Building Dynamic Frontend Components

User Registration:

• I created an API endpoint called /signup to create a user to Sanity CMS document called User created through a given schema.

```
s users.ts U X
(L)
      FIGMADESIGN
                                     1 export const usersSchema = {
       > 📑 data
                                             name: 'user',
      > node_modules
                                             title: 'User',
                                             type: 'document',
       > 🥮 public
                                      5 Fields: [
       > 📭 lib
                                                     name: 'name',
         schemaTypes
                                                     title: 'Name',
B
          index.ts
                                                     type: 'string',
          rs orders.ts
          rs products.ts
name: 'email',
                                                     title: 'Email',
         ts env.ts
                                                     type: 'string',
         structure.ts
       > 🛅 scripts
       > 📑 types
                                                      name: 'password',
                                                     title: 'Password',
        뷰 .env
                                                     type: 'string',
        eslintrc.ison
     OUTLINE
```

```
route.ts U X
                                                                                                                             წე Ⅲ ...
       EXPLORER
                                     app > api > signup > 
s route.ts > ♦ POST > № newUser > ۶ password
      FIGMADESIGN
                      export async function POST(request: Request) {
       > 📭 .next
                                                   const { name, email, password } = await request.json();
       🗸 脯 арр
       > actions
                                                   const hashedPassword = await bcrypt.hash(password, 15);
        V 🚎 api
        > 📑 auth
₹
                                                   const newUser = {
         > order
                                                       _type: 'user',
         > products
                                                       _id: uuidv4(),
RP
        V 🗁 signup
                                                       email,
           route.ts
(()
                                      16
                                                       password: hashedPassword.
        > checkout
        > contact
                                                   await client.create(newUser);
        > 🖿 login
                                                   return new Response(JSON.stringify({ message: 'User created successfully' })
        > products
                                                       status: 201.
       > register
        > 🖿 studio
                                               } catch (error: any) {
          🛨 favicon.ico
(8)
                                                   return new Response(JSON.stringify({ message: 'Failed to create user', error
         3 globals.css
                                                       status: 500,
     > TIMELINE
```

User Authentication with Auth.js:

• I used Auth.js library for authentication, setup it from here https://authjs.dev/getting-started/installation?framework=next-js
Below are the images showcasing how it been created and used.

```
auth.ts 1, U X
      EXPLORER
                                                                                                                           C)
      FIGMADESIGN
                                    rs auth.ts > .
                                          import NextAuth from "next-auth";
      > next
                                          import CredentialsProvider from "next-auth/providers/credentials";
      > 🟬 app
                                          import bcrypt from "bcryptjs";
                                          import { client } from "@/sanity/lib/client";
      > 📙 data
       > node_modules
                                          export const { handlers, signIn, signOut, auth } = NextAuth({
       > 🧓 public
                                            providers: [
      > a sanity
                                              CredentialsProvider({
                                               name: "Credentials",
       > 📺 scripts
                                                credentials: {
       > 啸 types
                                                 email: { label: "Email", type: "text" },
password: { label: "Password", type: "password" },
        뷰 .env.local
        eslintrc.json
        .gitignore
                                                  if (!credentials?.email || !credentials?.password) {
                                                    console.error("Missing credentials");
        auth.ts
                                                    throw new Error("Invalid credentials!");
         middleware.ts
         rs next-env.d.ts
        N next.config.mjs
(8)
        package-lock.json
                                                    const query = `*[_type == "user" && email == $email][0]`;
                                                    const user = await client.fetch(query, { email: credentials.email });
     OUTLINE
```

```
auth.ts 1, U X
                                                                                                                                    € □ ...
/ FIGMADESIGN
> 📭 .next
> 💷 app
                                                    const isPasswordValid = await bcrypt.compare(
> 📑 components
                                                  credentials.password as any,
 🗦 📙 data
 > node_modules
 > 🧓 public
 > a sanity
                                                    if (!isPasswordValid) {
                                                   console.error("Invalid password");
throw new Error("Invalid credentials!");
 > 📑 types
   뷰 .env
                                                  return user; // Return the user object, including the ID
   eslintrc.json
   .gitignore
                                                  console.error("Authentication error:", error);
throw new Error("An error occurred during login");
   N next.config.mjs
  package-lock.json
                                            session: {
                                            strategy: "jwt", // Use JWT strategy for session handling
> TIMELINE
```

Dynamic Product Listings component:

• I fetched products saved in my Sanity CMS, through API endpoint /products where I fetched products using GROQ Query and then I fetched that API endpoint to the front-end to display products.

