

System Architecture for Nike Shoes E-Commerce

This document outlines the system architecture for a general e-commerce marketplace with a specific focus on managing and selling Nike shoes. The architecture is designed to ensure efficient data flow, robust backend operations, and a seamless user experience.

1. Components Overview

1.1 Frontend (Next.js):

- Handles product browsing, filtering, and user interactions.
- Provides a responsive UI for desktop and mobile.

1.2 Backend (Sanity CMS):

- Manages product data, including Nike shoes, orders, and customer details.
- Provides APIs for frontend integration.

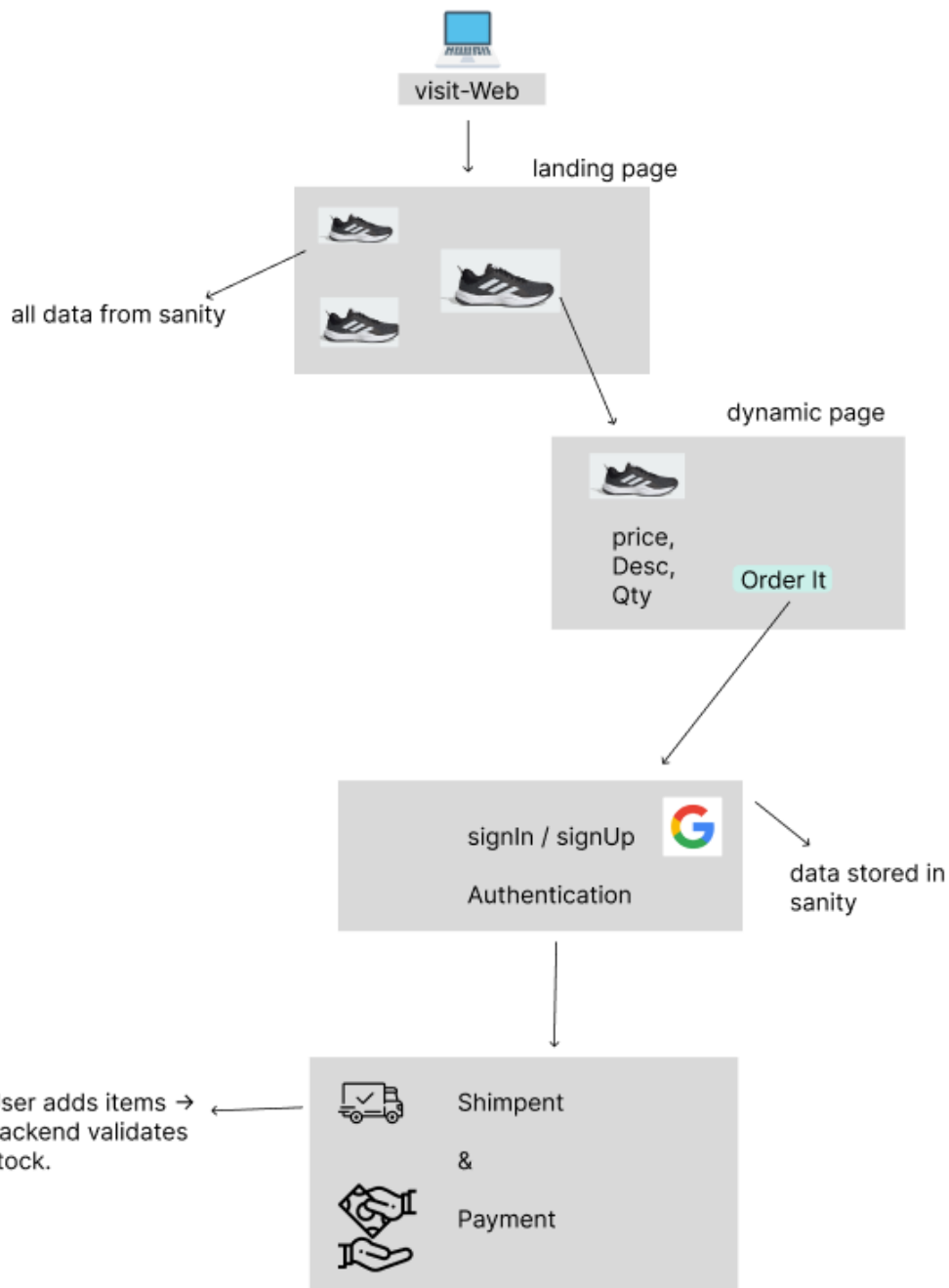
1.3 Third-Party APIs:

- Shipment Tracking API: Tracks real-time shipment statuses.
- Payment Gateway: Processes secure payments.

2. High-Level Workflow Diagram

The high-level workflow illustrates the interaction between the system components:

1. User browses products on the frontend (Next.js).
2. Frontend requests product data from Sanity CMS.
3. User places an order, which is saved in Sanity CMS.
4. Payment details are processed through the Payment Gateway.
5. Shipment tracking details are fetched via a Third-Party API.



3. Summary

This architecture ensures seamless integration between components, providing a scalable and efficient solution for managing Nike shoes products on an e-commerce platform.