Technical Planning Outcomes Checklist

Technical Plan

1. Tech Stack:

- o Frontend: Next.js
- o Backend: **Sanity.io** (for content management)
- o Database: Sanity's structured content with GROQ queries.
- Deployment: Vercel for hosting.

2. Core Features:

- o User Authentication (optional for buyers and sellers).
- o Product Listings (categories, prices, images).
- o Search & Filters (based on price, category, location).
- Cart and Checkout.
- Seller Dashboard for managing inventory.

3. **Integrations**:

- o Payment Gateway (Stripe, PayPal).
- o Image Optimizer (Sanity and Next.js Image Component).

Workflow

1. Planning Phase:

- o Define features (MVP: Product listing, search, and cart).
- o Set timelines for design, development, and testing.

2. **Development Phase**:

- o Set up Sanity schema.
- o Connect Sanity with Next.js frontend using APIs.
- o Build UI components (e.g., ProductCard, Filters, Cart).
- o Implement routing using Next.js dynamic routes.

3. Testing Phase:

- o Verify API responses and edge cases.
- o Test responsiveness and performance.

4. **Deployment**:

- Deploy backend (Sanity Studio).
- Deploy frontend on Vercel.

API Requirements

1. Product Management APIs:

o GET: Fetch product listings.

- o POST: Add a new product.
- o PUT: Update product details.
- o DELETE: Remove a product.

2. Search and Filter APIs:

- o Query by category, price, and availability.
- o Text search for product names/descriptions.

3. Cart and Checkout APIs:

- o POST: Add to cart.
- o DELETE: Remove from cart.
- o POST: Process payment.

Sanity Schemas

Product

- title (string)
- description (text)
- price (number)
- category (reference → Category)
- image (image)
- available (boolean)

Category

- name (string)
- description (text)

User

- username (string)
- email (string)
- isSeller (boolean)