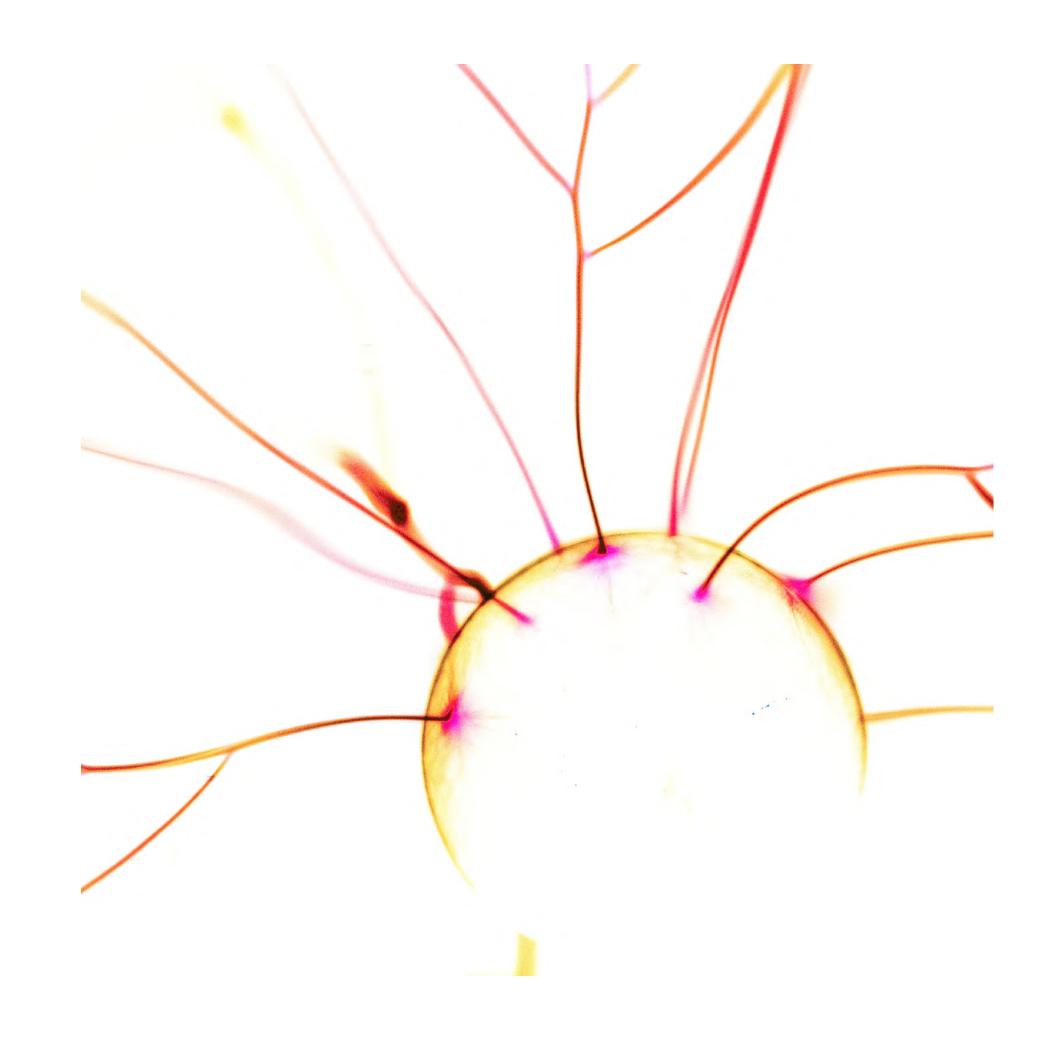
October 12th 2021

# Composable commerce on top of Shopware

FROINTASTIC

Reacticon 2021 Kore Nordmann (@koredn / kore@frontastic.cloud) **Composable:** 

No commerce site is only powered by a single backend (any more)



