

Summary

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03 Choose a backend strategy





Context

Getting ready to growth

Business

- Growing rapidly
- Offices in Europe as well as North and South America
- Nearing100,000 users
- Eager to seize opportunities and increase market share
- Partnerships, mergers and investment in the horizon
- ISO-27001 certified

Tech

- Quickly becoming outdated
- Using a CMS as a framework
- Constraining and challenging to use
- Strict SDLC and security requirements

End of life announcement

In 2019, Drupal announced the end of life for Drupal 7 to be at the end of November 2022.





Break down the problem

Frontend, backend, architecture, infrastructure & priorities.



Choose a frontend framework



Decouple the frontend

React or Vue?

Defined criteria:

- Security
- Robustness
- Easy to learn
- Small footprint
- Ease of integration

In the end, Vue seemed to be more advantageous because it felt easier to learn, and the fact that it came with easy to integrate tools, that were officially supported.

Extended criteria	React	Vue
Release date	2013	2014 feb
Licence	MIT	MIT
Notable companies that use it	FacebookInstagramNetflixApple	FacebookNetflixAdobeApple
State Management Solutions	Redux, inspired by Flux. Heavy to implement, not easy to learn without using third party library.	Vuex, inspired by Flux. Officially supported and maintain by the Vue core team. Simpler to implement.
Router	React-router	Vue-router Official support.
Security	Built-in XSS protection	Built-in XSS protection
Component deployment ready	Yes	Yes
GitHub stars	146k (used by 3m repos)	160k (used by 80k repos)
Stack Overflow activity	199,130 questions	52,822 questions





Choose a backend strategy

Upgrade? New framework? New programming language and framework?



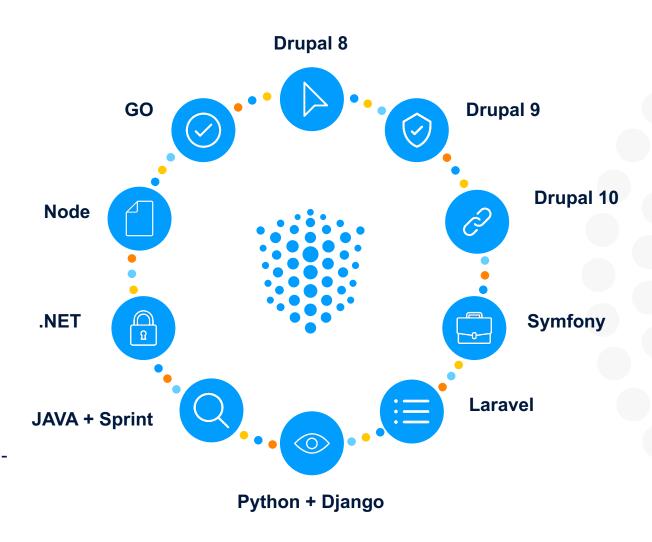
No stone left unturned

Beyond the technical criteria

Defined criteria:

- Security
- Common Vulnerabilities and Exposures (CVE)
- Maintainability
- Community acceptance
- Market Share with 5 to 10y projections
- Learning curve
- Portability
- Web Service integration
- Scalability
- Speed of development

Symfony seemed to be the choice to build complex, well-structured, scalable and maintainable enterprise applications. Suitable for the migration of a long-term project, particularly because of its predictable six-year release plan.







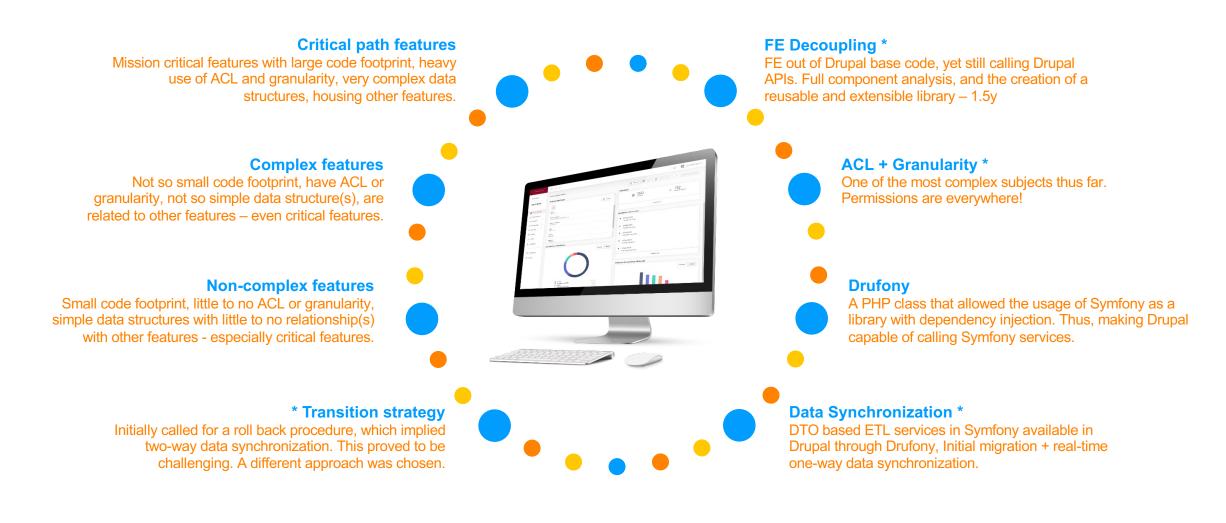
Identify commonalities, tools and migration sequence



Getting things done

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Moving code, creating services and defining new procedures and strategies, while continuing to support business needs.



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Remember the previous context?

It changed!

Business

- Over 100,000 users
- €130M investment
- Hyperlex + Al
- More offices, new markets
- More partnerships, mergers and investment in the horizon
- ISO-27701 certified, SOC2 report, GRDP and PIPEDA compliance

Tech

- FE decoupled
- In the middle of a monumental migration
- Symfony and Drupal coexistence: Drupal still on the driver seat
- Product continuously raising the bar
- Need to accelerate the migration
- Must set an ecosystem capable of supporting our business plan





Adapt or perish

We are committed, but we must shift gears and support business.



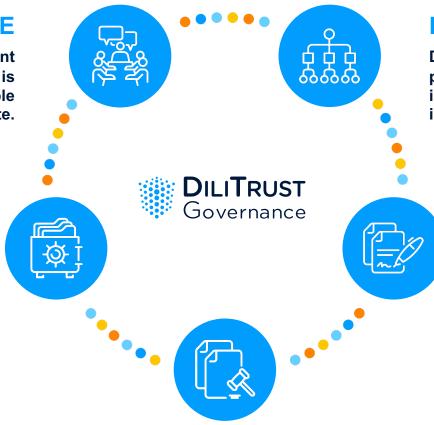
Our Products

ARTIFICIAL INTELLIGENCE

Contract management, document summary, meeting minutes and more. Al is implementing an array of APIs consumable by the Dilitrust suite.

SERVICES

DiliPass, DiliSign, BucketWrap and +



HEXAGONAL ARCHITECTURE

DDD framework with agnostic code written in pure PHP that relies on interfaces. Initial implementation of such agnostic code and interfaces is done in Symfony.

DRUPAL BRIDGE

A Symfony class that allows bootstrapping Drupal within Symfony. Abstract component implementation - interfaces. Thus, opening the door to what we now know as the MIKADO migration.

INDUSTRIALIZATION

The knowledge gathered during the early stages of the project, has led us to clearly identify the way to mass migrate – Generic layer with an accent on abstraction





