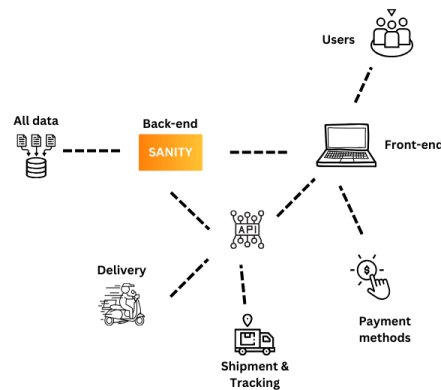


Day 02 of Hackathon || GIAIC

Here is the complete documentation of my upcoming Marketplace.

Let's start by defining **Technical requirements:**



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Front-end requirements:

1. User Visits Homepage

The user opens the marketplace's homepage.

2. Browses Products

The user scrolls through the homepage or navigates to a category/product listing page.

3. Clicks on the Product

The user clicks on the product to view its details.

4. Views Product Details

The product detail page is displayed.

5. Adds Product to Cart

The user clicks the "Add to Cart" button.

6. Proceeds to Checkout

The user clicks the "Cart" button and selects the "Checkout" option.

7. Provides Payment Details

The user enters payment information (easyPaisha, jazzcash, bank transfer).

8. Confirms the Order

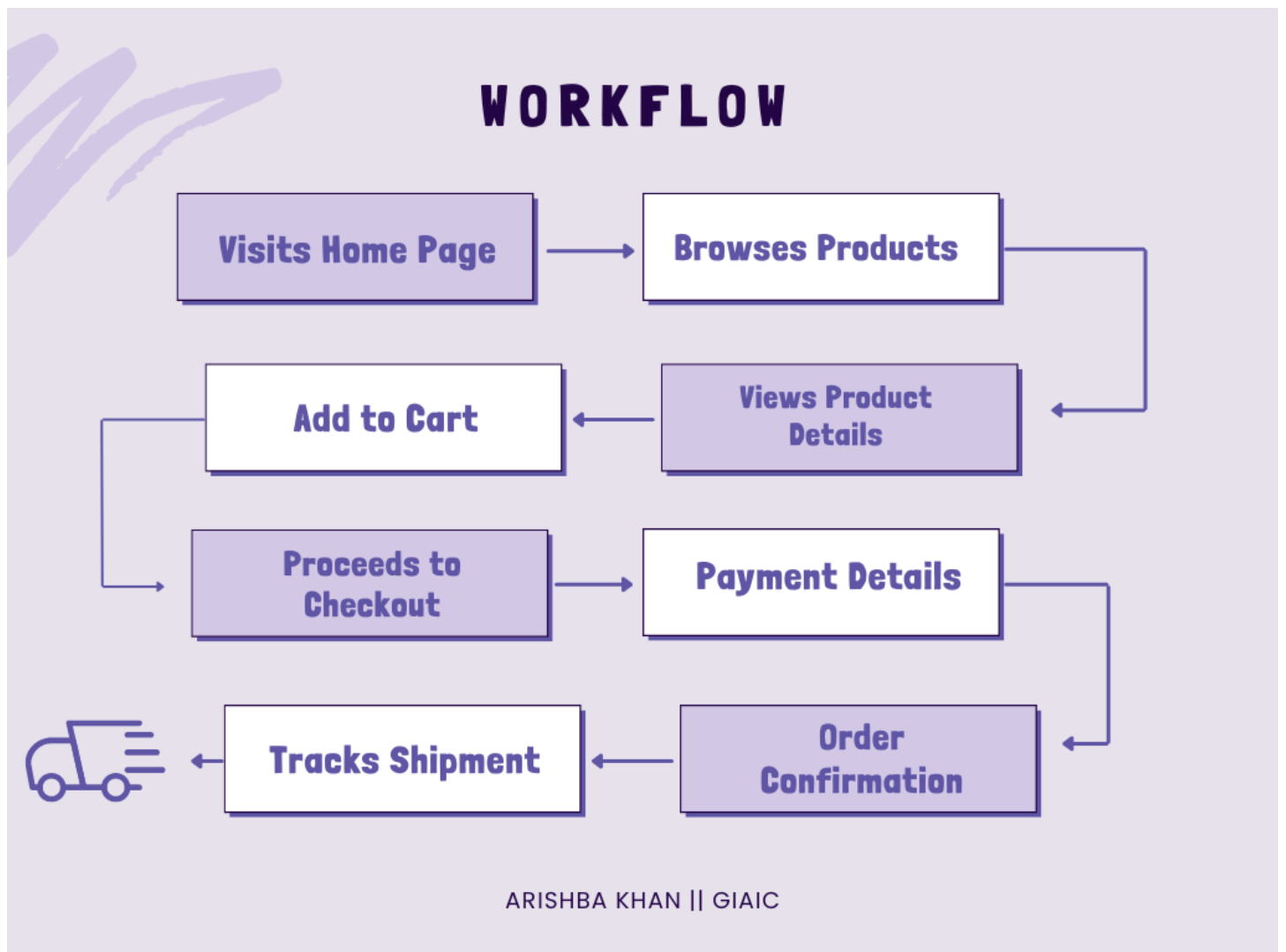
The user clicks the "Confirm Order" button after reviewing payment and order details.