### My assumptions

### **Continuous innovation over big bang**

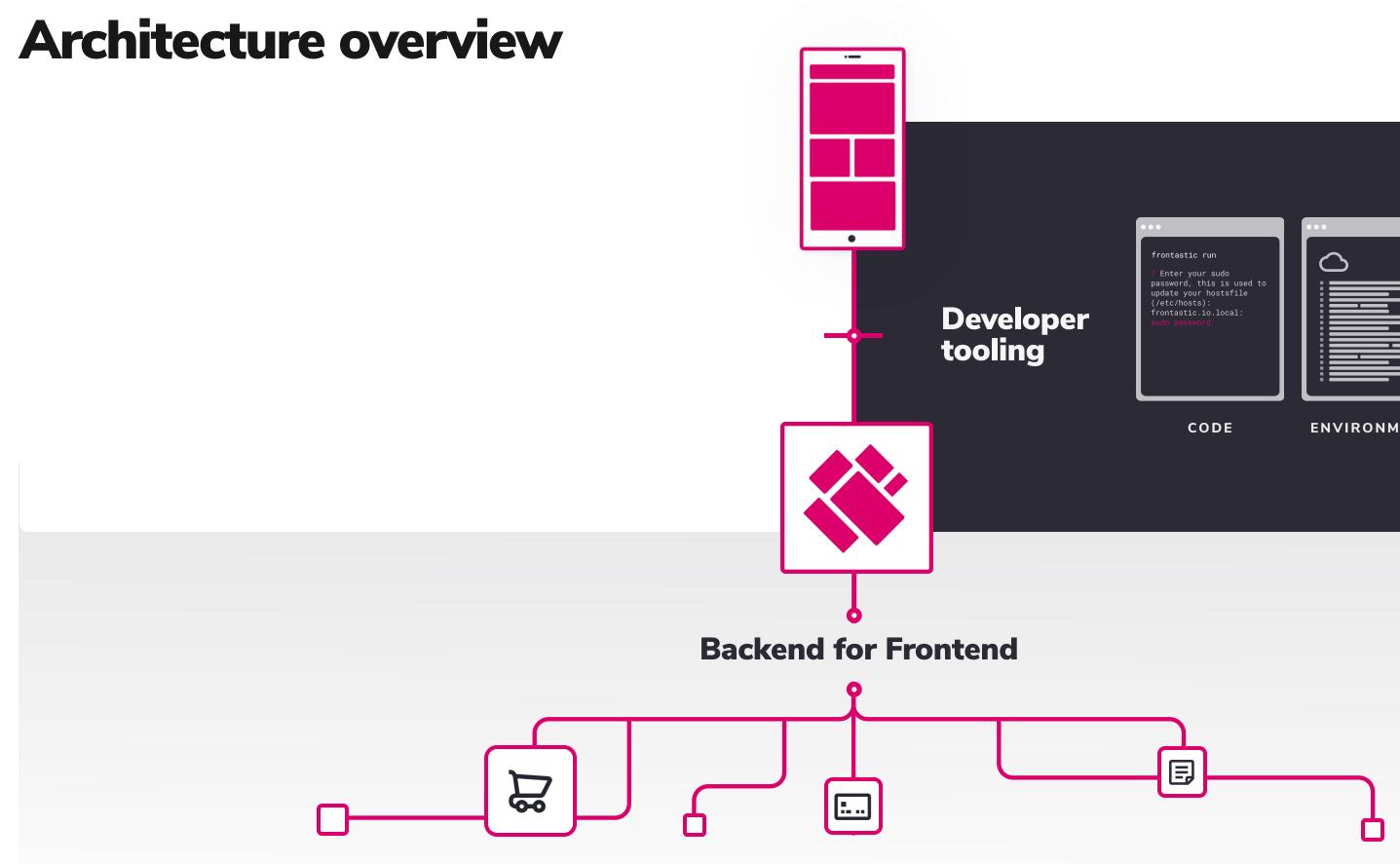
- Commerce projects are there to last and no 1-shot deals any more
- We learn from our users and continuously innovate to improve conversion rates

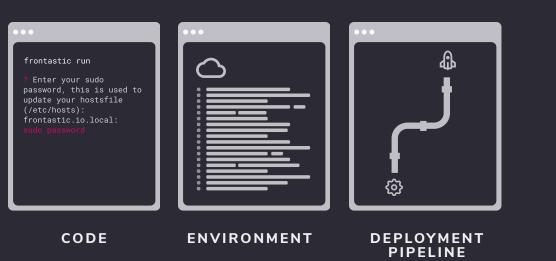
### Business understands the target group best

