



Dimostrami che usi
Azure ServiceBus senza
dirmi che usi Azure
ServiceBus

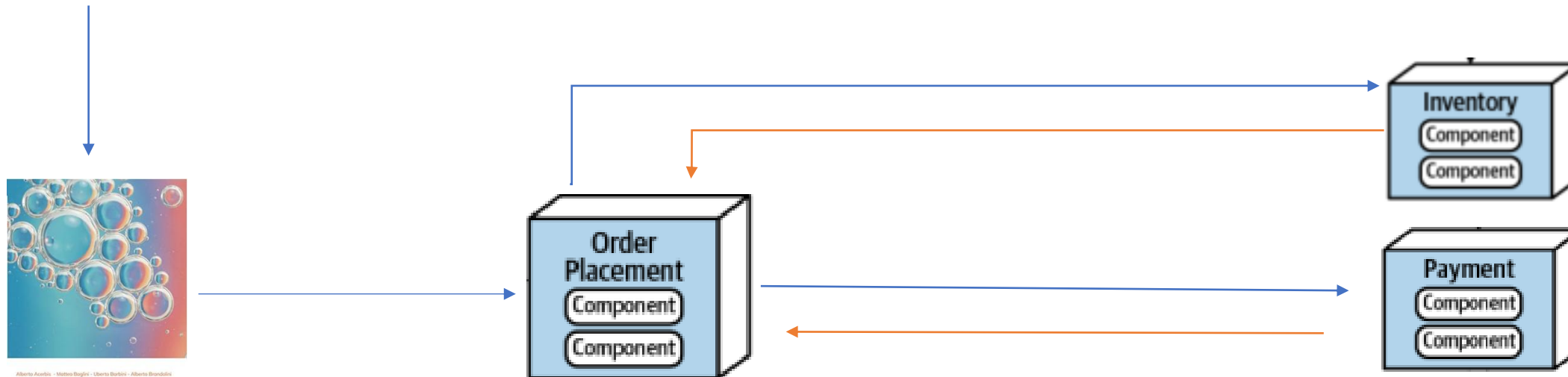
Alberto Acerbis

INTR3

Sponsor

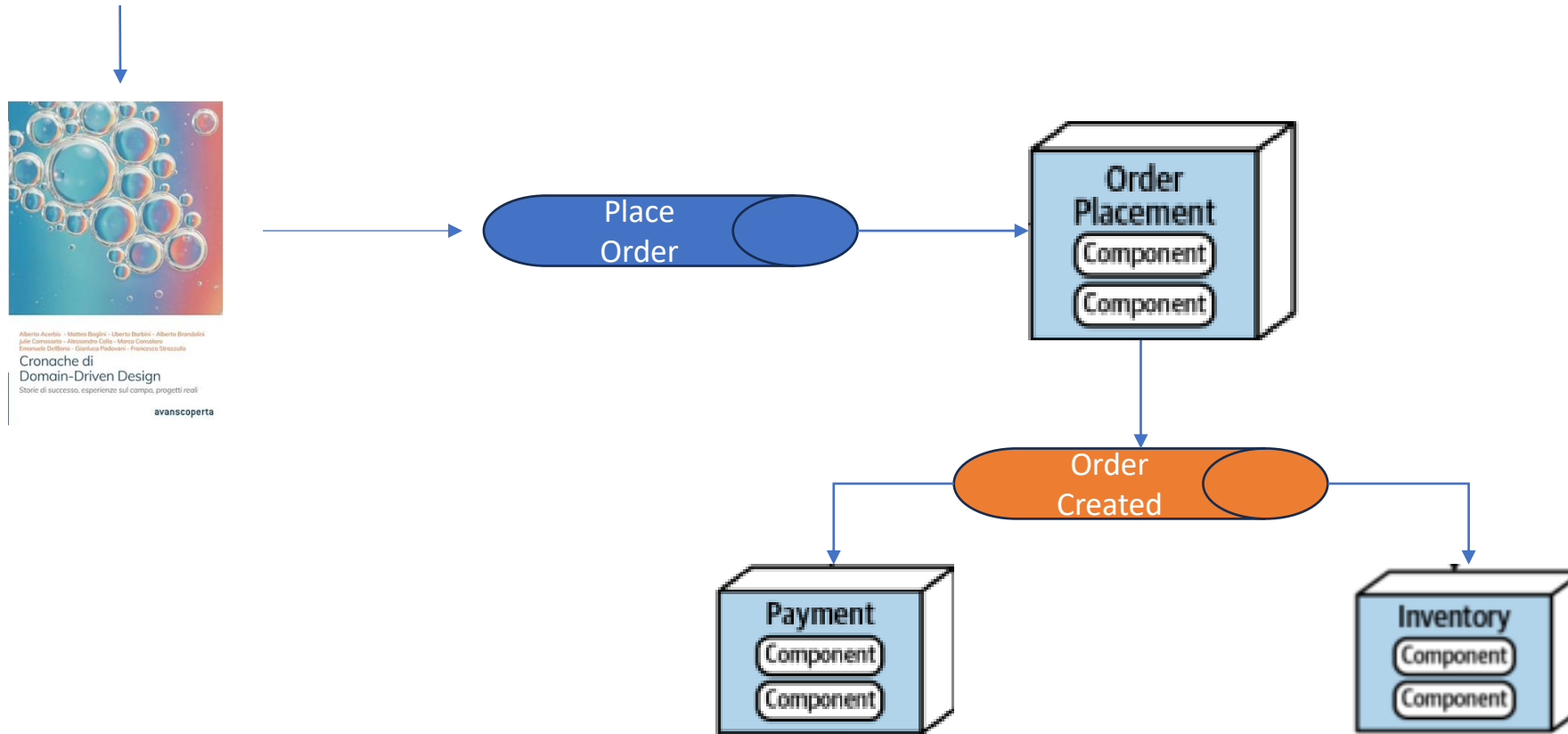


API Gateway



Coupling Index = 5

API Gateway



Coupling Index = 0



Everything is a
trade-off

Why is most
important than how!

Make architecture decisions

Keep current with latest trends

Continually analyze the architecture

Ensure compliance decisions



Make
architecture
decisions

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Azure Service Bus

Managing Connection Lifetime





