Day 2 - Marketplace Technical Foundation - SportHub

1. System Architecture Overview

Components:

Frontend: Next.js 15 (App Router) with Tailwind CSS.

Backend: Sanity CMS for product/order management.

Third-Party Services:

Payments: Stripe API.

Shipments: Shippo API.

Auth: NextAuth.js.

2. Key Workflows

Workflow 1: User Registration

User signs up via NextAuth.js (Google/Email).

User data stored in Sanity CMS under User schema.

Workflow 2: Order Placement

User adds products to cart → Cart stored in Zustand state.

Checkout triggers Stripe payment → Order created in Sanity.

Shippo API generates shipment tracking → Status updated in Sanity.

3. API Requirements

Endpoint	Method	Purpose	Example response
`/api/products`	GET	fetch all products	[{id: "abc", name: "Nike Air", price: 150}]

/api/products	POST	Create order	{orderId: "123", status: "pending"}
/api/shipment/{id}	GET	Track shipment	{status: "In Transit", eta: "2025-01-20"}

4. Sanity Schema Design

Product Schema:

```
// schemas/product.js

export default {

  name: 'product',

  type: 'document',

  fields: [

    { name: 'name', type: 'string', title: 'Product Name' },

    { name: 'price', type: 'number' },

    { name: 'sku', type: 'string' },

    { name: 'seller', type: 'reference', to: [{ type: 'user' }] },

    { name: 'images', type: 'array', of: [{ type: 'image' }] },

  ],

};
```

Order Schema:

```
// schemas/order.js

export default {

  name: 'order',

  type: 'document',

  fields: [
```

```
  { name: 'customer', type: 'reference', to: [{ type: 'user' }] },

  { name: 'products', type: 'array', of: [{ type: 'product' }] },

  { name: 'status', type: 'string', options: ['pending', 'shipped', 'delivered'] },

 ],

};
```

5. Collaboration Notes

Peer Review: Feedback received on simplifying order fulfillment workflow.