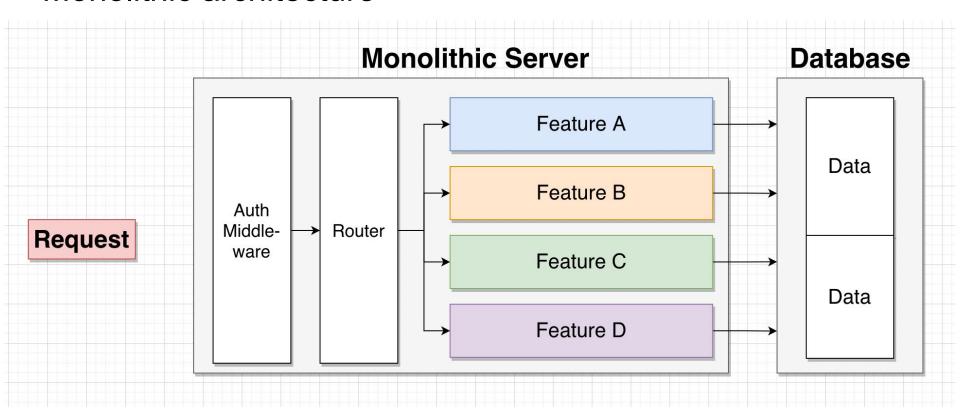
## Microservices

Yet another introduction

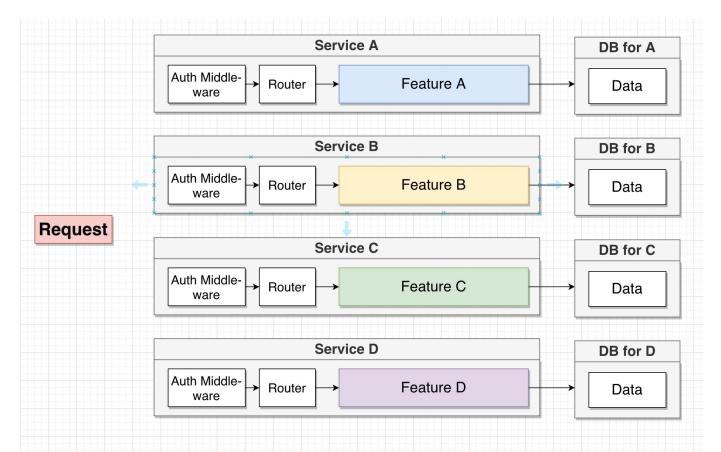
#### Timeline

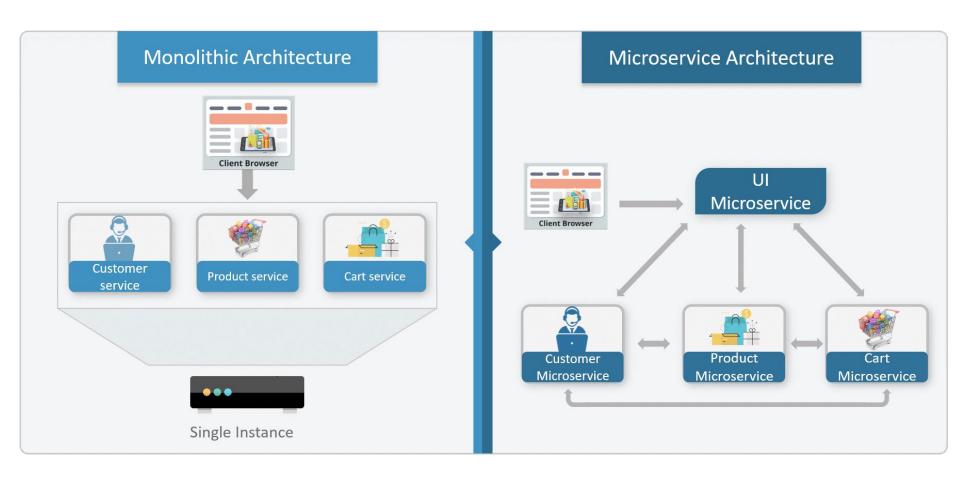
- Overview of Microservice architecture
- The first implementation of microservices application
- Pros and Cons of Microservice architecture

