API Driven Drupal Commerce

eCommerce for all of your channels

Matt Glaman

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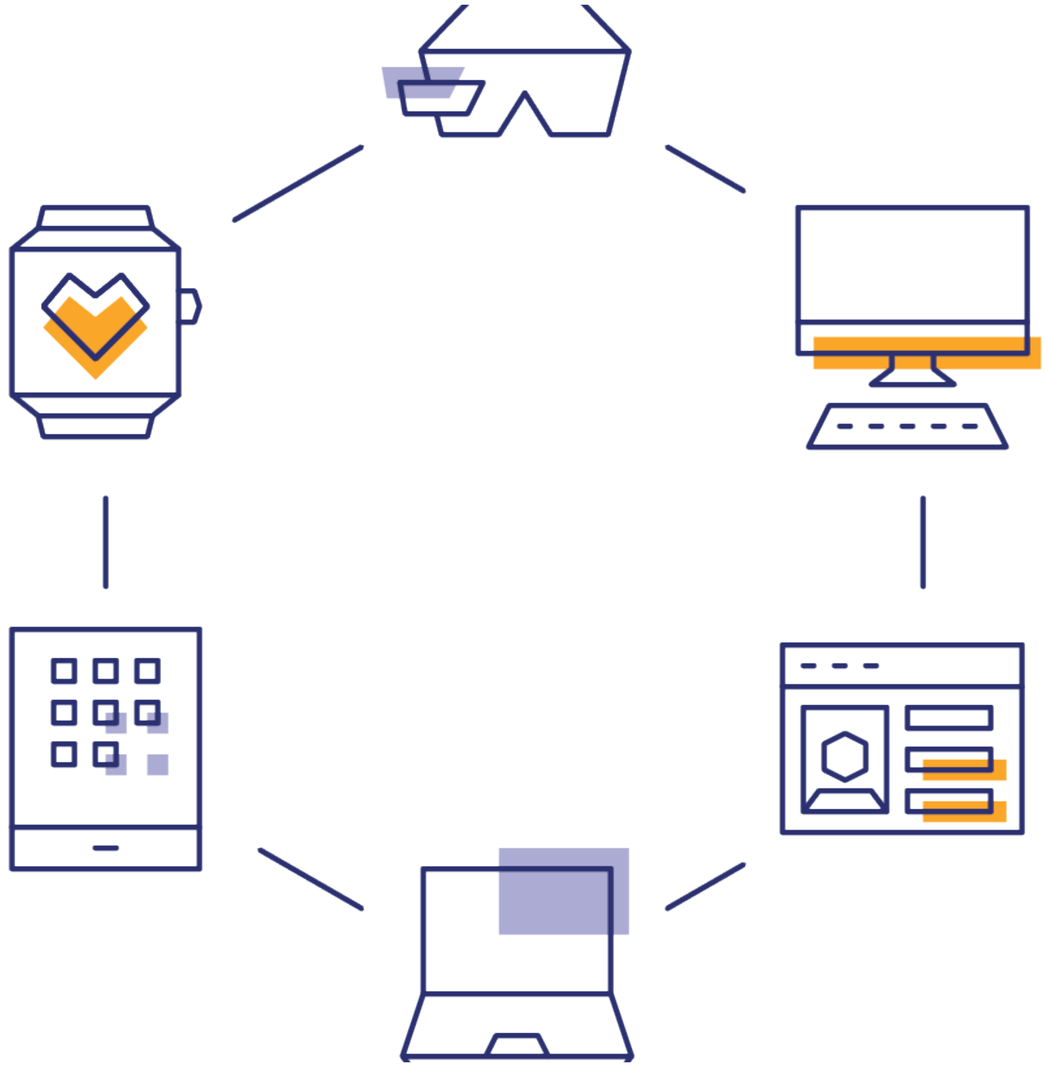
Product Lead @ Centarro

Centarro powers eCommerce innovation through every stage of growth.

The digital world is changing

Centarro is adapting Drupal Commerce to those changes, just like Drupal.



How is Centarro Commerce impacting the growth of Drupal Commerce development?

Centarro Commerce

Commerce with confidence on Drupal.

- Centarro Commerce is "Open SaaS," pairing the benefits of open source collaboration with the stability, security, and scalability of SaaS.
- A headless eCommerce platform powered by Drupal and the Commerce framework.
- API capabilities thanks to the JSON:API module 🙌.
- Sustainable product and open source development.

The impact of Centarro Commerce

JSON:API Cross Bundles

Allow fetching all content for any entity type

- A blocker of the Admin UI initiative
- Allows accessing entities over JSON:API without specifying a bundle
- This allows fetching all types of products (clothing, books) from one endpoint

https://www.centarro.io/blog/supporting-cross-bundle-entity-collections-jsonapi

JSON:API Resources

Builds an initial “PHP API” for JSON:API

- The JSON:API module has no PHP API for extending the implementation
- JSON:API has no way to define custom resources.
- Allows creating custom resources!
- It’s a beginning to a PHP API for extending the JSON:API implementation

