Day 2 Hackhtaon Planning The Technical Foundation
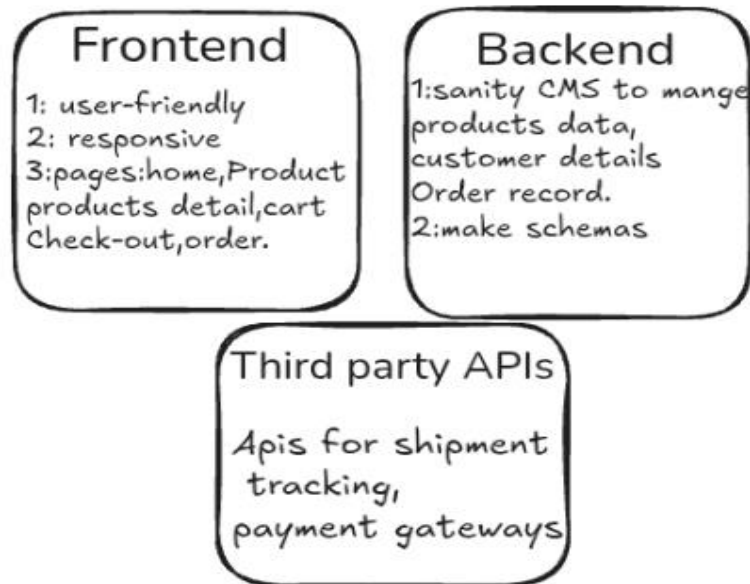
Hackathon day: 2
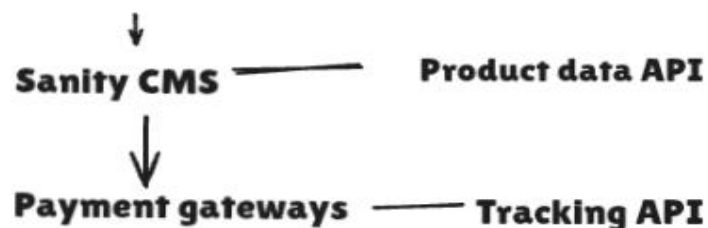## Planning The Technical Foundation
E-commerce website

Frontend

1: user-friendly
2: responsive
3:pages:home,Product
products detail,cart
Check-out,order.

Backend

1:sanity CMS to mange
products data,
customer details
Order record.
2:make schemas

Third party APIs

Apis for shipment
tracking,
payment gateways

Design architecture

Frontend (nextjs)

↓

Sanity CMS ——— **Product data API**

↓

Payment gateways ——— **Tracking API**

Key workflows:

1- User Sign up with E-mail
2- Explore products
3- Place order
4- Shipment.
5 - Order recieve.

Plan APIs :

General E-Commerce.

- Endpoint : /Products.
- Method : Get.
- Description : Fetch all detail Product.
- Response e.g:

```
{ "Id" : 1,
  "name": "Products"
  "Price" : "200"
  "color" : "Black"
  "Size" : "XL" }
```
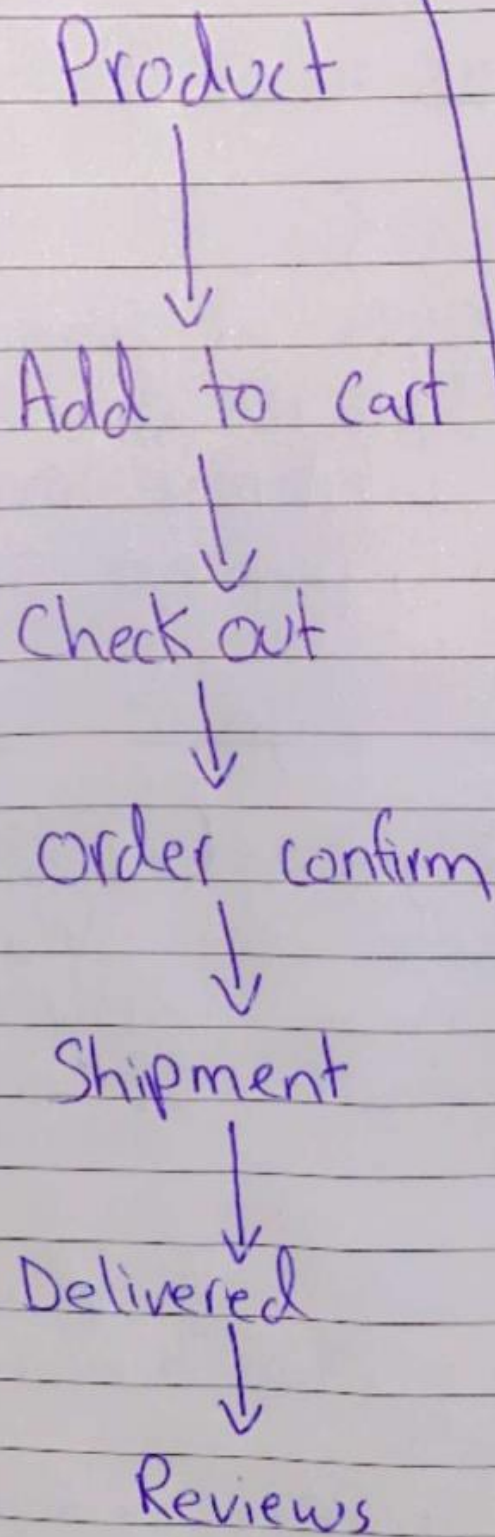
For orders :

- Method : Post.
- Store order in Sanity and then fetch in customer browser
- Required : customer information order detail , payment status.

Two tyle Payment status

- Online Payment : (credit / debit card)
- COD : Cash on delivery.
- Addional point : delivery charges included in both status

Shipment :

- Method : Get
- Description : Order number through third Party- API.
- Response : Tracking number , Delivery date
- Status : order Place , dis Patched , Out for Delivery , Delivered.

Product

$\downarrow$

Add to cart

$\downarrow$

Check out

$\downarrow$

order confirm

$\downarrow$

Shipment

$\downarrow$

Delivered

$\downarrow$

Reviews

This data can be store in Sanity and fetched to display on customer's frontend in a user-friendly format.

Sanity Schema : Product.

```
export default {
  name : 'Product',
  title : 'Product',
  type : 'document',
  fields : [
    { name : 'name',
      title : 'Name',
      type : 'string',
      Price : '1300', }
  ]
```

Sanity Schema : Order.

```
export default {
  name : 'order',
  title : 'Order',
  type : 'document',
  fields: [
    { name : 'CustomerName',
      title : 'CustomerName',
      type : 'string.'
      Status : 'Confirm.' }
  ]
}
```

Sanity Schema : Shipment.

```
export default {
    name : 'shipment',
    title : 'Shipment',
    type : 'document',
    fields : [
        {   name : 'trackingNumber',
            title : 'Order Number',
            type : 'Number',
            Description : 'The tracking number
            Provided by the carrier' }
    ]
```