

API Requirments

EndPoint	Method	PurPose	Response Example
/Product	GET	Fetch all product	{ "id":1, "name": "Product A", "Price" :99 }
/Order	POST	Create a New Order	{ "order ID": 123, "Status", "Success" }
/Shipment	GET	Fetch order Shipment Status	{ "order ID": 123, "Status", "in Transit" }

Home Page

- user Lands on the Homepage
- Displays featured categories , popular products and a search bar.

Product Browsing

- user select a category or uses the search Bar.
- Products are displayed with Options to filter by price , brand , or ratings.

Product details

- user clicks on a product to view its details.
- Page include s product description, price ,availability and user reviews.

Add to Cart

- users adds the product to the cart.
- Cart updates dynamically with quantity and price.

Check Out

- user proceeds to the checkout page.
- Provides shipping address and selects a delivery Option.

Order Confirmation

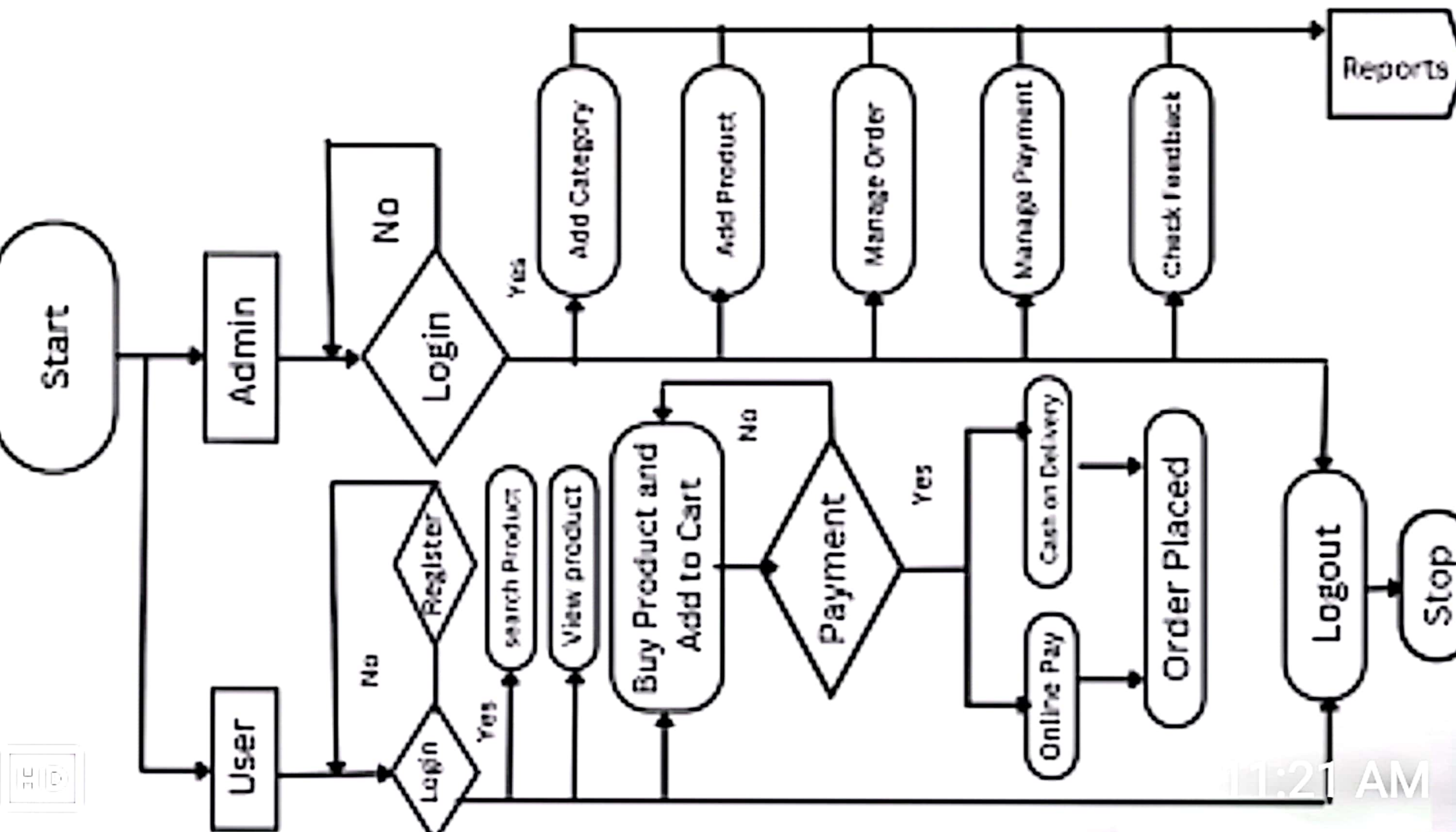
- order details are displayed and sent via email.
- Order status is updated in the backend.