JSON:API Search API

Exposes Search API indexes over JSON:API

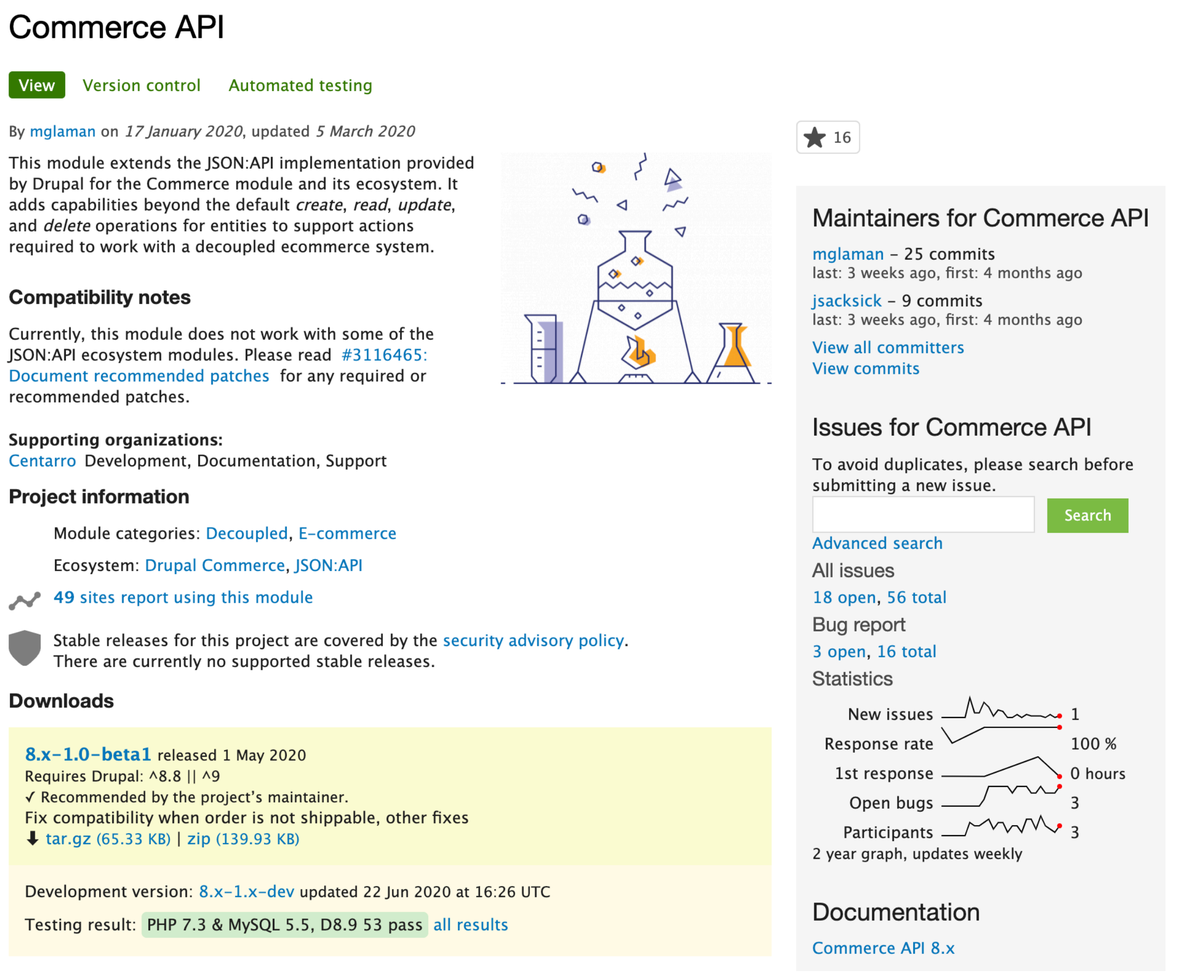
- Search API is integral for a Commerce catalog
- JSON:API Search API allows querying search indexes

https://www.centarro.io/blog/querying-drupal-search-api-indexes-using-jsonapi

Commerce API

Extending JSON:API for Commerce

- JSON:API in Drupal is great 🥳
- Improves API-First capabilities of Drupal Commerce
- Our incubator for improving JSON:API in Drupal core
- Helps improve core functionality in Drupal Commerce
- Replaces Commerce Cart API



Commerce API

View | Version control | Automated testing

By mglaman on *17 January 2020*, updated *5 March 2020*

This module extends the JSON:API implementation provided by Drupal for the Commerce module and its ecosystem. It adds capabilities beyond the default *create*, *read*, *update*, and *delete* operations for entities to support actions required to work with a decoupled ecommerce system.

Compatibility notes

Currently, this module does not work with some of the JSON:API ecosystem modules. Please read #3116465: Document recommended patches for any required or recommended patches.

Supporting organizations:
Centarro Development, Documentation, Support

Project information

Module categories: Decoupled, E-commerce

Ecosystem: Drupal Commerce, JSON:API

49 sites report using this module

Stable releases for this project are covered by the security advisory policy.
There are currently no supported stable releases.

Downloads

8.x-1.0-beta1 released 1 May 2020
Requires Drupal: ^8.8 || ^9
✓ Recommended by the project's maintainer.
Fix compatibility when order is not shippable, other fixes
⬇ tar.gz (65.33 KB) | zip (139.93 KB)

Development version: 8.x-1.x-dev updated 22 Jun 2020 at 16:26 UTC

Testing result: PHP 7.3 & MySQL 5.5, D8.9 53 pass all results

★ 16

Maintainers for Commerce API

mglaman – 25 commits
last: 3 weeks ago, first: 4 months ago

jsacksick – 9 commits
last: 3 weeks ago, first: 4 months ago

View all committers
View commits

Issues for Commerce API

To avoid duplicates, please search before submitting a new issue.

