HACKHATON 3

DAY # 2

Marketplace Technical Foundation [AURA BOX]

Documentation Author: Umar Ali

Slot: Tuesday (2 to 5)

Task given by: Sir Ameen Alam

Class Teacher: Sir Ali Aftab Sheikh & Sir Muhammad

Fahad Khan

1. Technical Requirments:

Front-end:

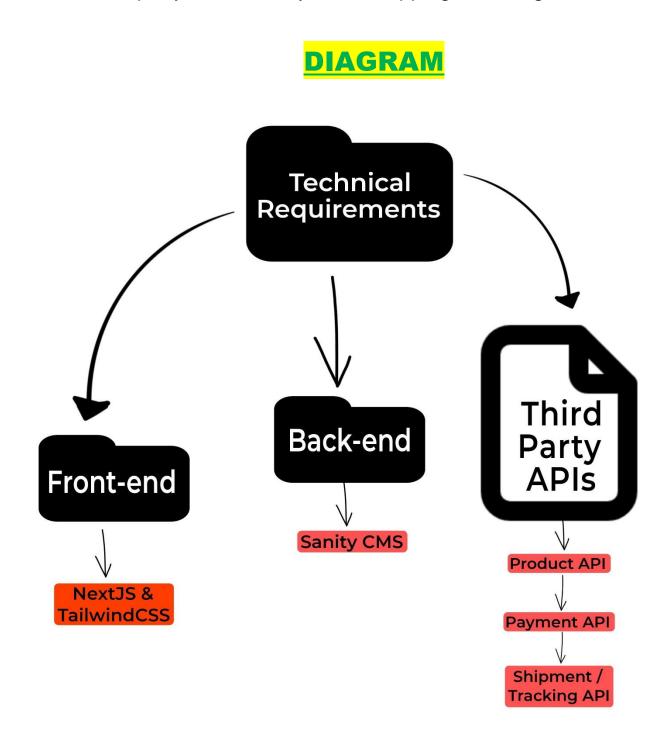
NextJS, HTML & TailwindCSS

Content Management System:

Sanity

API:

Will use 3rd party APIs for Payment, Shipping, Tracking etc



ORDER PROCESSING FLOW

1. Product Selection

- User finds and clicks on a product.
- Front-end sends the product ID to the API.
- API requests product details from the database.
- Database returns product info (images, description, price, etc.).
- API sends details to the front-end for display.

2. Add to Cart

- User selects quantity and clicks "Add to Cart."
- Front-end sends product ID and quantity to the cart API.
- API updates the cart in the database and returns updated cart details.
- Front-end updates the cart and moves the user to checkout.

3. Checkout Process

- User reviews cart, enters shipping details, and selects payment method.
- Front-end sends cart, shipping, and payment info to the thirdparty API.

 Back-end saves order details and communicates with the payment gateway.

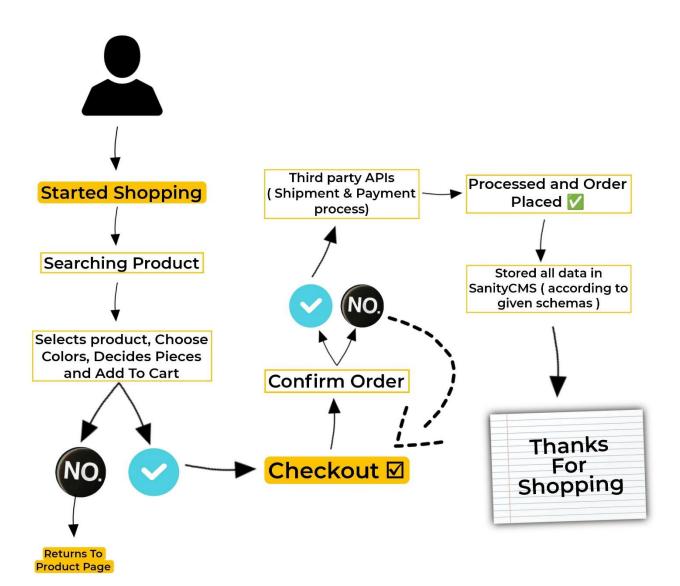
4. Payment & Order Confirmation

- Payment gateway processes the payment and sends success/failure response.
- Back-end updates order status based on payment response.
- API sends confirmation details (order ID, delivery estimate, tracking info) to the front-end.
- Front-end displays confirmation to the user.

