

Date _____

Day 2 :-

Transition To Technical Planning

Technical Requirements

- * Frontend Requirement.
- * Sanity CMS as Backend.
- * Third-Party APIs.

Frontend Requirement

User Interface

Responsiveness

Essential pages

Home
 Products listing
 Product Details
 Cart
 Check out
 Order Confirmation

Sanity CMS

Product data

Customer Details

Order Records

Usage / Next is Tailwind

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Third Party APIs

Shipment tracking

Payment gateway

Backend Services

Work Flow :-

User Registration :-

User navigate to the registration page, through "Sign Up" or "Registration Button". When the user fill out the all fields of Sign up form and click the button then user data send to the sanity. Then he login when the user "log In", "You are successfully login" message show to the user.

Product Browsing :-

After successfully login user views product categories. Users can use the search bar to find specific category. Users can apply filters (e.g. price range, brand, color). Product are displayed in a grid or list format. Sanity fetches data to displayed on frontend.

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Order Placement

Users can add products to their shopping cart and review the items in their cart making any necessary adjustments (quantity, removing items). User click the "checkout" button to begin the order placement process. The order data saved in security.

Shipping Information

- Users provided their shipping address and choose a shipping method and provided their payment details such as credit card information. User confirm and place their order by clicking the "Place Order" or "Submit" button. When the user click the button shipping information saved to the security.

Shipment Tracking

- After placing an order, users receive an confirmation email with a tracking number. Users enters the tracking number on tracking page. Ship Engine system provides real-time updates on the shipment status (eg current location, estimated delivery date, Delivery history). User receive email or SMS notifications about the shipment's progress and delivery status.

End points	Method	Example
/api/products	GET	{ "id": 1, "name": "Product A", "price": 1000 }
/api/register	POST	{ "id": 1, "name": "xyz", "email": "xyz" }
/api/cart	POST	{ "productId": "product id", "quantity": 2 }
/api/checkout	POST	{ "userId": 1, "shippingAddress": "xyz", "paymentMethod": "xyz" }
/api/orders	GET	{ "orderId": 1, "status": "xyz", "trackingNumber": "xyz" }

Security Schema

export default { name: "product", type: "document", fields: [{ name: "Product", title: "Product", type: "string", images: ["images"], description: "This is a product" }], }	{ name: "User name", email: "string", title: "string", userId: "string", }, { name: "cart", title: "cart", userId: "string", quantity: 2, }, { name: "checkout", title: "checkout", userId: "string", Address: "string", paymentMethod: "string", }, { name: "Tracking", title: "Tracking", OrderId: "string", trackingnum: 2, }, }]
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Work flow Diagram

[Frontend] → (User send request) → API



[Sanity cms] (content fetch via API)



[API] → (Data sent back) → Frontend



[Payment Gateway] (Process transactions)

