

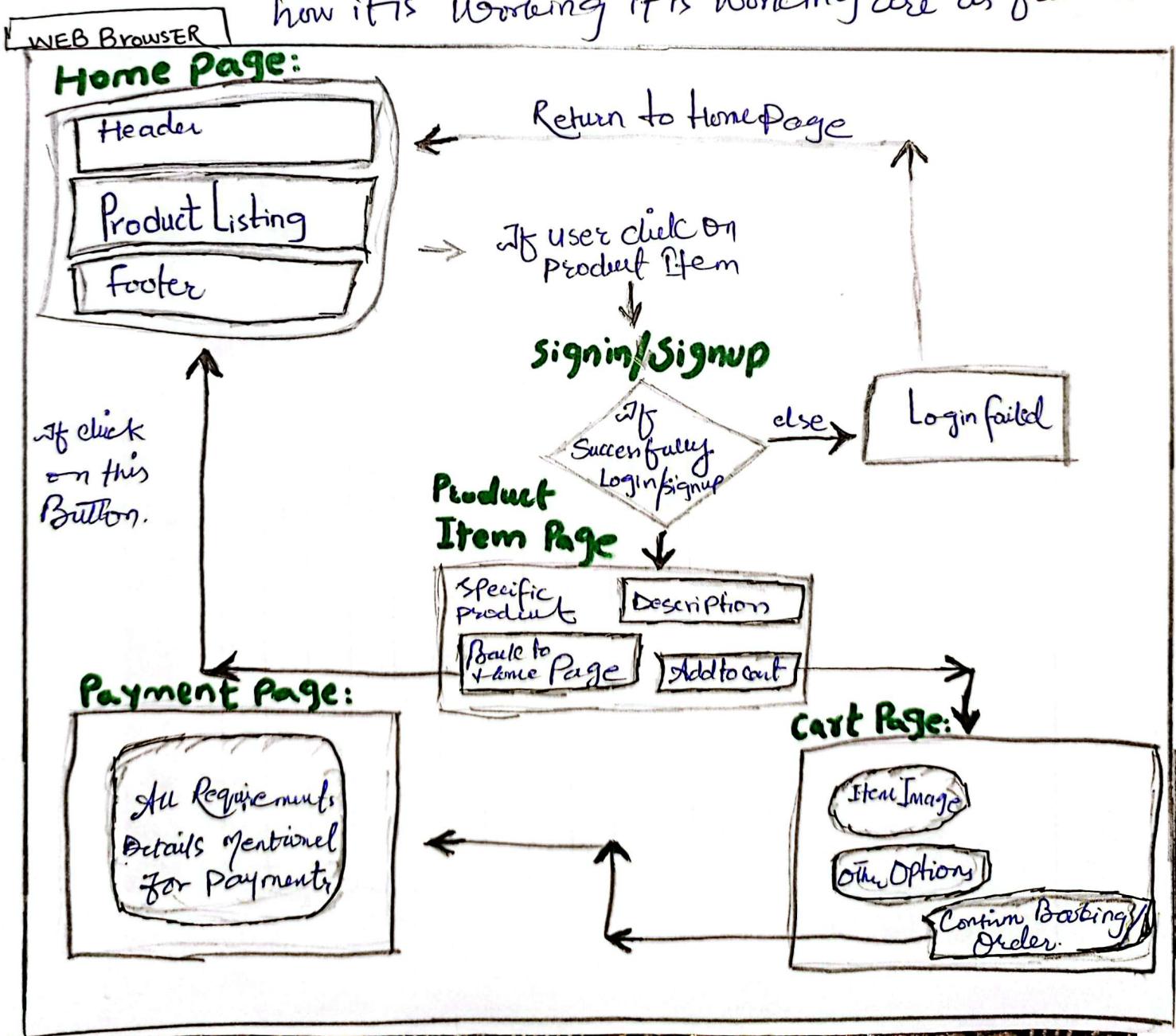
MARKET PLACE HACKATHON 2025

DAY 02:

1- TECHNICAL FOUNDATION PLANNING :)

1- Technical Requirements:-

a. For fronted: The below diagram illustrate the technical requirements for the fronted which will build using Next.js & Tailwind CSS. More details for the fronted on how it's working it is working are as follows:-



KEY POINTS :

- ① User Visit to the Home Page .
- ② If the User wants to make a booking for the Products on Rent , He/she Must Sign in/ Sign up first.
- ③ If sign/sign up failed the user again navigated to the home page.
- ④ Once the Successful Completion of Sign/signup then can directly navigated to the Product Item page.
- ⑤ There User have two Option either to go Home Page or to add the product Item page to cart.
- ⑥ Once added to cart , User will Chronicle the Items & confirm the order by Clicking the Button.
- ⑦ As user Confirm the order , He/she navigates to the Payment page where the User fulfilled all the requirements for Payments -

b- For Backend (SANITY CMS):

Sanity CMS For Backend:-

| API For Product DATA | API For Customer DATA | API For Order DATA |
|--|--|---|
| [{ id: number, name: any name of the product, des: image of the product, price: In Rs, colour: Specific color for the diff products, video: not necessary Good for best User Experience(ux) }] | [{ name: String, address: String, contactno: number, email: String & Special character. }] | [{ Orderid: number, Ordertype: String, Orderdes: String, Orderdate: Number. }] |

KEY POINTS:- Product DATA API

The Product DATA API Contains the product API includes all the necessary information of the products, Which willenders on the Web browser When the user wants to see the necessary details or book the order for the product. The information includes.

- a - Product id
- b - Product name
- c - Product detail
- d - product Price,
- e - Product Color
- f - Product video

2- Customer DATA API..

The Customer detail API includes all the necessary information to get from the customer to book the orders. These information includes:

- a- Customer name.
- b- Customer address.
- c- Customer Contact no.
- d- Customer email

3. Order DATA API..

The Order API includes the essential information of the products, which will be book by the user. These information includes:

- a- Order Unique id.
- b- Order type
- c- Order description
- d- Order date.

c- Third Party API's for Backend:-

{ The below diagram is defines a clear picture of third Party API details. Which is showing Below :-

[WEB BROWSER:-]

API For Shipment DATA

```
[  
 {  
   ShipmentId: number,  
   ShipmentType: string,  
   ETD: number,  
   ETA: number  
 }]
```

API for Payment DATA

```
[  
 {  
   CustomerName: string,  
   CardNo: number,  
   CardExpiry: number,  
 }]  
 ]
```

Key Points:-

1- Payment DATA API..

This is the backend for the tracking data when the user booked the Order successfully. This idea includes the following information:

- a- Shipment id
- b- Shipment type
- c- Estimate departure date
- d- Estimate arrival date.

