Best Furniture For Your Castle...

New Furniture Collection Trends in 2025

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Magna in est adipiscing in phasellus non in justo.

Shop Now

Day 3 - API Integration Report

- FurniNest

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Marketplace Technical Foundation - FurniNest

FurniNest is a dynamic e-commerce marketplace specializing in furniture sales. It provides a seamless platform for customers to explore and purchase furniture while integrating essential technologies for secure transactions, efficient product management, and user authentication.

API Integration Process

The integration of various APIs within FurniNest ensures a smooth and efficient user experience. Below are the key APIs implemented:

1. **Sanity API**
   o Used for managing and structuring product data.
   o Integrated using Sanity's client library to fetch, update, and manage content dynamically.
2. **Stripe API**
   o Facilitates secure payment processing.
   o Implemented Stripe Checkout for handling transactions and webhook listeners for payment confirmations.
3. **Clerk API**
   o Manages user authentication and authorization.
   o Integrated for user sign-in, sign-up, and session management.

Adjustments Made to Schemas

To align with the marketplace requirements, the following adjustments were made to schemas:

- **Product Schema (Sanity CMS)**
  o Added fields for price, category, stock availability, and images.
  o Implemented a reference field for related products.
- **User Schema (Clerk Authentication)**
  o Extended user profiles to include order history and saved items.
  o Added roles for admin and customer access control.
- **Order Schema (Stripe Integration)**
  o Captures transaction details, payment status, and shipping information.
  o Includes webhook handling for order status updates.

Migration Steps and Tools Used

Data Migration Process

1. **Exporting Existing Data**
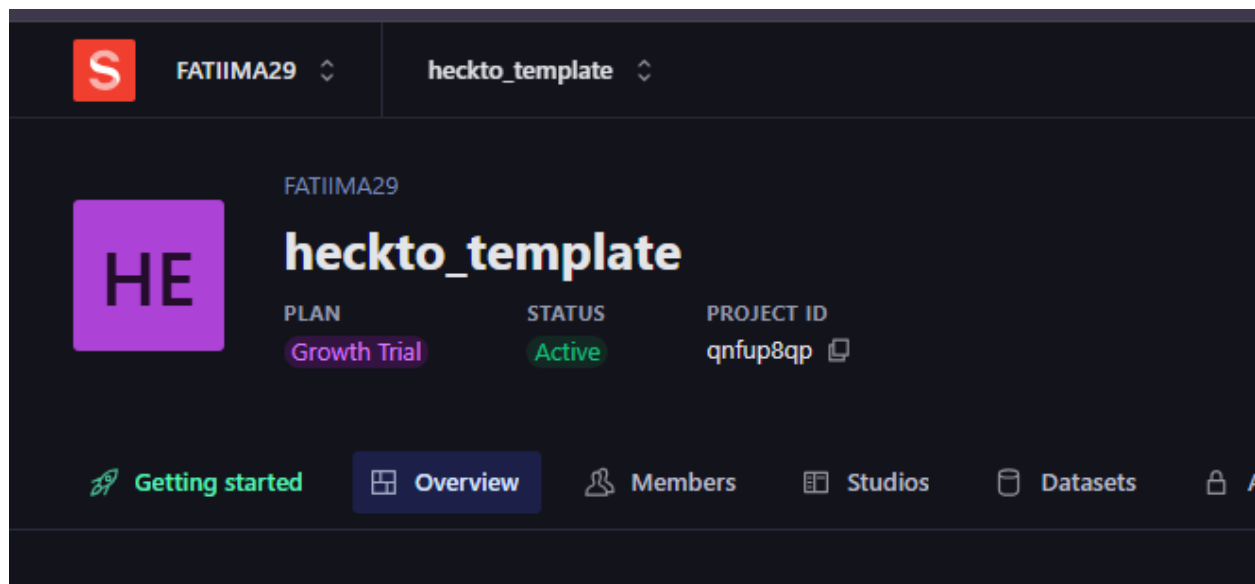   o Retrieved structured data from an existing database (if applicable).

   o Used Sanity's CLI tool for exporting and backing up content.
2. **Transforming Data**
   o Formatted the exported data to match the new schema structure.
   o Used scripts in Next.js to map and migrate old data into the updated format.
3. **Importing Data**
   o Used Sanity's import functionality to load product listings into the new system.
   o Validated successful imports through Sanity Studio.
4. **Testing and Validation**
   o Ensured API requests return expected results.
   o Verified data consistency across product pages, shopping carts, and order history.

Tools Used

- **Sanity CLI** – For exporting and importing structured content.
- **Postman** – For API testing and validation.
- **Next.js Scripts** – For data transformation and migration automation.

This report provides an overview of the API integrations, schema adjustments, and migration process to ensure FurniNest operates smoothly and efficiently.

