

The Beauty of Event Sourcing



Correlation between Play and Survival



Foto: <https://www.pexels.com/photo/brown-bears-playing-in-the-snow-20853939>
Study: <https://d14kfxvbwqc5jb.cloudfront.net/docs/documents/pdf/Fagen-and-Fagen-2009.pdf>

Who am I?



Polyglot Programmer

Founder of Ursa Agilis Consulting

Enthusiastic about
Extreme Programming
Lean Software Development
Systems Thinking



Ursa Agilis

What is Event Sourcing?



Place-Oriented Persistence Strategy

Appointments			
id	start	length	status
1	08:00	15	confirmed
2	09:00	60	pending

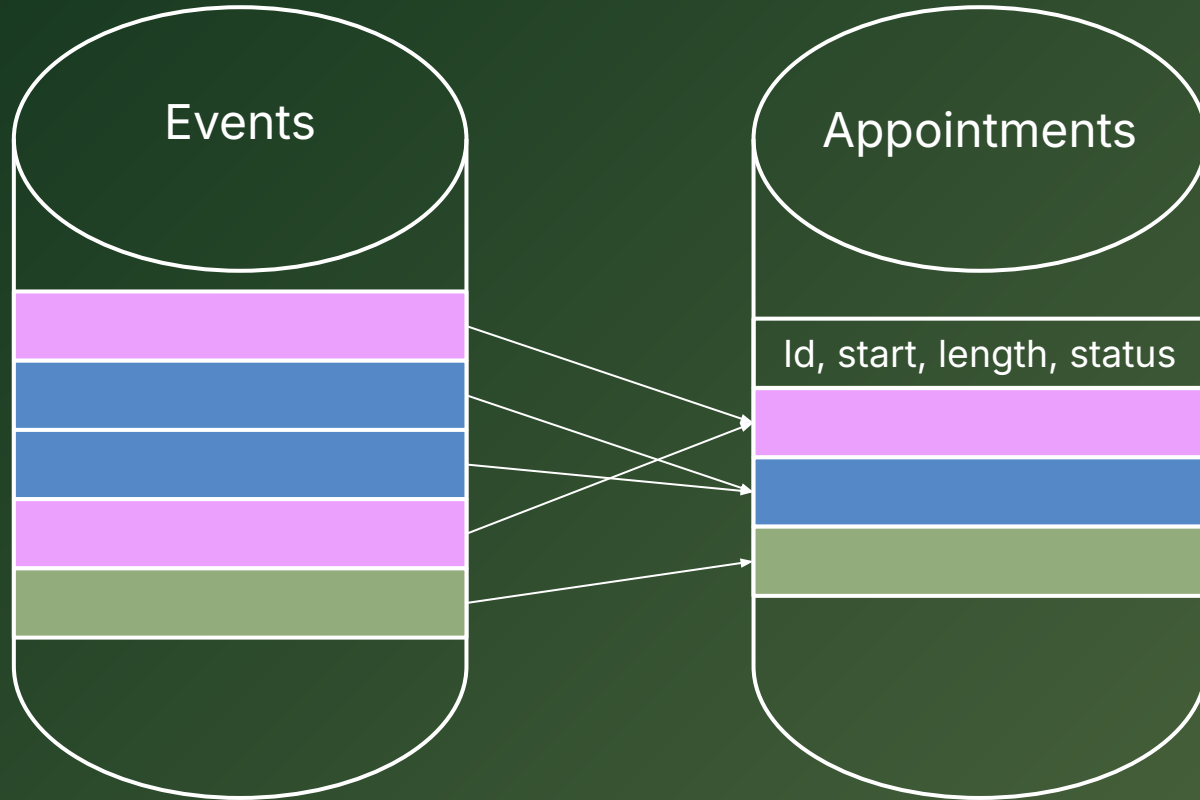


Event Sourcing

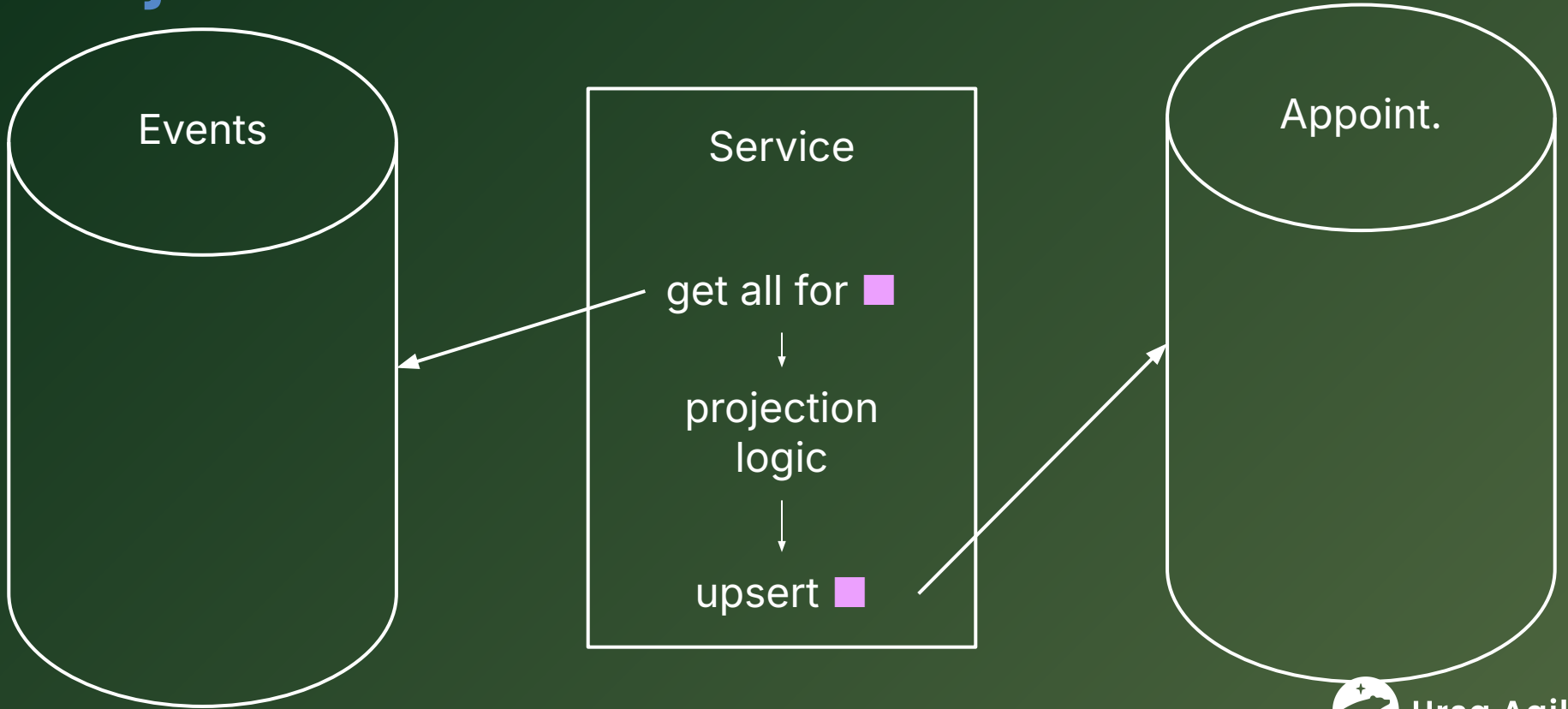
Appointment Events			
id	stream-id	type	payload
1	1	created	{ start, length }
2	2	created	{ start, length }
3	1	confirmed	{ }
4	2	extended	{ length }



