

16-Jan'25 "Syeda Farzoma Shah" Day-2

Technical Foundation:

E-Commerce Marketplace

Components:-

1) Frontend:- Client-Side application
(React, Angular, Vue.js)

2) Sanity CMS:- Headless Content
Management System.

3) Third-Party API:- External API
for Payment gateway, Shipping, etc.

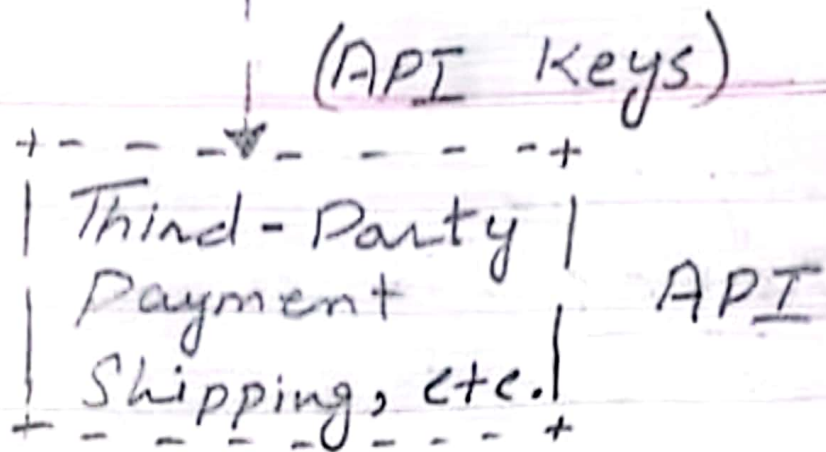
Graph:-

Frontend

(RESTFUL API)

Sanity CMS

(GraphQL API)



Interactions:-

- 1) Frontend's Sanity CMS:- Fetch data (Products, Categories, etc) using Restful API.
- 2) Sanity CMS's Frontend:- Return data in JSON format.
- 3) Frontend's Third-Party API:- Send requests (Payment, Shipping, etc) using API Keys.
- 4) Third-Party API's Frontend:- Return response (Payment status, Shipping details etc).

Data Flow:-

- 1) Frontend request data from

Sanity CMS.