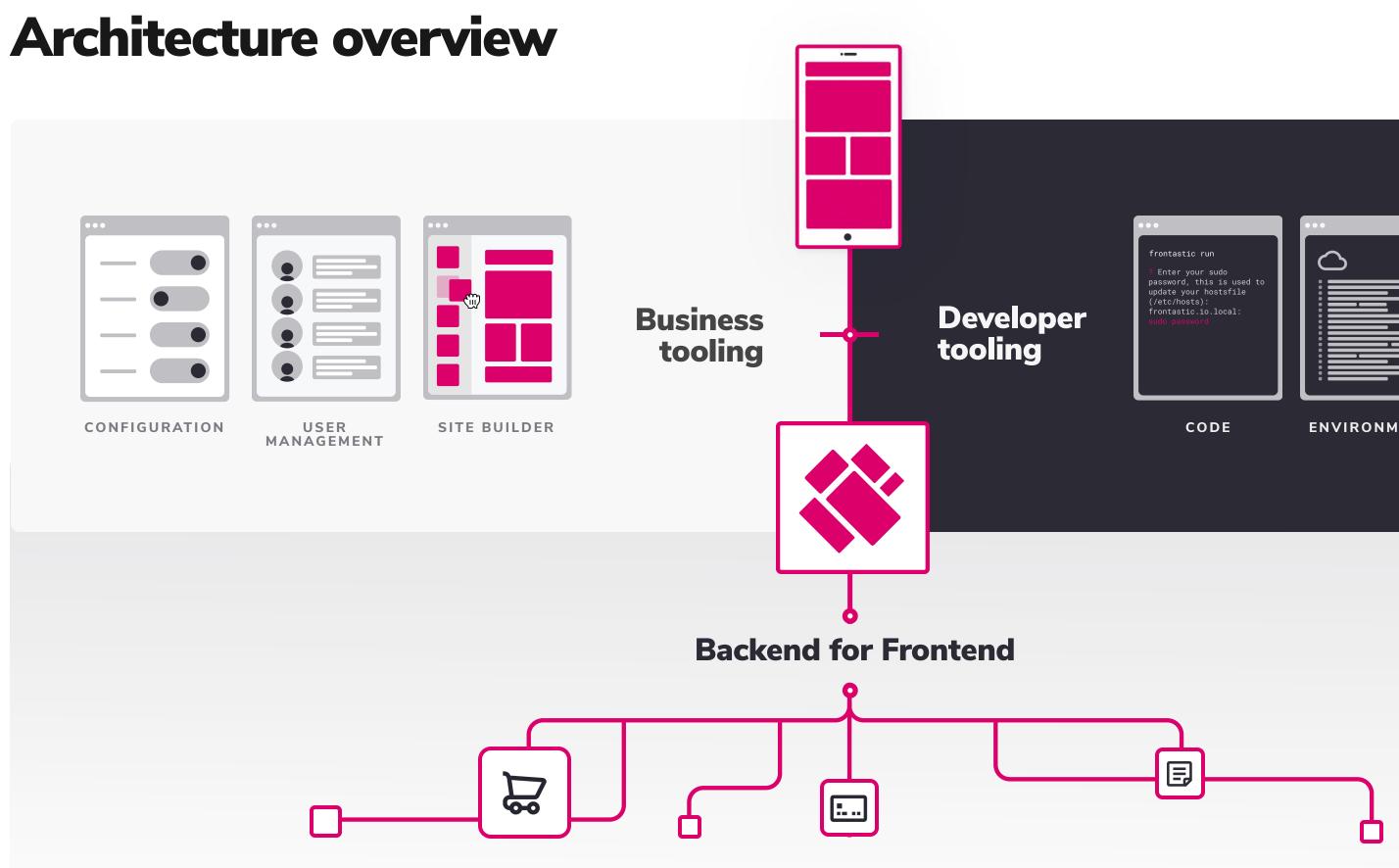
- The commerce site operator has or hires nondevelopers who will understand the target group
- Different target groups have different requirements to reach frontend excellence

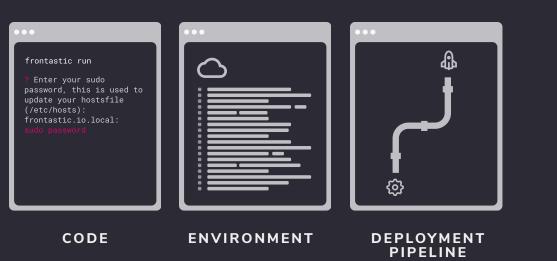
### There's constant market evolution and innovation

- Backends will change, since innovation happens everywhere
- New use cases will always require adding or developing new backends