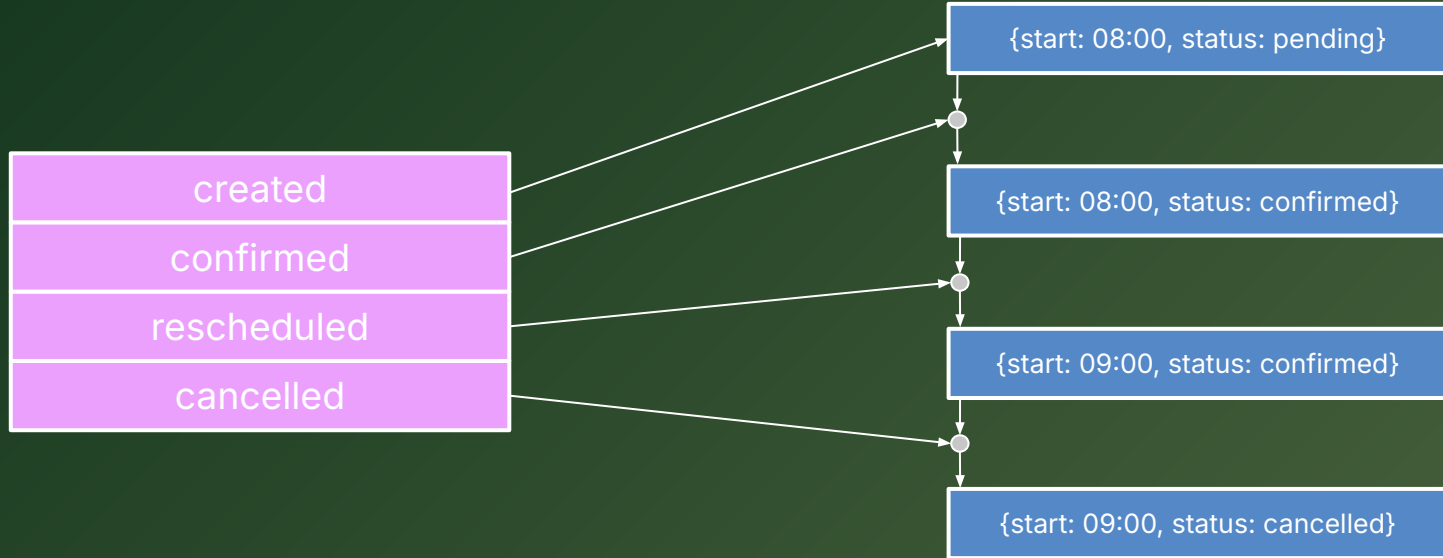
Project



Project



Projection Logic



The Benefits

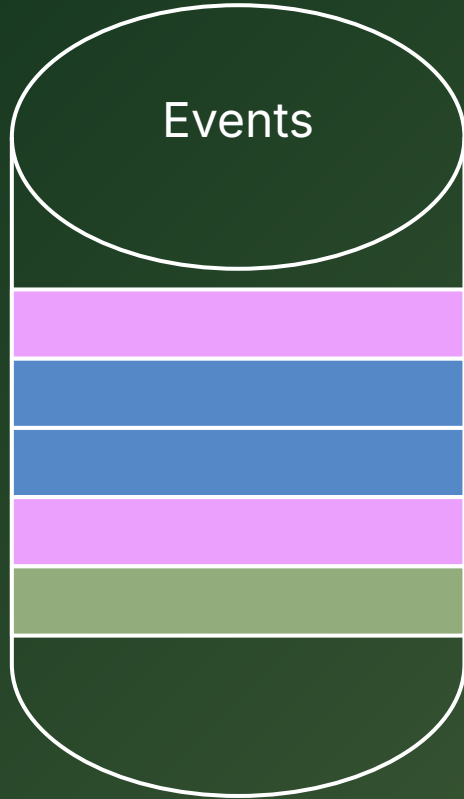


Auditing, Debugging, Business Analytics