DEMO

Google Knows Everything

I don't Know!

It depends ...

Google

🔍 should I use queues or topics for sales orders process?



Google is Old ... Ask to ChatGPT!



should I use queues or topics for sales orders process?

Conclusion:



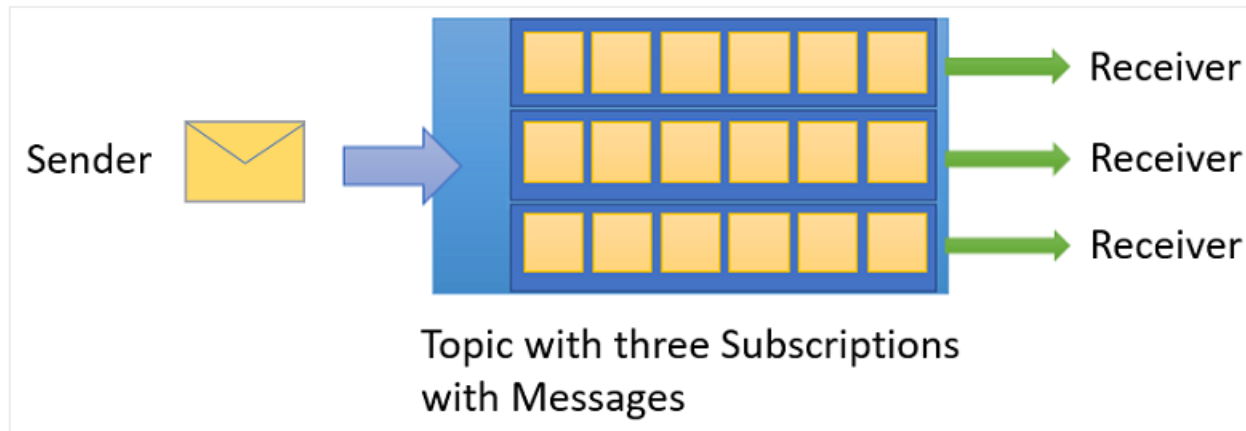
- If you only have one service or component handling the sales order, **queues** are sufficient.
- If multiple services need to handle different aspects of the sales order process (e.g., inventory, billing, shipping), **topics** are the better choice to broadcast the event to all relevant services.