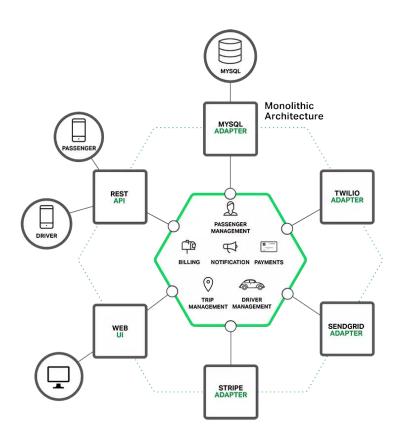
#### Monolithic architecture

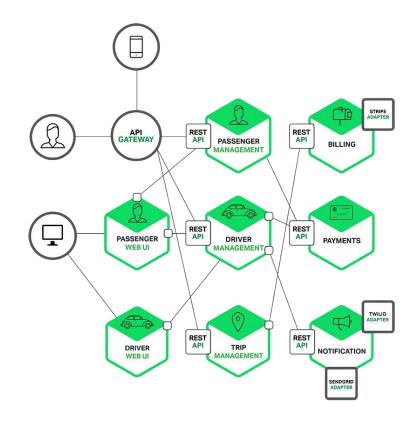


#### Microservices architecture





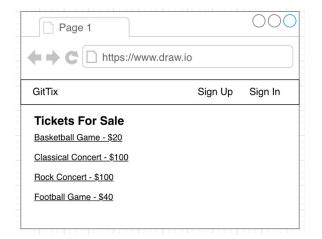


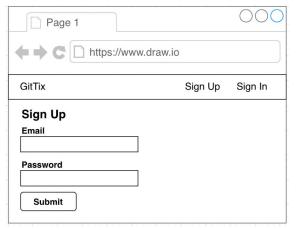


#### Timeline

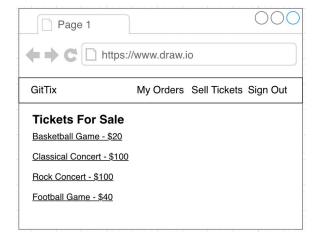
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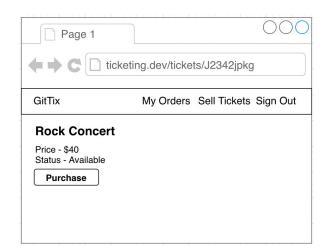
## Our first application