Search

Advanced search

All issues

18 open, 56 total

Bug report

3 open, 16 total

Statistics

New issues 1
Response rate 100 %
1st response 0 hours
Open bugs 3
Participants 3

2 year graph, updates weekly

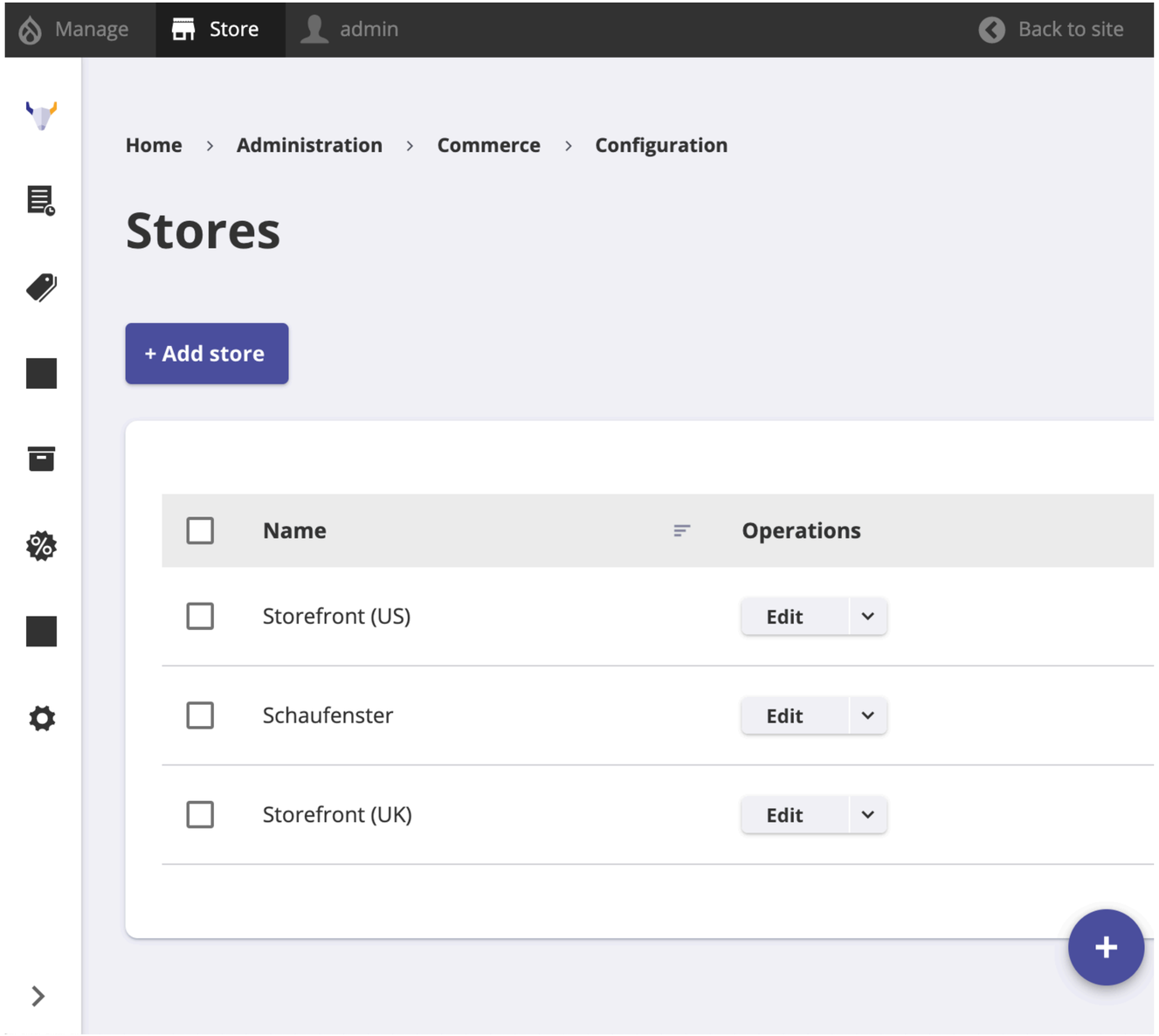
Documentation

Commerce API 8.x

API Driven Drupal Commerce features

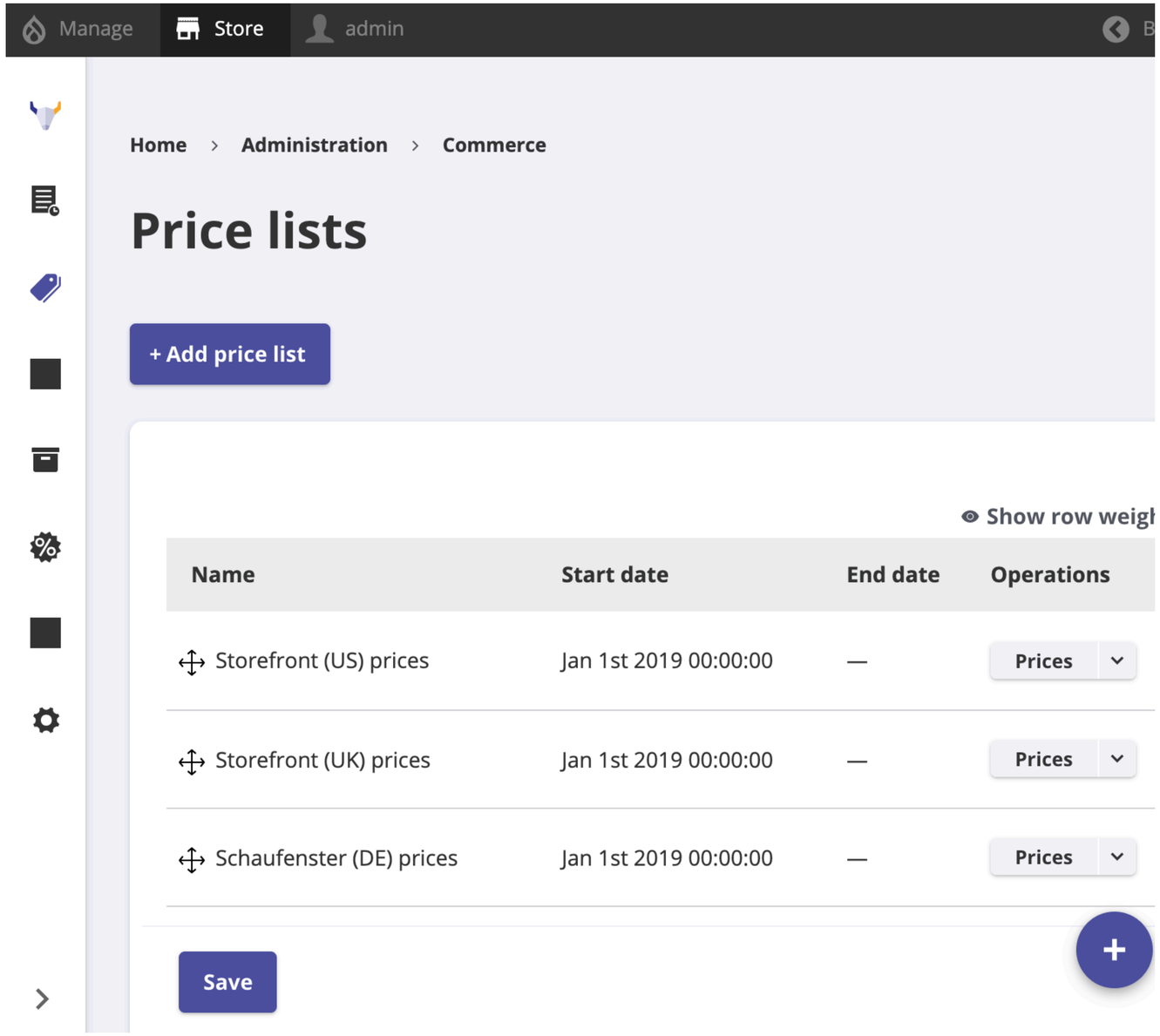
Multitenancy

Leverage the multiple store capabilities of Drupal Commerce over the API for product availability, dynamic pricing, and more.



Dynamic pricing

Display dynamic pricing based on the current store, authenticated user, promotions, or price lists



Storefront (US)

BEOGRAD

APOTHECARY AUDIO & FILM MEN PRINT SHOP URBAN LIVING

Pronto600 Instant Camer

$99.99

Polaroid-Pronot600

Polaroid

Tofu distillery poke chicharrones, poutine austin shabby chic cr
XOXO. Swag seitan VHS af cray, health goth retro activated char
flannel tote bag squid heirloom. Kitsch yuccie la croix microdos
bespoke retro hexagon small batch distillery photo booth lomo
Fingerstache vice banh mi mumblecore master cleanse cornhc

Add to cart

Audio & Film | Electronics | Film Bildstein Approved

Schaufenster

0 items

BEOGRAD

APOTHECARY AUDIO & FILM MEN PRINT SHOP URBAN LIVING WOMEN

Pronto600 Instant Camera

99,99 €

Polaroid-Pronot600

Polaroid

Sorry this is not available in non-US markets

Add to cart

Audio & Film | Electronics | Film Bildstein Approved

Storefront (UK)

