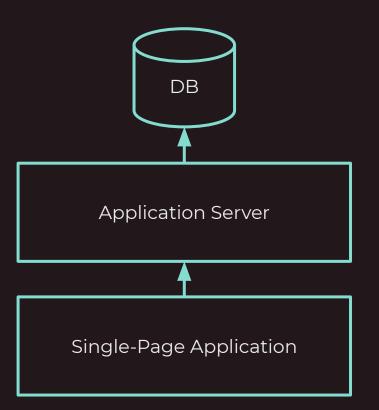
Scaling Your Project with **MICRO-FRONTENDS** @lucamezzalira



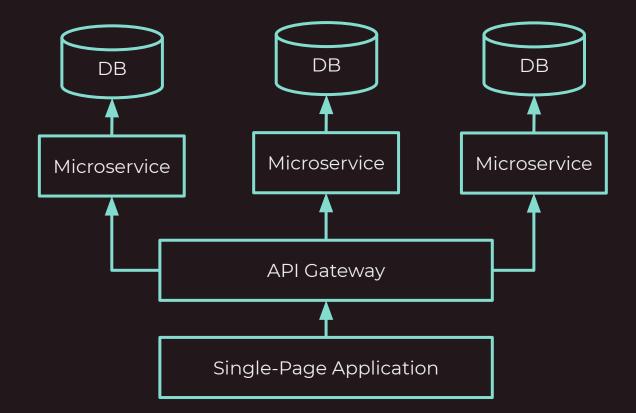
Luca Mezzalira

VP of Architecture at DAZN Google Developer Expert London JavaScript Community Manager

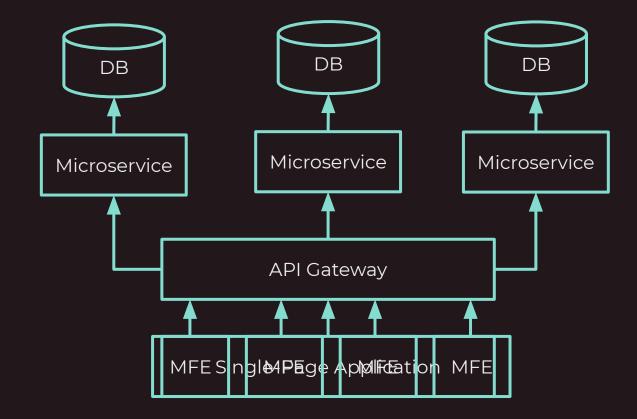
Architecture evolution



Architecture evolution



Architecture evolution



MICRO-FRONTENDS DEFINITION

Micro-frontends are the technical representation of a business subdomain, they allow independent implementations with the same or different technology choices. Finally they should avoid sharing logic with other subdomains and they are own by a single team

What is a micro-frontend?

