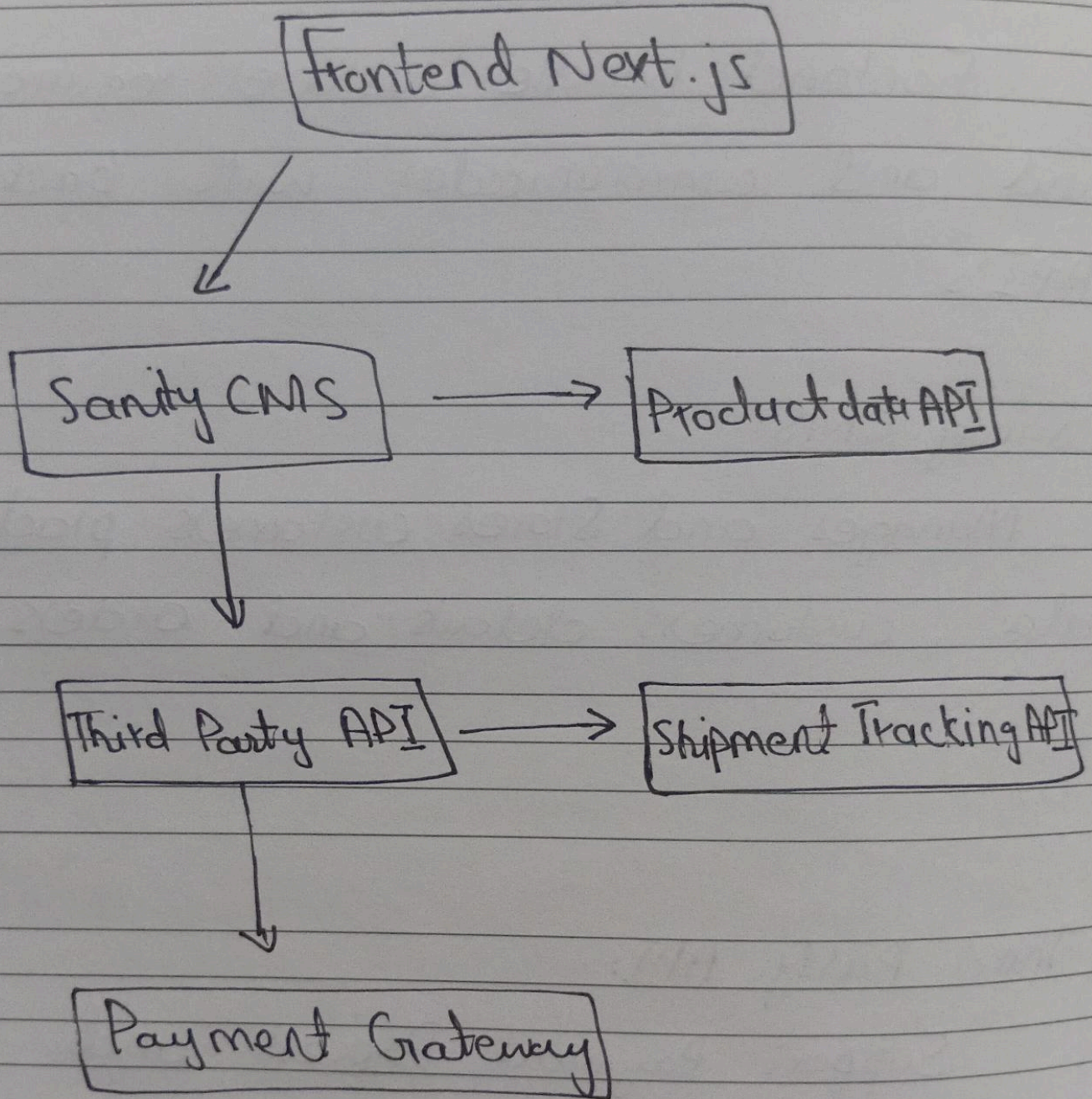
Use API like Stripe ~~to~~ or PayPal to process transactions securely.

Shipment Tracking API:

Integrate API to allow Customers to track the status of orders their.

Monday
23 ربيع الأول

Architecture Diagram



Tuesday
24 ربيع الأول

Wednesday
25 ربيع الأول

NOTES

Architecture Explained

④

① Frontend (Next.js) :

Frontend handle customer requirements and communicates with backend API's.

② Sanity CMS:

Manages and Stores customers product data, customers details and orders.

③ Third-Party API:

Support Payment Process and Shipment tracking.

Name & Address

Phone / Fax / Mobile / E-mail

③ API Requirements

API requirements are essentials for the

frontend and backend communication. They help

fetch data, update, put and delete data

related to the design of Schema that customers
wants.

Endpoints / product

Method : GET

Description : Fetch all products ~~from security~~ CMS details:

Response : {

 "id": 1

 "name": Product

 "price": 100

}

Phone / Fax / Mobile / E-mail

Name & Address

Endpoints Name: products

Method : GET
 Description : fetch all products from sanity.
 Response :
 { "id" : 1
 "name" : Product
 "price" : 100. },

Endpoints Orders:

Method : POST
 Description : Create a new order in sanity cms.
 Response :
 { "customerId" : 101,
 productDetails : [
 { "id" : 1, "quantity" : 2 },
 { "id" : 2, "quantity" : 1 }
], payment status : ~~Post~~ "Paid" }

Endpoints Shipment :

Method : GET
 Description : fetch shipment details for a specific order.
 Response : { "orderId" : 202,
 "status" : "Shipped"
 "trackingId" : "TRK 12345"