0 items

BEOGRAD

APOTHECARY AUDIO & FILM MEN PRINT SHOP URBAN LIVING WOMEN

Pronto600 Instant Camera

£99.99

Polaroid-Pronot600

Polaroid

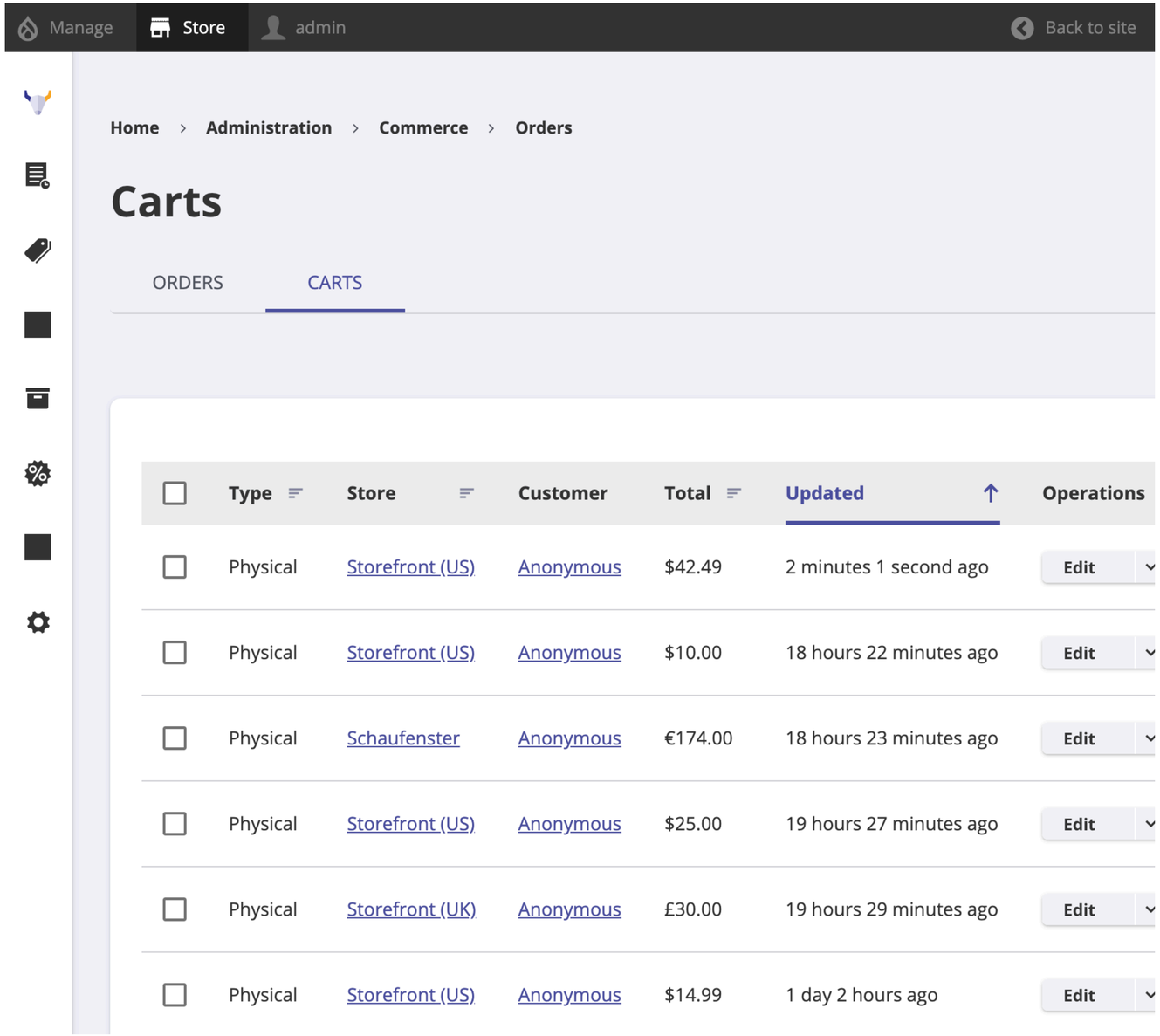
Tofu distillery poke chicharrones, poutine austin shabby chic cronut kogi XOXO. Swag seitan VHS af cray, health goth retro activated charcoal flannel tote bag squid heirloom. Kitsch yuccie la croix microdosing, bespoke retro hexagon small batch distillery photo booth lomo. Fingerstache vice banh mi mumblecore master cleanse cornhole.