Landing page Sign in Sing up Catalog Help Landing page

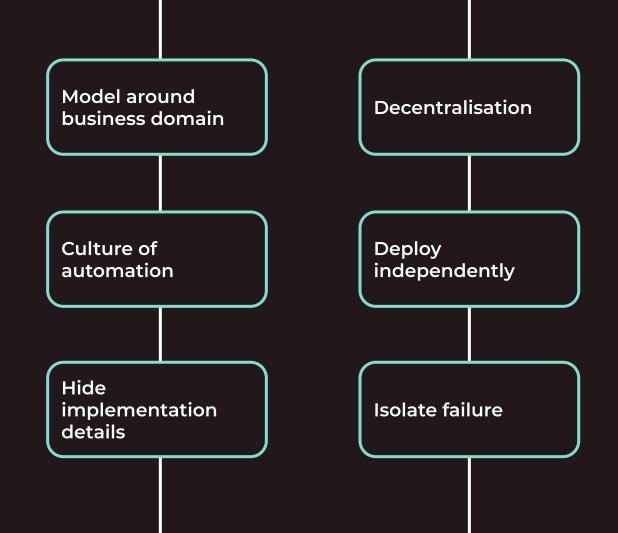
Sign in

Sign up

Catalog

Help

MICRO-FRONTENDS PRINCIPLES

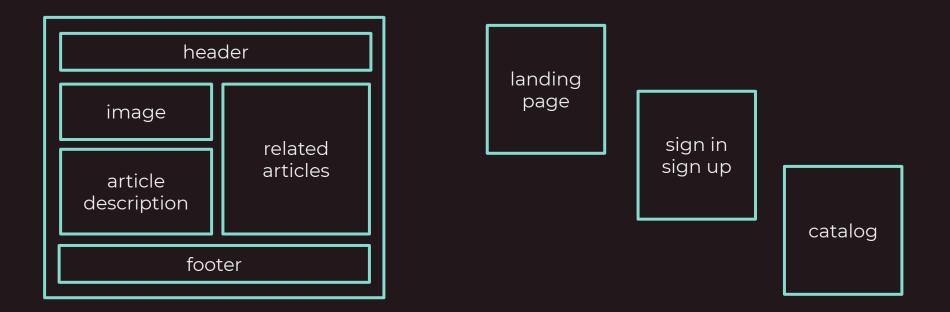


MICRO-FRONTENDS DECISIONS FRAMEWORK

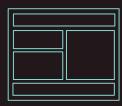
Key micro-frontends decisions

- 1. Define
- 2. Compose
- 3. Route
- 4. Communicate

Define a micro-frontends



Horizontal VS Vertical split



- 1. Up front investment
- 2. Teams structure
- 3. Great for SEO
- 4. Testing challenges
- 5. Scalability challenges
- 6. Dependency management

