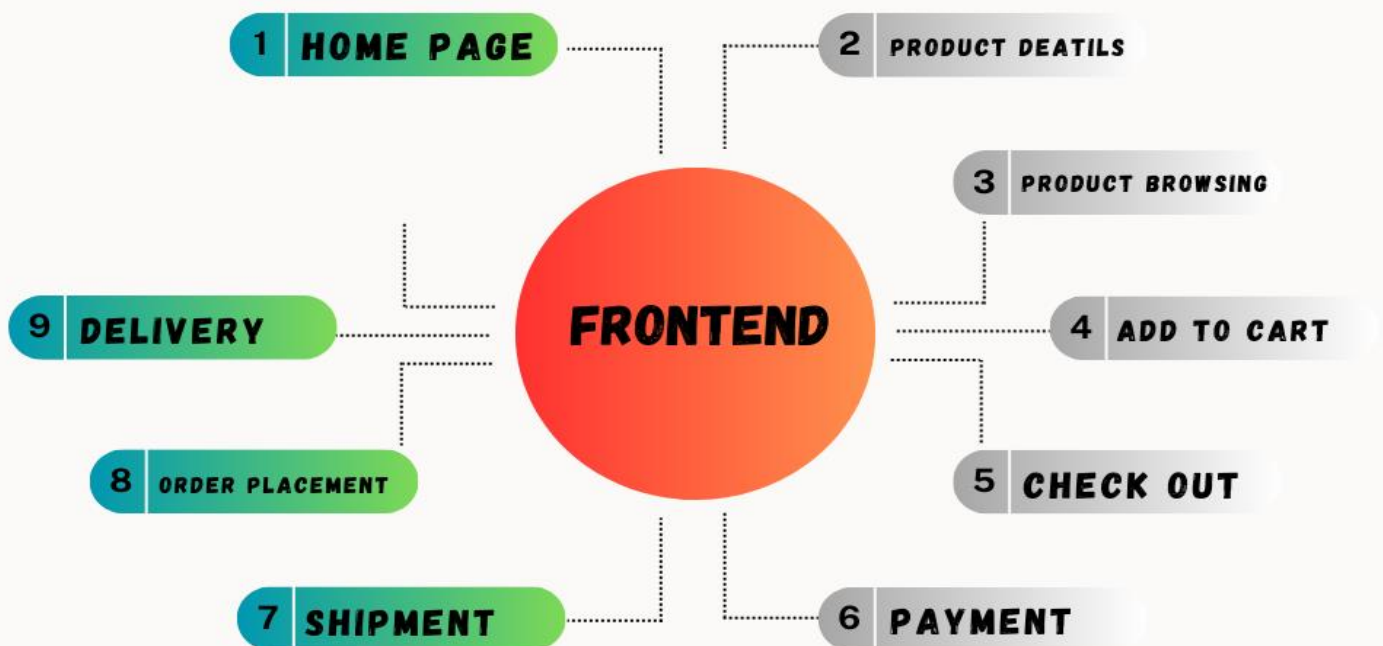


HACKATHON DAY 02

MARKET PLACE TECHNICAL

FOUNDATION

CLOTHING E COMMERCE: (SHOP – CO)



FRONTEND CONTENTS DEFINATIONS

Home Page: User lands on the Home Page. Displays featured categories, popular products and a search Bar.

Product Browsing: User selects a category or uses the search Bar. Products are displayed with options to filter by price, brands or rating.

Product Details: User clicks on a product to view its details. Page includes product description, price, availability and user's reviews.

Add To Cart: User 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: User visits the "Order History" section. Real-time shipment tracking is enabled via API integration.

Delivery Product: is delivered to the user's address.

REGISTRATION & LOGIN

USER REGISTRATION & LOGIN

User can register or login while email / password or social media

PRODUCT DISPLAY (CMS INTEGRATION)

Show products fetched from a Content Management System (CMS) such as Sanity CMS

Add to Cart:

Users select products to add to the cart. The cart dynamically updates, reflecting the selected items

Order Payment:

Users place orders with shipping information at payment details.

Shipment
Tracking:

Track shipment status after order placement

PROCEDURE

USER COLLECTION

```
{  
  "UserID": "U002",  
  "Name": "SALMAN",  
  "EMAIL": "salman@gmail.com",  
}
```

CART COLLECTION

```
{  
  "CartID": "C002",  
  "UserID": "U002",  
  "Items": [  
    {  
      "ProductID": "P002",  
      "Quantity": "3"  
    }  
  ]  
}
```

PRODUCT COLLECTION

```
{  
  "ProductID": "P002",  
  "Name" : "Jeans",  
  "Category": "Casual Wear"  
  "Price"; "2000",  
}
```