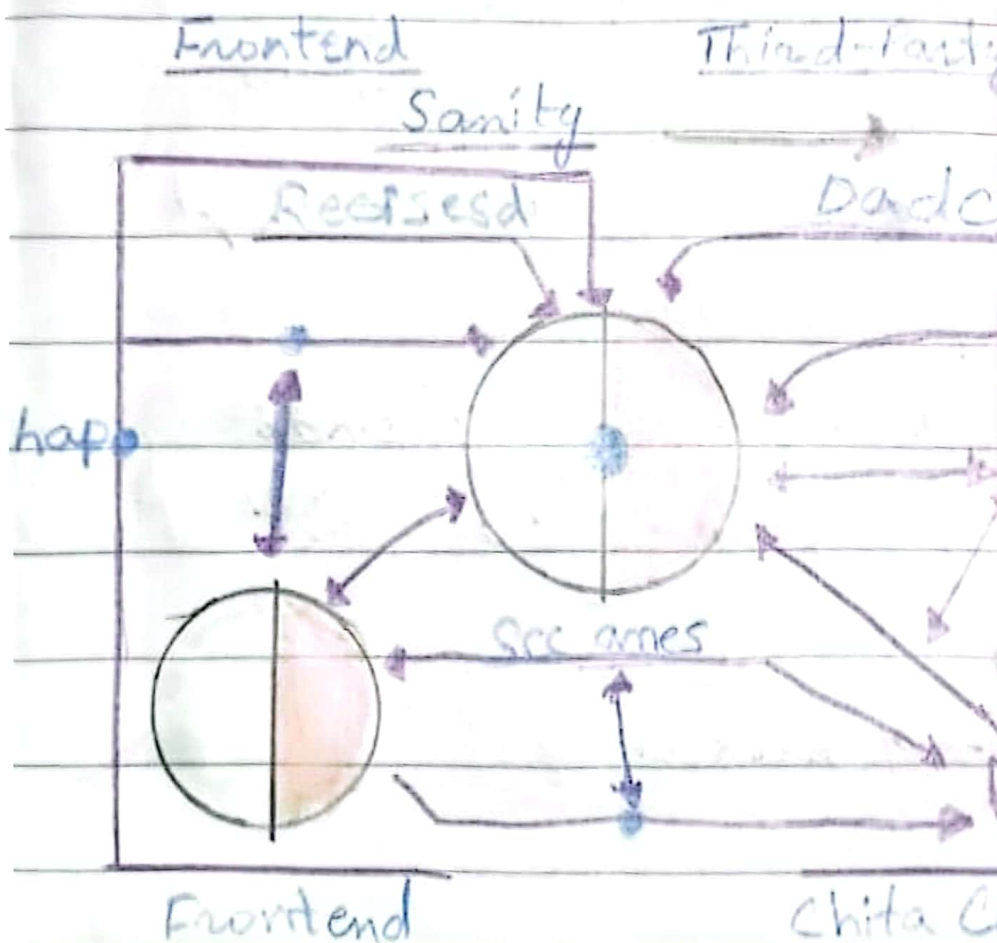
2) Sanity CMS returns data to

3) Frontend Sends requests to

Party API.

4) Third-Party API return
use to Frontend.

5) Frontend updates UI a
received data.



Product Page:-

1) When the user visits the Product page, data is fetched from Sanity and Display on Product Page.

Product Detail Page:-

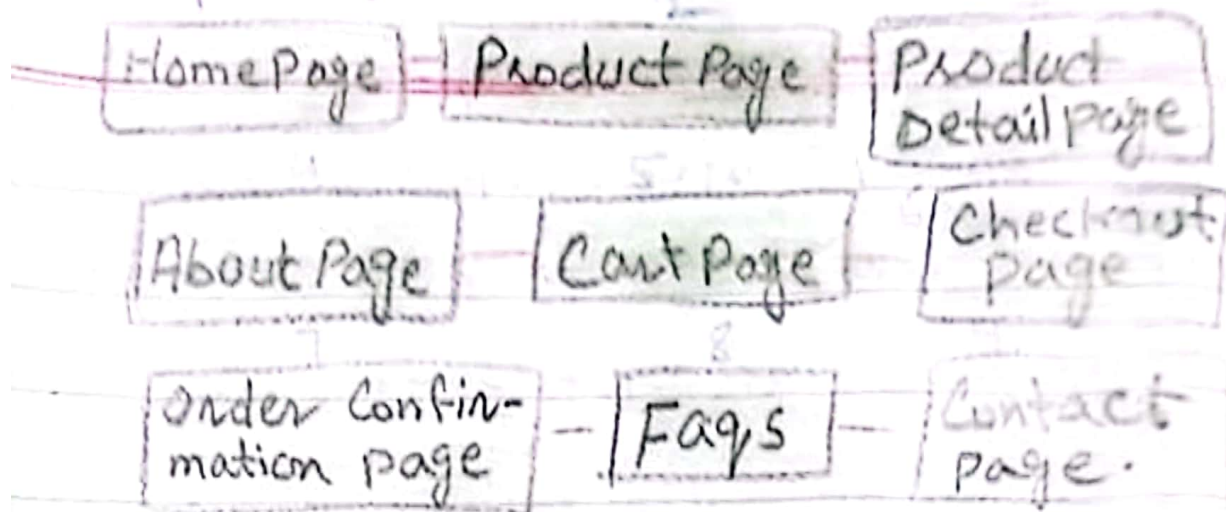
when user clicks on any products its detailed page is opened.

Cart Page:- when the user click on Add to Cart button, Product ID, Name, Quantity and Image are retrieved from it and all the data is added to cart.

Checkout Page:- checkout page contains list of cart items, Quantity and Prices also contain a form where user enter all the detail of themselves also had payment option.

