



# Demystifying Decoupled Drupal with Contenta CMS

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Bayo Fodeke & Mark Shropshire



**DrupalCon**  
SEATTLE 2019  
APRIL 8-12

# Today's Agenda

- I. What's Decoupled Drupal?
- II. Why Decouple Drupal?
- III. What's Contenta CMS?
- IV. Contenta CMS Features
- V. Contenta CMS Demos
- VI. Q&A

# Today's Team



**Bayo Fodeke**  
Senior Drupal Developer



**Mark Shropshire**  
Director of Development



# About Mediacyclic

# Who We Are

Mediacurrent is a full-service digital agency that implements world class open source software development, strategy, and design to achieve defined goals for enterprise organizations seeking a better return on investment.



# What's Decoupled Drupal?



Decoupled Drupal (or headless Drupal) allows the developer to utilize any technology to render the front-end experience in lieu of the theming and presentation layers in Drupal.

Source: [Acquia.com](https://www.acquia.com)

# Fully Decoupled Drupal



Drupal 8  
Backend



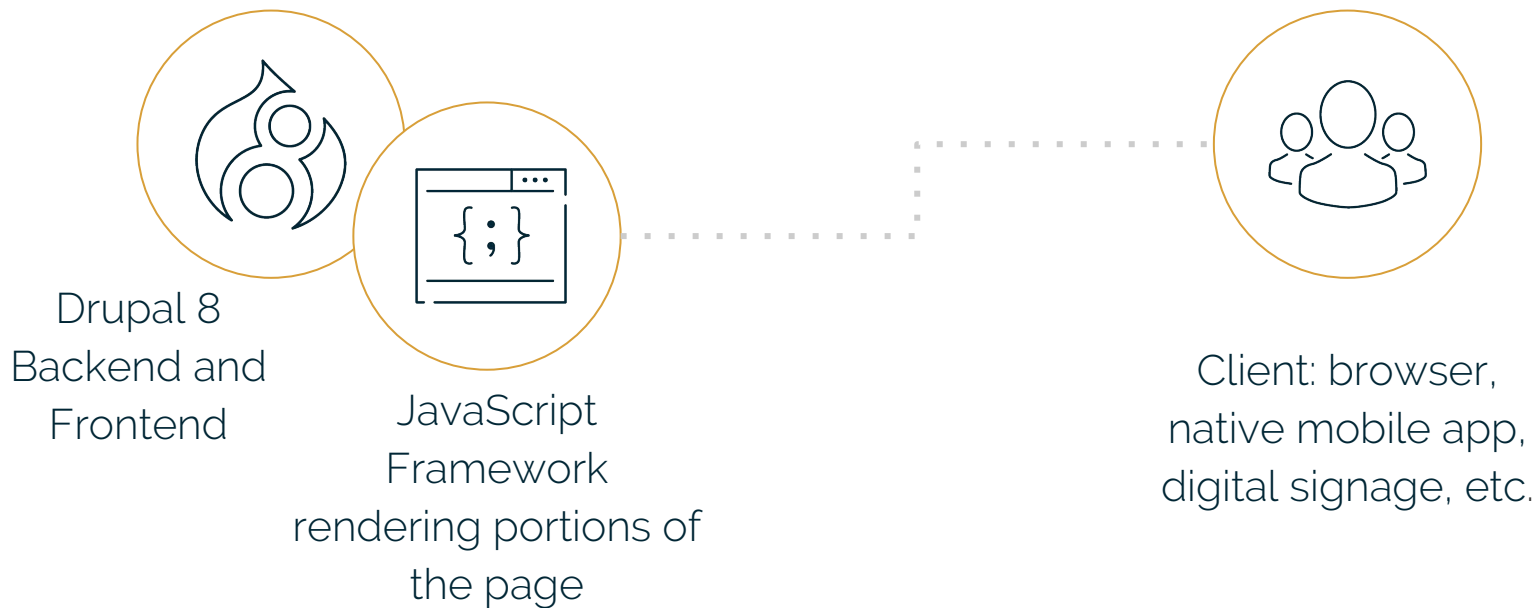
Decoupled  
Frontend



Client: browser,  
native mobile app,  
digital signage, etc.



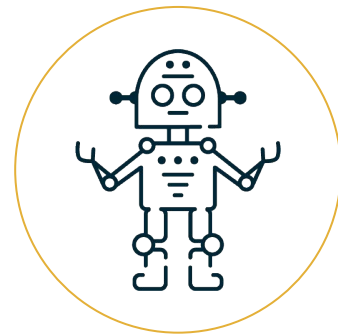
# Progressively Decoupled Drupal



# Why Decouple Drupal?

# Reasons to Decouple Drupal

- Content can be delivered to many different devices
- Ability to replace the frontend without affecting the backend
- Developer experience
- Security



# Drupal Decoupling Tech



JSON::API



REST API



GraphQL

# {json:api}

JSON:API lands in Drupal core!

Drupal 8.7.x | May 2019



# DECOUPLED DAYS 2019

**New York City**  
July 17–18, 2019

## Call for papers

The Decoupled Days 2019 call for papers is **extended** until *May 3, 2019 at 11:59pm EST.*

## Sponsorships

For sponsorship information, reach out to our team at *decoupleddays@gmail.com.*

## @decoupleddays

Follow us on Twitter to stay updated on important announcements.

[#decoupleddays](#) • [decoupleddays.com](#) • [@decoupleddays](#)

# Traditional Drupal Approach

There is nothing wrong with a standard Drupal approach where the Drupal instance provides the backend and frontend experience.



Great read on making the decision to decouple Drupal (when and how):  
<https://dri.es/how-to-decouple-drupal-in-2018>



# What's Contenta CMS?

# Contenta CMS



Contenta is an API-First Drupal distribution.