Shipment Tracking

- Users visits the “Order history” section.
- real-time shipment tracking is enabled via API integration.

Delivery

Product is delivered to the user’s address.



Entities

Clothes items

- Fields: id, name, price, description ,image ,categoryID

Categories

- Fields: id, name

Users

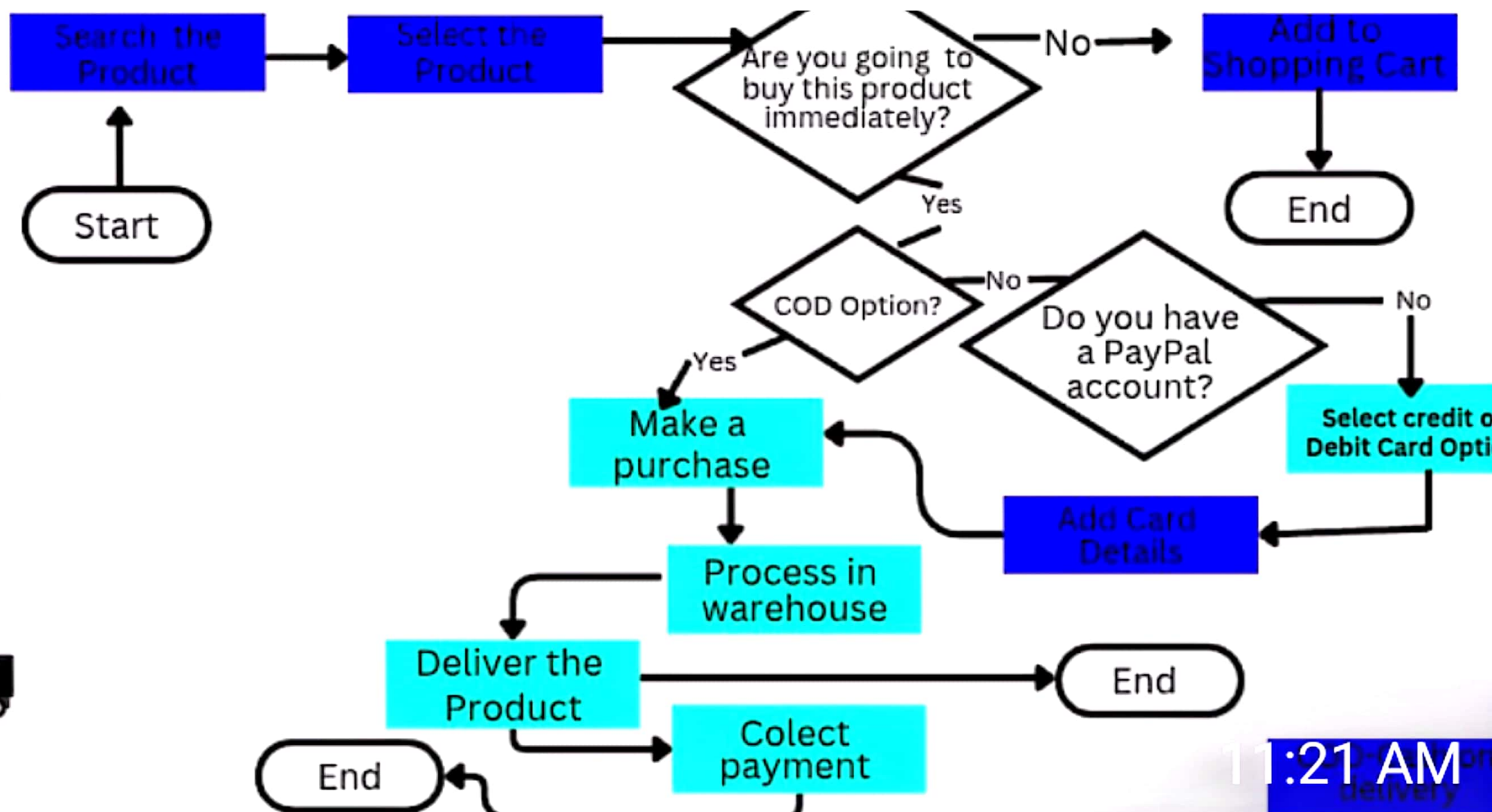
- Fields : id, name, email, password.

Orders

- Fields : id, userID, orderDate, status.

Payment gateway

- Processes User payments Securely and provides transaction confirmation.



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Components and Role

Front-end(Next.js)

- Display the User Interface For Browsing products , managing the cart , and placing Orders.
- Handless user interactions and communicates with backend services via API's.

Sanity CMS

- Acts as the primary Backend to manage product data customer details , and order records.
- provides API's for the frontend to fetch and update data.

Product Data API

- Provides endpoint to fetch product listing details and inventory status.

Third=Party API's

- Integrates services like shipment tracking and payment processing.

Payment gateway

- Processes User payments Securely and provides transaction confirmation.