For most **sales order processes** in a complex microservices architecture, **topics** are likely the better fit because multiple services will need to react to the same sales order.

Queues vs Topics

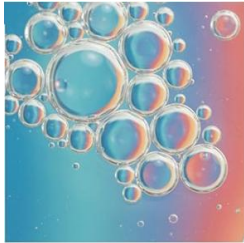


- Producer - Consumer
- First In, First Out
- One message consumer receives and process each message

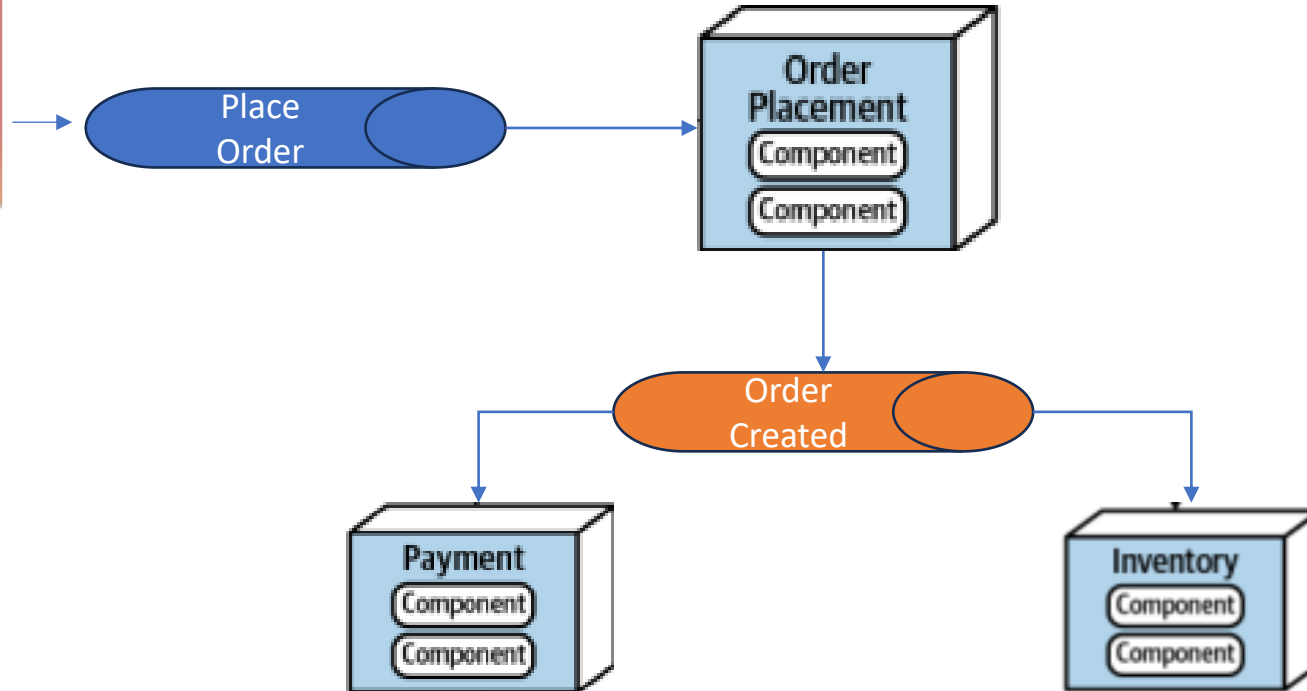


- Publisher - Subscriber
- One to many
- Each published message is made available to each subscription registered with the topic