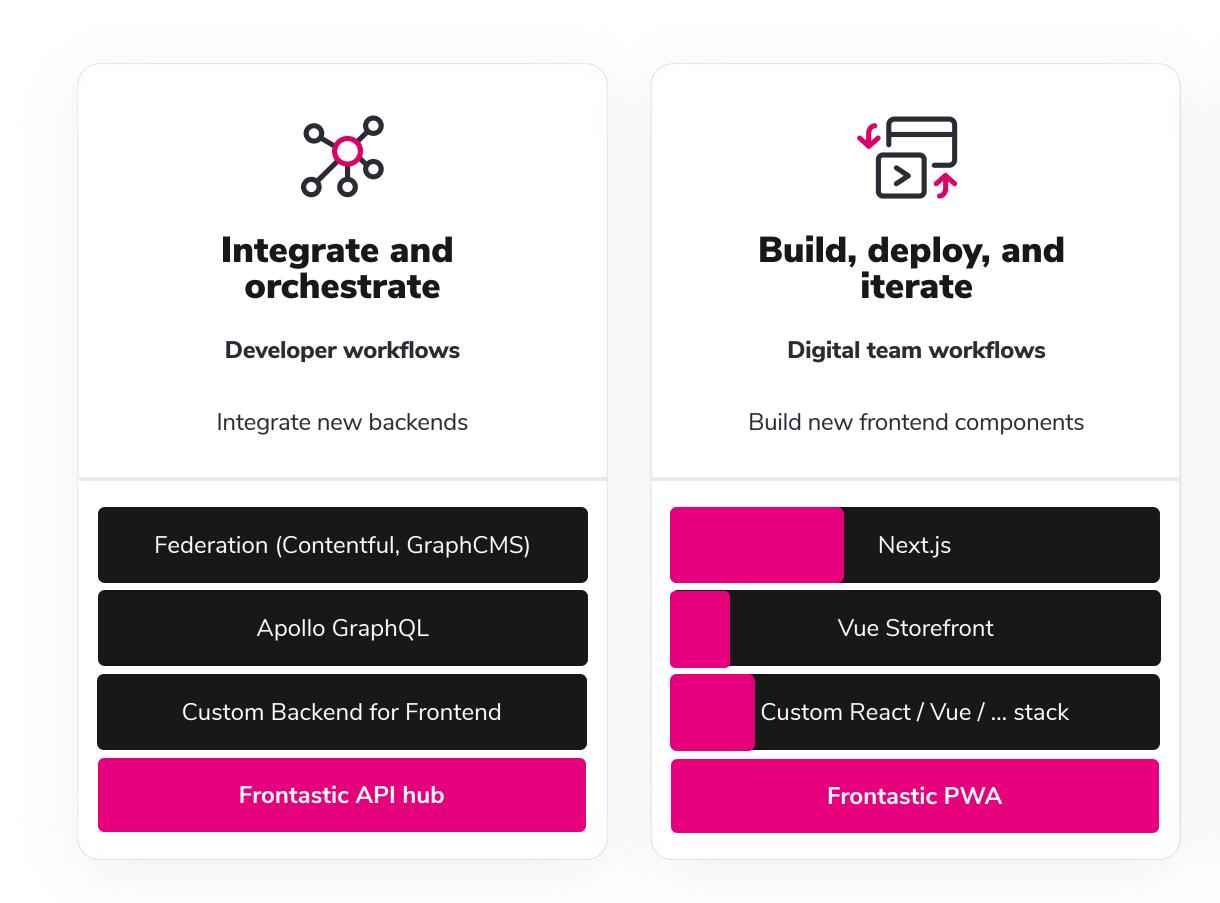
### Me: Kore Nordmann (@koredn) CTO and Co-founder Frontastic GmbH





https://frontastic.cloud/ https://kore-nordmann.de/

### Common workflows we see





### Create, manage, and optimize

Marketing workflows

Create landingpages, optimize pages

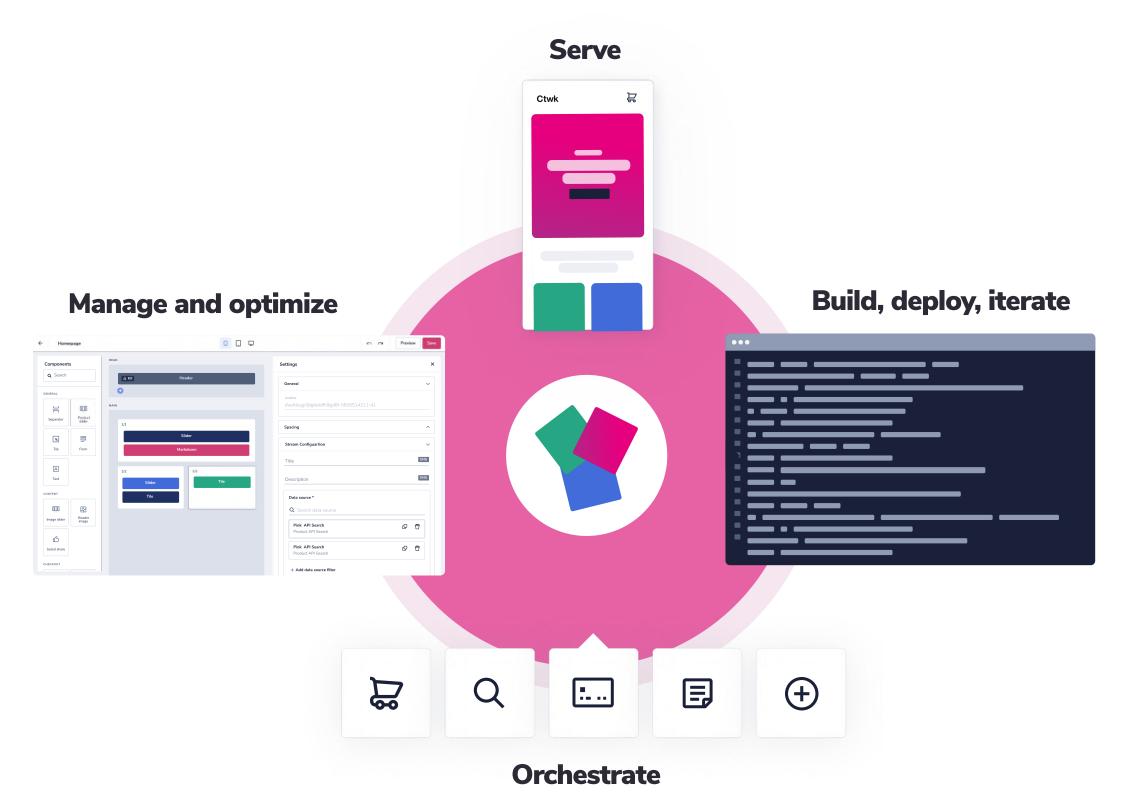
Jira / custom development

GraphCMS / Contentful

Shopware Shopping Experiences

Frontastic studio

### **How Frontastic works**



Confidential

#### Orchestrate

Our **API hub** connects to any headless or API first platform for initial setup in **days instead of weeks.** 