SCREENSHOTS OF THE PROCESS

http://localhost:3001	Allowed	1 week	🗑
http://localhost:3000	Allowed	2 weeks	🗑
http://localhost:3333	Allowed	2 weeks	🗑

Tokens

[+ Add API token]

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

NAME	PERMISSIONS	CREATED	
heckto_token	Developer	2 weeks	🗑

`nt-success`   page.tsx …\payment   route.ts   .env.local ✕   page.tsx …\ProductDetail   package.json   page.tsx …\checkoutpage

```
$ .env.local
 1   # Sanity keys
 2   NEXT_PUBLIC_SANITY_PROJECT_ID="qnfup8qp"
 3   NEXT_PUBLIC_SANITY_DATASET="production"
 4   SANITY_API_TOKEN=sk19evUZblKvrblw6fmnrogfsYBGWM817Xk8JSofztz4LemvfRdEecPZKPYCbTUmnSQ1uE3ghOeNRqZT4av8TC2nWSaQe0UbSNTuWMV
 5
 6   # Clerk keys
 7   NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY=pk_test_bmVhcmJ5LWJlYXItMzAuY2xlcmsuYWNjb3VudHMuZGV2JA
 8   CLERK_SECRET_KEY=sk_test_jFMScxkxPtWSrmQdT7bV84PF97s3qjgVytJX5lQecd
 9
10   # Stripe keys
11   NEXT_PUBLIC_STRIPE_PUBLISHABLE_KEY=pk_test_51QmJ6BGv06VUmnFc5ugT2OQcsjZCbm1S2wPRZfA4zJu0DeOoB7EoKkmf233LBYEOMTwiJwgZ1Noz
12   STRIPE_SECRET_KEY=sk_test_51QmJ6BGv06VUmnFclEXNr3xhhrXhclJ5rINe8lWZOjx98Z0kDh4YzvAtGjGiV8gnY4EbyVOdYEtQPcdnKeB5vD6t00BEI
```

Featured Products

Cozy Cloud
$899   -5%
[Add To Cart]

Space Saver
$799   -4%
[Add To Cart]

Leisure Armchair
$780
[Add To Cart]

User & Authentication

- Email, phone, username
- SSO connections
- OAuth applications
- Web3
- Multi-factor
- Restrictions
- Attack protection
- Native apps

Session management

- Sessions
- JWT templates

furniNest

| Application ID | app_2sRzthu2p0n... | Copy |
| Instance ID | ins_2sRzto5Rd3J... | Copy |

⇄ Transfer ownership

🗑 Delete application

Created on February 1, 2025

Application settings

Configure core application settings.

Application name

Customize the name of your application. Used in the dashboard and with Cler components.

| furniNest |

Support email

The email displayed on Clerk components used for your application support channels.

| Enter a support email |

✉ FurniNest@example.com   📞 (12345)67890   Welcome Back **Fatima Akif**

Fatima Akif
fatimaahaamughal@gmail.com

⚙ Manage account

⊖ Sign out

Secured by 🔒 clerk

Development mode

...t Furniture For You...

New Fur...

Configure your application

Deploy your Clerk
application to production

Explore Clerk
UI components

Secure your
application's backend

Total users	Active users	Sign-ups	Sign-ins
All time	February 2025	February 2025	February 2025
2	2	2	5

Recent sign-ups

Recent sign-ins

Explore all products

For developers   ⓘ Test mode

Publishable key   pk_test_51QmJ6B...

Secret key   sk_test_51QmJ6B...

View docs →

Transactions

+ Create payment   📊 Analyse

📍 Recommendation   Stripe Billing makes it easier and faster for customers to automatically pay you on a recurring basis.   Start now   ✕

All	Succeeded	Refunded	Disputed	Failed	Uncaptured	
59	18	0	0	0	0	›

⊕ Date and time   ⊕ Amount   ⊕ Currency   ⊕ Status   ⊕ Payment method   ⊕ More filters   ⬆ Export   ⚙ Edit columns

	Amount		Payment method	Description	Customer	Date	Refunded date	Decline reason	
☐	US$55.35	USD	Incomplete ⏱	—	pi_3Qpz0EGv06VUmnFc1de0xkQU		7 Feb, 13:22	—	—	⋯
☐	US$55.35	USD	Succeeded ✓	VISA •••• 4242	pi_3Qpu6FGv06VUmnFc0a43OIy9		7 Feb, 08:08	—	—	⋯
☐	US$47.85	USD	Succeeded ✓	VISA •••• 4242	pi_3QptjrGv06VUmnFc0Bht2azv		7 Feb, 07:45	—	—	⋯
☐	US$47.85	USD	Incomplete ⏱	—	pi_3QptjSGv06VUmnFc0DqxUZQX		7 Feb, 07:44	—	—	⋯
☐	US$47.85	USD	Succeeded ✓	VISA •••• 4242	pi_3QptbkGv06VUmnFc1GLeXMXM		7 Feb, 07:37	—	—	⋯
☐	US$47.85	USD	Incomplete ⏱	—	pi_3QptZdGv06VUmnFc03TbbGob		7 Feb, 07:34	—	—	⋯