Trade-offs in Event-Driven Architectures



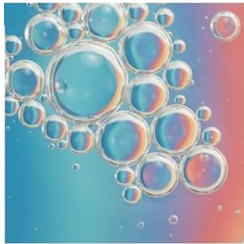
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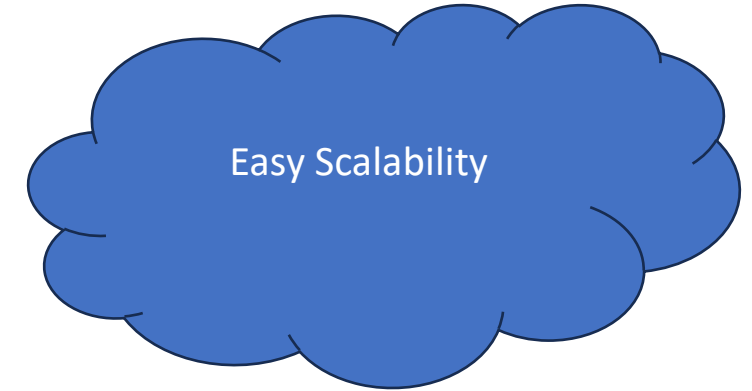
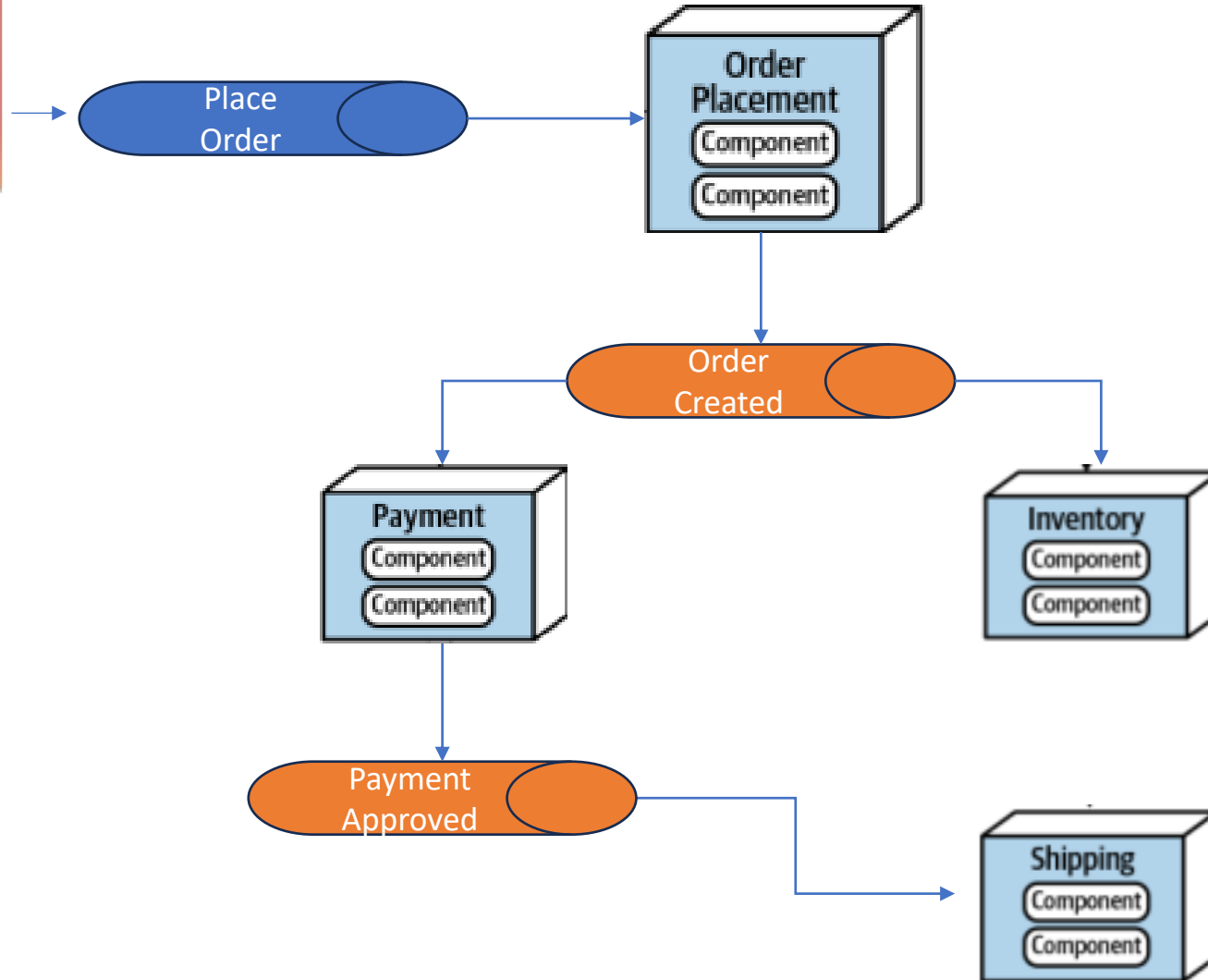
Should the event payload include all of the data necessary for processing, or only keys?