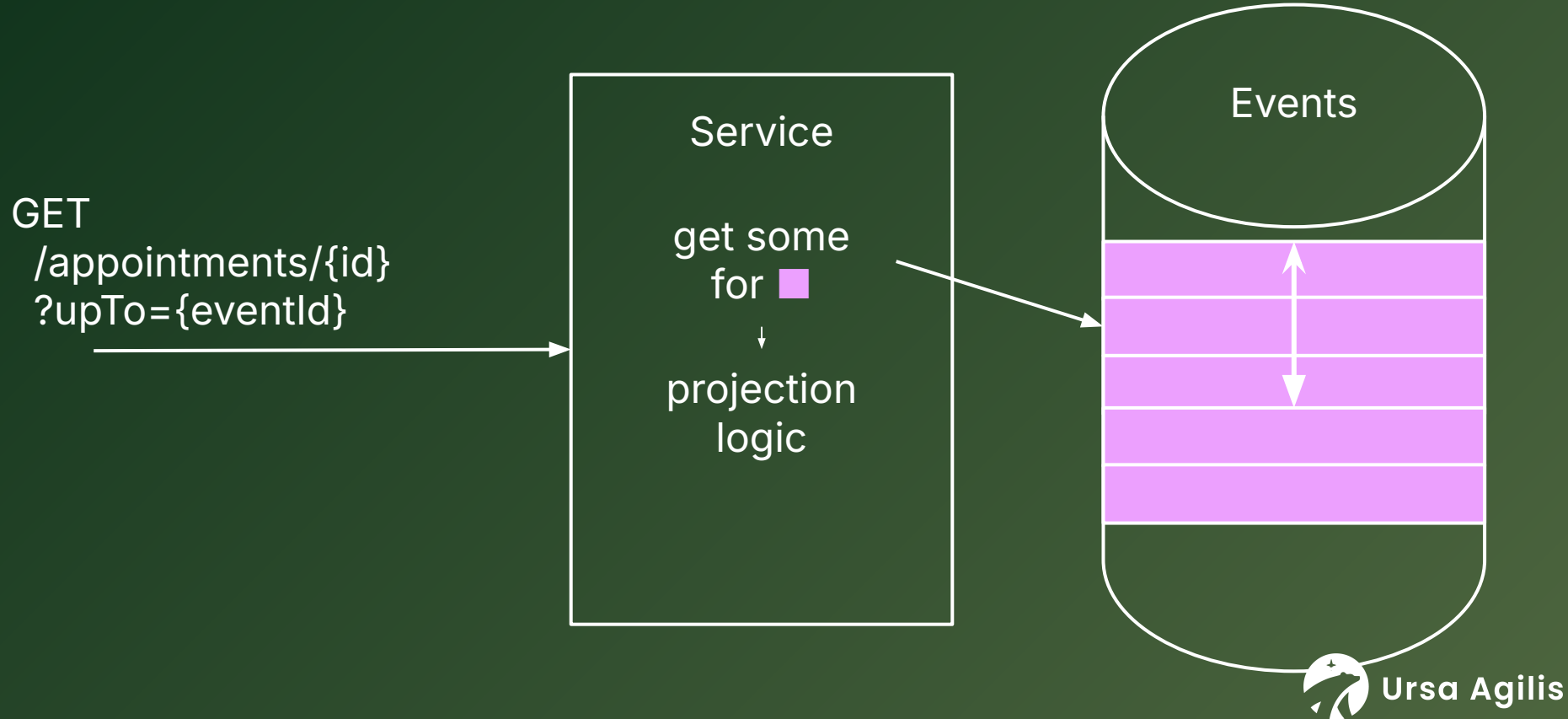
Appointment Events			
id	stream-id	type	payload
1	1	created	{ start, length }
2	2	created	{ start, length }
3	1	confirmed	{ }
4	2	extended	{ length }