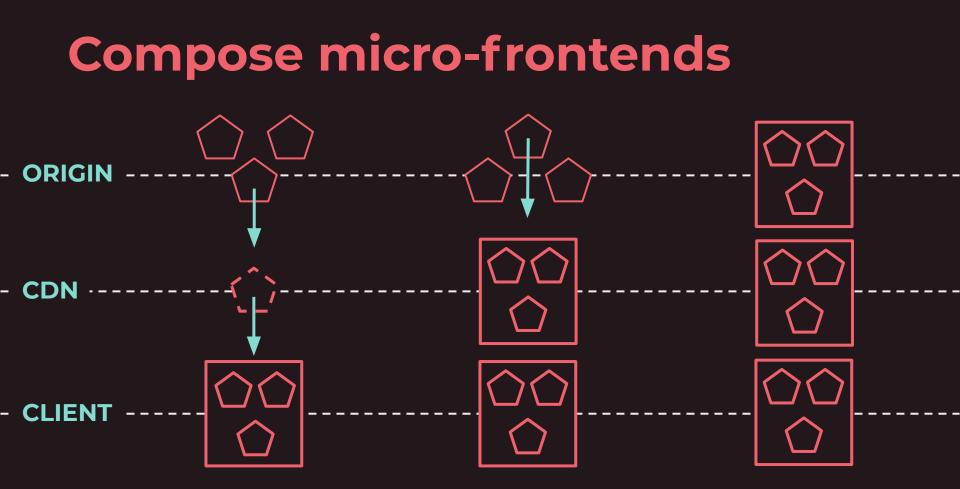


- 1. Traditional development
- 2. Embracing JavaScript

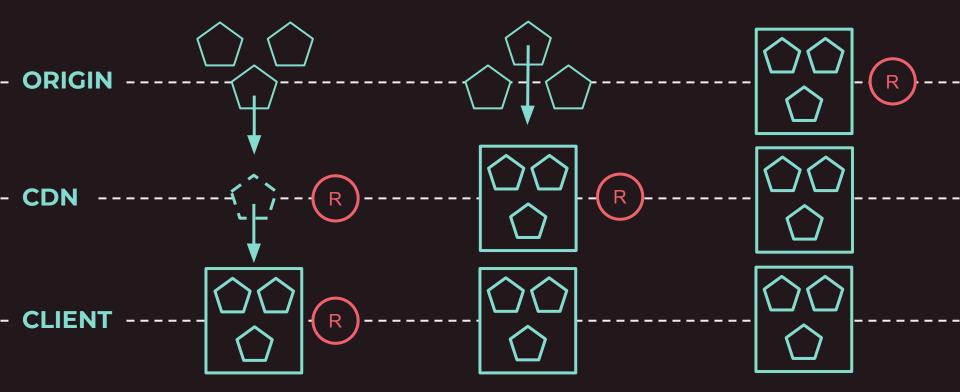
ecosystem

3. Dynamic Rendering for

SEO

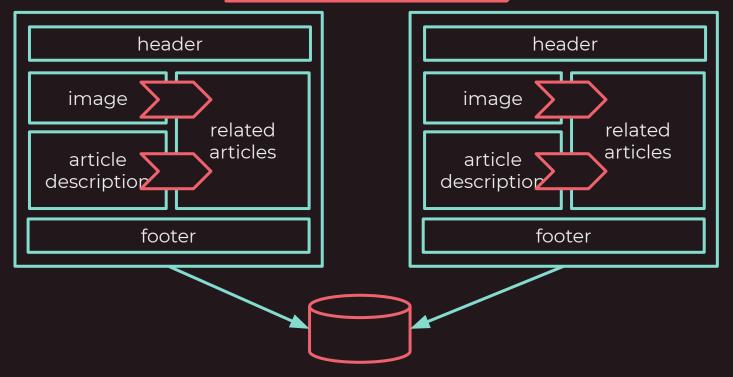


Route micro-frontends



Micro-frontends communication

mysite.com/section?id=123

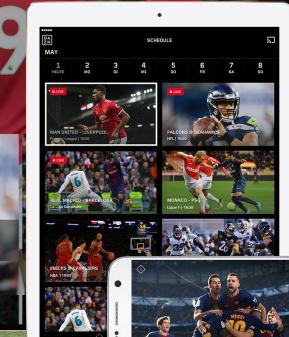


THERE IS NO RGHT OR WRONG **BUT ONLY** THE RIGHT APPROACH **BASED ON THE CONTEXT**

MICRO-FRONTENDS @DAZN

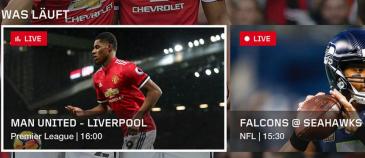


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Micro-Frontend @ DAZN



DAZN implementation

BOOTSTRAP

- 1. Application startup
- 2. I/O operations
- 3. Micro-Frontends lifecycle
- 4. Communication between

Micro-Frontends

DAZN implementation

- 1. A Micro-Frontend represents a business domain
- 2. A Micro-Frontend is autonomous
- 3. One Micro-Frontend loaded per time
- 4. No sharing between micro-frontends (*)
- 5. Technology agnostic

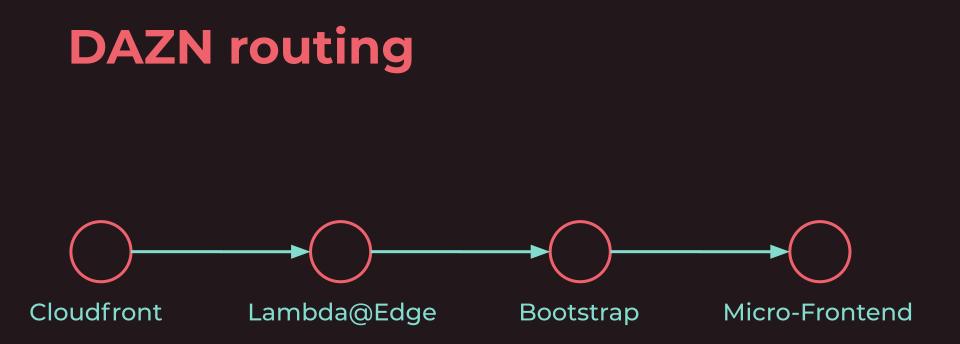
(*) with some exceptions

How bootstrap works

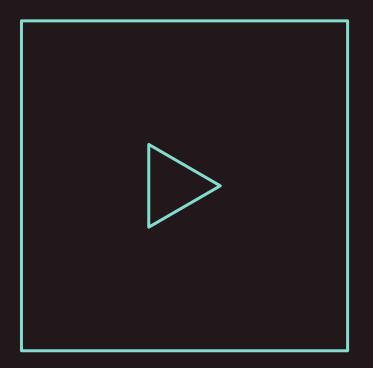


- 1. Call Startup service
- 2. Understand user status
- 3. Load and Mount a
 - **Micro-Frontend**

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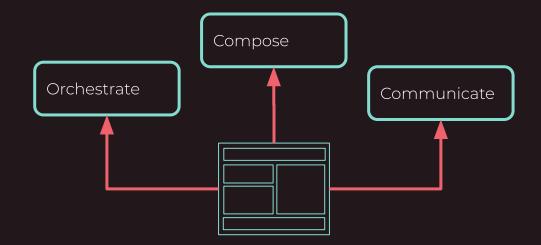


Components



- 1. Development time
 - integration
- 2. APIs first
- 3. Own by a single team

What we have learnt...





Useful links

Resources



bit.ly/386DNbx



bit.ly/2v79e70

buildingmicrofrontends.com

O'REILLY[®]

Building Micro-Frontends

Scaling Teams and Projects Empowering Developers





THANK YOU

t: **@lucamezzalira** w: **lucamezzalira.com** e: **mezzalab@gmail.com**