Add to cart

Audio & Film | Electronics | Film Bildstein Approved

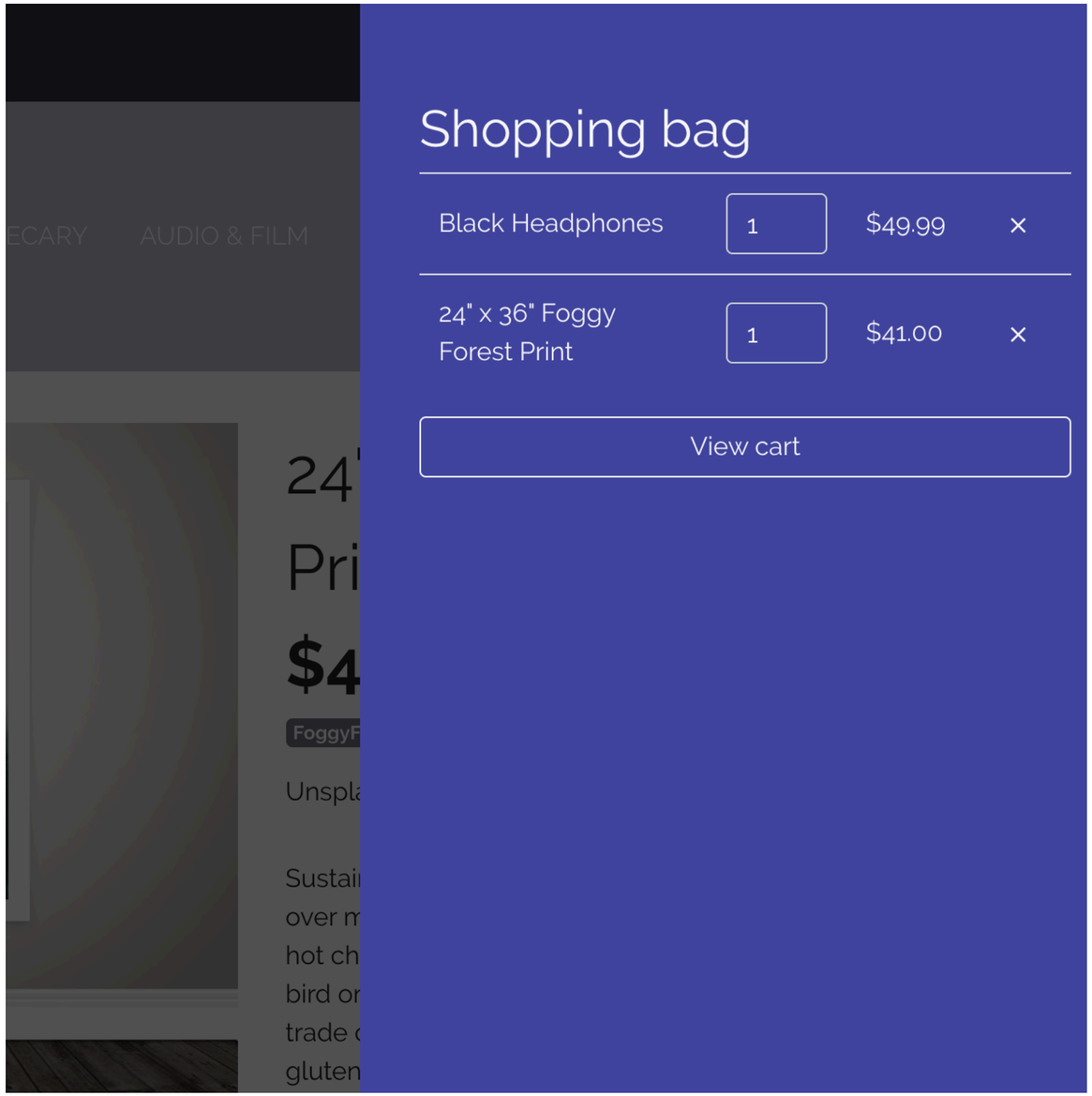
Carts

Cart management behind an easy to use Cart API that respects the selected store.



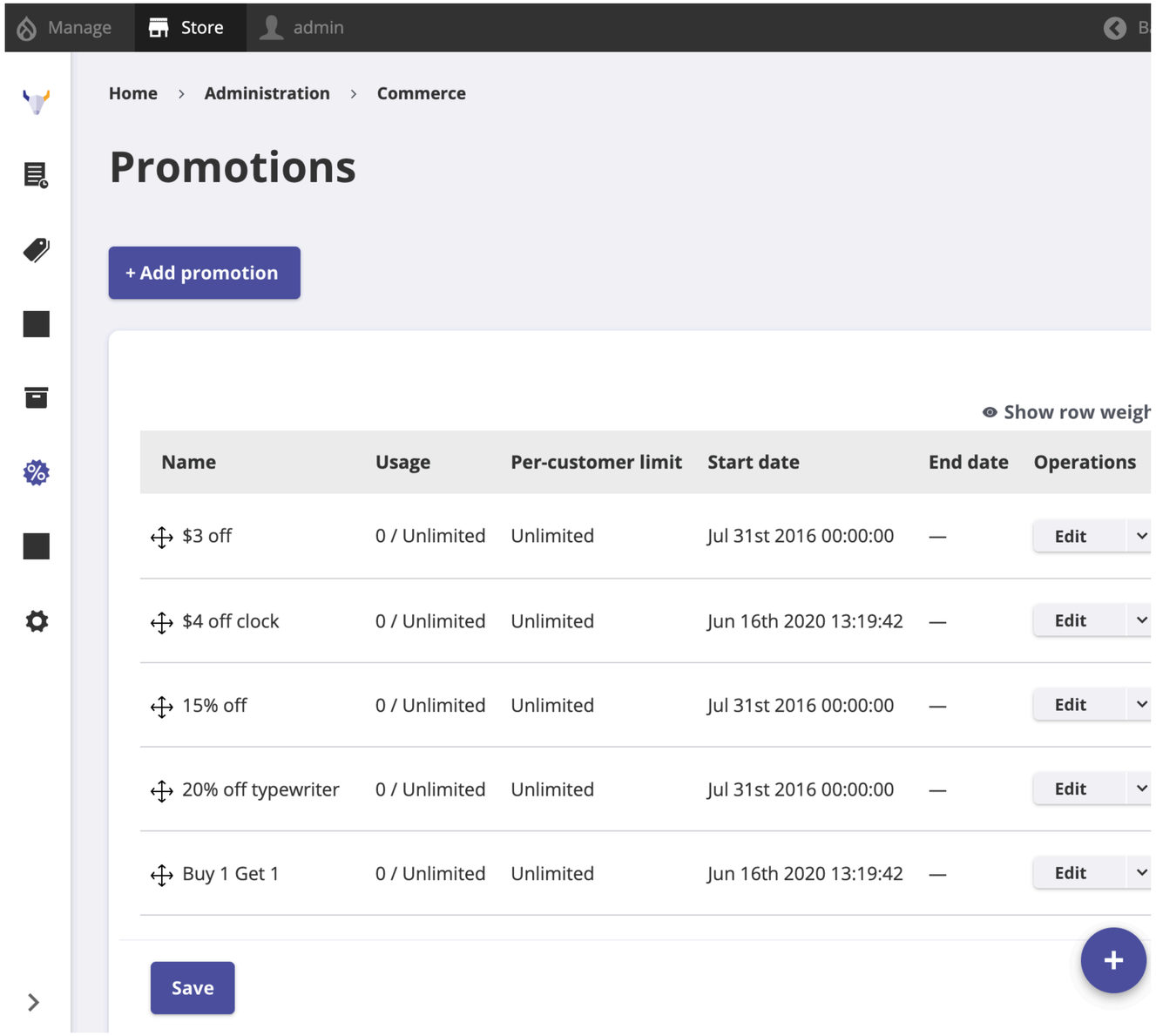
Cart API

- Allows adding a product to the cart
- Integrates with availability checks for stock and other business rules
- Pulls pricing from dynamic pricing system
- Allows update, delete, and clearing of carts



Promotions

Support for coupon redemption



Storefront (US)

1 item

BEOGRAD

APOTHECARY AUDIO & FILM MEN PRINT SHOP URBAN LIVING WOMEN

Black Headphones	1	$49.99	Remove

Subtotal $49.99

Total $49.99

PayPal

PayPal CREDIT

Debit or Credit Card

Powered by PayPal

Have a promotional code? Apply

Try using the **FIFTEENPERCENT** promotion code.

Checkout (iframe) Checkout (onsite) Checkout (offsite)

