

# Marketplace Technical Foundation – Nike Ecommerce

This project is e-commerce platform for selling a **wide range of Nike products**. It focuses on providing a seamless shopping experience with wide range of Nike products, user-friendly navigation, responsive design, and secure authentication.

## Technologies Used

- **Frontend:** Built using Next.js and Tailwind CSS for dynamic, responsive user interfaces.
- **Backend:** Sanity CMS for content management, providing API-based data retrieval.
- **Authentication:** Clerk for secure and seamless user login/signup.
- **Deployment:** Hosted on Vercel for scalability and performance.

## Goals and Objectives

### 1. Business Goals:

- a. Many customers face problem in searching original Nike Products all in one place.
- b. We will provide wide range of products in multiple categories like shoes, sports clothing and accessories.
- c. We will make website, and make user interface easy to understand and use.

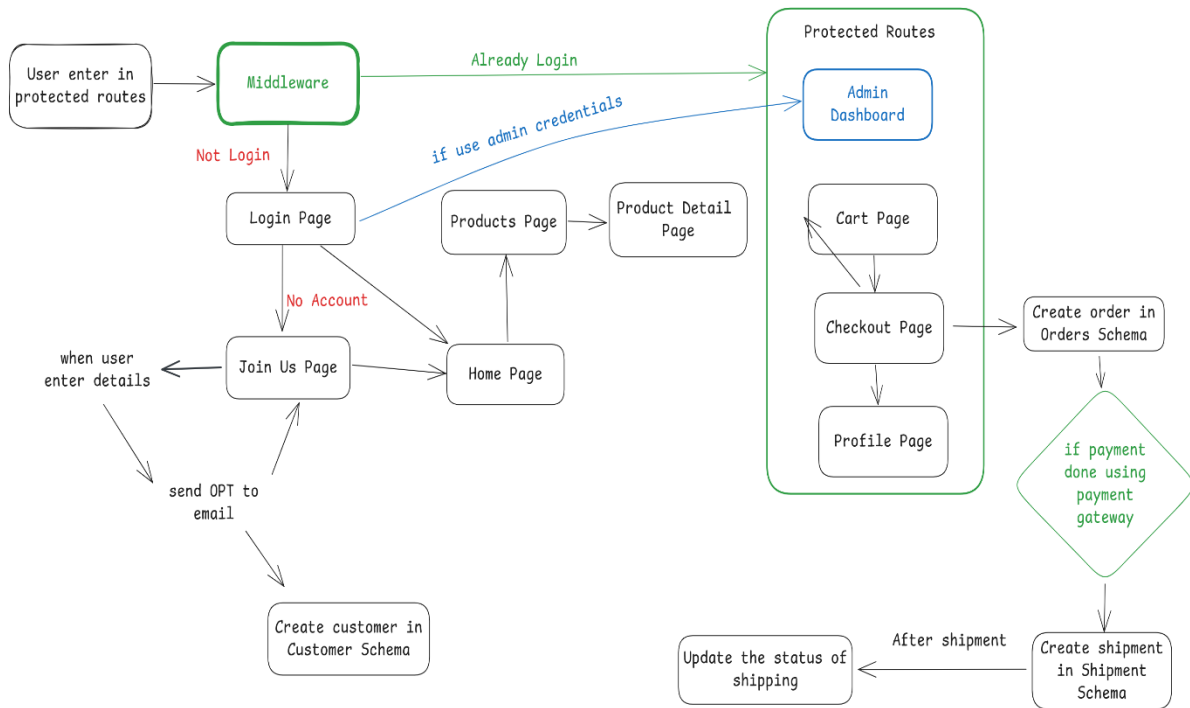
### 2. Technical Goals:

- a. Implement a scalable system architecture.
- b. Integrate third-party APIs for secure payment and real-time shipment tracking.
  - Design user-friendly authentication workflows using Clerk.

## System Architecture

## Work Flow Diagram:

### COMPLETE WORKFLOW OF NIKE ECOMMERCE MARKETPLACE



## Key Workflows

### 1. User Registration:

- First, User signs up via Clerk.
- Confirmation email sent to the user..
- After confirmation using OTP user Data stored in Sanity CMS in Customers Schema.

### 2. Product Browsing:

- User navigates to the home page.
- Product data fetched dynamically from Sanity CMS from Products Schema.
- Products displayed with filters and categories.

### 3. Order Placement:

- User adds products to the cart.
- Proceeds to checkout.
- Then Order details stored in Sanity CMS in Orders Schema.