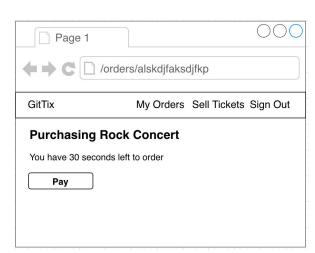




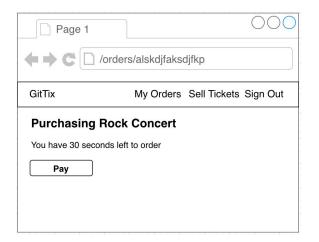


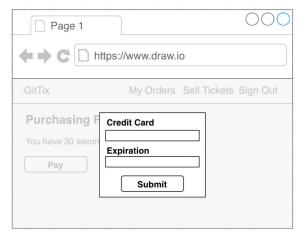


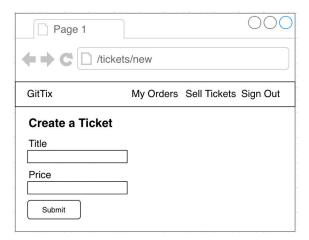


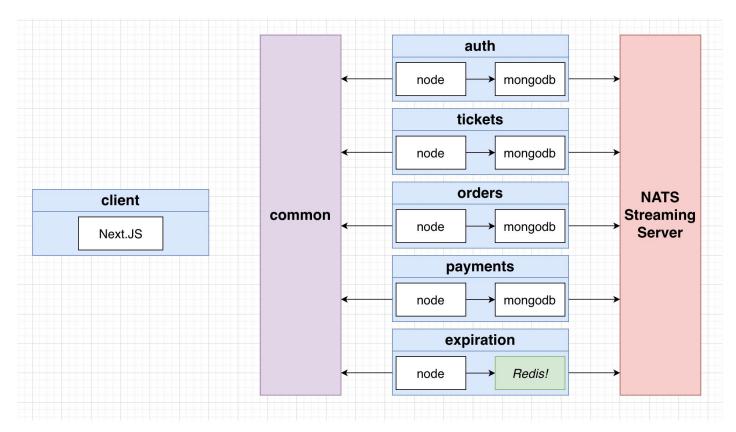


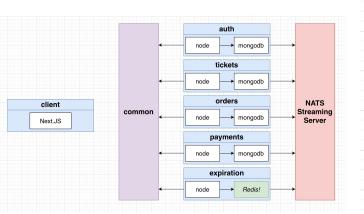
## Our first application

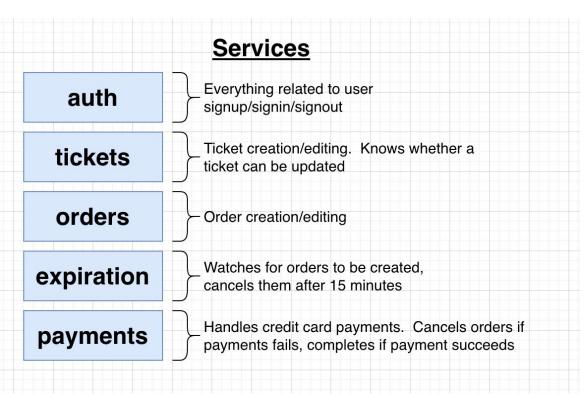


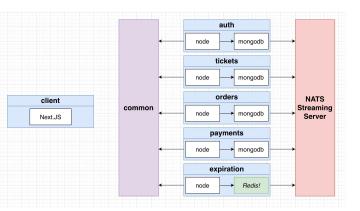


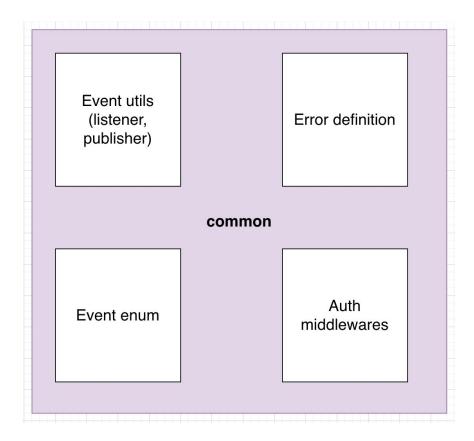


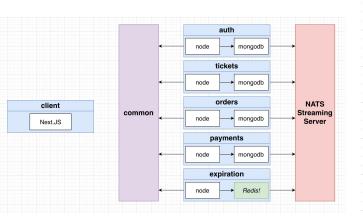


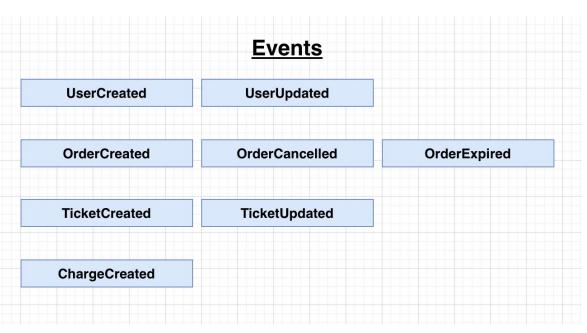


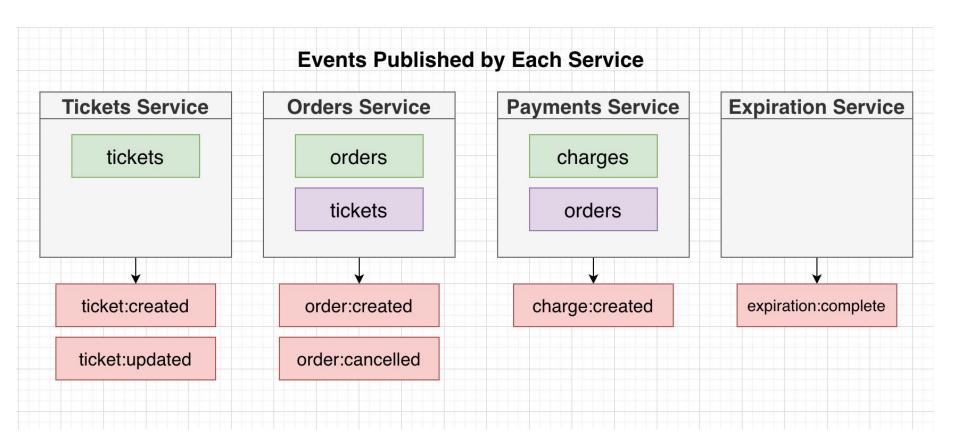


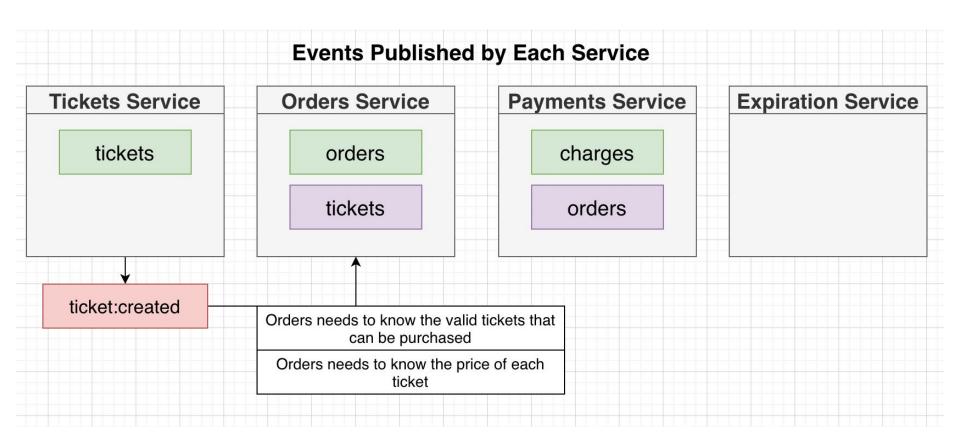


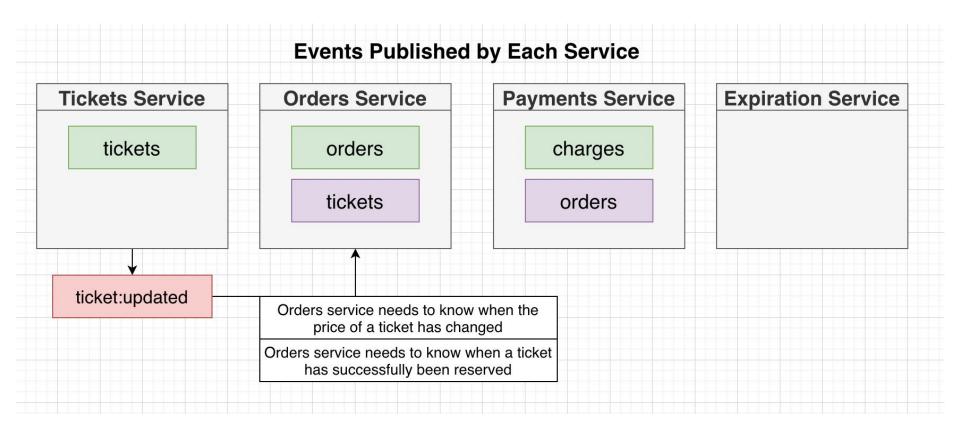


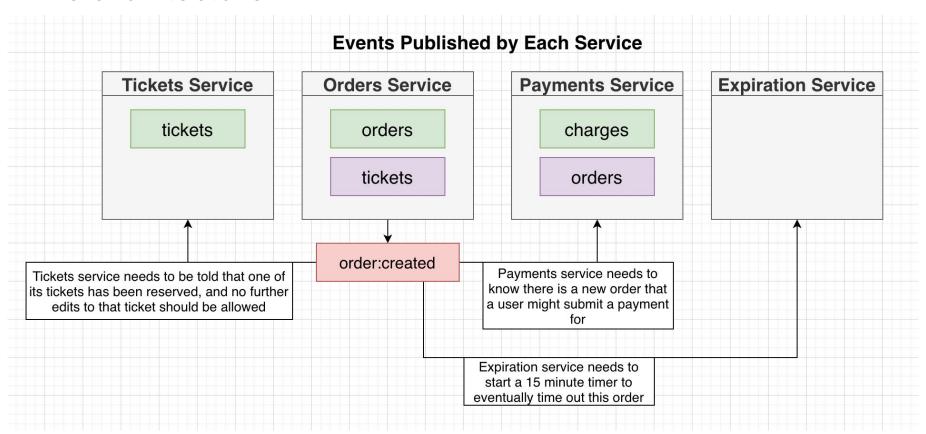


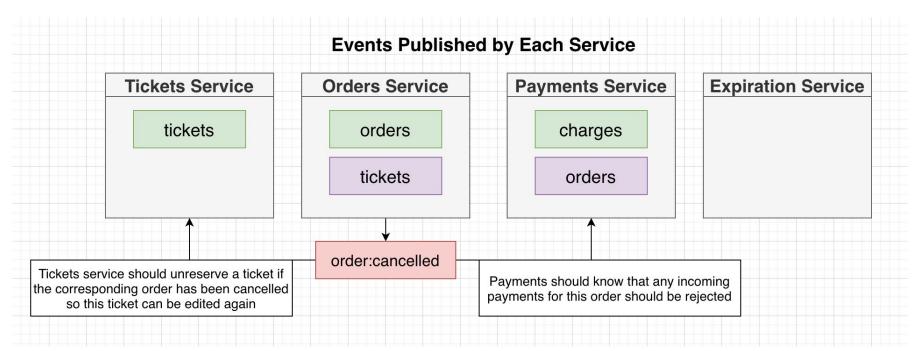


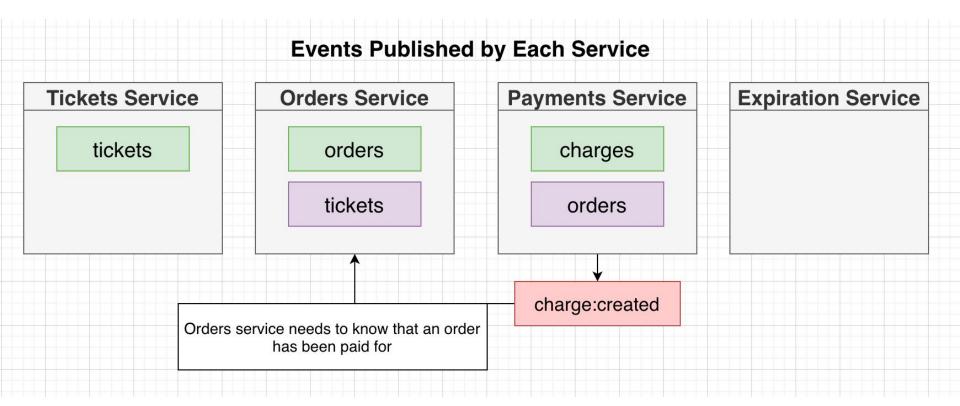


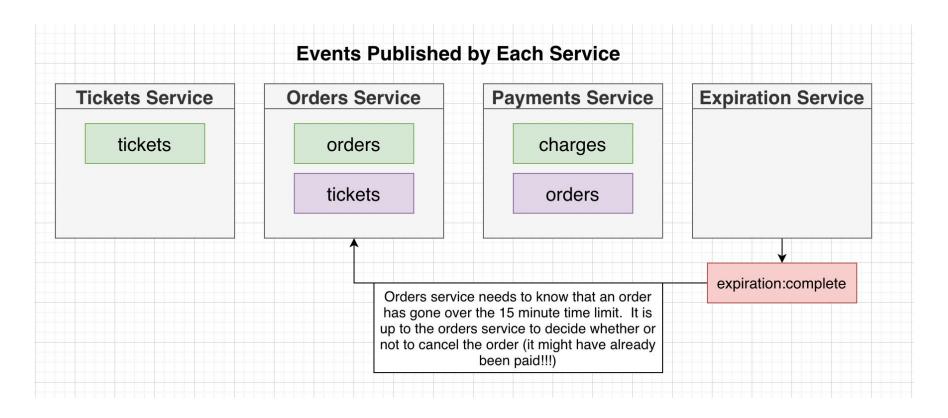












#### Timeline

- Overview of Microservice architecture
- The first implementation of microservices application
- Pros and Cons of Microservice architecture

## Strengths of the Microservice Architecture

- Independent components
- Easier understanding
- Better scalability