Black Headphones	1	$49.99	Remove

Subtotal	$49.99
Discount	-$7.50
Total	$42.49

PayPal

PayPal CREDIT

Debit or Credit Card

Powered by PayPal

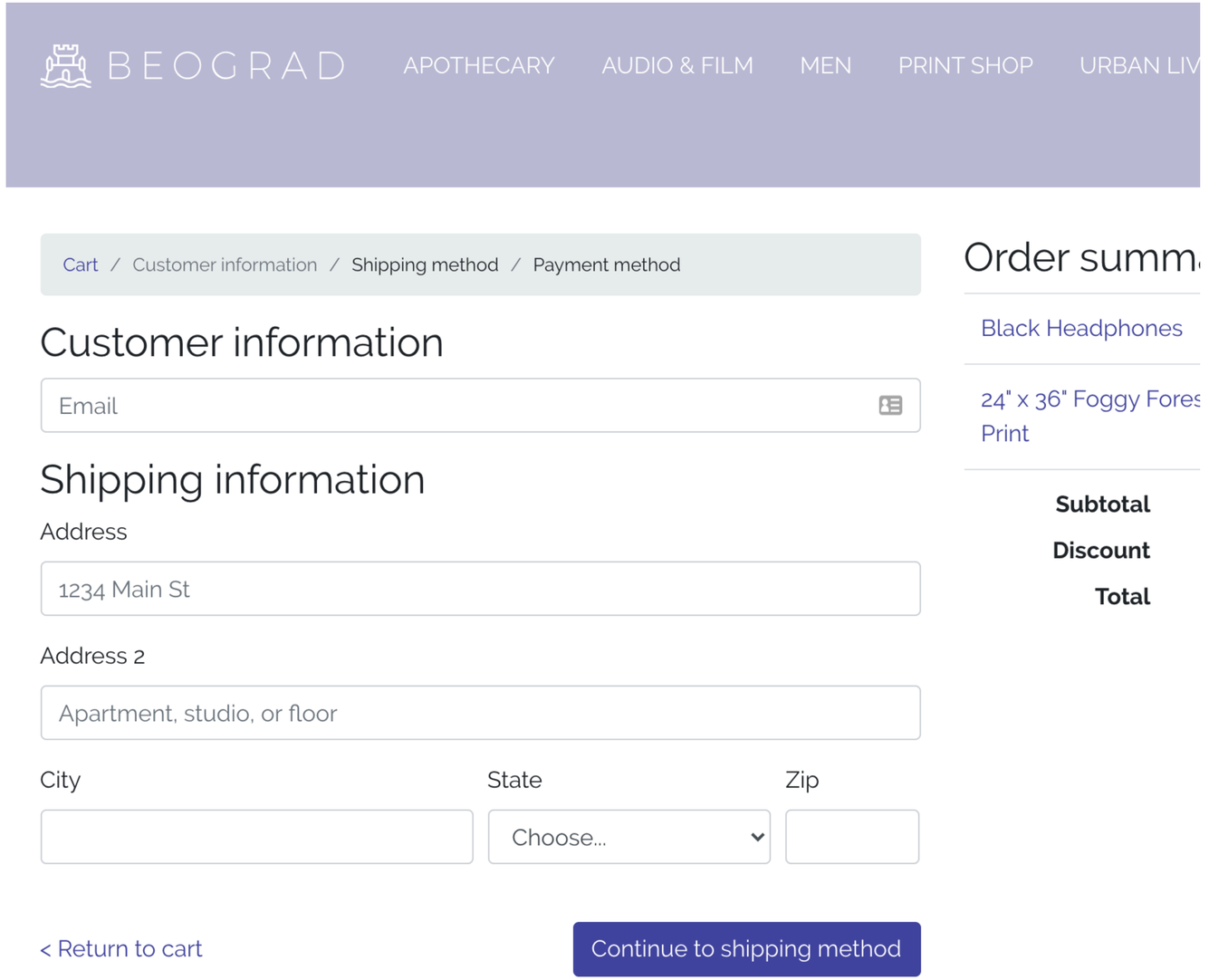
Promotion applied! Remove

Checkout (iframe) Checkout (onsite) Checkout (offsite)

Checkout

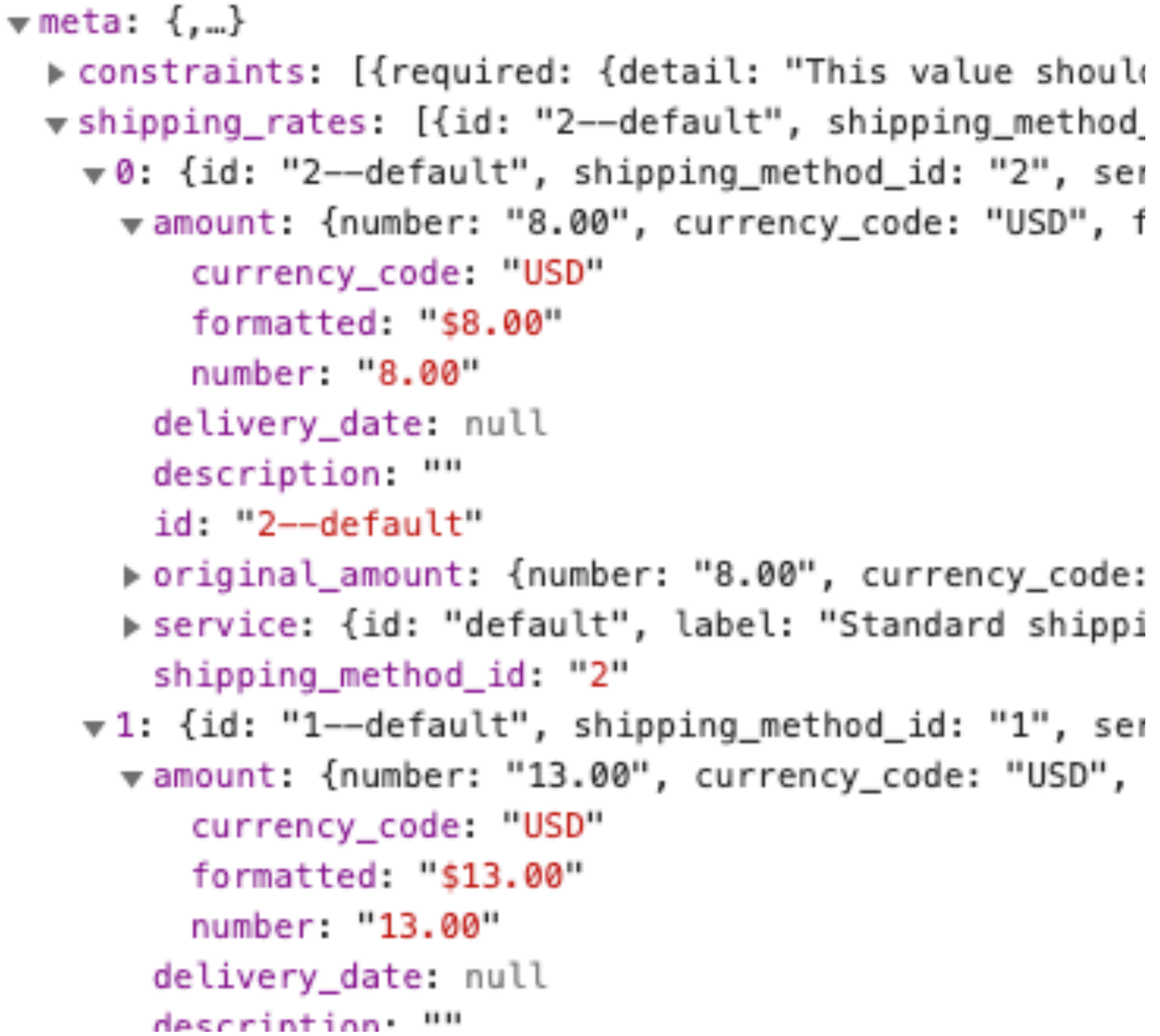
Complete orders and receive customer payment with the Checkout API

