**Technical planning Documentation**

**Hackathon Day 2**

1-Define Technical Requirement

**1-Frontend (Next.js):**

* User-friendly interface for browsing products.
* Responsive design for mobile and desktop users.
* Essential pages: Home, Product Listing, Product Details, Cart, Checkout, and Order Confirmation.

**2-Backend:**

* REST APIs to manage user,products,orders and delivery

**3-Database (MongoDB):**

* NoSQL database to manage flexible and scalable data structures.

**4-CMS (Sanity):**

* Manage dynamic content like banners, featured products and blogs.

**5-Order tracking (Ship engine):**

* Track orders in real time
* Manages shipment and delivery updates

**6-Authentication (MongoDB):**

* MongoDB stores user credentials security.

**7-Deployment:**

* Frontend deployed on vercel.
* Backend deployed on AWS.

2-Entities

* Clothes (every soat has unique id)
* Customers (every customer must have login)
* Orders: Records of transactions between customers and my platform in sanity.
* Delivery Zones: Areas covered by your logistics or service providers.
* Shipment: Tracks the movement of items from warehouse to customer.
* Payments: Tracks transactions and payment statuses.

3-API requirements:

**Endpoint Name: /products**

* Method: GET
* Description: Fetch available products from Sanity in frontend.
* Response: Product details (ID, name, price, stock, image)

**Endpoint Name: /orders**

* Method: POST
* Description: Create a new order in Sanity.
* Payload: Customer info, product details, payment status.