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Slot details: FRIDAY MORNING (9am to 12pm)

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Hackathon 3 - Day 2

Planning the technical foundation

Marketplace type : E-Commerce

---->>Installation

+ node js

+Vscode

+ Nextjs

+ Typescript (in nextjs)

+ Tailwind CSS (in nextjs)

+ Sanity.io

+ shadcn.ui (for components)

+ react icons

+ lucide-react icons

+ stripe

+ Axios

+ any library for animation (optional)

---->>User Interface

+ Home page

+ Product Listing Page

+ Product detail page

+ Shop page

+ About page

+ Contact page

+ FAQs page

+ Cart page / slide bar

+ Wishlist page

+ Success page

---->>Functionalities

+ Product browsing

+ Add to Cart

+ Add to Wishlist

+ Checkout

+ Shipping Tracker

+ inventory

+ real time updates in Inventory

---->>Work flow

STEP 1:customer lands our website via URL or brower search.

STEP 2: he will explore the interactive landing page.

STEP 3: he decided to purchase something from our online e-commerce store so he will go to products listing page to see more products.

STEP 4: He will click on any product to view it's details

STEP 5: product detail page will be opened through the unique slug or id of it , and it will all done by [**DYNAMIC ROUTING**].

STEP 6: now the product detail page is open but the data of that product will come from sanity,

STEP 7: an API of our product in which product data is stored will be imported into sanity through POST method

STEP 8: data has been imported to the sanity successfully

STEP 9: Now it's time to fetch those products to our front-end, we'll fetch it by using **GROQ** query

STEP 10: set the product detail page's layout to make it interactive

STEP 11 : by clicking on 'add to cart' button , product should be added to cart If it is in stock.

STEP 12: if product is out of stock then 'add to cart' button will be replaced with 'add to wishlist' button

STEP 13: after adding products to cart , customer will go to checkout (API of stripe will be called here)

STEP 14: after filling the form of his important info, he will now click on 'pay' button

STEP 15: after the payment method, customer will be navigated to success page

STEP 16: there, customer will see a button 'track shipment'

STEP 17: it will ask some important data of customer , then will generate tracking (all of this is happening by using third-party APIs)

STEP 18: in this step customer will find a 'generate a label' button

STEP 19: after clicking on that button he will be able to get a label pdf

STEP 20: Pdf will be downloadable

the purchase will gonna be end here!

--->> Sanity schema

```
export const product = {
 name: "product",
 type: "document",
 title: "Product",
 fields: [
{
  name: "image",
  title: "Product Image",
  type: "image",
},
{
  name: "name",
  title: "Product Title",
  type: "string",
},
{
  name: "price",
  title: "Product Price",
  type: "number",
},
```

```
  {
    name: "price_id",
    title: "Stripe Price ID",
    type: "string",
  },
  {
    name: "description",
    title: "Product Description",
   type: "text",
   },
  {
    name: "slug",
    type: "slug",
    title: "Product Slug",
    options: {
    source: "name",
  },
  },
  {
     name: "stock",
     type: "number",
     title: "Stock",
  },
 ],
 };
 (Validation will also be added in this schema)
```

---->> API Endpoints

+/productsGETFetch all products details   [{"name": "Product Name", "slug":

"product-slug", "price": 250}]

+/order   POST Submit new order details   {"orderId":123,

"status": "success"}

+/shipment-tracking   GETFetch real-time tracking updates {"trackingId":

"ABC123", "status": "In Transit"}

+/cart   POST   Add product to cart   {"cartId":

"111", "items": {......} }

+/wishlist   POST   Add to wishlist   {"wishlistId":

101, "items":{....} }

+/inventoryGETFetch   real-time stock levels   {"productId": 456,

"stock": 100 }

---------conclusion---------

this E-commerce marketplace will offer a seamless and a very exciting online
shopping experience to the customers
with fast deliver, user-friendly interface , easy to by functionality and a very
fast and flowy destination for elegant and classy furniture for home, offices,
rental homes, or any other place..