Day-2: Furniro - Furniture E-Commerce Marketplace

Slide 1: Introduction

- Welcome to Furniro A Modern Furniture E-Commerce Marketplace
- Goal: A seamless platform for browsing, ordering, and tracking furniture in real-time
- Built with cutting-edge technology for scalability, security, and user experience

Slide 2: Tech Stack

- Frontend:
 - Next.js: Responsive and fast user interfaces
 - Tailwind CSS: Utility-first styling for a sleek design
 - Shaden UI: Customizable UI components for consistency
- Backend:
 - Sanity CMS: Manages product data, orders, and customer details efficiently
- Third-Party APIs:
 - Payment Gateways: 2Checkout, PayFast, QuickPay
 - Shipment Tracking: ShipEngine API for real-time updates

Slide 3: Key Features

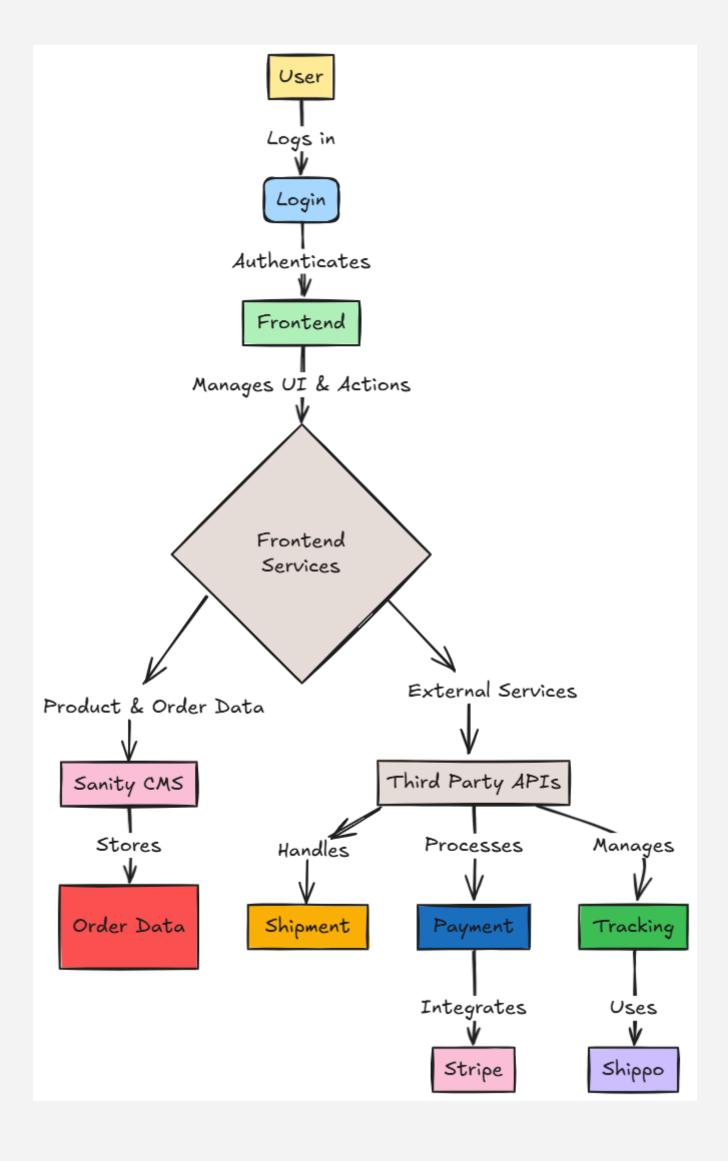
- 1. Category-Based Browsing Filter products easily
- 2. Real-Time Shipment Tracking Check order status live
- 3. Secure Payment Gateways Multiple safe payment options
- 4. Customizable Furniture Choose colors, materials, sizes
- 5. Mobile-Optimized Design Seamless experience on all devices
- 6. Order History Track past orders and shipment statuses