#### Build, deploy, and iterate

Our **developer tooling** includes React components for commerce use cases for initial setup in days instead of weeks and built-in workflows to enable feature releases in **hours instead of days.** 

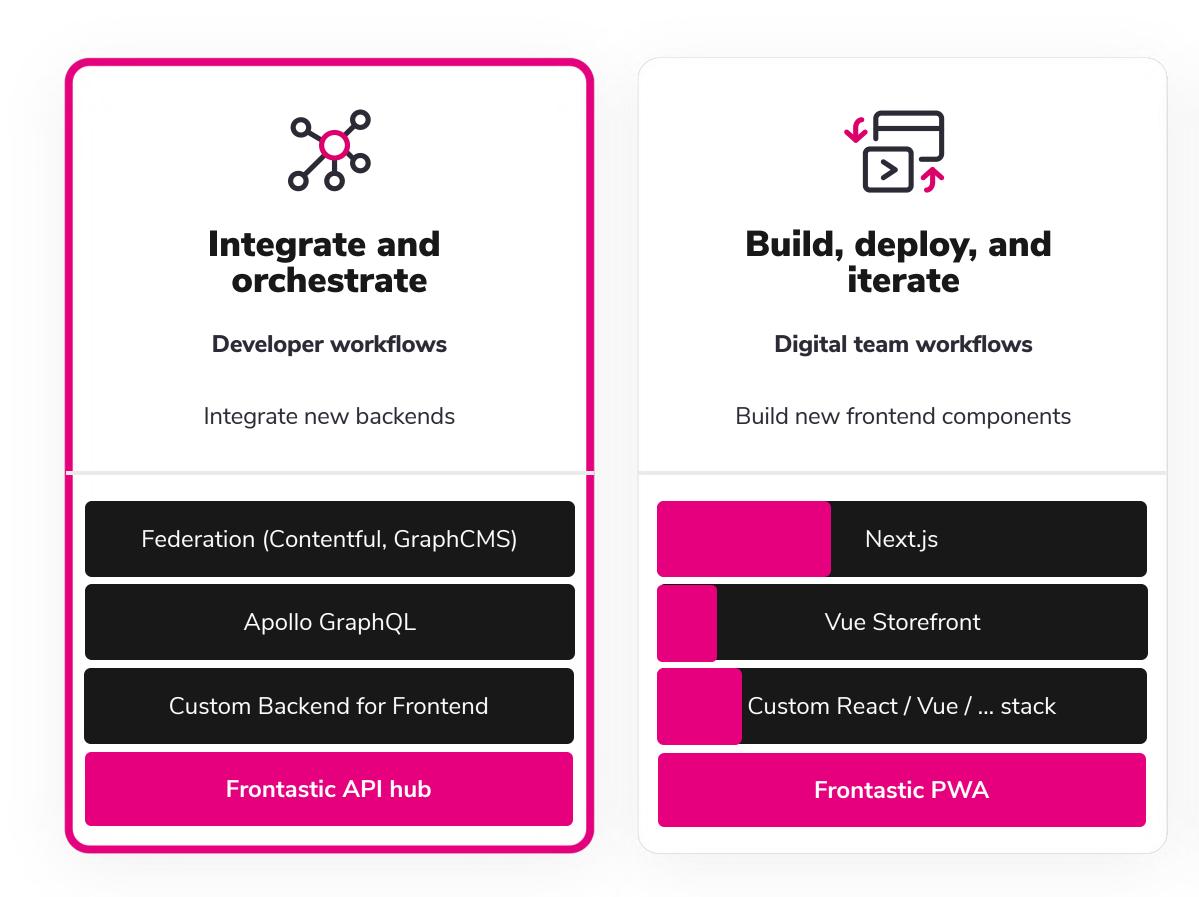
#### Manage and optimize

Our **studio** gives **full autonomy for business users** to manage pages, components, navigation, filter API data, and preview sites in real-time on a real device.

