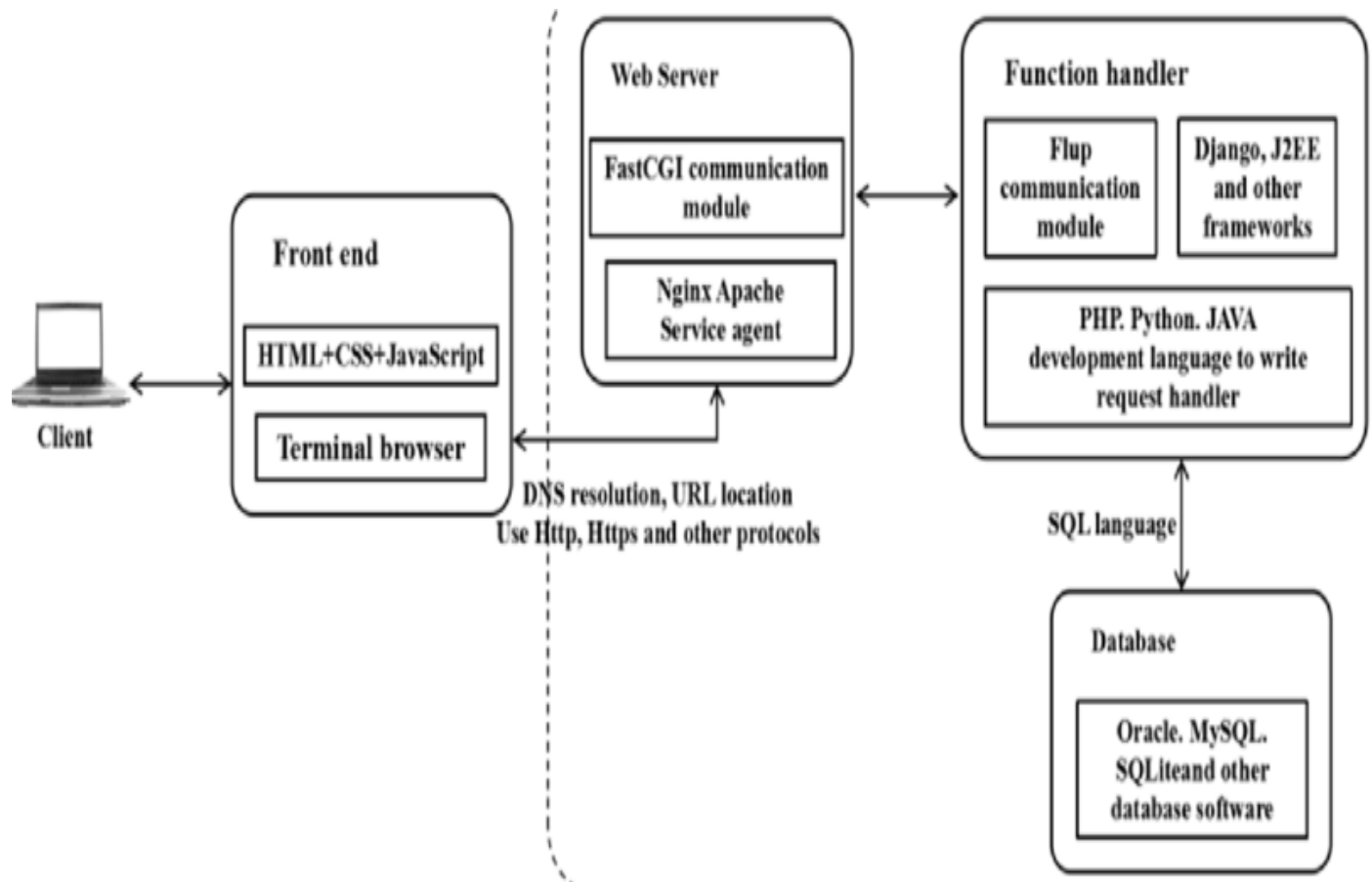


When planning the technical foundation for a marketplace website, it's essential to ensure a robust, scalable, and secure system that can handle multiple users, transactions, and content efficiently. Below is a breakdown of key considerations for planning this technical foundation:

Product & Service Management Planning:

- . Product Database Structure:** Define attributes like name, description, price, availability, and images for each listing. Ensure scalability to accommodate thousands of listings.
- . Admin Dashboard:** Create an admin panel for managing listings, user accounts, and transactions.
- . User-generated Content:** Allow sellers to upload products/services, update listings, and manage inventory while enforcing content validation.
- . Search Algorithm:** Implement a powerful search engine for quickly retrieving

products or services based on various filters and keywords.



All of these specifications are needed to check before making a marketplace.