2. Shipment DATA API:

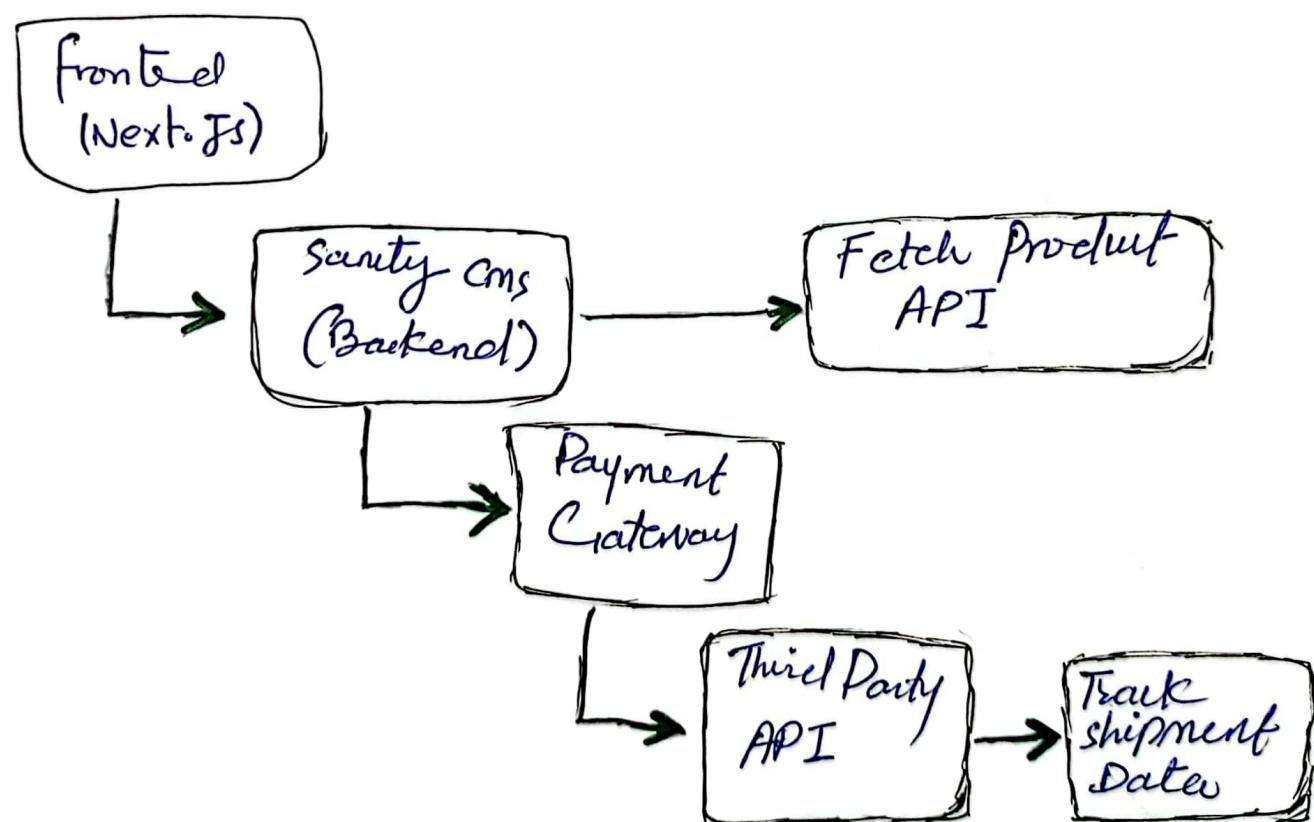
This is the backend for the payment data. This data includes the following information.

- a- Customer name.
- b- Customer card number.
- c- Customer card expiry date.

System Architecture

The following After Visit the Website & Selecting a Product, detail are fetch via the Product API & displayed. Upon Successful Payment, the User receives Confirmation, & a third-party API enables Shipment tracking. Here is the Mini Systematic Architecture Picture -

System Architecture :-



③ API Requirements Plan

The end points for the Rental E-commerce or the Essential API used into the fully functioning site is as under:

a. For Product :

- Endpoint Name: /categories
- Method: Get
- Info : Details about the Products
- Response: As shown above in Product data.

b. For Customer :

- Endpoint Name: /Customer
- Method: POST
- Info : Details about the Customer

c. For Order :

- Endpoint Name: /Order
- Post: Method

d. For Shipment: Response: As shown above in Order, (Backend) - Data.

- End Point Name: /Shipment
- Method: Get
- Info : Track the Shipment Data
- Response: As shown above in Shipment Data -

4- SANITY SCHEMA FORMATE

The diagram below illustrates the structure of the Sanity schema & how the data will be presented in a real word example.

SANITY SCHEMA Formate:-

for Customer:

```
export default {
  name: "customers",
  type: "document",
  title: "Customer data",
  fields: [
    {
      name: "name",
      type: "String",
      title: "Name"
    },
    {
      name: "address",
      type: "String",
      title: "address"
    },
    {
      name: "email",
      type: "String",
      title: "Email"
    }
  ]
}
```