Reproject & Multi-Projections



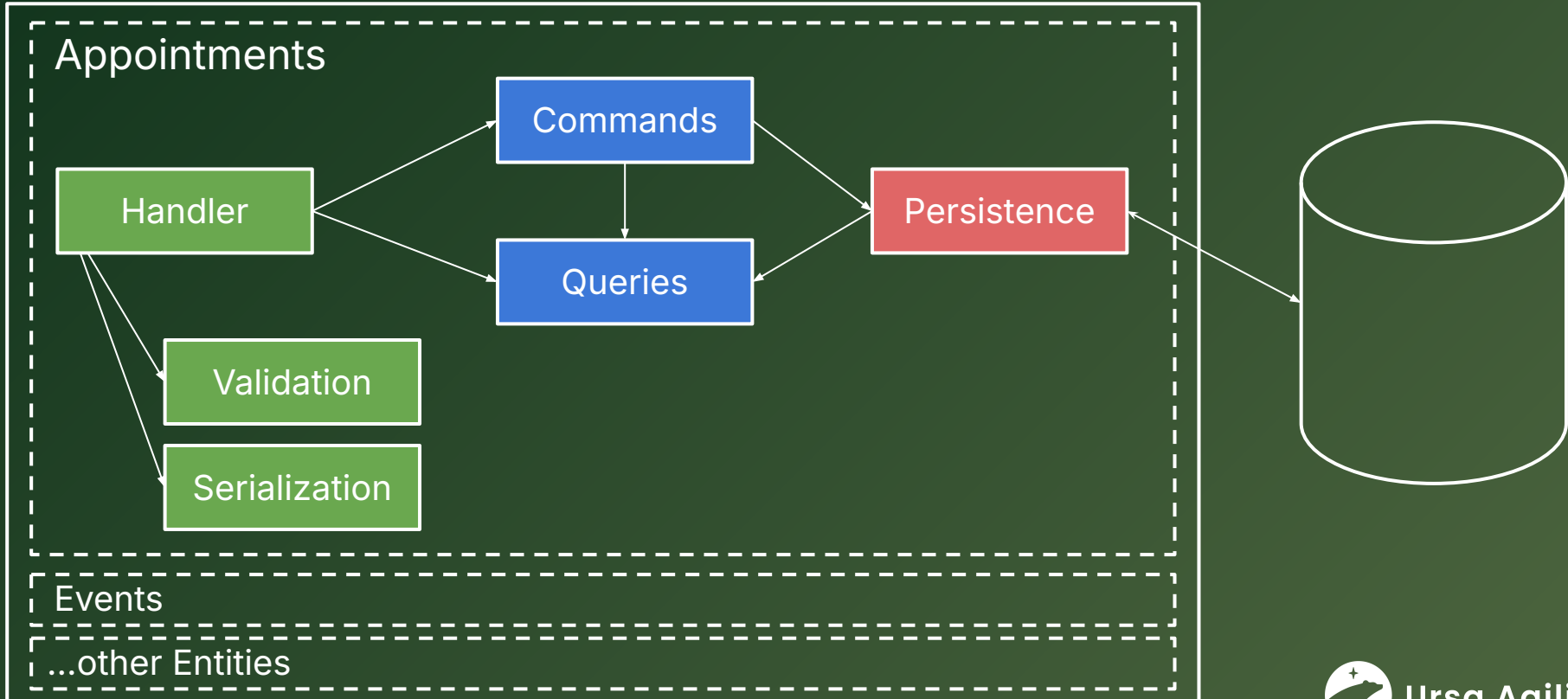
Timewalking



Simple Implementation



Simple Implementation



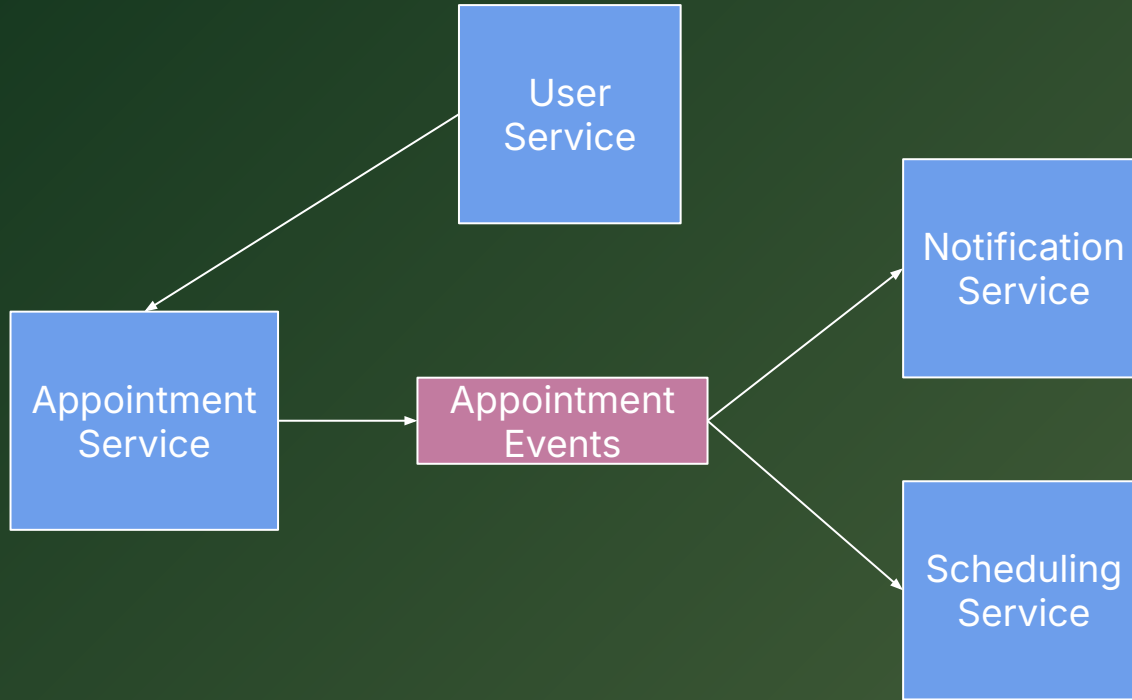
The Beauty of Event Sourcing?