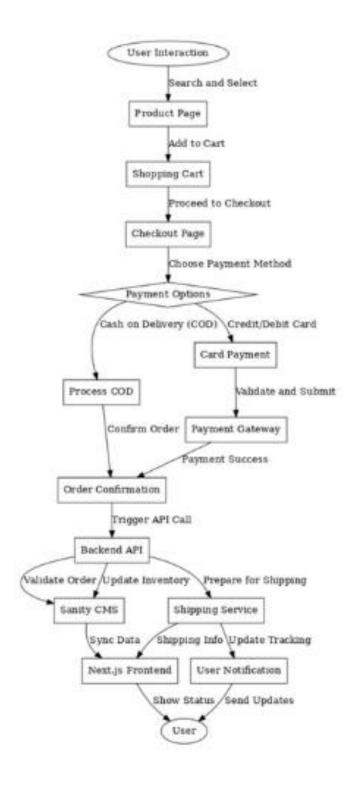
5. Order Tracking & Completion

- API helps track the order and updates the user on the status.
- Once completed, order data is saved in the database.

WORK FLOW DIAGRAM



2. System Architecture



3. API Endpoints:

Endpoint	■ Method	Descriptions	Parameters -	Response Example 🔻
/api/watch	Get	Fetch all food items.	None	{id: 1, name: "casio" }
/api/watch/:id	Get	Fetch single item from watch category	id(Path)	{id: 1, name: "casio" }
/api/watch	Put	Add a new watch	name, price, category (Body)	{Success: true, id: 4}
/api/watch/:id	Put	Update a item in watch category	id(Path), name, price (Body)	{Success: true}
/api/foods/:id	Delete	Delete a item	id(Path)	{Success: true}

4. Schema:

```
JS product.js > [@] default
      export default {
         name: 'product',
         title: 'Aura',
          type: 'document',
          fields: [
               name: 'name',
               title: 'Watch Name',
               type: 'string',
               description: 'Aura One: Timeless elegance and precision, designed for every moment.'
               name: 'description',
               title: 'Description',
               type: 'string',
               description: 'Describe about product'
               name: 'price',
               title: 'Price',
               type: 'number',
               description: 'Price of product'
              name: 'image',
               title: 'Product Image',
               type: 'image',
               description: 'A high-quality image of the product'
              category: 'category',
               title: 'Category',
               type: 'string',
               description: 'type of product (e.g. watch, bracelet, mini perfume)'
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```

```
JS customer.js > [@] default
      //SANITY SCHEMA customer.js
      export default {
          name: 'customer',
          title: 'Customer',
          type: 'document',
          fields: [
                name: 'name',
                title: 'Customer Name',
               type: 'string',
               description: 'Name of customer'
              },
               name: 'email',
               title: 'E-mail',
               type: 'string',
                description: 'Contact information for updates & surprices'
                name: 'address',
               title: 'Shipping Address',
                type: 'text',
                description: 'Where the shipment will be delivered'
      };
27
```

```
JS order.js > [@] default
      //SANITY SCHEMA order.js
 3 ∨ export default {
          name: 'order',
          title: 'Orders',
          type: 'document',
          fields: [
               id: 'orderID',
               title: 'Order ID',
               type: 'string',
               description: 'A unique ID for the order'
               name: 'customer',
               title: 'Customer Name',
               type: 'reference',
               to: [{type : 'customer'}],
               description: 'Whose order is this?'
               name: 'product',
                title: 'Delivert Product',
               type: 'array',
               of: [{type: 'reference', to: [{type: 'product'}] }],
                description: 'Which products are being delivered?'
                name: 'status',
                title: 'Order Status',
                type: 'string',
                options: {
                  list: ['Pending', 'Processing', 'Delivered', 'Cancelled']
                },
               description: 'Track the status of the order'
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      };
```

```
JS shipment.js > [@] default
      export default {
         name: 'shipment',
         title: 'Delivery',
         type: 'document',
         fields: [
               name: 'trackingID',
               title: 'Tracking ID',
               type: 'string',
               description: 'The Shipment Tracking ID'
               name: 'carrier',
              title: 'Carrier',
              type: 'reference',
               description: 'Which carrier is delivering the shipment?'
               name: 'stautus',
               title: 'Delivert Status',
               type: 'string',
               options: {
                 list: ['In Transit', 'Out for Delivery', 'Delivered', 'Cancelled', 'Lost', 'Returned']
               description: 'Where is the product now?'
               name: 'order',
               title: 'Associated Order',
               type: 'reference',
               to: [{type: 'order'}],
               description: 'Links to the associated order for tracking and reference.'
      };
```