

API Integration Report – Furniro-Chair

Overview

This report outlines the API integration strategy and flow of data for the Pak-Chair e-commerce website. The website leverages a combination of built-in APIs, third-party APIs, and a headless CMS (Sanity) to manage product data, user authentication, payment processing, and contact form submissions.

1. Product Data Integration

- **Source:** Built-in API migrated from Alijawad001.
 - **Data Flow:**
 - Product details such as images, prices, descriptions, and other metadata are fetched from the built-in API.
 - The API serves as the primary source of truth for all product-related information displayed on the website.
 - **Usage:**
 - Product listings, product detail pages, and search functionality rely on this API.
 - **Benefits:**
 - Centralized management of product data.
 - Easy migration and integration with the existing e-commerce platform.
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2. Contact Form Data Management

- **Tool:** Sanity (Headless CMS).
 - **Data Flow:**
 - Contact form submissions (e.g., user inquiries, feedback) are saved directly into Sanity.
 - Sanity acts as a backend database for storing and managing user-generated content.
 - **Usage:**
 - Contact form data is accessible via Sanity's dashboard for administrative purposes.
 - **Benefits:**
 - Structured and scalable storage for user submissions.
 - Easy retrieval and management of contact data.
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3. User Authentication and Authorization

- **Tool:** Clerk (Third-Party API).
 - **Data Flow:**
 - Clerk handles user sign-in, sign-up, and session management.
 - It provides authentication and authorization services, ensuring secure access to user accounts.
 - **Usage:**
 - User login and registration flows.
 - Role-based access control (if applicable).
 - **Benefits:**
 - Simplified implementation of secure authentication.
 - Built-in features for password management, social logins, and multi-factor authentication.
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4. Checkout Process

- **Tool:** Third-Party API (Unspecified).
 - **Data Flow:**
 - The checkout process is managed by a third-party API, which handles order validation, pricing calculations, and inventory checks.
 - **Usage:**
 - Ensures a seamless and secure checkout experience for users.
 - **Benefits:**
 - Reduces development overhead by leveraging an existing solution.
 - Provides a reliable and tested checkout flow.
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5. Payment Gateway Integration

- **Tool:** Stripe (Third-Party API).
 - **Data Flow:**
 - Stripe processes payments for orders placed on the website.
 - It handles payment authorization, transaction processing, and refunds.
 - **Usage:**
 - Integrated into the checkout flow to accept payments via credit/debit cards and other supported methods.
 - **Benefits:**
 - Secure and compliant payment processing.
 - Supports multiple payment methods and currencies.
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Summary of Tools and APIs Used

Functionality	Tool/API Used	Purpose
Product Data	Built-in API (Alijawad001)	Fetch product details (images, prices, etc.).
Contact Form Data	Sanity	Store and manage user submissions.
User Authentication	Clerk	Handle sign-in, sign-up, and authorization.
Checkout Process	Third-Party API	Manage order validation and checkout flow.
Payment Gateway	Stripe	Process payments securely.

