# Day 2: Technical Foundation - Sports E-commerce Marketplace

#### 1. Introduction

This document outlines the technical foundation established for the sports e-commerce marketplace on Day 2 of the hackathon. It details the chosen technologies, API designs, project structure, and initial setup for key services.

# 2. Detailed Technology Stack

- Frontend: Next.js 15, Shadon UI
- Backend/CMS: Sanity (latest version)
- Authentication: Clerk (latest version)
- Payment Gateway: Stripe
- Shipping API (Dummy): (Details below)
- Other: ShipEngine

## 3. API Design

- Order API (/api/order)
  - Method: POST
  - Request Body:JSON

#### o Response:

■ Success (200):

```
JSON
{
    "message": "Order created successfully",
    "order": {
        "_id": "order789", // Sanity-generated ID
        "orderId": "user123-2024-10-27-...", // Custom order ID
        // ... other order details
    }
}
```

```
■ Error (500):
      JSON
        "message": "Error creating order",
        "error": { /* Error details */ }
 • Functionality: Creates a new order in the Sanity CMS. Generates a unique orderld.
• Stripe API (/api/checkout)
 o Method: POST
 Request Body:
    JSON
       "lineItems": [
           "price data": {
             "currency": "usd",
             "product_data": {
               "name": "T-Shirt",
             "unit_amount": 2000, // $20.00 in cents
           "quantity": 1,
         },
        // ... other line items
      ]
    }
 o Response:
   ■ Success (200):
      JSON
        "url": "https://checkout.stripe.com/..." // Stripe checkout URL
   ■ Error (500):
      JSON
         "error": "Error creating checkout session"
 • Functionality: Creates a Stripe checkout session.
• Dummy Shipping API (/api/shipping)
 o Method: POST
 Request Body: (Example)
```

JSON {

```
"shippingAddress": { /* Address details */ },
    "cartItems": [ /* Cart items */ ]
}

Output

Response: (Example)

JSON
{
    "shippingCost": 10.00,
    "estimatedDelivery": "3-5 business days"
}
```

• **Functionality:** For now, this API will return dummy shipping data. It can be integrated with ShipEngine or another shipping provider later.

## 4. Project Structure

- Next.js App Router structure.
- app/api: Contains API routes (order, checkout, shipping).
- app/components: Reusable components.
- sanity: Sanity CMS configuration and schemas.

## 5. Version Control Setup

• GitHub Repository: Burair Design Jam

#### **6.** Authentication Implementation

• Clerk is used for authentication. Google authentication is currently implemented.

## 7. Next Steps

- Implement the actual shipping integration with ShipEngine.
- Develop more API endpoints as needed (e.g., product retrieval, user profiles).
- Start working on the frontend components and pages.

#### 8. User Flow

- Description: This section outlines the typical user flow for a customer placing an order on the sports e-commerce marketplace. It illustrates the steps involved from browsing products to order confirmation.
- Diagram:

#### User Flow For E-Commerce Marketplace