#### Serve

Our **frontend delivery** serves all commerce sites as a PWA — optimized for performance and mobile first and with a **99.9% uptime guarantee.** 

### Common workflows we see





### Create, manage, and optimize

Marketing workflows

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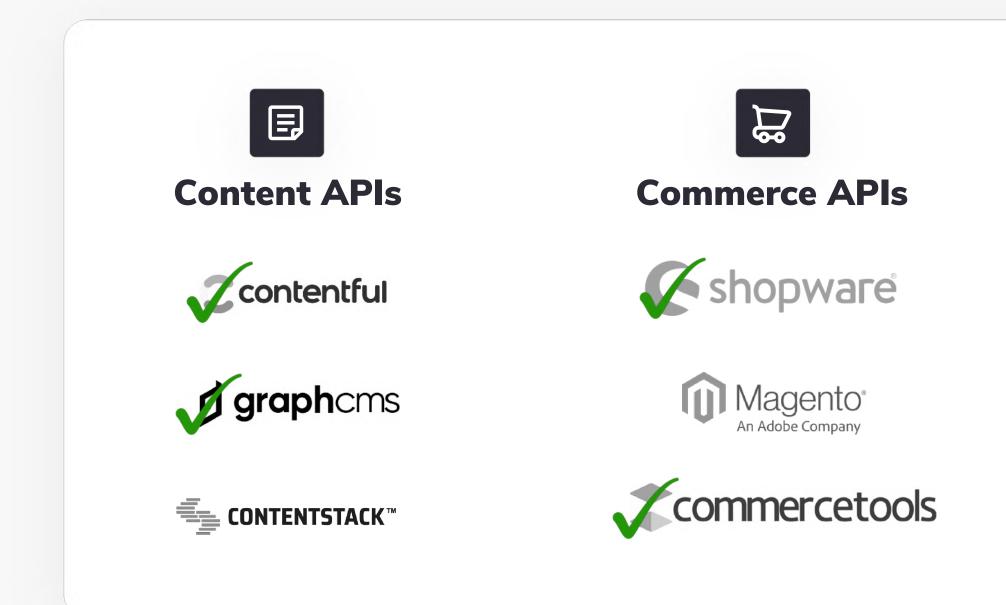
Shopware Shopping Experiences

Frontastic studio

### **%** Integrate and orchestrate

### **Backend for Frontend**

A unified way of integrating with your tech landscape







Connect with any system you want to provide data from

### Look at the code

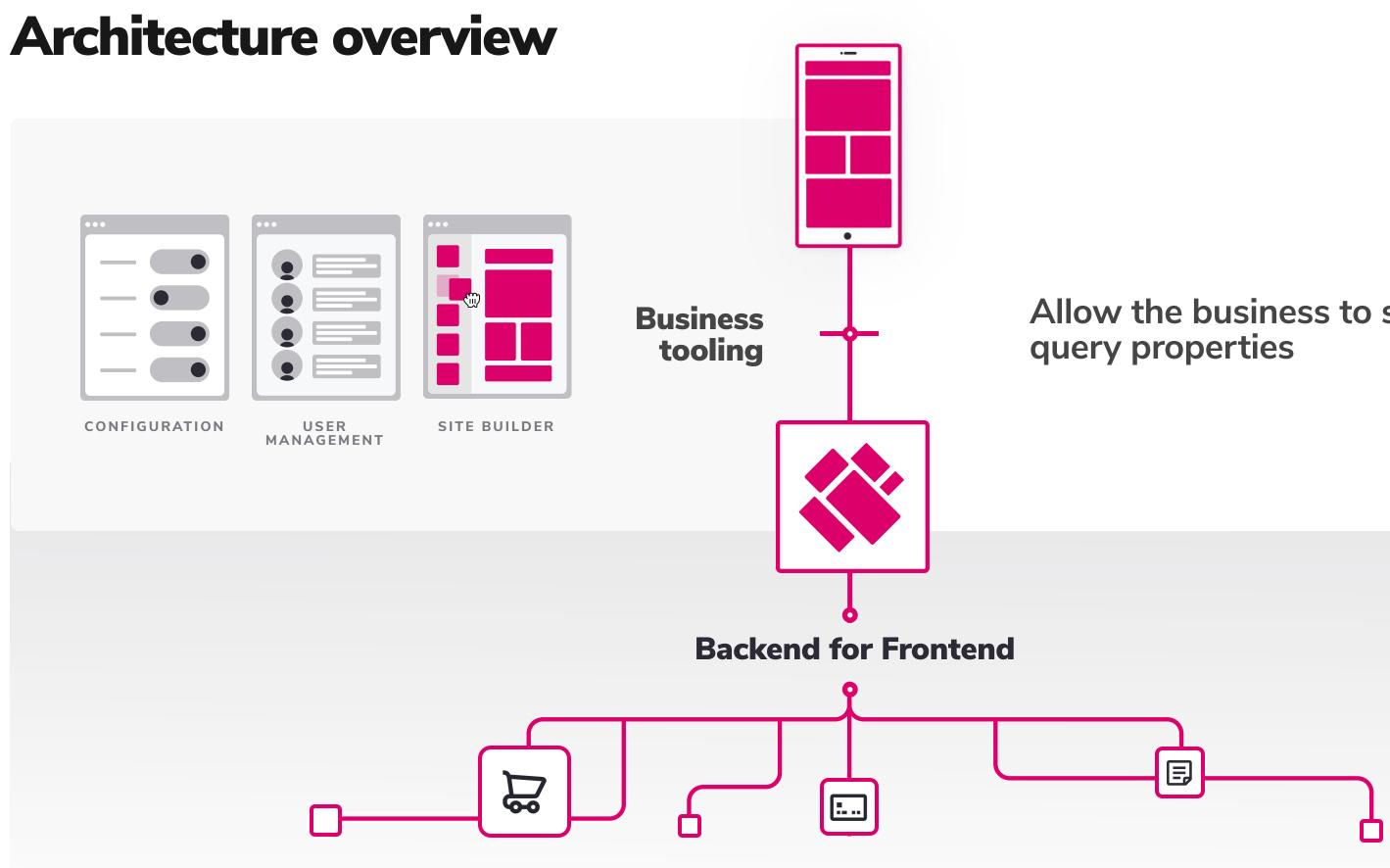
Get all films from Star Wars GraphQL API

```
public function handle(Context $context, Node $node, Page $page, Tastic
$tastic, $fieldValue)
{
    return json_decode($this->httpClient->request(
        'POST',
        'https://swapi-graphql.netlify.app/.netlify/functions/index',
        json_encode(['query' => '{ allFilms { films { title } } }']),
        ['Accept: application/json', 'Content-Type: application/json'],
    )->body);
```