It provides a standard platform that is API ready along with demo content and example front-end applications. Contenta intends to ease the pain of using, or simply trying, decoupled Drupal.

Source: [ContentaCMS.org](https://ContentaCMS.org)

# Contenta CMS Features

# Contenta CMS Features

Drupal 8



Open Source

Example Content



Example Consumers

JSON API



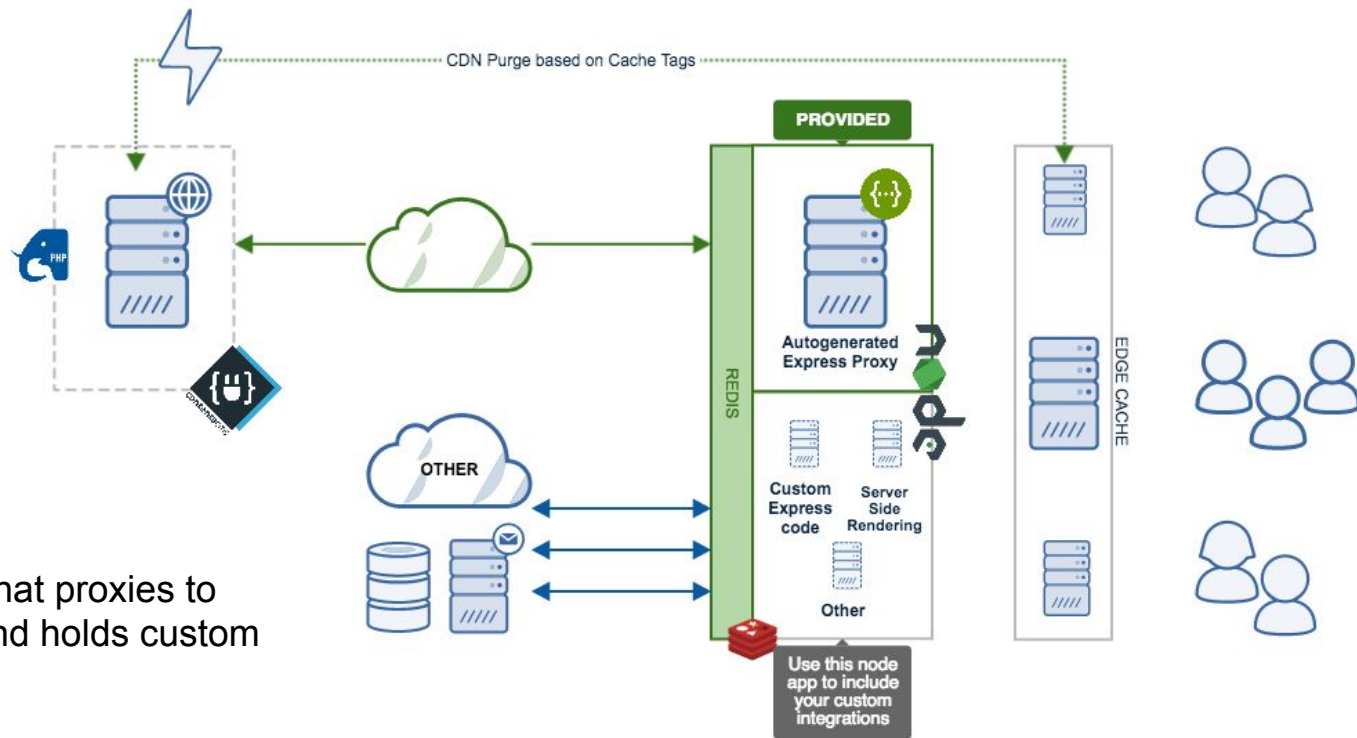
GraphQL

OpenAPI



OAuth

# ContentaJS



A nodejs server that proxies to Contenta CMS and holds custom code

# Contenta CMS Demos

# Stockwatch Tech Stack



**contenta**cms



**Wodby**



**netlify**



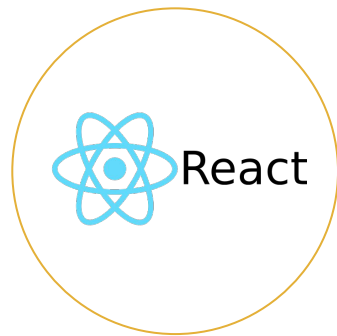
# Demos

- Contenta CMS Installation
  - <https://www.contentacms.org>
- Contenta CMS (stockwatch-api)
  - <https://github.com/shrop/stockwatch-api>
  - Creating content models
  - API options
    - JSON API endpoint
  - OAuth



# Demos

- React Frontend (stockwatchapp)
  - <https://github.com/shrop/stockwatch-react>
  - CORS (Cross-Origin Resource Sharing)
  - Oauth (implicit grant)
    - Login
  - Reading JSON API data
    - Filtering



# Demos

- Gatsby Frontend (stockwatch)
  - <https://github.com/shrop/stockwatch-gatsby>
  - Access control in Drupal to allow Basic Pages to be public
    - Node View Permissions
  - Gatsby setup



# Contribution Opportunities

*Join Us!*

★ ★ ★ **Friday, April 12, 2019** ★ ★ ★

## Mentored Contribution

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9:00-18:00  
Room: 602

## First Time Contributor Workshop

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9:00-12:00  
Room: 606

## General Contributions

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9:00-18:00  
Room: 6A

#DrupalContributions



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A dark, blue-toned background image of the Seattle skyline, featuring the Space Needle prominently on the left and various city buildings and mountains in the distance.

# Thank you!

*What did you think?*

Locate this session at the DrupalCon Seattle website:

<http://seattle2019.drupal.org/schedule>

*Take the Survey!*

<https://www.surveymonkey.com/r/DrupalConSeattle>



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