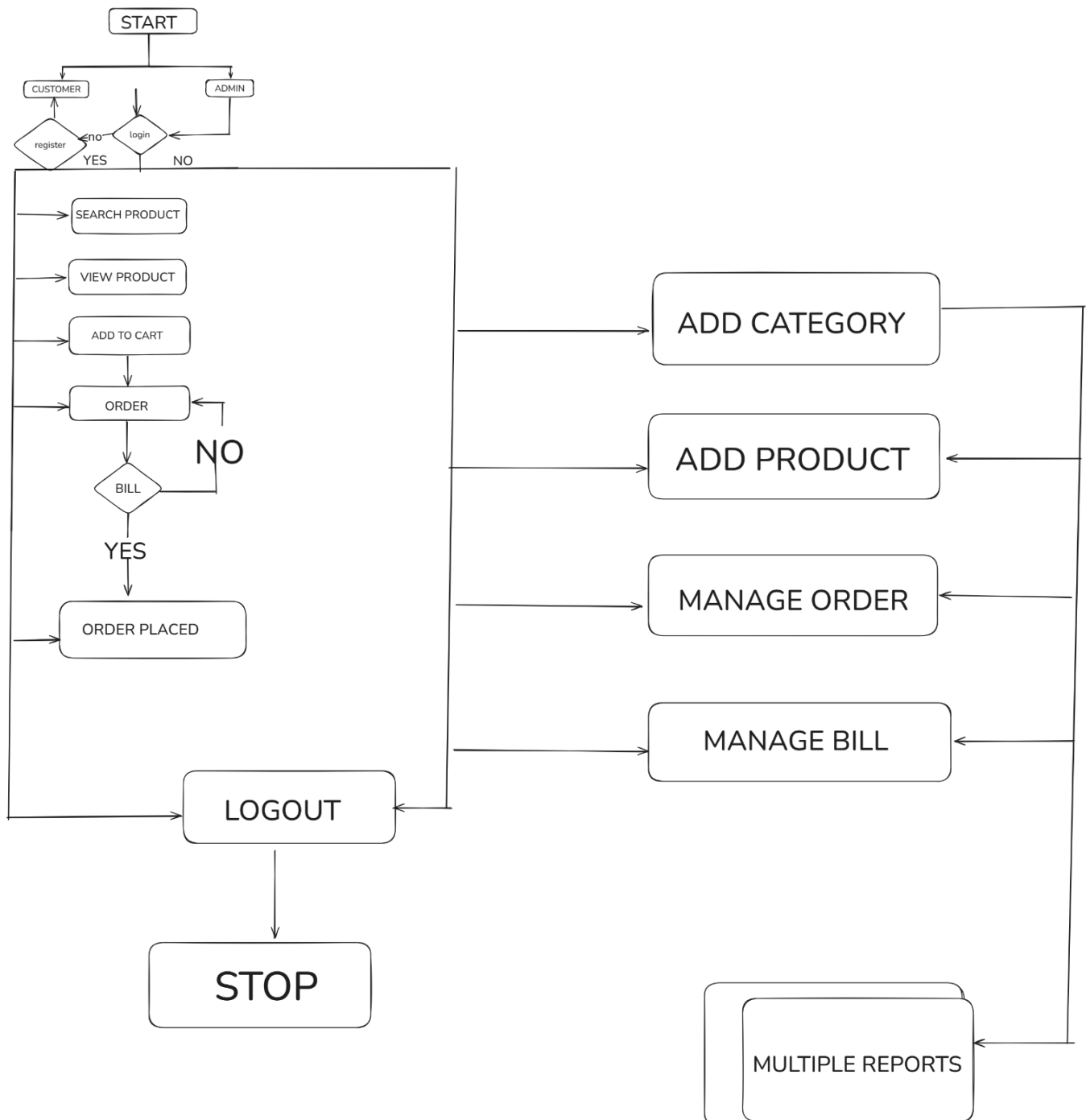
ORDER COLLECTION

```
{  
  "OrderID": "o001",  
  "UserID": "U002",  
  "PaymentStatus": "Paid",  
}
```

API ENDPOINTS

S.NO		
1	LOGIN & REGSITRATION	POST/API/auth/register
1		POST/API/auth/login
2	FETCH PRODUCTS	GET/API/products
3	PLACE ORDER	POST/API/ order
4	ADD TO CART	POST/API/cart
5	SHIPMENT TRACKING	GET/API/shipment tracking/{tracking-number}

FRONT END FLOW CHART



TECHNICAL DOCUMENTATION

COMPLETE WORK FLOW OF PROJECT

1.USER REGISTRATION:

- ❖ User navigates to the registration page.
- ❖ Next User enters registration details (e.g., Name, Email, Password).
- ❖ User submits the registration form.
- ❖ The Frontend sends the Post request to the backend API to register the User.
- ❖ The backend API validates the input data.
- ❖ If valid, the backend API send a request to Sanity to store the User data.
- ❖ Sanity stores the User data in the database.
- ❖ The backend API receives a confirmation from sanity.
- ❖ The backend API sends a confirmation email to the User.
- ❖ The User receives the confirmation email.

2. PRODUCT BROWSING:

- ❖ User navigates to the product browsing page.
- ❖ The frontend sends a GET request to the Sanity API to fetch product categories.
- ❖ Sanity API retrieves the product categories data.
- ❖ The frontend receives the product categories data.
- ❖ The frontend displays the product categories to the User.
- ❖ User selects the product category.
- ❖ The frontend sends a GET request to the Sanity API to fetch products within the selected category.
- ❖ Sanity API retrieves the product data.

- ❖ The frontend receives the product data.
- ❖ The frontend displays the products to the User.

3. ORDER PLACEMENT:

- ❖ User adds product to the cart.
- ❖ User navigates to the checkout page.
- ❖ User enters shipping and payment details.
- ❖ User submits the order.
- ❖ The frontend sends a POST request to the backend API to place the order.
- ❖ The backend API validates the input data.
- ❖ If valid the backend API processes the payment (If applicable).
- ❖ The backend API sends a request to Sanity to store the order details.
- ❖ Sanity stores the order details in the database.
- ❖ The backend API receives a confirmation from Sanity.
- ❖ The backend API sends an order confirmation email to the User.
- ❖ The User receives the order confirmation email.

4. SHIPMENT TRACKING:

- ❖ User navigates to the shipment tracking page.
- ❖ The frontend sends a GET request to a third-party API to fetch the order status.
- ❖ The third-party API retrieves the shipment status data.
- ❖ The frontend receives the shipment status data.
- ❖ The frontend displays the shipment status to the User.
- ❖ (Optional) the User can refresh the shipment status to GET updates.