
Planning the technical foundation

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OBJECTIVE:

In this case, we will create a structure technical plan that aligns with the project business objectives. The focus on the plan is:

- .Define the system architecture
- .clarifying data workflows and API.
- .Explain the integration on the website with sanity CMS.

TECHNICAL PLAN

→ User journey flows

A structure process when user interacts with website

→ User signup- login

The user create an account or login

→ Product browsig

The user browses categories, size and filters by price

→ Data is dynamically fatched from sanity CMS.

Shopping cart & checkouts

. The user adds product to the cart and proceeds to checkout

.Card data is stored in a session

System architecture

. FRONTEND:

Technology:Next.js

.Description:fully responsive and user friendly design

BACKEND:

.API are used for data fetching and CRUD operations.

CMS INTEGRATION:

Sanity CMS is used to manage product and user data

Diagram:Schema relationship

USER;ID | Name | Email | Password

PRODUCT::ID | Name | Category | Price | Stock

ORDERS: orde ID | userID | ProductID | Total

Sanity CMS integration

.Managing product and category data

.Keeping records fro user profiles and orders

Diagram sanity data flow

[sanity CMS]=> [frontend]=>{user}

Future Enhancement

1. Online payment Integration
2. Real time chatbot
3. User managed shops

Diagrams

Basic Architectur

{user} => [Frontend] => [Next.js] => [APIs]
=> [sanityCMS]

API FLOWS:

.....Authentication API

.....Product API

.....Order management API

Database Schema(sanity)

Entities:

User:ID,
name,email,password,role(buyer/seller)

PRODUCTS:

ID, name, category,price,size,stock,description

ORDERS:

orderID,userID,product ID,total amount,status