Drupal as the Head in Headless Commerce

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ctrlAdel

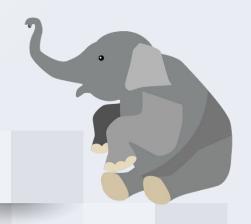
Drupal Lead at







Drupal as the Head



This guy says...



and this guy says...























Practical Reasons

Integrations

Payment gateways

Shipping providers

ERP

PIM

Taxes

Marketing automation

Backend Functionality

Customer Service

Returns

Invoicing

User management

Account management

Promotions

The commerce platform is not Drupal Commerce

The commerce API supports headless use

CMS capabilities of the commerce platform are insufficient

Why Drupal?

Drupal is a full featured CMS

Built in commerce framework with a flexible data model, Drupal Commerce

Drupal is the CMS

Architecture Considerations

Authentication

Integration user

VS

Customer authentication

Disconnected Behavior

Product detail pages

Search

Product listing pages

Pricing

Pricing

Implementation

Tip #1

Write a health checker and

notification.

Commerce API Usage & Flexibility

Is it fully featured?
What are the api usage limits?
Does it support querying?
Will the business logic fit within existing endpoints?
Does it support custom endpoints?
Is there a php sdk or library available?
Webhooks?

Data Ownership

What system owns what data?

- Users
- Orders
- Carts
- Products
- Product Attributes
- Inventory
- Accounts
- Content
- Catalog Structure

Implementation Tip #2

Respect data ownership.

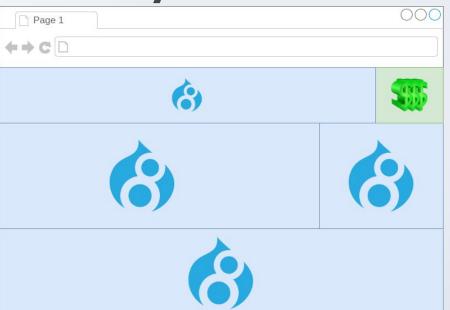
Implementation Tip #3

Make friends with all the teams.

Architecture #1 Fully Headless

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Architecture #2 Partially Headless



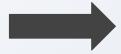
Architecture #3 Commerce Integration



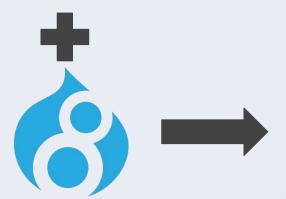
Architecture #4

Fully Headless Commerce Integration

Commerce Platform











Assumption We've chosen **Architecture #3** the Commerce Integration

Integration Considerations

How often does data change?

Why do you need the data?

When do you need the data?

Who owns the data?

Products Accounts

Approach:

Push or Pull Message queue



Implementation Tip #4

Don't fail silently, log everything.



Import & Export (2 way sync)

Coupons Users

Approach:

Storage override Subscribers

Lazy Load

Implementation Tip #5

Make sure you can debug on production.

Order Confirmation Order History Shipping Methods Inventory

Approach:

Custom blocks Subscribers Plugins

On Demand

Implementation Tip #6

If it's loaded Lazily or On Demand you should be able to delete it

User authentication Checkout Cart Taxes Pricing

Approach:

Custom blocks Subscribers Resolvers

Transactional

Profile data Cart Address book Payment methods

Approach:

Subscribers Entity hooks

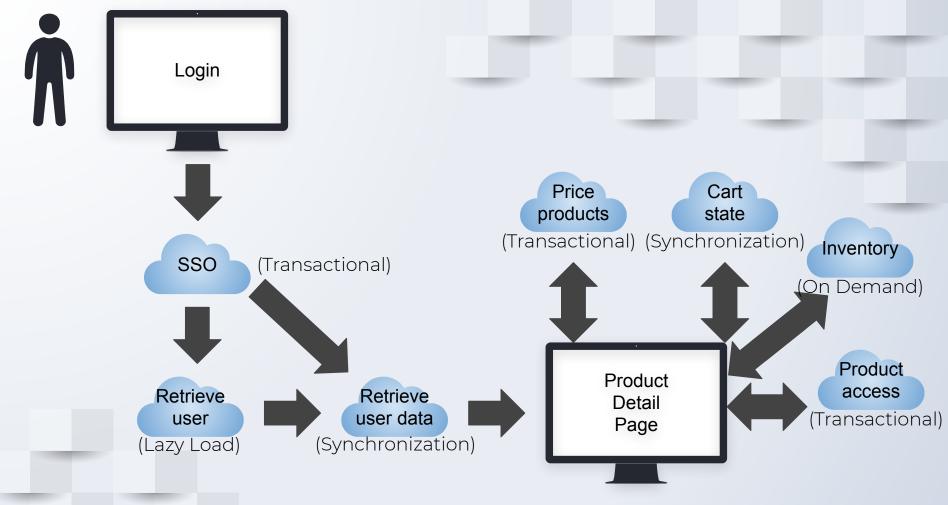
Synchronization

Address Book Payment Methods

Approach:

Storage override

External Entities



Questions?

PLEASE PROVIDE YOUR FEEDBACK!

mid.camp/6406



CONTRIBUTION DAY Saturday 10am to 4pm

You don't have to know code to give back!

New Contributor training 10am to Noon with **AmyJune Hineline** of Kanopi Studios