The next step is writing schema:

Sanity allows you to define custom schemas for your content. You'll define schema files to structure how data is stored and accessed within your CMS. For the marketplace, you need

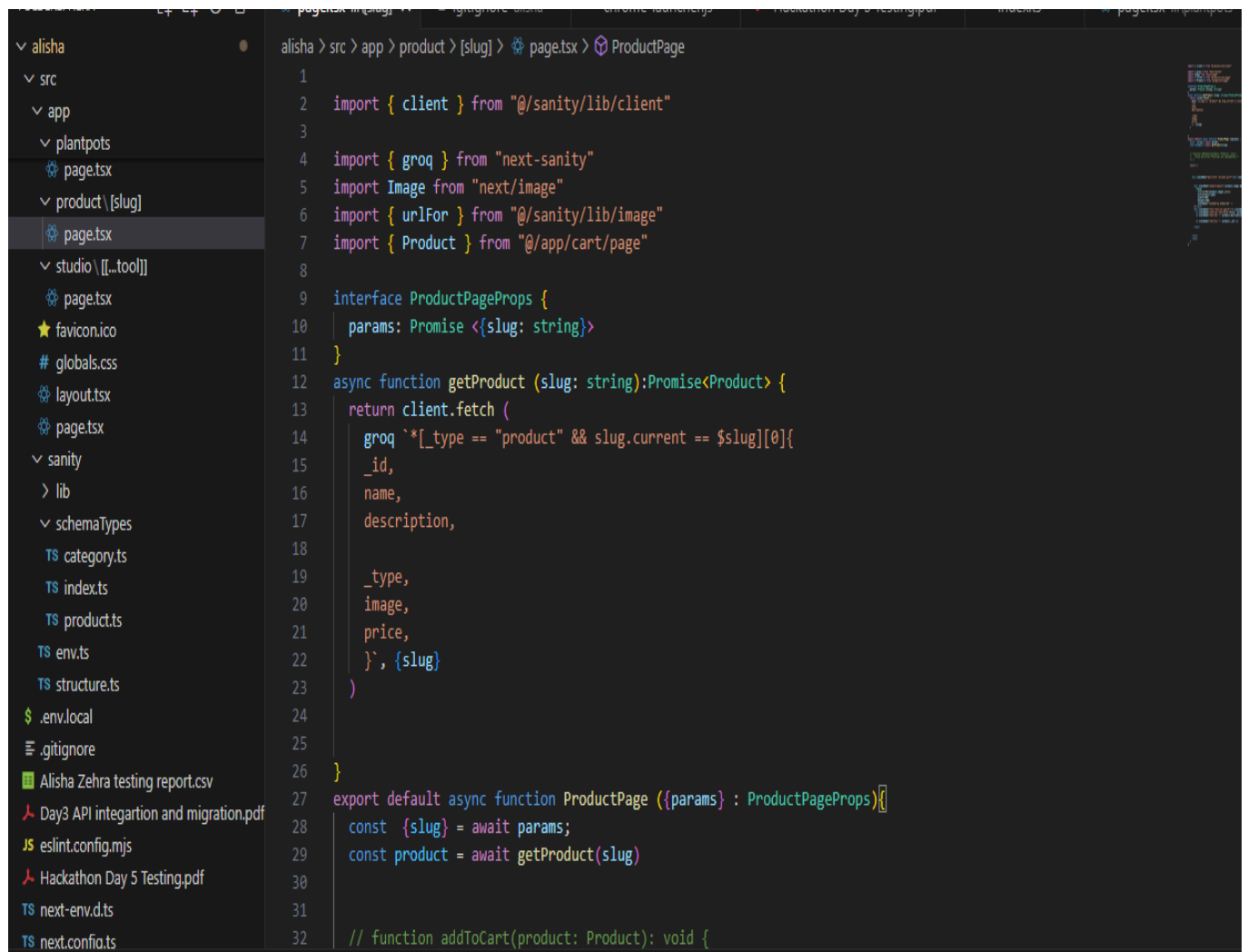
schemas for products, users, and other essential content.

```
export default {  
  name: 'product',  
  title: 'Product',  
  type: 'document',  
  fields: [  
    {  
      name: 'name',  
      title: 'Name',  
      type: 'string',  
    },  
    {  
      name: 'slug',  
      title: 'Slug',  
      type: 'slug',  
      options: {
```



Schema for products in ecommerce store

Then sanity configuration to fetch data from sanity including details of products.



```
1
2 import { client } from "@sanity/lib/client"
3
4 import { groq } from "next-sanity"
5 import Image from "next/image"
6 import { urlFor } from "@sanity/lib/image"
7 import { Product } from "@app/cart/page"
8
9 interface ProductPageProps {
10   params: Promise <{slug: string}>
11 }
12
13 async function getProduct (slug: string): Promise<Product> {
14   return client.fetch (
15     groq `*[ _type == "product" && slug.current == $slug][0]{
16       _id,
17       name,
18       description,
19       _type,
20       image,
21       price,
22     }`, {slug}
23   )
24 }
25
26 export default async function ProductPage ({params} : ProductPageProps) {
27   const {slug} = await params;
28   const product = await getProduct(slug)
29
30   // function addToCart(product: Product): void {
31
32 }
```

With the combination of Sanity for content management and Next.js for frontend development, you can build a highly flexible and performant marketplace website. Sanity allows for dynamic and structured content management, while Next.js helps deliver optimized, SEO-friendly pages with server-side rendering and static site generation capabilities.

By defining custom schemas in Sanity (for products, users, orders) and using Next.js for data fetching and page rendering, you're setting up a strong foundation for your marketplace.