#### Weaknesses of the Microservice Architecture

- Extra complexity
- System distribution
- Cross-cutting concerns
- Testing and debugging

## Choosing a monolithic architecture

- Small team
- A simple application
- No microservices expertise
- Quick launch

## Choosing a microservices architecture

- Microservices expertise
- A complex and scalable application
- Enough engineering skills

## Decise your application architecture

- Microservices expertise
- A complex and scalable application
- Enough engineering skills

- Small team
- A simple application
- No microservices expertise
- Quick launch

## **Microservices**

**Monolith** 

#### Timeline

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#### Courses

#### Course #1 Mastering the art of Microservices Architecture

This crash course is a part of an 8 crash course series called ""Complete Guide To Creating Scalable Backend Infrastructures". The intro to complete series c...

https://www.youtube.com/playlist?list=PLZBNtT95PIW3BPNYF5pYOi4MJjg\_boXCG

# Mastering the art of Microservices Architectures

#### Microservices with Node JS and React

Build, deploy, and scale an E-Commerce app using Microservices built with Node, React, Docker and Kubernetes

in https://www.udemy.com/course/microservices-with-node-js-and-react/



#### **Articles**

#### Microservices vs Monolith: which architecture is the best choice for your business?

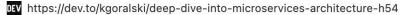
Having come into light just a few years ago, microservices are an accelerating trend these days. Indeed, microservices approach offers tangible benefits including an increase in scalability, flexibility, agility, and other

N https://www.n-ix.com/microservices-vs-monolith-which-architecture-best-choice-your-business/



#### So you want to learn Microservices?

Brace yourself, wall of text is coming. Microservices architecture is a never ending story. It took me a couple of years to collect so many resources about microservices. Now sharing the learning resources with you. Also





#### **Books**

#### **Building Event-Driven Microservices**

Organizations today often struggle to balance business requirements with ever-increasing volumes of data.

Additionally, the demand for leveraging large-scale, real-time data is growing rapidly among the most competitive

O' https://www.oreilly.com/library/view/building-event-driven-microservices/9781492057888/



#### **Websites**

#### What are microservices?

Microservices – also known as the microservice architecture – is an architectural style that structures an application as a collection of loosely coupled services, which implement business capabilities. The microservice https://microservices.io



#### InfoQ: Software Development News, Trends & Best Practices

Helping dev teams adopt new technologies and practices. Written by software engineers. Read by over 1.5 million developers worldwide.





#### DZone: Programming & DevOps news, tutorials & tools

Programming, Web Development, and DevOps news, tutorials and tools for beginners to experts. Hundreds of free publications, over 1M members, totally free.





#### References

- Udemy Stephen Grider Microservices with Node JS and React
- <u>nx.com</u> Romana Gnatyk Microservices vs Monolith: which architecture is the best choice for your business?