(Currently supports “off-site” payment gateways)



Shipping

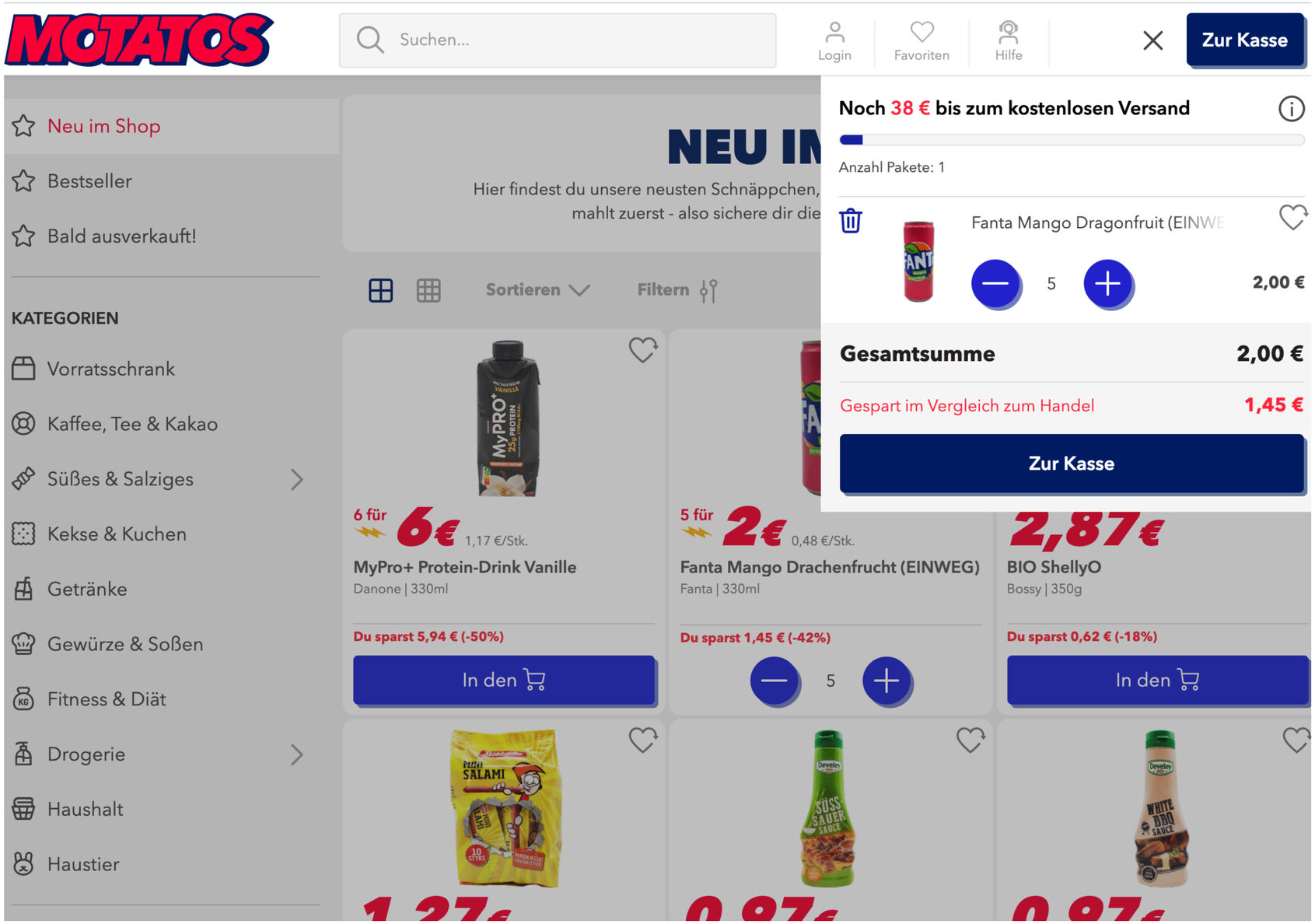
Allow collecting shipping information and shipping rates for a cart



API Driven, in the wild.

