Hackathon Day 3

API INTEGRATION AND DATA MIGRATION REPORT

This Document contains the Setup and Implementation of a Sanity Schema , a Migration Script for transferring data to another Sanity Account , and Overall Project Setup Details .

1 . Installation of Next.js Project

Command: npx create-next-app@14.2.20

2 . Sanity

- Create a New Project of Sanity In Sanity dashboard .
- Then run the Project installation command in Next.js Project .

3 . Sanity Schema

- After the installation navigate to schema Types folder.

  /src/sanity/schemaTypes

- Create a New File and the following Code . **File Name:** product.ts

```
export default {
  name: 'product',
  title: 'Product',
  type: 'document',
  fields: [
    {
      name: 'id',
      title: 'ID',
      type: 'string'
    },
    {
      name: 'name',
      title: 'Name',
      type: 'string'
    },
    {
      name: 'image',
      title: 'Image',
      type: 'image'
    },
    {
      name: 'imagePath',
      title: 'Image Path',
      type: 'url'
    },
    {
      name: 'price',
      title: 'Price',
      type: 'number'
    },
    {
      name: 'description',
      title: 'Description',
      type: 'text'
    },
    {
      name: 'discountPercentage',
      title: 'Discount Percentage',
      type: 'number'
    },
    {
      name: 'isFeaturedProduct',
      title: 'Is Featured Product',
      type: 'boolean'
    },
    {
      name: 'stockLevel',
      title: 'Stock Level',
      type: 'number'
    },
    {
      name: 'category',
      title: 'Category',
      type: 'string'
    },
  ],
};
```

4 . Environment Variables

- Create .env file and add the following variables .

```
NEXT_PUBLIC_SANITY_PROJECT_ID="o21vn94w"
NEXT_PUBLIC_SANITY_DATASET="production"
SANITY_API_TOKEN=
"skDhXZaGazL3YaHiYrD4Goa0o3SFaVP7q8uaAGBXdXYak
bLz0nvsImtb6JTqWuSmoVRN7rEzrrYs5S7fi5tpGhIIoOj
nsqacuFX73jZ6EVBbe3Oy9SUmxOin3lB0ldco9cMUPqLFe
JaiaazlA3RVamHsWJ3Quh1AnDzpFHpupFRN1GN83BKr"
```

5 . Data Migration Script

- Create a Folder Scripts .
- Then make a file in the folder naming migrate.mjs and create the following Code .

```js
import path from 'path';
// Load environment variables from .env.loca
const __filename = fileURLToPath(import.met.url);
const __dirname = pat.dirname(__filenama);
dotenv.config({ path : pat.resolv(__dirnam , '../.env.loca ) });
// Create Sanity clien
const clien = createClien ({
  projectI : proces.env.NEXT_PUBLIC_SANITY_PROJECT_I ,
  datase : proces.env.NEXT_PUBLIC_SANITY_DATASE ,
  useCd : fals ,
  toke : proces.env.SANITY_API_TOKE ,
  apiVersio : '2021-08-3 ,
});

async functio uploadImageToSanit (imageUr ) {
  try {
    consol.log(`Uploading image: ${imageUr }`);
    const respons = awai axio.get(imageUr , { responseTyp : 'arraybuffe });
    const buffe = Buffe.fro (responi.dat );
    const asse = awai clien.asset.upaoa ('imag , buffe , {
      filenam : imageUr tspli ($/').pop(),
    });
    consol.log(`Image uploaded successfully: ${asse._id}`);
    retur asse._id;
  } catc (erro ) {
    consol.erro (`Failed to upload imag  , imageUr , erro.messag );
    retur null ; e:`
  }
}

async functio importDat () {
  try {
    consol.log('Migrating data, please wai   );
    // Fetch products from the AP
    const respons = awai axio.get('https://template-0-beta.vercel.app/api/produc );
    const product = respons.dat ;
    consol.log('Products fetche  , product );
    for (cons produc of product ) {
      let imageRe = nul ;
      if (produc.imagePat ) {
        imageRe = awai uploadImageToSanit (produc.imagePat );
      }

      const sanityProduc = {
        _typt: 'produc  ,
        _id: produc.id,
        nam : produc.nam ,
        categor : produc.categor ,
        descriptio: produc.descriptio ,
        discountPercentag : produc.discountPercentag ,
        isFeaturedProduc : produc.isFeaturedProduc ,
        stockLeve : produc tstockLeve ,
        pric : parseFloa (produc.pric ),
        imag : imageRe
          ? {
              _typ : 'imag  ,
              asse : {
                _typ : 'referenc  ,
                ere : imageRe ,
              }
            }
          : undefine ,
        imagePat : produc.imagePat , // Store original image UR
      };
      awai clien.creat (sanityProduc );
      consol.log(`Product created in Sanity: ${sanityProduc.id}`);
    }
    consol.log('Data migrated successfull  );
  } catc (erro ){
    consol.erro ('Error in migrating dat  , erro.messag );
  }
}

importDat ();
```

6 . Install the following packages before running the code

npm install @sanity/client

npm install axios

npm install dotenv

7 . Now run command npm run migrate

- In terminal Success Message shown at the End .