Screenshots of a API had mentioned in Day-3 Documentation:

Here they are fetched:

```
EXPLORER
                          中の日白
        FIGMADESIGN
                                             import React from 'react'
import FilterController from '../ui/FilterController'
import Product from '../ui/Product'

✓ 
☐ components

           widgets widgets
                                                 import { ProductType } from '@/types/product'
import Categories from '../ui/Cateogories'
            Dont.tsx
            Essentials.tsx

♠ Featured.tsx

    Gear.tsx

₩ Help.tsx

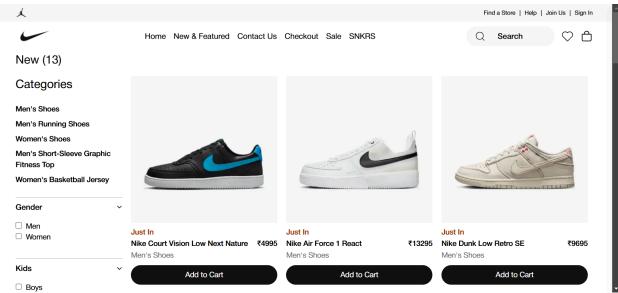
B
                                                       const res = await fetch('http://localhost:3000/api/products');
            Links.tsx

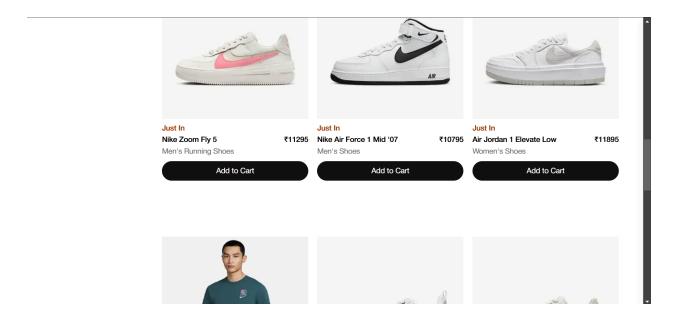
    ★ Login.tsx

                                                       const data: ProductType[] = await res.json();
Might.tsx
                                                           <div className='w-full flex flex-col gap-4 md:px-10 px-4 over'>
            Register.tsx
                                                               <div className='flex items-center w-full justify-between □text-primaryc</pre>
        🗦 🧠 data
                                                                     <div className='text-[24px] '>New ({data.length})</div>
        > node_modules
        > 🧓 public
        > 🖿 sanity
                                                                     <div className='w-[20%] md:flex hidden flex-col gap-6'>
       > 📺 scripts
                                                                        <div className='text-2xl'>Categories</div>
        > 啸 types
                                            22
                                                                            <Categories />
       OUTLINE
                                                                         </div>
      > TIMELINE
    $° main* ↔ ⊗ 2 <u>∧</u> 0 (<u>№</u> 0
                                                                                         Ln 22, Col 39 Spaces: 4 UTF-8 CRLF {} TypeScript JSX @ Go Live Q
```

Here they are used:







Dynamic Product Details Component:

• I also made product details page dynamic using dynamic API and GROQ Query and fetched them in the frontend component.