### Look at the code (JavaScript edition)

Get all films from Star Wars GraphQL API

```
export default {
  // ...
  'data-sources': {
    'starwars/films': (config: DataSourceConfiguration, context:
DataSourceContext) => axios.post(
      'https://swapi-graphql.netlify.app/.netlify/functions/index',
      { query: '{ allFilms { films { title } } } ' }
    ).then(result => result),
    // ...
 },
 // ...
};
```

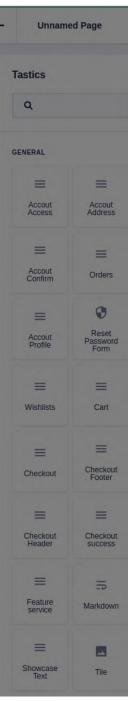


### Allow the business to specify

### Look at the code — business edition

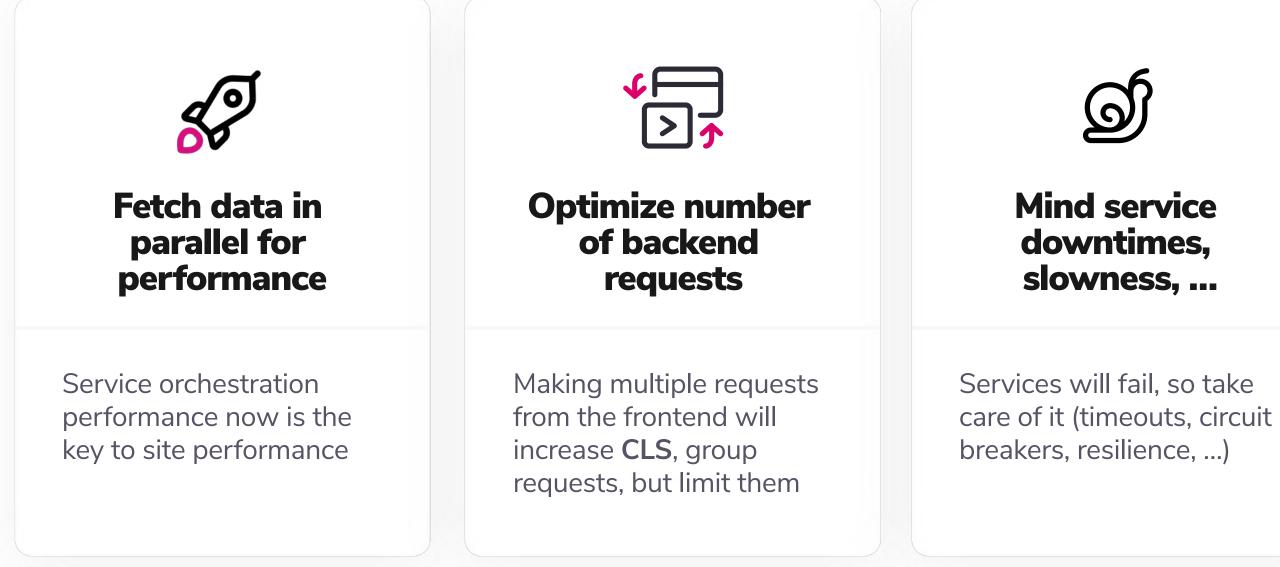
Get all films from Star Wars GraphQL API

```
public function handle(...)
{
   return json_decode($this->httpClient->request(
        'POST', 'https://swapi-
graphql.netlify.app/.netlify/functions/index',
        json_encode(['query' => $fieldValue['query']]),
        ['Accept: application/json', 'Content-Type:
application/json'],
    )->body);
}
```