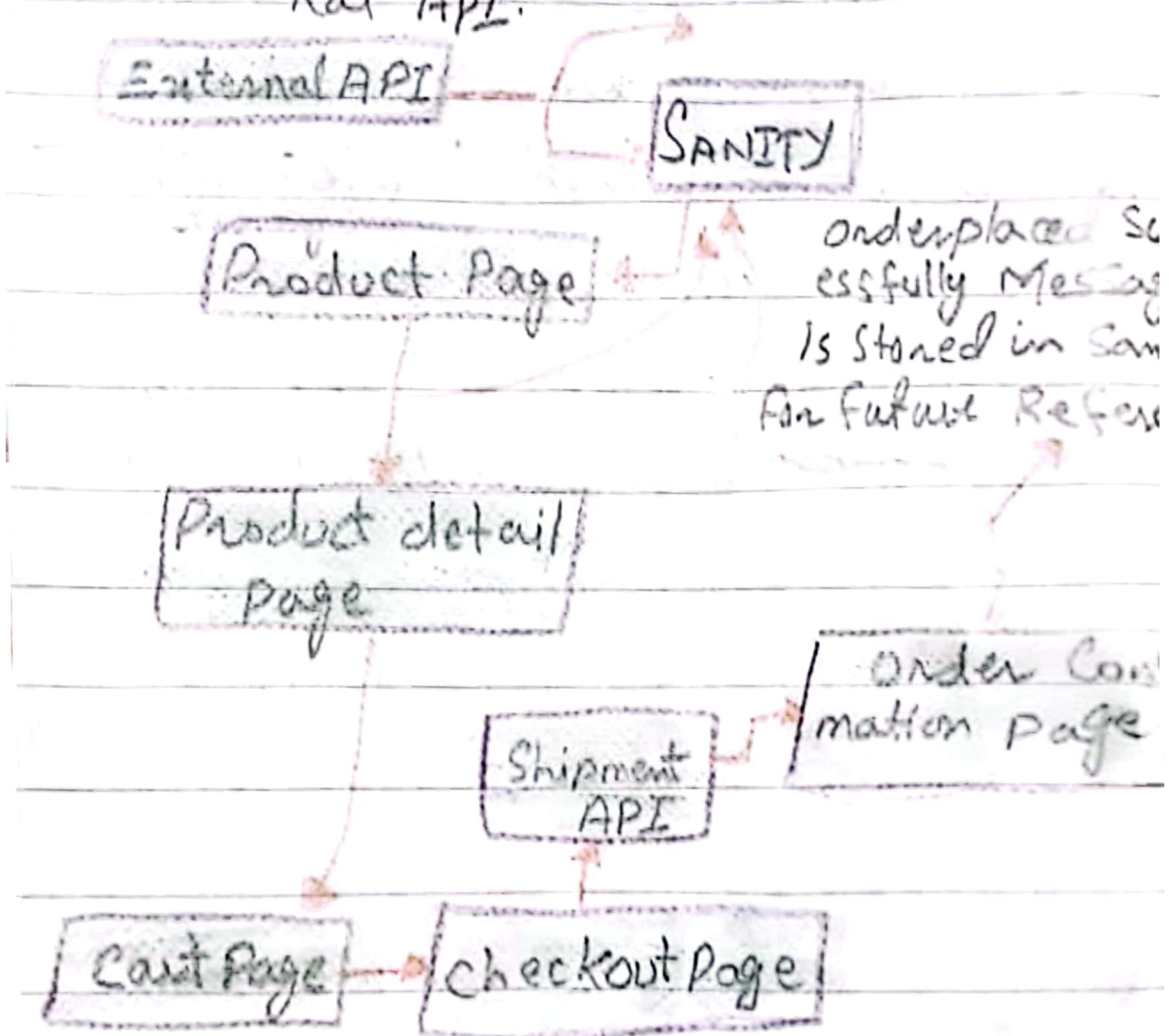
Shipment API:- once the user enter the Payment detail and Pays, it

In my E-Commerce website, I have multiple pages which are listed below.



WORKFLOW OF MY WEBSITE

Import Data Into Sanity From External API.



API EndPoints:- There are main API

| EndPoint | Method | What it does |
|---------------------------------|--------|---|
| /api/create-order | Post | Create a new order when someone buys this |
| /api/order | Get | Fetch all orders (admin stuff) |
| /api/shipengine/create-label | Post | make a shipping label for orders. |
| /api/shipengine/get-rates | Get | Check shipping cost |
| /api/shipengine/track-shipment. | Get | Tracks where a shipment is |
| /api/track-orders | Get | let users see all of the orders. |
| /api/send/confirmation-email | Post | Send an email to Confirmation on orders. |
| /api/reviews/[Product ID] | Post | add a review for a product |
| /api/reviews/[Product ID] | Get | fetches reviews for a product. |

Order Confirmation Page :-

is Send to Shipping API for Confirmation
once the Shipment API Returns Successful response, the user is directed to Order Confirmation page.

Order Placed :- Order Placed Successfully Message is stored in Sanity for future Reference.

SANITY :- When user clicks on my Product, its ID is Send to Sanity and then according to its ID, the data is displayed on Product detail Page and this is done using Dynamic routing.