9. Tracks Shipment

The user checks the shipment status from their account or via a tracking link.

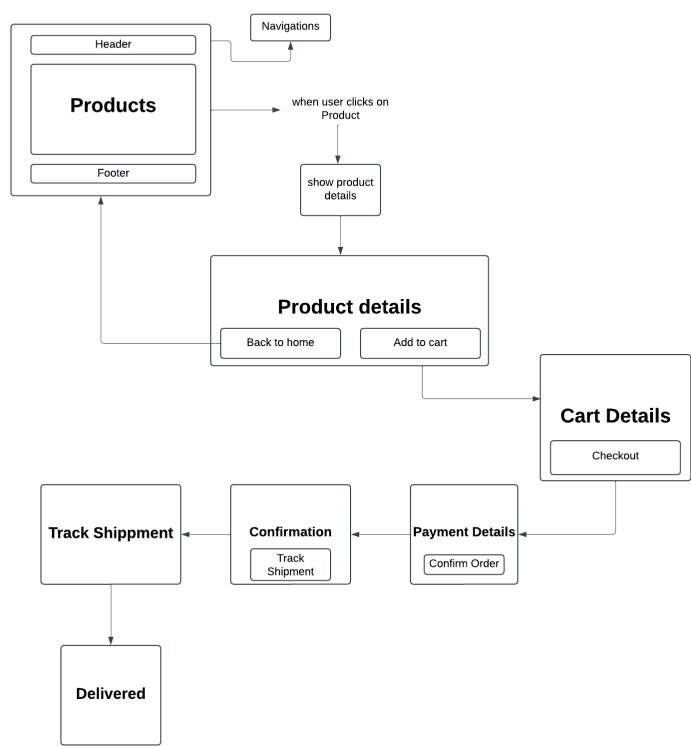
10. Receives Product on Delivery Address

The product is delivered to the user's specified address.



How each component interacts:

Front-end Requirements



Back-end requirements:

Backend Requirements:

API for Product	API for Customer	API for Order Record
<pre>[{ id: product id, name: product name, desc: detail description, image: product image, price: in Rupees, stock: number of products available, category: product category }]</pre>	<pre>[{ id: customer id name: customer name, address: customer address, phone : contact number, email: email address, }]</pre>	<pre>[{ id: order id customer id: customer id who placed order, product : ordered products name, quantity: quantity of the product ordered, price: price of product, order date: date when order was placed, }]</pre>

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Store and manage structured data for products, customers and orders in Sanity CMS .

Use Sanity CMS as backend.

Third-party requirements:

Shipment Tracking API:

Integrate third-party shipping APIs (ShipEngine) to fetch real-time shipment status and updates.

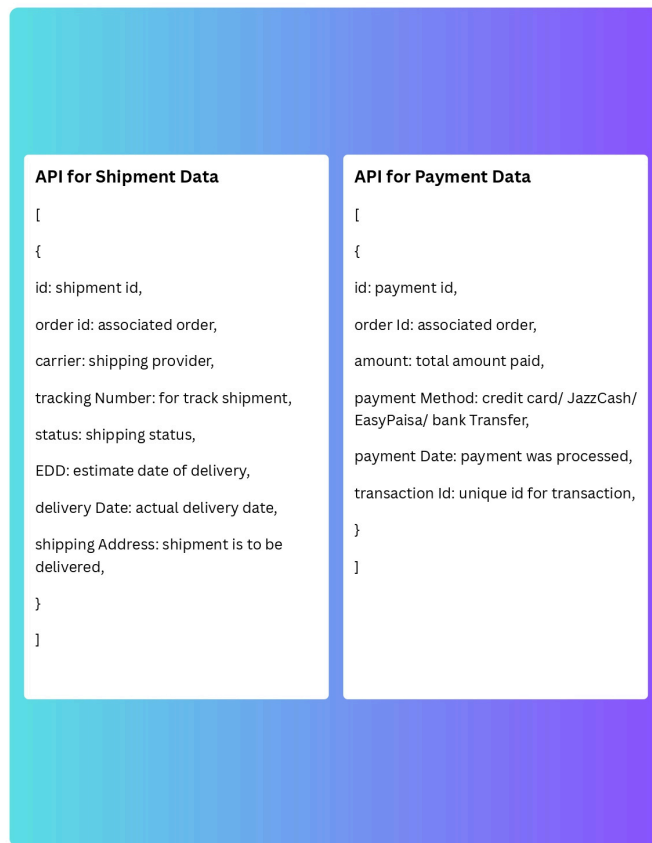
Payment Gateway API:

Connect secure gateways (Stripe) for payment processing and transaction management.

Other Backend Services:

Use email/SMS APIs for order confirmations and updates.

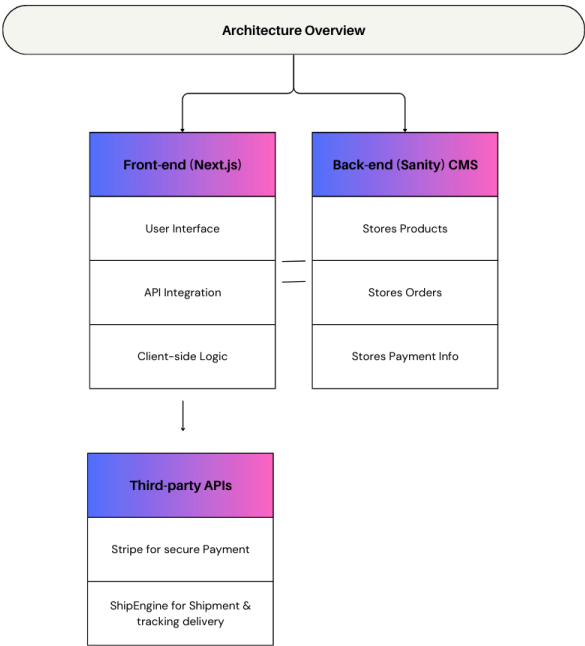
Third Party APIs:



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System Architecture:

The front-end dynamically fetches product data from SanityCMS via the Product Data API. Orders are recorded in SanityCMS through API requests, with shipment tracking fetched from third-party APIs. Payments are securely processed via a gateway, and confirmations are sent to users and stored in SanityCMS.



API requirements:

API endpoints based on Data schema:

API Endpoints		
ENDPOINTS	METHOD	DESCRIPTION
/Products	Get	Fetches all products
/Products/id	Get	Fetches a specific product
/Orders	Post	Creates a new order
/Orders/id	Get	Fetches a specific order
/Shipment/tracking/id	Get	Tracks shipment status

That’s how my marketplace works with Front-end (Next.js) and Back-end (Sanity) CMS with Third-party

APIs.

Created by ARISHBA KHAN - SENIOR STUDENT

Slot: Sunday 2 to 5PM.

Roll No: 00098833.