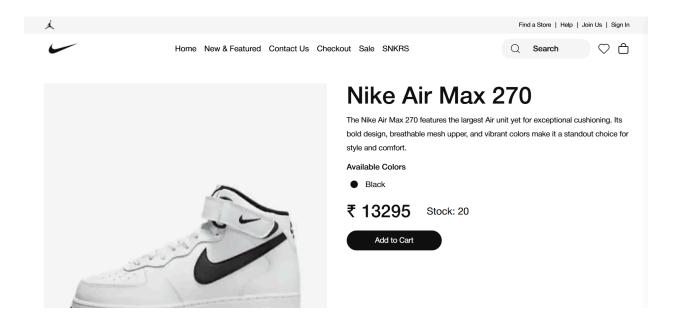
```
₱ page.tsx 1, U ×

       FIGMADESIGN
                                      1 import Detail from '@/components/ui/Detail';
                                           import { ProductType } from '@/types/product';
        > actions
                                           import React from 'react';
        > 📪 api
                                           const ProductPage = async ({ params }: { params: { productName: string } }) => {
        > 📭 cart
                                             console.log(params.productName)
        > checkout
                                               const res = await fetch(`http://localhost:3000/api/products/${params.
        contact
                                               productName}`);
         login

✓ □ products

✓ IproductName

console.error(errorData.message);
                                                   return <div>Error: {errorData.message}</div>;
         register
        > 🖿 studio
                                               const data: ProductType = await res.json();
          ★ favicon.ico
                                               console.log(data);
         3 globals.css
         🔅 layout.tsx
                                                   <div className='md:px-10 px-4 py-10 w-full'>
                                                       <Detail
                                                           title={data.productName}
      OUTLINE
                                                            description={data.description}
```



Dynamic Cart Items:

- I have made an API to put data into Sanity CMS to Order Document that I created with this provided Schema.
- Then I fetched the added cart items to cart on frontend.

```
s orders.ts U X
                                                                                                                                            <sub>ໃ</sub>ງ 🖽 ...
        FIGMADESIGN
                                         sanity > schemaTypes > 15 orders.ts > 20 ordersSchema > 25 fields
                                                 import { Rule } from "sanity";
        > 📭 .next
        > |||| app
                                                     name: 'order',
          📑 data
                                                     title: 'Order',
         node_modules
                                                     type: 'document',
         public 🖷
                                                     fields: [
         sanity
B
                                                              name: 'productName',
         > 📭 lib
                                                              title: 'Product Name',
           schemaTypes
                                                              type: 'string',
rs index.ts
            rs products.ts
                                                              name: 'userId',
                                                              type: 'string'
           τs env.ts
           structure.ts
         scripts
                                                              name: 'category',
         types types
                                                              title: 'Category',
type: 'string',
       OUTLINE
```

```
route.ts U X
                                                                                                              წე Ⅲ ...
      EXPLORER
                                FIGMADESIGN
      > 📭 .next
      🗸 📠 арр
                                      export async function POST(request: Request) {
      > actions
       V 🚎 api
                                             const {
       > 🌇 auth
                                                productName,

✓ □ order

                                                price,
                                                category,
       > products
                                                 image,
       > 🖿 signup
                                             } = await request.json();
> 📭 cart
       > checkout
                                             const addedProduct = await client.create({
                                                _type: 'order',
      > contact
      > 🖿 login
                                                 userId,
                                                productName,
      > m products
                                                 price,
      > register
                                                 category,
       > 🖿 studio
                                                 image: {
         🛨 favicon.ico
                                                    _type: 'image',
(8)
         ∃ globals.css
                                                    asset: {
                                                       _type: 'reference',
     OUTLINE
                                                       _ref: image,
     > TIMELINE
```

Server Action:

```
EXPLORER
                                    ■ addToCart.ts U X
                                                                                                                              <del>(</del>
                      中の甘む
      FIGMADESIGN
      > 📭 .next
                                            import { FieldValues } from "react-hook-form";
      ∨ 📠 арр
                                            export const addToCart = async (data: FieldValues) => {
       \vee \blacksquare actions
          addToCart.ts
                                                    const response = await fetch('/api/order', {
        > 📪 api
                                                        method: 'POST',
₫
       > 📭 cart
                                                        headers: { 'Content-Type': 'application/json' },
                                                        body: JSON.stringify(data),
        > checkout
        > contact
       > login
                                                        const errorData = await response.json();
> products
                                                        console.error('Error Response:', errorData);
        > register
                                                        throw new Error(errorData.message || 'Failed to add product to cart');
       > 🖿 studio
          ★ favicon.ico
                                                } catch (error) {
                                                    console.error('Fetch Error:', error);
         3 globals.css
         layout.tsx
         page.tsx
       > 📑 components
      > 📑 data
     OUTLINE
     > TIMELINE
```

Fetching on front-end:

