

# Marketplace-Technical-Foundation

## Overview

This document outlines the core technical framework for the marketplace platform ,detailing the key routes, API integrations, and the flow of order processing

## Tech Stack

- **Frontend** : Built with Next.js, it supports server-side rendering and fast development of UIs .
- **Backend** : Powered by Sanity CMS, it stores and manages content like products, orders, customer data .
- **Third-Party APIs** : The marketplace integrates with external APIs to enhance functionality .

## Operational Flow

- **Home Page (/)**
  - Fetch and present a list of available products from an external API.
  - Users can navigate to product-specific pages to see more information.
- **Product Detail Page (/products/{product\_id})**
  - Fetch and show detailed product data such as description, price, and stock.
  - Provide an option for users to add the product to their shopping cart.
- **Shopping Cart (/cart)**
  - Display the current items added to the cart.
  - Allow users to modify the cart by adding, updating, or removing products.

Data is managed and stored within the Cart Schema of Sanity CMS.

- **Checkout Page (/checkout)**
  - Enable users to enter shipping details and review their cart before finalizing the purchase.

The total order price is displayed, and users can confirm their order.

- **Order Management**

- A Shipping ID is generated once the order is confirmed.
- The status of the order will be updated as follows:

1. Processing → Order is being prepared.

2. Shipped → The order has left the warehouse and a Tracking ID is issued.

3. Delivered → The order has been delivered to the customer.

- **Order Tracking (/order/{order\_id})**

- Users can track the status of their order using the Tracking ID.
- Order details and current status are fetched from the Order Schema in Sanity.

## **API Endpoints**

- **Products (GET):** Retrieve product data from Sanity.
- **Orders (POST):** Create a new order in the system.
- **Shipment (GET):** Track the status of an order using a third-party API.

## **Diagram**

Below is a high-level flow diagram illustrating the route workflow :

