Technical Requirements for Furniro Marketplace

1: System Architecture Overview

Frontend:

UI: Clean, easy navigation with product categories.

Responsive Design: Optimized for mobile, tablet, and desktop.

Essential Pages:

Home: Featured products and categories.

Blog: Home decor and furniture tips.

Shop: Product listings with filters.

Cart: View, edit, or remove items.

Checkout: Secure payment and shipping.

Contact: Page with contact form, customer support details, and social media links for easy communication.

Backend (Sanity CMS):

Sanity CMS: Manage products, categories, customers, and orders.

Product: Name, description, images, price.

Category: Furniture categories (e.g., sofas, tables).

Customer: Customer info and order history.
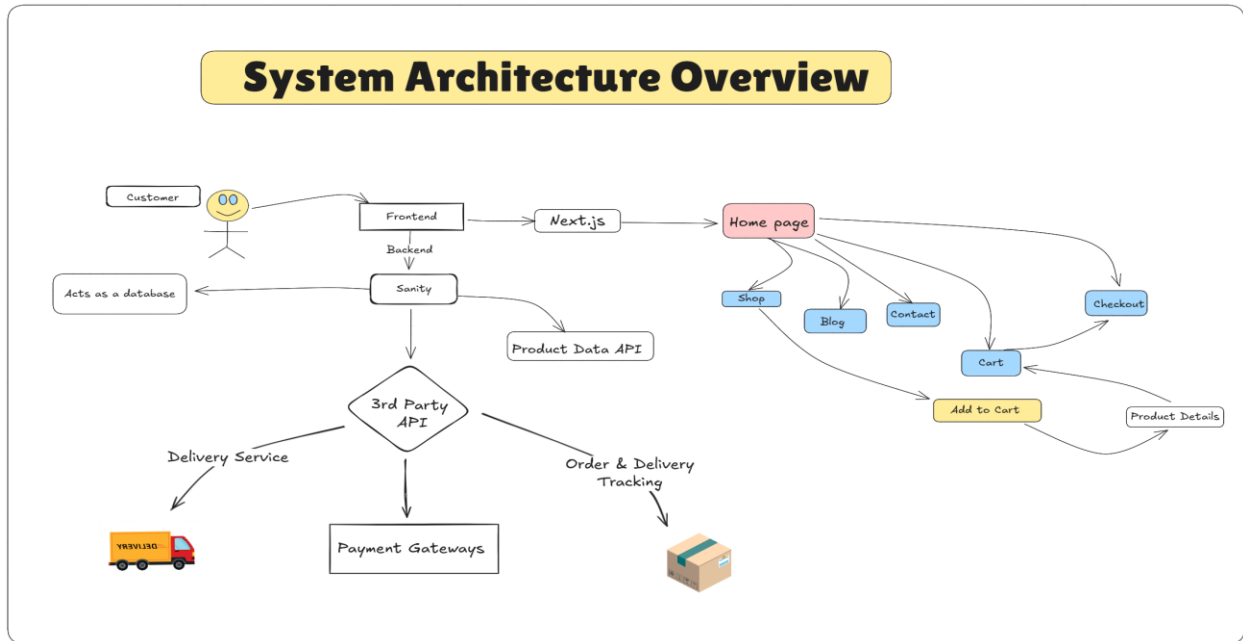
Order: Order details, status.

Third-Party APIs:

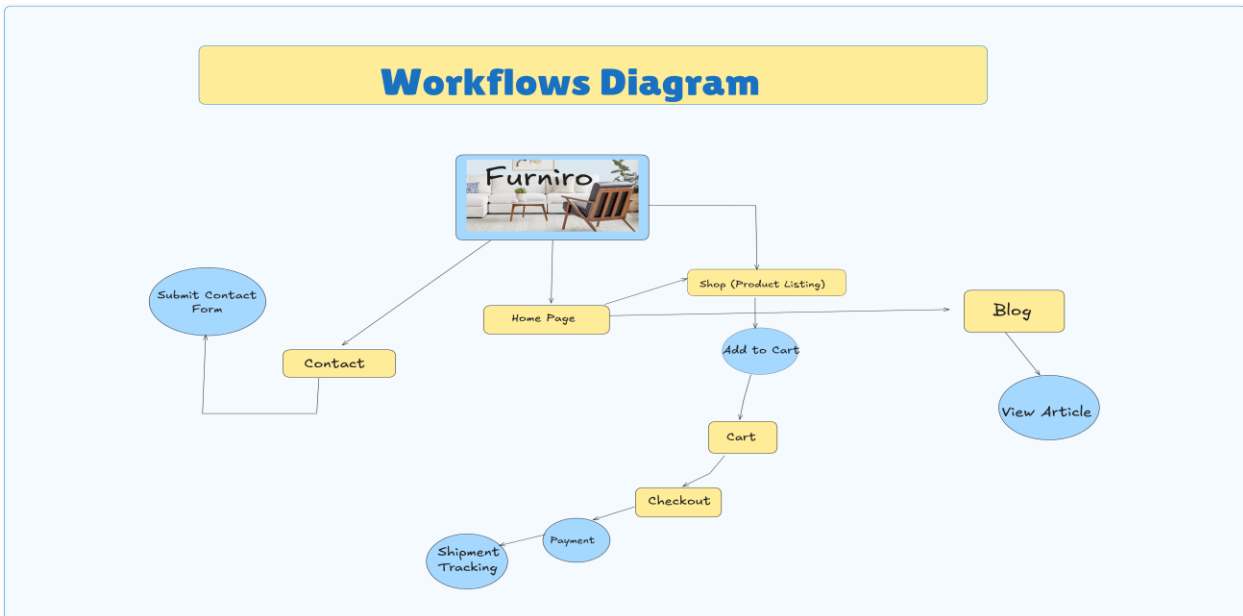**Shipment Tracking API:** Real-time tracking of orders.

Payment Gateway API: Secure payment processing.

Delivery Service API: Integration with delivery providers for accurate shipping rates and order fulfillment

2: System Architecture Diagram

System Architecture Overview

Customer → Frontend → Next.js → Home page
Frontend → Backend → Sanity
Sanity → Acts as a database
Sanity → Product Data API
Sanity → 3rd Party API
3rd Party API → Delivery Service → (Delivery truck)
3rd Party API → Payment Gateways
3rd Party API → Order & Delivery Tracking → (Package box)

Home page → Shop
Home page → Blog
Home page → Contact
Home page → Checkout
Home page → Cart
Shop → Add to Cart
Cart → Product Details

3: Workflows Diagram

Workflows Diagram

Furniro
Submit Contact Form
Contact
Home Page
Shop (Product Listing)
Add to Cart
Blog
View Article
Cart
Checkout
Payment
Shipment Tracking

4: Furniro API Requirements

Endpoint	Method	Purpose	Response Example
/products	GET	Fetch all available furniture products.	{ "id": 1, "name": "Sofa Set", "price": 500, "stock": 15 , "image": "sofa_image_url" }
/orders	POST	Create a new order for a furniture product	{ "orderId": 123, "status": "Success", "paymentStatus": "Completed", "deliveryDate": "2025-01-20" }
/cart	GET	Fetch the current items in the cart.	{ "cartId": 1, "items": [{"productId": 1, "quantity": 2, "name": "Sofa Set", "price": 500}] }
/checkout	POST	Proceed with checkout, including payment	{ "orderId": 123, "status": "Success", "paymentStatus": "Completed"}
/shipment	GET	Track order shipment status for furniture items.	{ "shipmentId": 456, "orderId": 123, "status": "In Transit", "expectedDeliveryDate": "2025-01-20" }

4: Technical Roadmap

Frontend Development:

· Design and implement UI/UX, set up frontend for product listing, cart, and checkout.

· Deliverable: Fully functional frontend.

Backend Development & Sanity Integration:

· Set up backend architecture and integrate Sanity for product data management and payment processing.

· Deliverable: Backend setup with Sanity integration.

3rd Party API Integration:

· Integrate payment gateways and shipment tracking.

· Deliverable: Integrated payment and shipment APIs.

Deployment:

· Deploy on Vercel and set up.

· Deliverable: Live app on Vercel with monitoring.