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<b>A</b>	{ allFilms { films { title, id } } }			
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### **Keep in mind**



#### **Monitor all** requests for errors and status

(Performance) Monitoring is essential to keep track of services

### **Keep in mind**





Fetch data in parallel for performance

Service orchestration performance now is the key to site performance



#### **Optimize number** of backend requests

Making multiple requests from the frontend will increase CLS, group requests, but limit them

are pretty bad



#### Mind service downtimes, slowness, ...

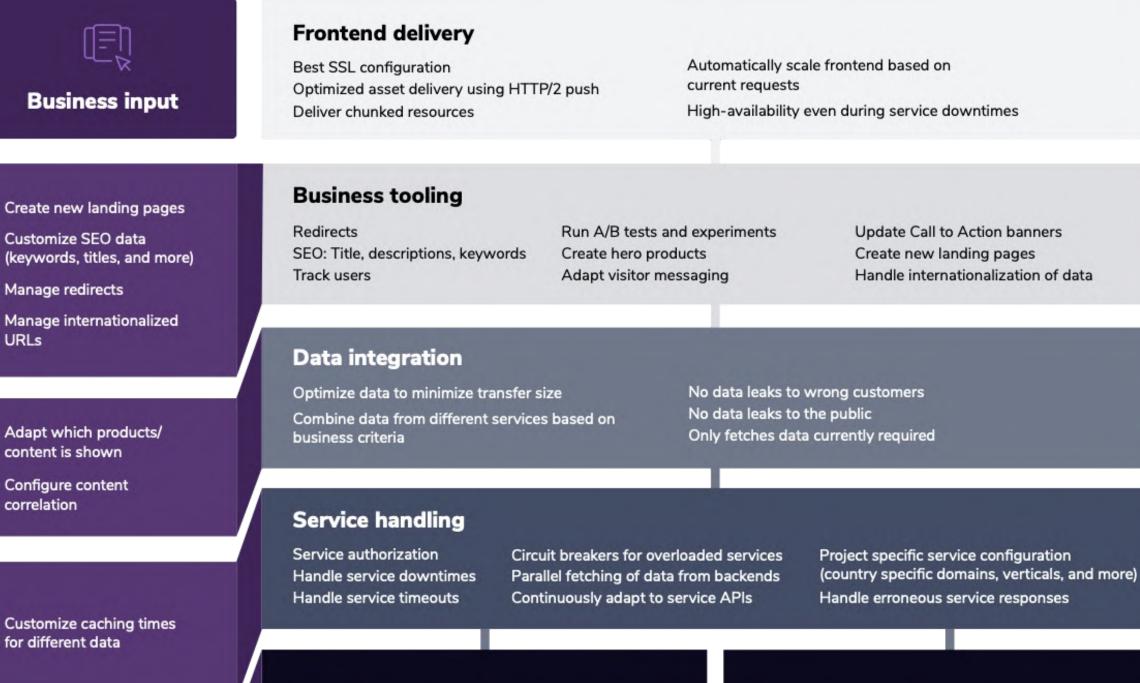
Services will fail, so take care of it (timeouts, circuit breakers, resilience, ...)

## (Cumulative) Layout Shifts

#### **Monitor all** requests for errors and status

(Performance) Monitoring is essential to keep track of services

### **Backend for Frontend**



#### **External headless systems**

**Custom services** 

Configure different endpoints per environment

Encrypt production credentials

Operations

Automatical scaling

Zero downtime deployments

Zero downtime roll-Backs

Continuously monitor full stack performance

Log backend errors Log frontend errors

Set up testing, staging, and production environments

Test all integrations

Continuous Integration

Monitoring of service response times

Monitoring of service response status

### Conclusions

... and what's in it for you?

### **Continuous innovation over big bang**

- Allow business to do the minor changes
- Focus on stable and high quality code

### Business understands the target group best

- Landing pages should be created by them, not you implementing the next Jira ticket "move button"
- Iterate on user experience and develop new ways of addressing the customer

### There's constant market evolution and innovation

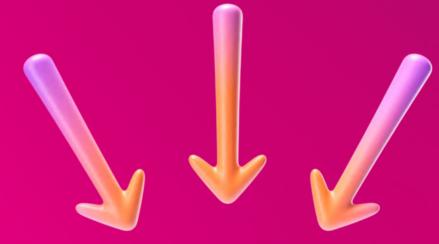
- Encapsulate service requests, so you can replace them
- Integrate new services blazingly fast to verify their positive effect on conversion

# Take away: Think business first, to make your developer life easier.





# FRONTASTIC Thanks for listening



### I'm hiring (frontastic.cloud/careers):

- Fullstack / Backend Developer (Multiple: API/SaaS/studio)
- Frontend Developer (studio)
- Principle Frontend Engineer
- Site Reliability Engineer
- Engineering Manager

#### Happy to talk to you!

#### Kore Nordmann

kore@frontastic.cloud @koredn