8 . Sanity Studio

- Open the sanity studio by the following url .

  http://localhost:3000/studio

- The data following data will be shown in sanity studio from API.

S Default + Create Q

Structure Vision Schedules

Tasks B

Content

Product

Product + ···

Q Search list

Luxury Flower Bed

Blue Bed

Red Bed
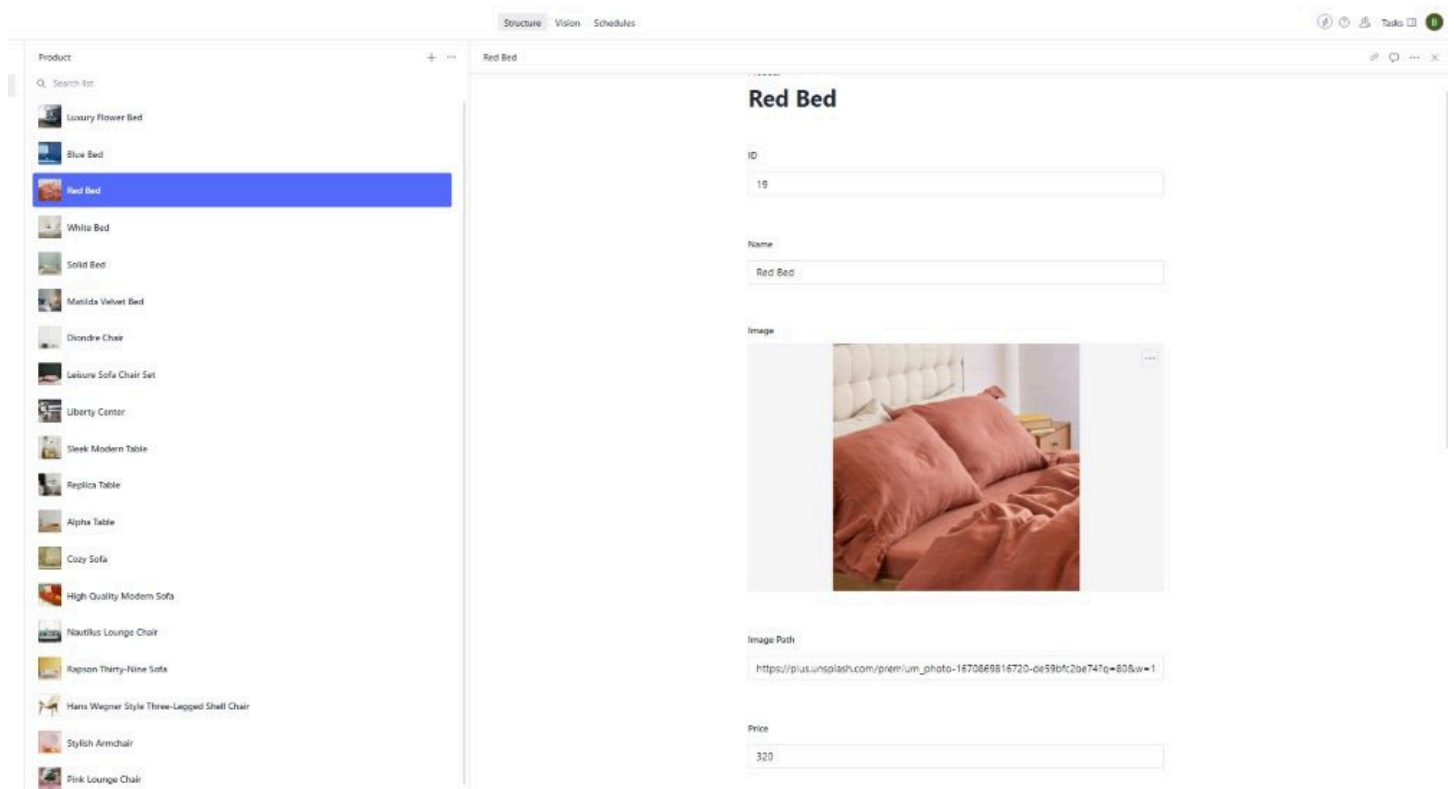
White Bed

Solid Bed

Matilda Velvet Bed

Diondre Chair

Leisure Sofa Chair Set

Liberty Center

What's new
Sanity Create Content Mapping, Visual Editing,
and Content Releases

Sleek Modern Table

ENDED

Benish Saleem………