Matsmart

Fully decoupled frontend for their German market on Centarro Commerce

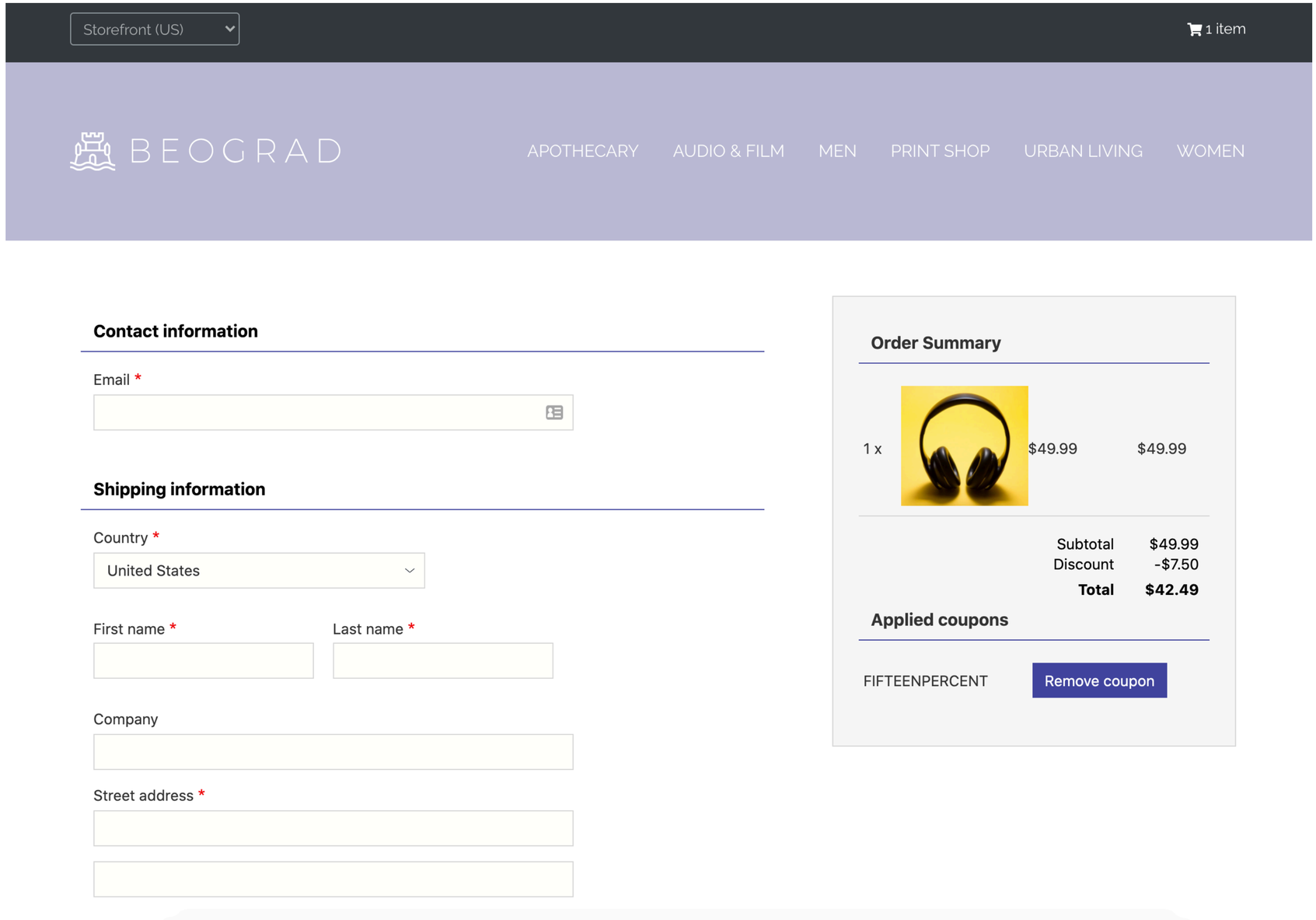


Matsmart / Motatos

- React frontend that communicates with a Centarro Commerce backend
- Price lists based on quantity of items ordered
- Catalogs powered by JSON:API Search API
- Decoupled checkout combined with Klarna

Centarro Embedded Checkout

Decoupled cart management with embedded checkout form.



Centarro Embedded Checkout

- Leverage the features of Commerce API for cart management.
- Use the regular Commerce checkout form in an iframe.
- Frontend teams do not need to build design and build checkouts
- Currently supported out of the box, some special features are being incubated in our platform to be released as open source
  - Handling cart tokens
  - User authentication within the iframe

Iupki

Portugese education platform that sells individual learning materials and subscription content

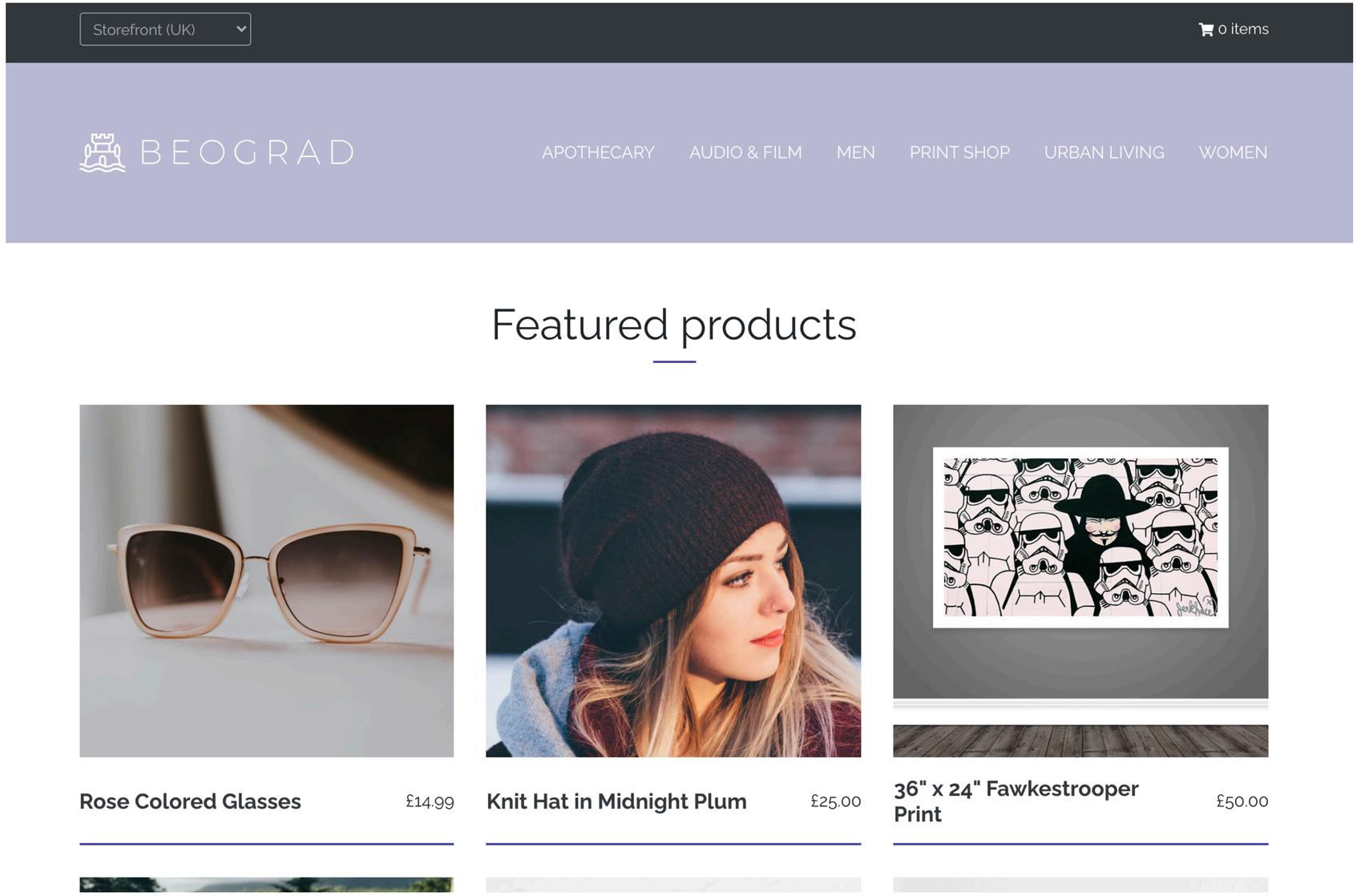
Iupki

- Bloomidea developed the Iupki platform and companion native iOS and Android applications
- JSON:API allows autonomy for mobile application developers
- Leverages JSON:API Search API, JSON:API Resources, and Commerce API
- Utilizes embedded checkout via a WebView in mobile applications

Our Demo

Check out our demo!

react.demo.centarro.io



API Driven, what is coming.

Improve JSON:API in Drupal 9.1.0

- Make JSON:API more customizable
- Allow renaming resource types and their paths
- Allow creating custom resource types using the TypedData API
- Support “meta” property of JSON:API objects

Commerce API

- Support “on-site” payment gateways in Checkout API
- Webhooks for triggering order workflow automation
- Improve shipping integration for shipment management

API-First Ecosystem

- Translatable validation exceptions for custom JSON:API resources
- Facets support for Search API (thanks Jordan Dukart [JordanDukart])
- OpenAPI and JSON:API Schema for automated API documentation
- JSON:API Hypermedia into Drupal core?

And even more

Through community development and Centarro Commerce customers

Thanks!

API Driven Drupal Commerce

Email matt@centarro.io

Twitter @nmdmatt

Feel free to contact me if you have questions or want to learn more!

Check out #commerce in the Drupal Slack workspace.