Marketplace Technical Foundation

1. System Architecture Overview

The system consists of the following key components:

- **Frontend (Next.js):** Handles user interactions and displays marketplace data.
- **Sanity CMS (Backend):** Manages products, orders, and customer data.
- **Third-Party APIs:**
 - Payment Gateway: Processes payments securely.
 - Shipment API: Fetches real-time order delivery status.

Workflow:

- 1. Users browse products on the frontend.
- 2. The frontend requests product data from Sanity CMS.
- 3. Orders are placed and stored in Sanity CMS.
- 4. Payment is processed via the Payment Gateway.
- 5. Shipment tracking updates are fetched from the Shipment API.

2. Key Workflows

- 1. **Product Browsing:**
 - User selects a category -> Fetch data from Sanity -> Display products.
- 2. **Order Placement:**
 - User adds products to cart -> Checkout -> Order is saved in Sanity CMS.
- 3. **Payment Processing:**
 - Order details sent to Payment Gateway -> Payment confirmed -> Order finalized.
- 4. **Shipment Tracking:**
 - Order status retrieved from Shipment API -> Displayed on frontend.

3. Category-Specific Instructions

- **Q-Commerce:** Focus on express delivery workflows. Example API: /express-delivery-status.

- **Rental eCommerce:** Includes rental duration, deposit, and return condition tracking.
- **General eCommerce:** Standard product browsing, cart management, and order placement.

4. API Endpoints

5. Sanity Schema Example

```
export default {
  name: 'product',
  type: 'document',
  fields: [
      { name: 'name', type: 'string', title: 'Product Name' },
      { name: 'price', type: 'number', title: 'Price' },
      { name: 'stock', type: 'number', title: 'Stock Level' }
  ]
};
```