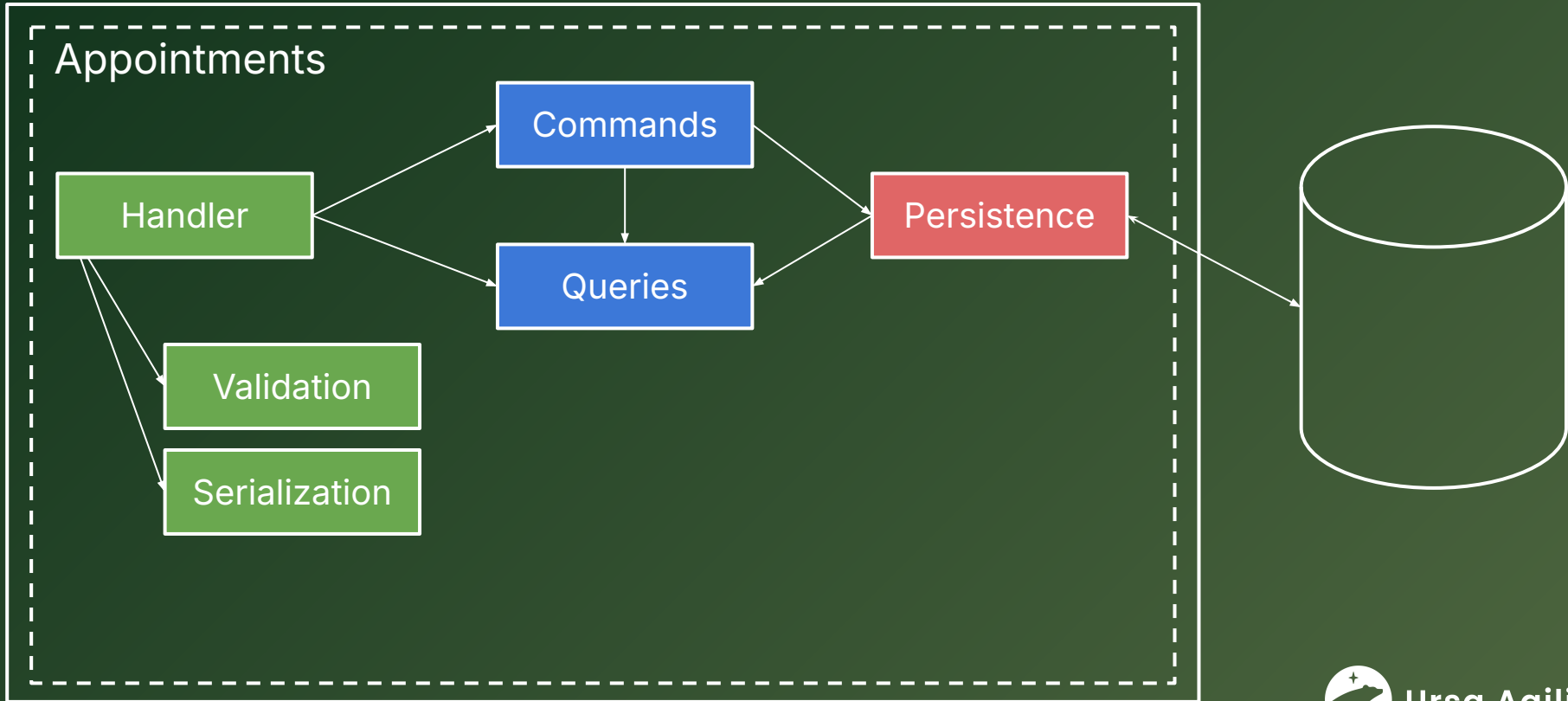
Event Sourcing & Distributed Systems



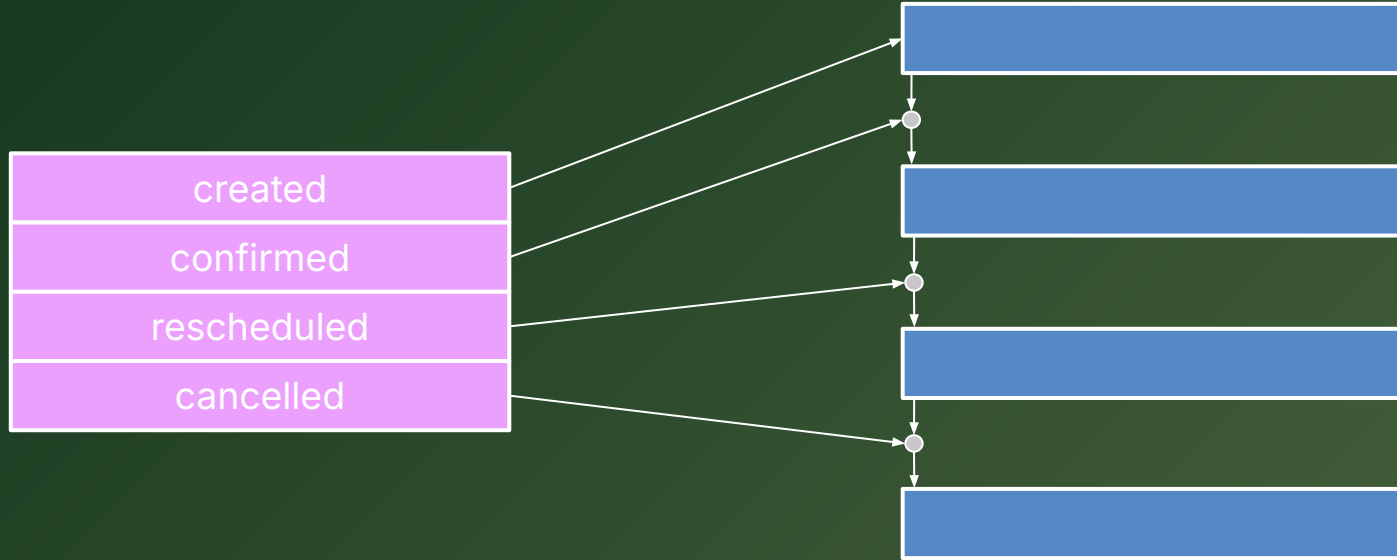
Distributed Systems



Inside a Service



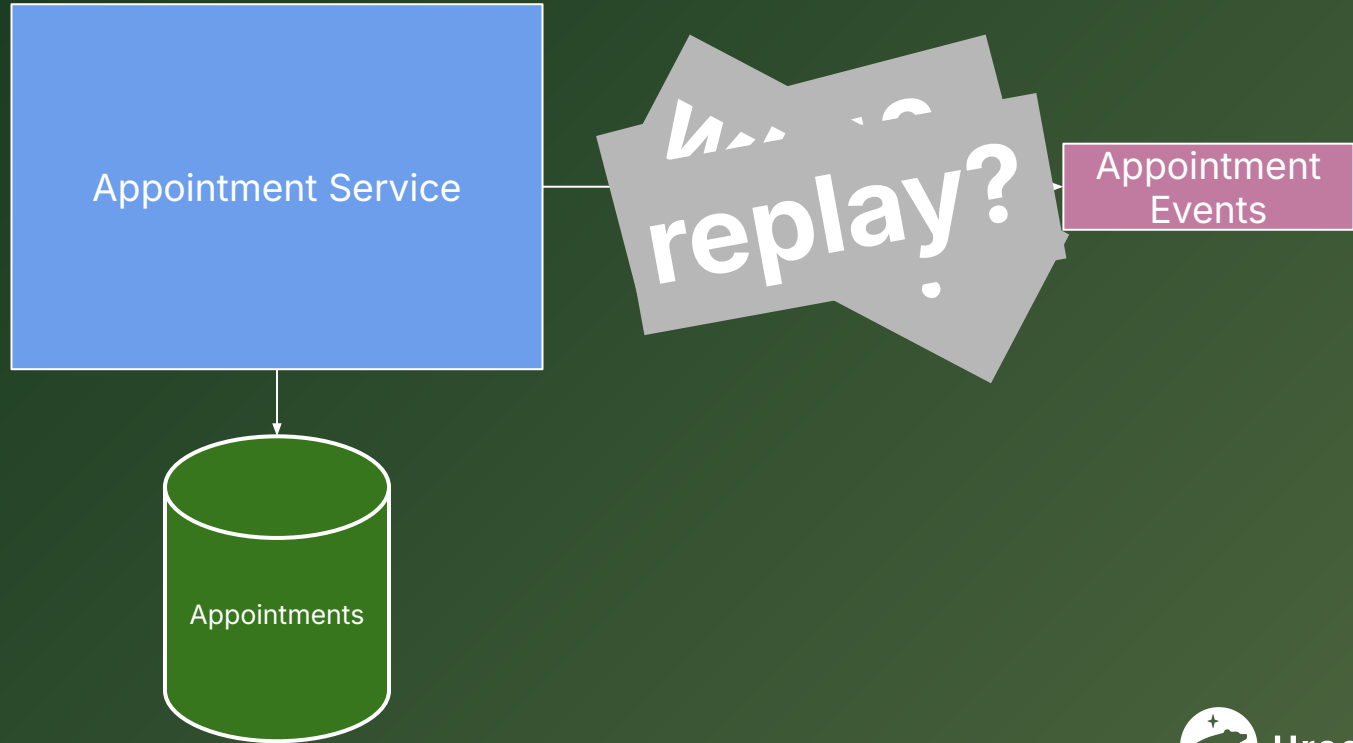
