Day 2 Hackathon:

Transitioning to Technical Planning:

Frontend Requirements:

- 1) Firework: Next JS
- 2) Responsive design for Mobile, Tablet & Laptop by using Features Navigation, Grid Layouts, Search and Filters, Content Priority, Images in Tailwind CSS.
- 3) Essential Pages which I use in my Website Home, About us, Products, Contact us. And Products child pages, Product Category, Add to Chart, Order Confirmation.

Backend Requirements:

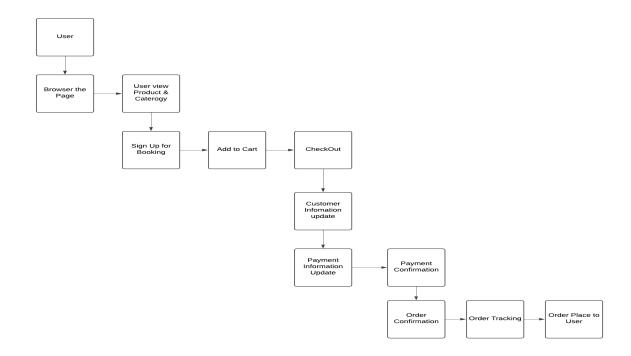
1) Sanity use for Real-time collaboration and flexible content modeling, Studio (admin panel) can be hosted or integrated into apps, Offers a generous free tier for small projects.

Third Party API:

- 1) Shipment Tracking using DHL, TCS, Leopard.
- 2) Payment Gateway: EasyPaisa, Jazz Cash, HBL Connect.
- 3) Email Services: Cloud Server.

Design System Architecture

Work Flow Chart



Work Flow details

- 1) User visit Rental Website and send request to browser.
- 2) API received the request and send to Sanity CMS getting data.
- 3) Sanity CMS send the Product data to API and API send the result to User.
- 4) User view the Page and Select the product which received from Sanity.
- 5) User add the Product in ADD to Cart and send request to API and API send request to Data Base and Post order.
- 6) Data Base request to API for collect customer data and information for Post Order to address.
- 7) API ask request to User to provide information, payment process for post the order and tracking shipment.
- 8) If any details of customer provide wrongly API send error to User as failure.

1. Plan API requirements

a. Endpoint name: /Products

Method: GET

• **Description:** Fetch all products from Sanity

• Response: Product (ID, Name, Price, Description, Image, Rating, Category, Stock).

b. **Endpoint name:** /Customers

Method: POST

Description: Get customer's data and add it in sanity
 Response: Customer (ID, Name, Email, Phone, Address).

c. **Endpoint name:** /Orders

Method: POST

• **Description:** Create a new order in Sanity.

• Response: Order (ID, Customer ID, Order, Date, Item, Amount, Status)

d. Endpoint name: /Shipment

Method: GET

• **Description:** Track order status via Third-party API (MOCK API)

 Response: Shipment ID, Order ID, Status, expected delivery date, carrier, tracking number.

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2. Sanity Data Schema for all endpoints:
        a. Products:
export default {
            name: 'product',
            type: 'document',
            fields: [
   { name: 'id', type: 'number', title: 'Product Id' }
   { name: 'name', type: 'string', title: 'Product Name' },
   { name: 'price', type: 'number', title: 'Price' },
   { name: 'Description', type: 'string', title: 'Description' }
   { name: 'Image', type: 'string', title: 'Image' }
   { name: 'Rating', type: 'number', title: 'Rating' }
   { name: 'Stock', type: 'number', title: 'Stock' }
   ]
        b. Customers:
 export default {
             name: 'customer',
             type: 'document',
            fields: [
   { name: 'id', type: 'number', title: 'Customer Id' }
   { name: 'name', type: 'string', title: 'Customer Name' },
   { name: 'email', type: 'string', title: 'Email' },
   { name: 'phone', type: 'number', title: 'Phone Number' }
   { name: 'address', type: 'string', title: 'Address'},
   1
        c. Orders:
export default {
            name: 'order',
            type: 'document',
            fields: [
   { name: 'id', type: 'number', title: 'Order Id' }
   { name: 'customerId', type: 'number', title: 'Customer Id' },
```

{ name: 'email', type: 'string', title: 'Email' },

]

{ name: 'address', type: 'string', title: 'Address'},

{ name: 'phone', type: 'number', title: 'Phone Number' }

```
d. Shipment:
 export default {
        name: 'shipment',
        type: 'document',
        fields: [
{ name: 'id', type: 'number', title: 'Shipment Id' }
{ name: 'orderId', type: 'number', title: 'Order Id' },
{ name: 'status', type: 'string', title: 'Order Status' },
{ name: 'date', type: 'number', title: 'Delivery Date' }
    e. Payment:
 export default {
        name: 'payment',
        type: 'document',
        fields: [
{ name: 'id', type: 'number', title: 'Payment Id' }
{ name: 'customerId', type: 'number', title: 'Customer Id' },
{ name: 'date', type: 'number', title: 'Payment Date' },
{ name: 'amount', type: 'number', title: 'Paid Amount' }
{ name: 'status', type: 'string', title: 'Payment Status' }
{ name: 'method', type: 'string', title: 'Payment Method' }
{ name: 'gateway', type: 'string', title: 'Payment Gateway' }
```

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