Should I use Queues or Topics?

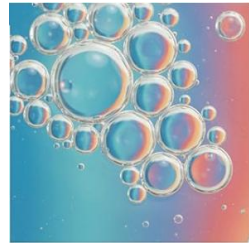
Event-Driven Architectures : Scalability



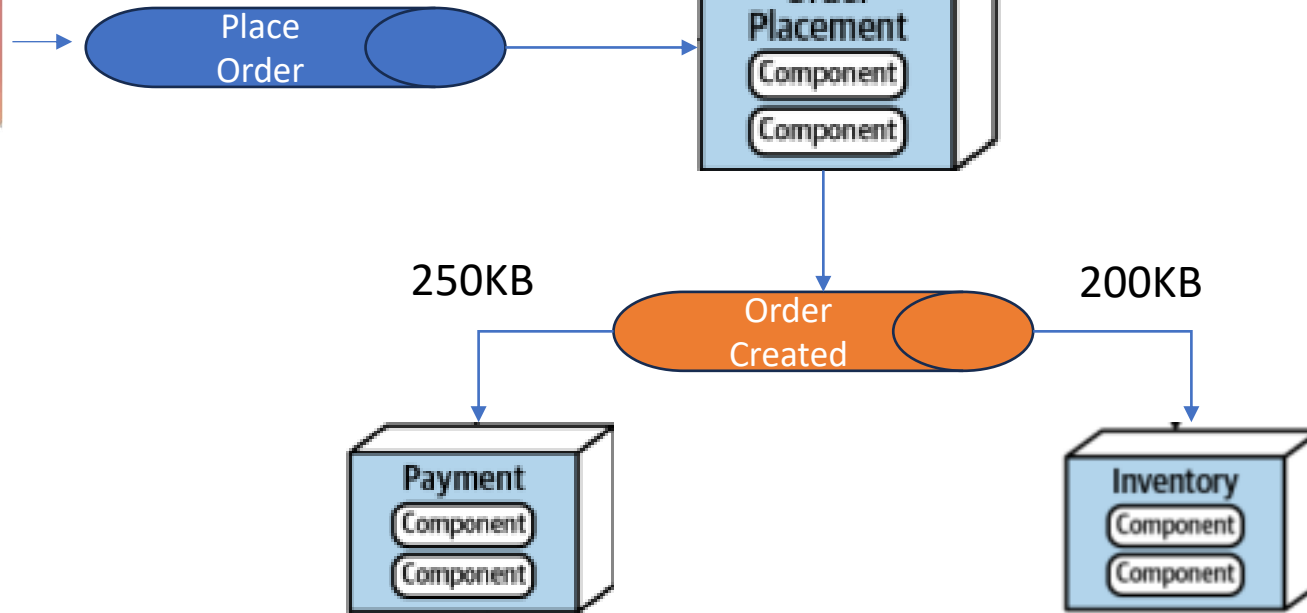
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Event-Driven Architectures – Messages Size