Functional Persistence



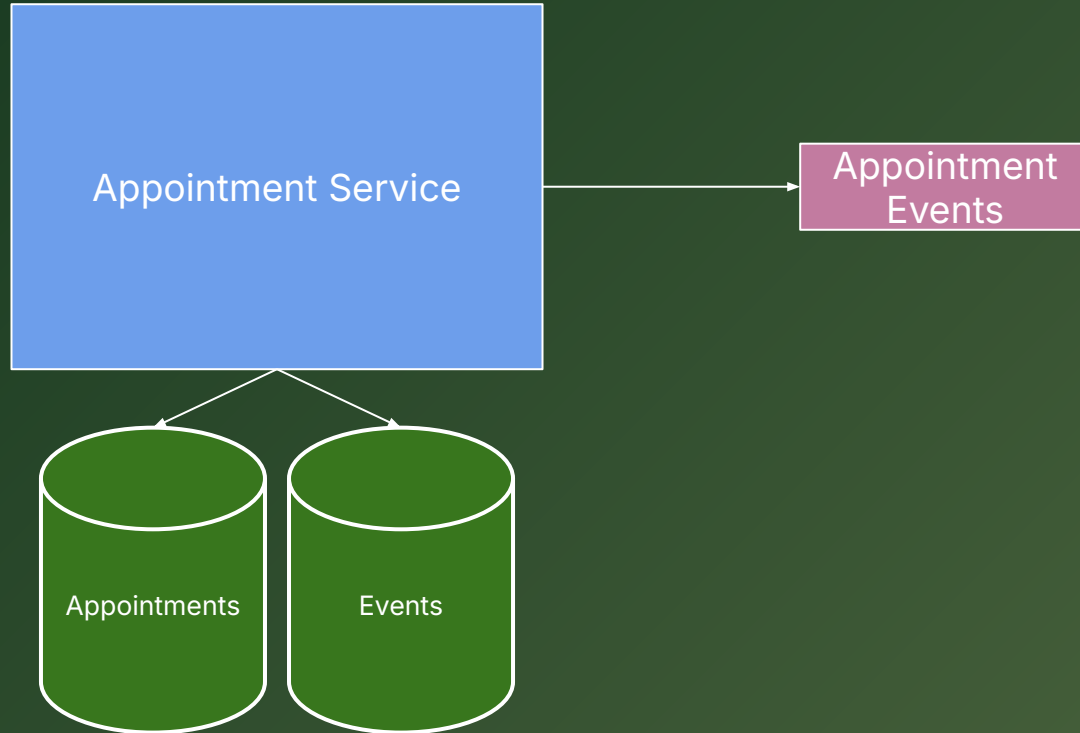
Event Sourcing & Messaging



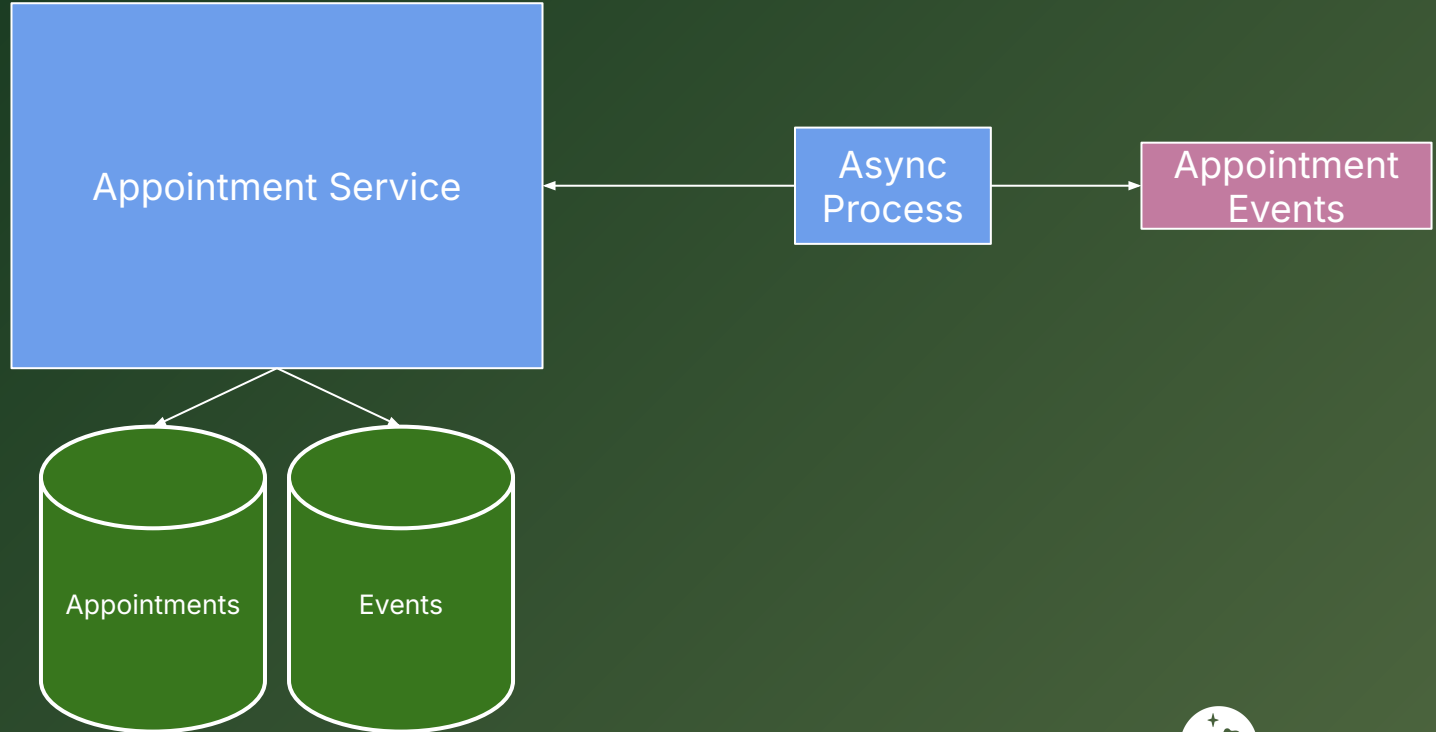
Naive Messaging



Better Messaging



Even Better Messaging



Event Sourcing & DDD