Key Benefits of the Integration

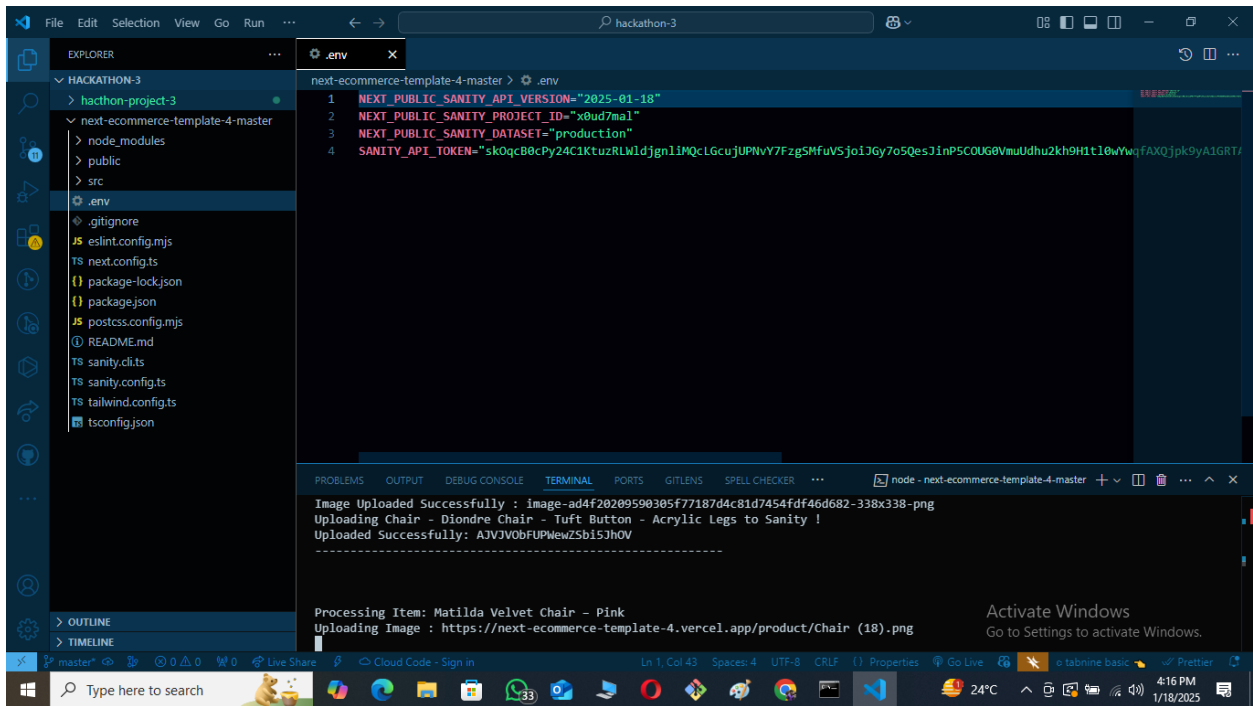
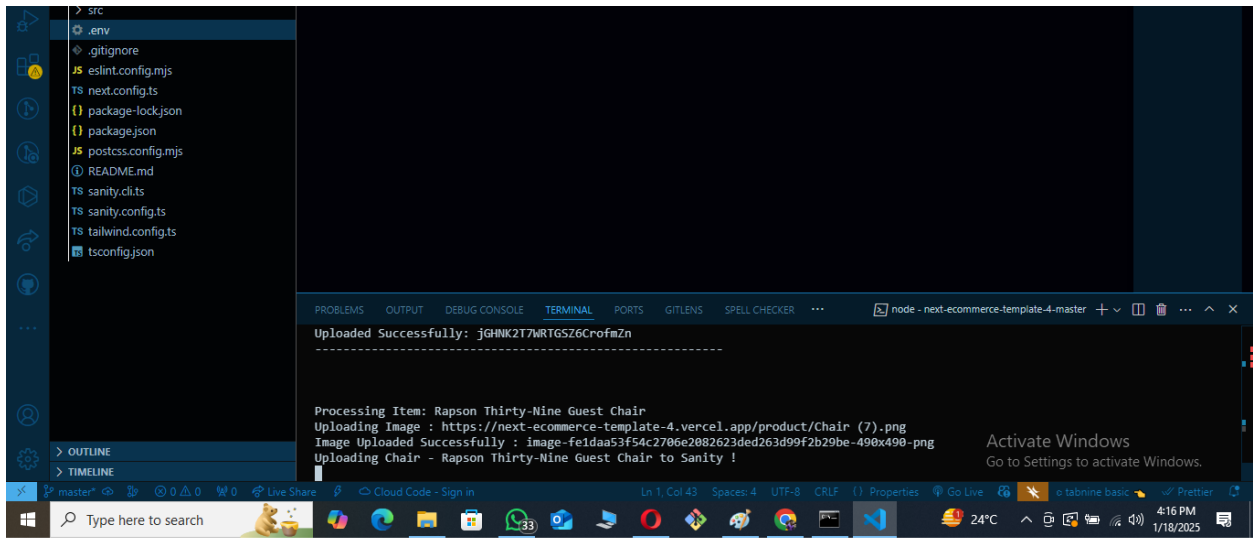
1. **Scalability:** The use of third-party APIs and a headless CMS ensures the website can scale efficiently as the business grows.
2. **Security:** Tools like Clerk and Stripe provide robust security features for user authentication and payment processing.
3. **Efficiency:** Leveraging existing APIs reduces development time and ensures reliability.
4. **Centralized Management:** Sanity provides a single source of truth for contact form data, making it easy to manage and retrieve.