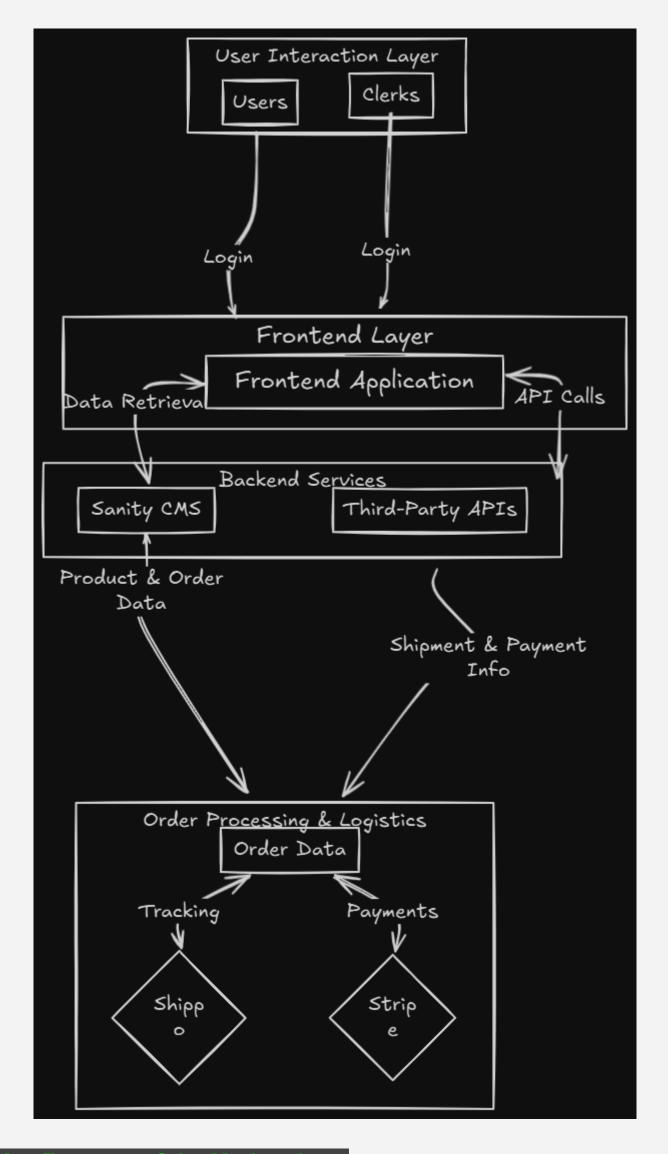
Slide 4: System Architecture (Workflow Overview)

- 1. User Registration Data stored in Sanity CMS with confirmation
- 2. Browsing & Ordering Fetch categories/products, add to cart, place order
- 3. Payment Processing Secure transaction via payment gateways
- 4. Shipment Tracking Order status fetched via ShipEngine API

Slide 5: Essential Pages

- 1. Home Page Featured products, deals, categories
- 2. Product Listing Filter by category, view all products
- 3. Product Details Price, description, stock, images
- 4. Cart & Checkout Modify items, enter details, confirm payment
- 5. Order Confirmation Order summary and success message
- 6. User Dashboard Login, registration, order history





Key Features of the Marketplace:

- 1. Category-Based Browsing:
 - Users can filter products by categories (e.g., Living Room, Bedroom).
- 2. Real-Time Shipment Tracking:
 - Users can check their order status, fetched through ShipEngine API.
- 3. Secure Payment Gateways:
 - Multiple payment gateways ensure secure transactions (2Checkout, PayFast, QuickPay).
- 4. Customizable Furniture Options:
 - o Certain products allow users to choose colors, materials, and sizes.
- 5. Mobile-Optimized Design:

- o Responsive layouts ensure a seamless experience on both desktop and mobile devices.
- 6. Order History:
 - Users can view and track their past orders along with statuses.

API Specifications:

```
1. User Registration:
```

```
Endpoint: /registerMethod: POST
```

• Description: Saves user data in Sanity CMS and sends a confirmation response.

```
Payload Example:
{
    "name": "Ali Khan",
    "email": "ali.khan@example.com",
    "password": "securepassword"
}

Response Example:
{
    "message": "Registration successful",
    "userId": "12345"
}
```

2. Fetch Categories:

- Endpoint: /categories
- Method: GET
- Description: Retrieves all product categories stored in Sanity CMS.

```
Response Example:
[
{ "id": "1", "name": "Living Room" },
{ "id": "2", "name": "Bedroom" }
```

3. Fetch Products by Category:

- Endpoint: /products?category={categoryId}
- Method: GET
- Description: Fetches all products under a specific category. If no category is specified, all products are returned.

```
Response Example:
[
{ "id": "101", "name": "Sofa", "price": 500, "stock": 10 },
{ "id": "102", "name": "Dining Table", "price": 800, "stock": 5 }
]
```

4. Place Order:

- Endpoint: /orders
- Method: POST
- Description: Saves the user's order details and items in Sanity CMS.

```
Response Example:
 "message": "Order placed successfully",
 "orderId": "78901"
}
5. Track Shipment:
     Endpoint: /shipment/{orderId}
      Method: GET
      Description: Retrieves shipment tracking details via the ShipEngine API.
Response Example:
 "shipmentId": "SE123",
 "status": "In Transit",
 "estimatedDelivery": "2025-01-18"
}
6. Process Payment:
      Endpoint: /payment
      Method: POST
      Description: Processes payment securely via a payment gateway.
Payload Example:
 "orderld": "78901",
 "amount": 2100,
 "paymentMethod": "PayFast"
}
Response Example:
 "message": "Payment successful",
 "transactionId": "TX456789"
}
```

Slide 6: API Integrations

}

- User Registration API Handles sign-up, authentication
- Fetch Categories API Retrieves product categories
- Fetch Products API Displays products by category
- Order Placement API Saves order details in Sanity CMS
- Shipment Tracking API Tracks live order status
- Payment API Secure transactions through multiple gateways

Slide 7: Conclusion & Future Enhancements

- Current Success: Robust and scalable furniture e-commerce platform
- Future Enhancements:
 - Al-powered product recommendations
 - o Augmented reality (AR) for virtual furniture placement
 - Loyalty programs & personalized discounts