DAY-2

PLANNING THE TECHNICAL FOUNDATION

MARKETPLACES - E-COMMERCE

E-COMMERCE WEBSITE NAME-FURIRO

DOCUMENTATION BY: TALAT BATOOL

This document describes the user journey flow for an ecommerce marketplace, Focusing on key steps and their technical implementation. It is tailored for building a robust and user-friendly plateform.

Flowchart overveiw:

Complete user journey flow for an ecommerce marketplace is given blow

HOME PAGE:

User lands on the homepage.Displays featured categories,products and a searchbar.

PRODUCT BROWSING:

User select a category or uses the search bar.products will display

PRODUCT DEATILS:

User clicks on a product to veiw details.this page includes product description,

Price,availibilty and user reviews.

ADD TO CART:

User adds the products into the cart.cart updates dynamically with quantity and price.

CHECKOUT:

User proceed to checkout page.provides shiping adress snd selects a delivery optiom.

PAYMEMT:
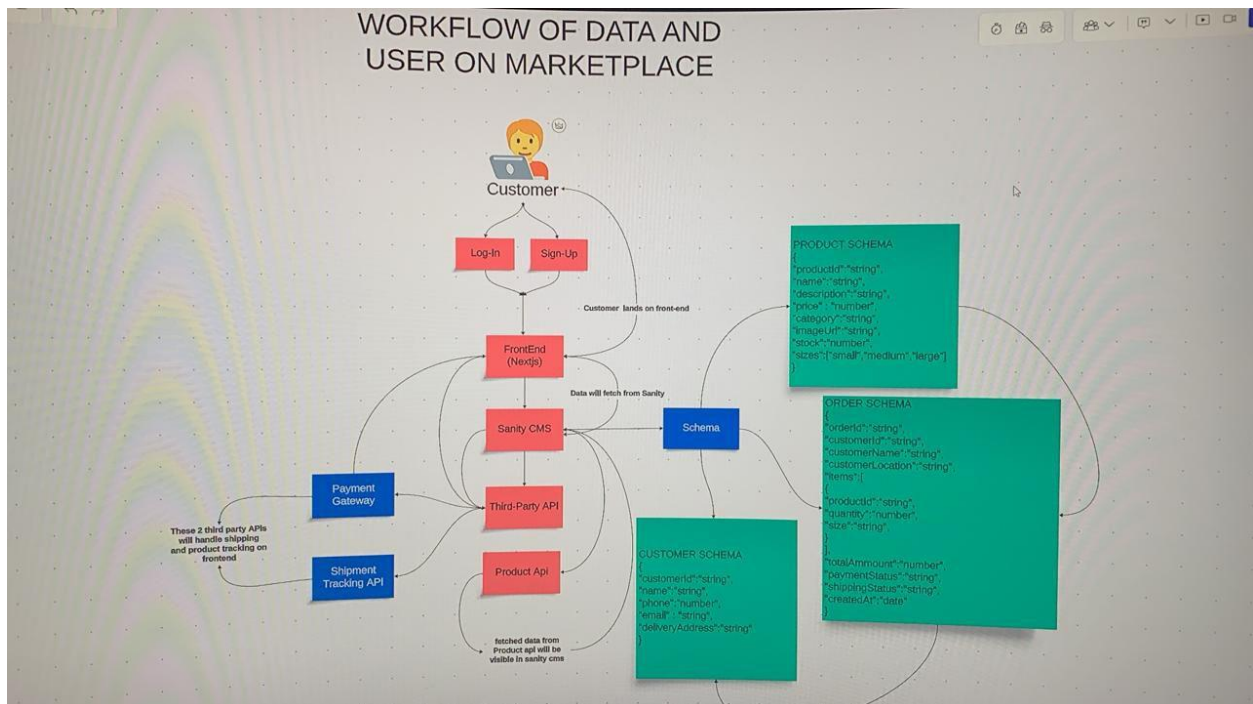
User enters pyment details.

Secure payment gatewy processess the transaction.

ORDER CONFIRMATION:

Order deatils will display and sent via email.

FRONTEND REQUIREMENTS:
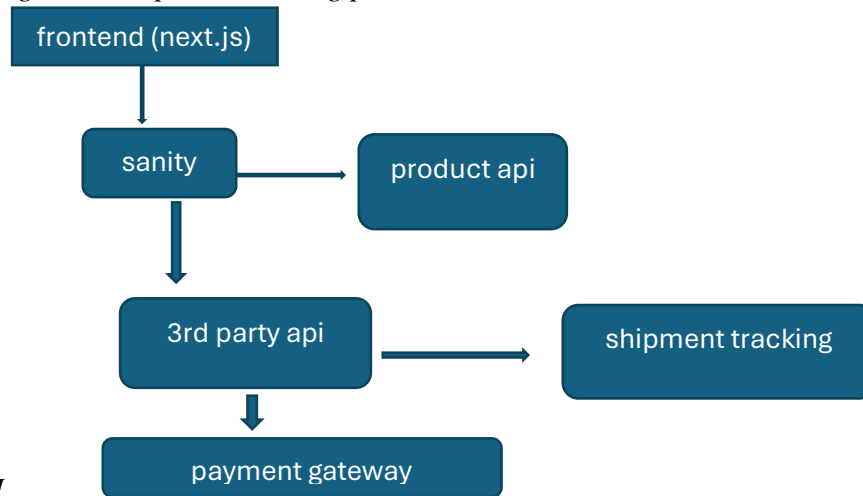
FLOW CHART

FRONTEND REQUIREMENTS:

User recevies a notification and can leave a reveiw.

User-friendly interface for browsing products.

Responsive design for mobile and desktop users.

Essential pages:home ,product listing,product deatail, cart, checkout,order confirmation.

```
┌─────────────────────┐
│  frontend (next.js) │
└─────────────────────┘
           │
           ▼
      ┌──────────┐          ┌─────────────────┐
      │  sanity  │ ───────▶ │   product api   │
      └──────────┘          └─────────────────┘
           │
           ▼
   ┌──────────────────┐          ┌─────────────────────┐
   │   3rd party api  │ ───────▶ │  shipment tracking  │
   └──────────────────┘          └─────────────────────┘
           │
           ▼
   ┌──────────────────────┐
   │   payment gateway    │
   └──────────────────────┘
```

DIAGRAM

3RD party api for shipment tracking, payment gatway and other required backend services.

SYSTEM ARCHIECTURE:

FRONTEND	BACKEND	API'S	TOOLS
.next.js For building modern Dynamic And server-renered Uis. .Tailwind For reponsive and Visually desings. .ShadCN For pre designed customized Components.	.Sanity CMS To manage and Structre content Effectively. .Clerk For seemless user authentication And management.	.ShipEngine Simplifies shipment And tracking and Delivery. .Stripe Handles secure And efficent online Payment.	.GitHub Version control and Collobrative Development. .PostMan For testing documenting Api's efficently. .Vercel Fast and relliable Development For next.j application.

Api end point:

END POINT	METHOD	WHAT IT DOES
/API/create-order	POST	Create a new order when someone buys something.
/API/orders	GET	Fetches all the orders(admin stuff).
/API/shipengine/create-label	POST	Makes a shiping label fpr orders.
/Api/shipengine/get-rates	GET	Checls shiping cost.
/API/shipengine/track-shipment	GET	Tracks where a shipment is.
/API/track-orders	GET	Lets users see all of theeir orders.
/API/send/confirmation-email	POST	Send an email to confirm an order.
/API/reveiws/[productid]	POST	Adds a reveiw for a product.
/Api/reveiws/[productid]	**GET**	**Fetches reveiws for a product.**