### 4. Payment Workflow:

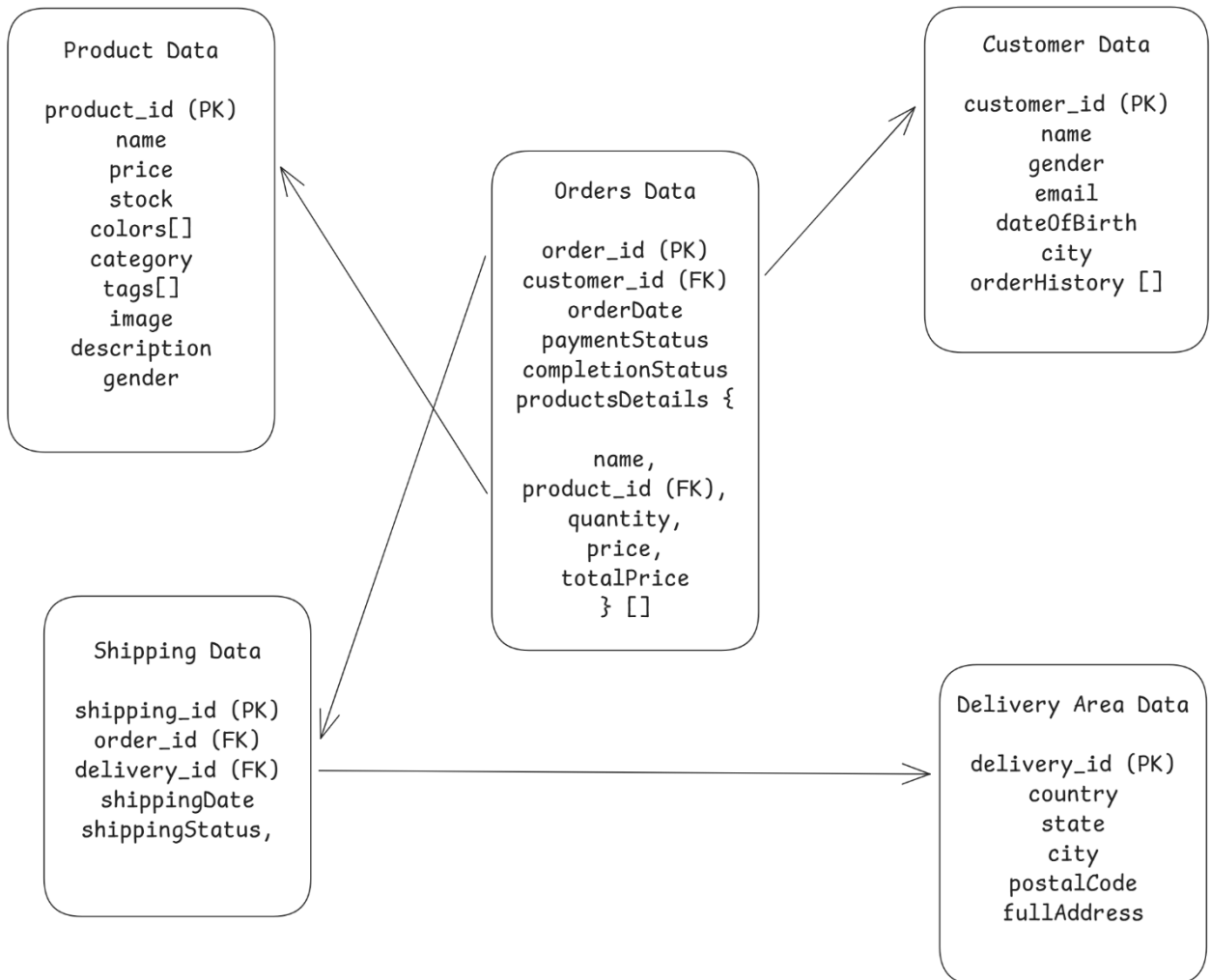
- User select the preferred payment method at checkout.
- Payment details are securely processed through a third-party payment gateway.
- Confirmation of successful payment is received and stored in Sanity CMS.

#### 5. Shipment Tracking:

- Order status fetched via a third-party API.
- Real-time updates displayed on the user dashboard.

### Schema's Relationship Diagram

## SCHEMA DIAGRAM



# API Requirements

## 1. Product Management:

- **Endpoint:** /products
- **Method:** GET,
- **Description:** Fetch product details from Product Schema.

## 2. Order Management:

- **Endpoint:** /orders
- **Method:** POST
- **Description:** Create a new order in Orders Schema.

## 3. Shipment Tracking:

- **Endpoint:** /shipment
- **Method:** GET
- **Description:** Fetch real-time shipment updates.

## 4. Register Customer:

- **Endpoint:** /register
- **Method:** POST
- **Description:** Create a new customer in Customer Schema

This document serves as a comprehensive submission for the hackathon, showcasing the technical foundation and implementation roadmap for the Nike Ecommerce platform.