Day 3 - API Integration Report - Hekto

API Integration Process

Product Details API

Overview

The Product Details API is designed to fetch specific product information based on its slug. The fetched data is used to populate product pages on the frontend dynamically.

• Endpoint: /api/products/:product

Method: GET

• **Purpose:** Retrieve detailed information about a specific product.

Integration Steps:

- 1. **Define API Endpoint:** The API was defined in the GET method under the route /api/products/:product.
- 2. **Construct Query:** Used the GROQ query to fetch product data from Sanity CMS for the home, outdoor, and office schemas.
- 3. **API Call:** The API fetches product details such as title, price, sale price, overview, images, and tags from Sanity CMS.
- 4. Error Handling:
 - 400: Invalid or missing slug parameter.
 - 404: Product not found.
 - 500: Internal server error.

Code Snippet:

```
import { client } from "@/sanity/lib/client";
import { groq } from "next-sanity";
import { NextResponse } from "next/server";

export async function GET(req: Request, { params }: { params: { product: string } }) {
   const { product: slug } = params;

if (!slug) {
   return NextResponse.json({ error: "Invalid or missing slug parameter" }, { status: 400 });
  }

const query = groq`*[_type in ["home", "outdoor", "office"] && slug.current == $slug][0]{
```

```
title,
  price,
  salePrice,
  overview,
  images[] {
    asset->{
     _id,
     url
   },
    alt
  },
  slug,
  productDetails,
  tags,
  stock,
  subCategory
 }`;
 try {
  const product = await client.fetch(query, { slug });
  if (!product) {
   return NextResponse.json({ error: "Product not found" }, { status: 404 });
  return NextResponse.json({ product }, { status: 200 });
 } catch (error) {
  console.error("Error fetching product data:", error);
  return NextResponse.json({ error: "Failed to fetch product data" }, { status: 500 });
}
```

Blog Details API

Overview

The Blog Details API retrieves specific blog post information based on the slug provided. The data is displayed on the blog detail pages.

- Endpoint: /api/blogs/:slug
- Method: GET
- Purpose: Retrieve detailed information about a specific blog post.

Integration Steps:

- 1. **Define API Endpoint:** The API was defined in the GET method under the route /api/blogs/:slug.
- 2. **Construct Query:** Used the GROQ query to fetch blog data such as content, images, tags, and comments from Sanity CMS.
- 3. Error Handling:
 - o 404: Blog not found.
 - o 500: Internal server error.

Code Snippet:

```
import { NextResponse } from "next/server";
import { client } from "@/sanity/lib/client";
import { groq } from "next-sanity";
export async function GET(req: Request, { params }: { params: { slug: string } }) {
 const { slug } = params;
 const query = groq`*[ type == "blog" && slug.current == $slug][0]{
  slug,
  title,
  overview,
  content[] {
   _type == "image" => {
     asset-> {
     url
    },
     alt
   _type == "blockquote" => {
     quote,
     author
   }
  },
  publishingDate,
  authorName,
  "authorImage": authorImage.asset->url,
  "featuredImage": featuredImage.asset->url,
  tags,
  comments[] {
   name,
   comment,
   "pic": pic.asset->url,
```

```
postedAt
}
};;

try {
  const blog = await client.fetch(query, { slug });

  if (!blog) {
    return NextResponse.json({ error: "Blog not found." }, { status: 404 });
  }

  return NextResponse.json(blog);
} catch (error) {
  console.error("Error fetching blog:", error);
  return NextResponse.json({ error: "Failed to fetch blog." }, { status: 500 });
}
}
```

Adjustments Made to Schemas

- Added Slug Field: To ensure unique identification of products and blogs.
- **Enhanced Product Schema:** Included fields for salePrice, tags, and subCategory for better categorization and promotional offers.
- **Enhanced Blog Schema:** Added comments and content fields to store detailed information, including rich text and images.

Migration Steps and Tools Used

- Migration Tool: Used Sanity CLI for exporting and importing data during schema updates.
- 2. Steps:
 - Exported existing data using the sanity dataset export command.
 - Modified schemas in the schemas folder.
 - Reimported updated data using the sanity dataset import command.
- 3. **Testing:** Verified the APIs against both existing and updated schema data.

Screenshots

1. API Calls: (Attach screenshots of Postman or browser console showing API responses.)

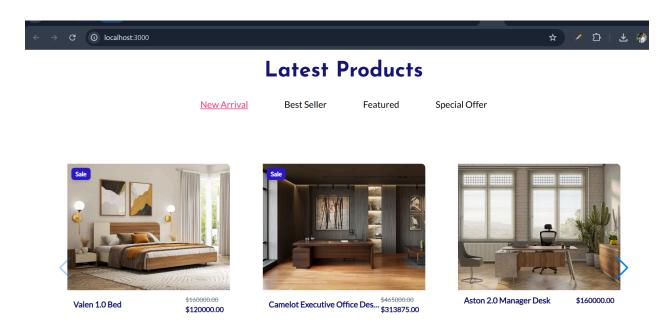
Api Call for blogs:

API call for Products(Selected products):

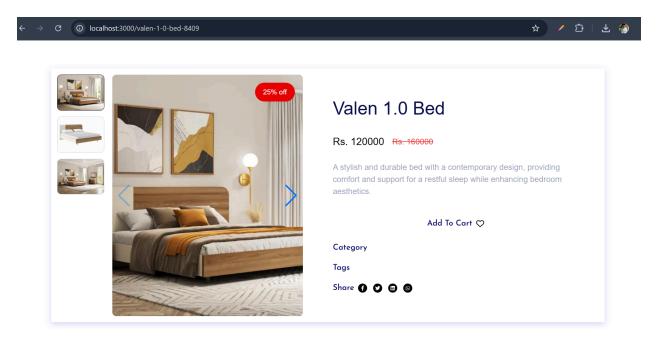
```
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```

2. **Frontend Display:** (Attach screenshots showing product and blog data displayed on the frontend.)

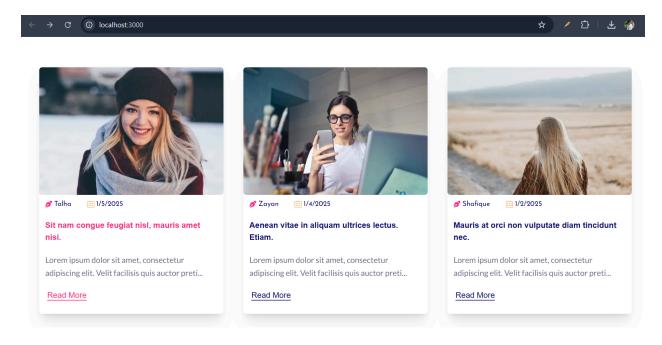
Products on the Website:



Product detail on website:



Blogs on the Website:



3. **Sanity CMS Fields:** (Attach screenshots of populated Sanity CMS fields, such as title, overview, and tags.)

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```

Schema for home:

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V □ app

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→ api
→ featured
→ in latest
in routets
→ in special
→ in lolog
→ in (slug)
→ page.tsx
→ in fonts
→ in studio
ç
G
         > studio
                                            }),
defineField({
  name: "overview",
  title: "Product Overview",
  type: "string",
        > lib

> anity

| lib
                                           type.
)),
defineField({
    name: "productDetails",
    title: "Product Details",
    type: "array",
    of: [{ type: "block" }],
            home.ts
            office.ts
outdoor.ts
                                             name: "images",
title: "Images",
type: "array",
```