HACKATHON - 3

"Ecommerce Market place"

"Lusicious Hair"

The Online Hair Care brand in Karachi to provide topnotch quality of hair Care products in this trust worthy platform.

Business Goal -

① Solving problems -
- offering products for different hair types and problems like dryness, damage or hair loss.
- focusing on clean, transparent and eco friendly ingredients
- Providing high quality products at a reasonable price for more people.

② Target Audience.
Our hair care product can appeal to both younger and older customers and the people who prioritize clean, eco friendly and cruelty free ingredients in their personal care.

Data Schema -

① [Product]
- ID
- Name
- Price
- Ingredient
- Stock quantity

② [Customer].
- ID
- Name
- Email, phone, address

③ [Orders]
- order ID
- Product ID
- order Date
- Total amount

④ [Order items]
- order items ID
- order ID
- Product ID
- quantity.

5) Ingredient n	6) Shipment	7) Delivery Methods.
Ingredients ID.	Shipment ID	Delivery ID
Name	order ID	Method name
Product ID	Shipment Date	Cost
benefits	Shipment-address	Estimated delivery time
	Shipment Status.	Courier

Products	Orders	Customer	Shipment
ID	order ID	customer ID	Shipment ID
Name	Product ID	Name	order ID
Price	order date	Email	shipment date
Ingredient	Total amount	Phone	shipment address
Stock quantity	shipment ID	Address	Shipment status

↓

Delivery Methods
Delivery ID
Method name
cost
Estimated Delivery time
courier

DAY = 02

FRONT END.

- In am using the Next.js S.S.R (Server Side Rendering) for foster page loads & Tailwind CSS for Styling and responsive design.

Responsive design layout

Pages:

↳ home → show featured products.

Products → Display all products.

Product Details → show ingredients of specific product

Cart → To add products or remove products.
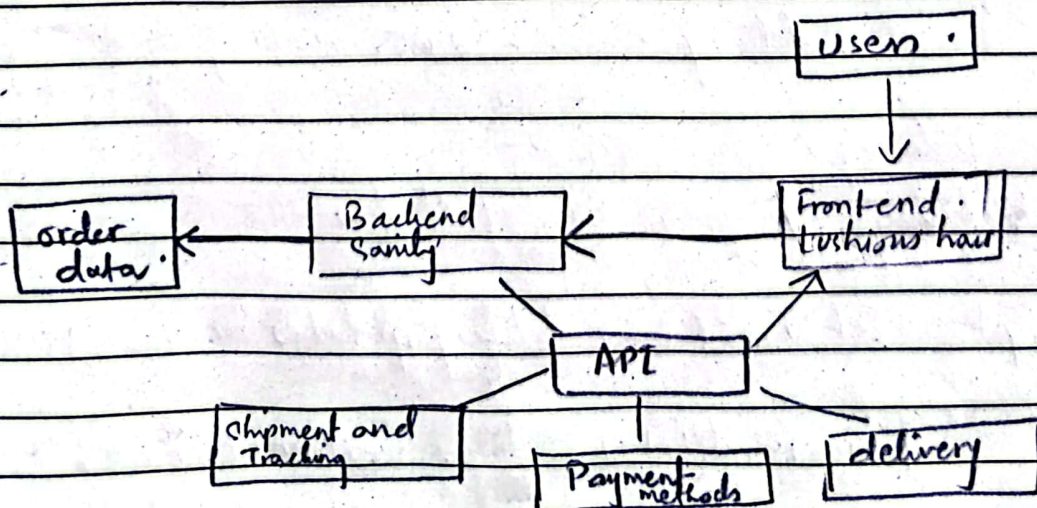
Checkout → view total price, confirm order

order confirmation → Display order success and tracking information.

BACKEND ~

I am using Sanity CMS for managing all content of data.

THIRD PARTY APIS ~

① Ship Engine → Track shipments, assign riders and fetch delivery zone coverage.

② Payment Gateaway → Tart Cash / bank for secure payments.

③ Notification API → Twilio / Firebase for SMS / email updates about orders.

Users

Order data ← Backend Sanity ← Frontend Lushious haul

API

Shipment and Tracking

Payment methods

delivery

API REQUIREMENT.

① Product Management API

End point Name. /products.

Method : GET

Description: Fetch all available products from the Sanity CMS.

Example of response:

```
[ {"id": 1, "name", "Product A", "price": 100};
  {"id": 2, "name", "Product B", "price", 200}]
```

② Order Management API.

Endpoint Name / orders.

Method : POST

Description: Create a new order in the System

Example of Response:

```
{"order_id": 456, "status", "Success";
 "message", "order created Successfully"}
```

③ Shipment Management API.

Endpoint Name: /shipment.

Method : GET

Description: Track the order status via a third party API

Example of Response:

```
{"shipment_id": 480, "order_id": 480, "status": "in Transit"
 "expected_delivery_date": "2025-01-21"}
```

④ Express Delivery Status API.

Endpoint Name: /express-delivery-status.

Method : GET

Description: Fetch real-time delivery updates for ordered items

Example of Response:

```
{"order_id": 124, "status": "in Transit"; "ETA", "30min"}
```