DDD & EventStorming



DDD & EventStorming



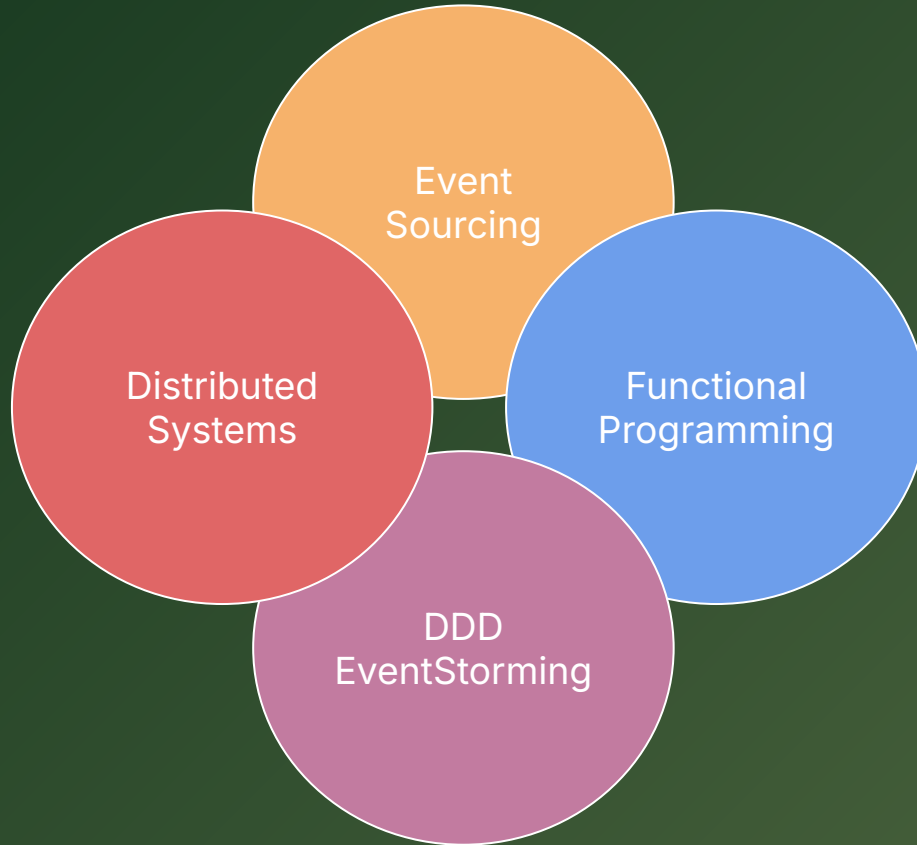
Appointment
confirmed

- Orange Sticky Note
- Verb in past tense
- Relevant to Domain Experts

The Beauty of Event Sourcing!



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Questions?

Ursa Agilis

ursaagilis.com  

Hands-On Consulting

In-House & Remote Workshops

Chat to me about *free*
workshops



Ursa Agilis