Recommendations

1. **API Monitoring:** Implement monitoring for all integrated APIs to ensure uptime and performance.
2. **Data Backup:** Regularly back up data stored in Sanity to prevent data loss.
3. **User Experience Testing:** Conduct thorough testing of the checkout and payment processes to ensure a smooth user experience.
4. **Documentation:** Maintain detailed documentation of all API integrations for future reference and troubleshooting.

This integration strategy ensures a seamless, secure, and scalable e-commerce experience for users.

SCREENSHORT:



File

Edit

Selection

View

Go

Run

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hackathon-3

hackathon-3

EXPLORER

HACKATHON-3

hackathon-project-3

next-e-commerce-template-4-master

node_modules

public

src

.env

.gitignore

eslint.config.mjs

next.config.ts

package-lock.json

package.json

postcss.config.mjs

README.md

sanity.cli.ts

sanity.config.ts

tailwind.config.ts

tsconfig.json

next-e-commerce-template-4-master > .env

1 NEXT_PUBLIC_SANITY_API_VERSION="2025-01-18"

2 NEXT_PUBLIC_SANITY_PROJECT_ID="x0ud7ma1"

3 NEXT_PUBLIC_SANITY_DATASET="production"

4 SANITY_API_TOKEN="sk0qcB0cPy24C1KtuzRLWdJgn1lMQcLGcuJUPNvY7FzgSMfuVSjo1JGy7o5QesJinP5COUG0VmuUdhu2kh9H1t10wYwqfAXQjpk9yA1GRT/

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

GIT LENS

SPELL CHECKER

node - next-e-commerce-template-4-master

PS D:\Desktop_material\Governor_Onsite_class\Onsite_Class\QTR_02\Projects\hackathon-3\next-e-commerce-template-4-master> npm run imp

ort-data

> sanity-nextjs@0.1.0 import-data

> node src/scripts/import-data.mjs

Fetching Product Data From API ...

Processing Item: Tribù Elio Chair

Uploading Image : https://next-e-commerce-template-4.vercel.app/product/Chair (5).png

Image Uploaded Successfully : image-9967004db2d5e1235db7525ed72aaa32bc4f95a7-720x522-png

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Prettier

sanity.io/manage/personal/project/x0ud7ma1/api

30 days left in trial

Rv Waqas

Hackathon_03

Getting started

Overview

Members

Studios

Datasets

Access

Activity

Usage

Plan

API

Settings

Webhooks

CORS origins

Tokens

Hosts that can connect to the project API.

ORIGIN	CREDENTIALS	CREATED
http://localhost:3000	Allowed	4 hours

Tokens

+ Add API token

Tokens are used to authenticate apps and scripts to access project data.

NAME	PERMISSIONS	CREATED
Test_01	Developer	3 hours

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1/18/2025

File Edit Selection View Go Run ...

hackathon-3

EXPLORER

hackathon-project-3

hackathon-project-3

src

sanity

lib

schemaTypes

env.ts

products.ts

structure.ts

env.local

eslintrc.json

gitignore

next-env.d.ts

next.config.mjs

package-lock.json

package.json

postcss.config.mjs

README.md

sanity.cli.ts

sanity.config.ts

tailwind.config.ts

tsconfig.json

next-e-commerce-template-4-master

node_modules

OUTLINE

TIMELINE

src > sanity > TS products.ts > default > fields

1 export default {
5 fields: [
20],
21 },
22 },
23 name: 'price',
24 type: 'string',
25 title: 'Price',
26 validation: (Rule: any) => Rule.required().error('Price is required'),
27 },
28 name: 'description',
29 type: 'text',
30 title: 'Description',
31 validation: (Rule: any) =>
32 Rule.max(150).warning('Keep the description under 150 characters.'),
33 },
34 },
35 name: 'discountPercentage',
36 type: 'number',
37 title: 'Discount Percentage',
38 validation: (Rule: any) =>
39 Rule.min(0).max(100).warning('Discount must be between 0 and 100'),
40 },
41],
42 },
43 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS SPELL CHECKER COMMENTS

node - hackathon-project-3

Compiled in 4.7s (4560 modules)
Reload env: .env.local
Reload env: .env.local
Reload env: .env.local
Compiled in 9.7s (4560 modules)
GET /studio/structure 200 in 7415ms
o Compiling /favicon.ico ...
Compiled /favicon.ico in 7.7s (2447 modules)
GET /favicon.ico 200 in 8070ms

Activate Windows
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sanity.io/manage/personal/project/p6xa7tg5/api

30 days left in trial

Getting started Overview Members Studios Datasets Access Activity Usage Plan API Settings

http://localhost:3333 Allowed 4 hours

Webhooks

CORS origins

Tokens

Tokens

tokens are used to authenticate apps and scripts to access project data.

Name

Examples: "Employee import", "Website preview" or "PDF generator".

testing

Permissions

Choose the access privileges for the token.

Contributor

☐ Read and write access to draft content within all datasets, with no access to project settings. (Tokens: read+write drafts)

☐ Deploy Studio (Token only)

☐ Access to deploy Sanity Studio and GraphQL APIs to our hosted service.

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Sanity Studio interface showing a webhooks configuration page. The page displays a table with columns: NAME, PERMISSIONS, and CREATED. A token has been generated and is displayed in a yellow box. The token is: `sk2p4ci2N008zjbLJP1TDRBR3onwdoNpQ74vk0jUpuMPo7F5rm1mXly6qrjDeHXCl4e1UePKsKeSwwgvjh1KiiYbJJNTgjYQmbEx5ilrY2nAvpVBTuWkoEyBWs7v5gguDQbn9v95uG1aP4kqpMEhRwCFmM5UR8u7B415hJj3pqRm29CK`. The interface also shows the Sanity logo, a status bar indicating "ALL SYSTEMS OPERATIONAL", and a footer with copyright information.

Webhooks

NAME	PERMISSIONS	CREATED
testing	Developer	just now

Copy the token below - this is your only chance to do so!

```
sk2p4ci2N008zjbLJP1TDRBR3onwdoNpQ74vk0jUpuMPo7F5rm1mXly6qrjDeHXCl4e1UePKsKeSwwgvjh1KiiYbJJNTgjYQmbEx5ilrY2nAvpVBTuWkoEyBWs7v5gguDQbn9v95uG1aP4kqpMEhRwCFmM5UR8u7B415hJj3pqRm29CK
```

SANITY ALL SYSTEMS OPERATIONAL

Copyright © 2025 Sanity AS. All rights reserved.

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Go to Settings to activate Windows.

Token created

hackathon-3

```
const Home = async () => {
  const query = `*[_type=='product']{
    stockLevel,price,discountPercentage,
    "image":image.asset->url
  }`

  const data=await client.fetch(query)
  console.log(data)

  return(
    <div>
      {
        data.map((ele:any)=>{
          return(
            <div key={ele._id}>
              <h1>{ele.name}</h1>
            </div>
          )
        })
      }
    </div>
  )
}
```

description: 'A modern cantilever chair with a unique floating effect.',
stockLevel: 5,
price: '780',
discountPercentage: 15,
image: 'https://cdn.sanity.io/images/p6xa7tg5/production/90a8d692777c7c2b80c7e49916bdce829702c35d-342x342.png',
_id: 'xaIbDd12g3ehznCa7ccety'

GET / 200 in 2260ms

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