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256 KB
Standard tier

100 MB
Premium tier

Keep current
with latest
trends

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.NET Aspire

**A cloud ready stack for building observable,
production ready, distributed applications**



DEMO

Continually
analyze the
architecture

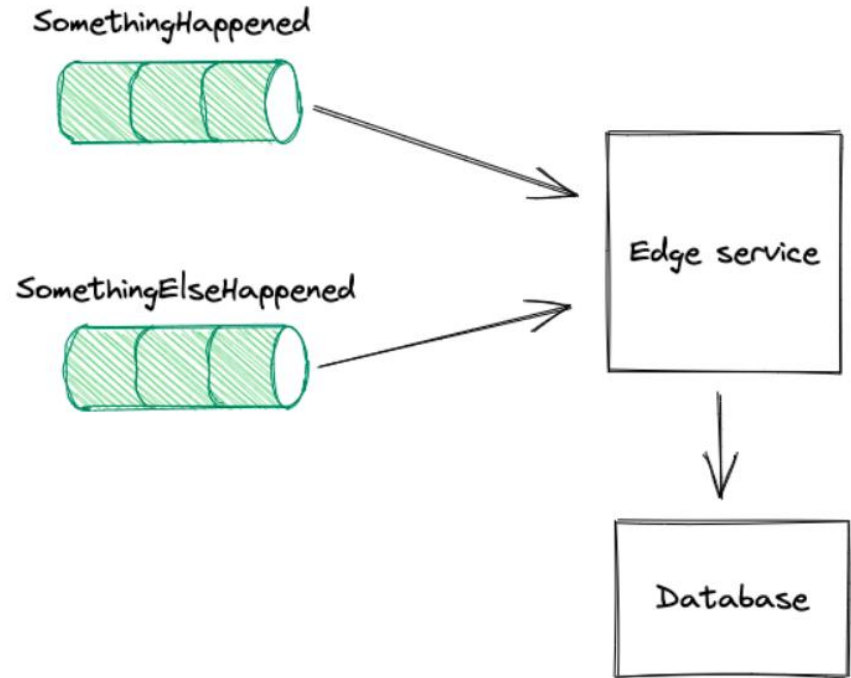
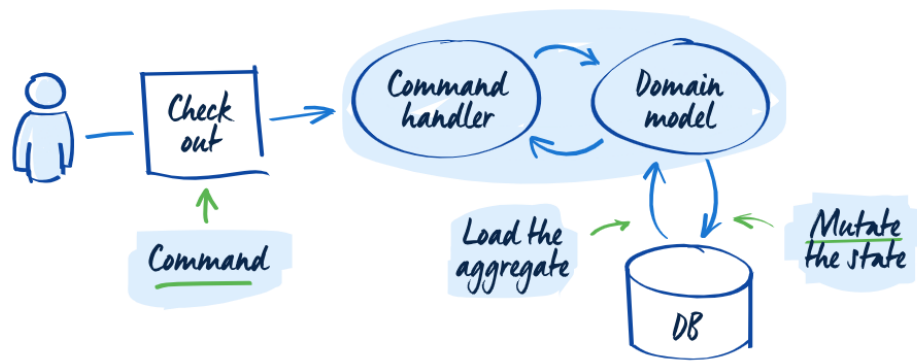
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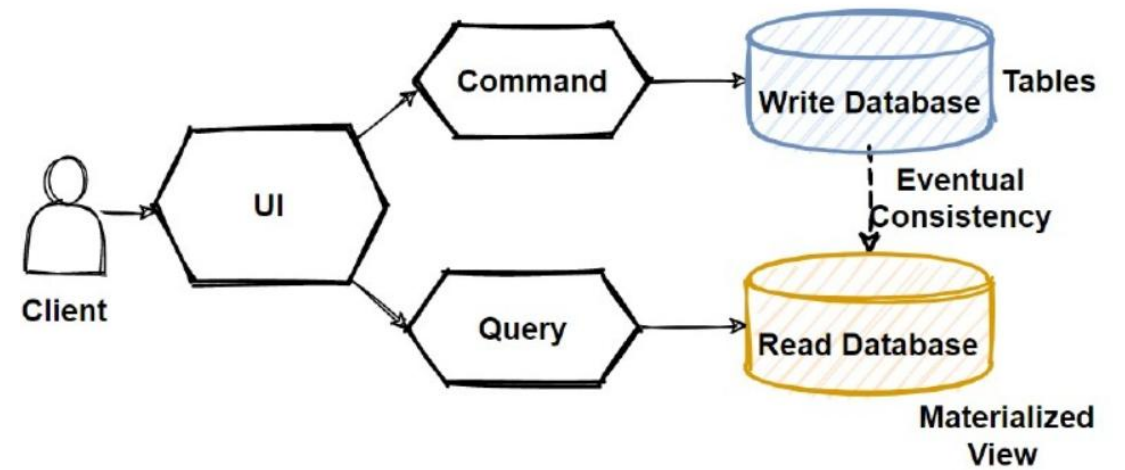
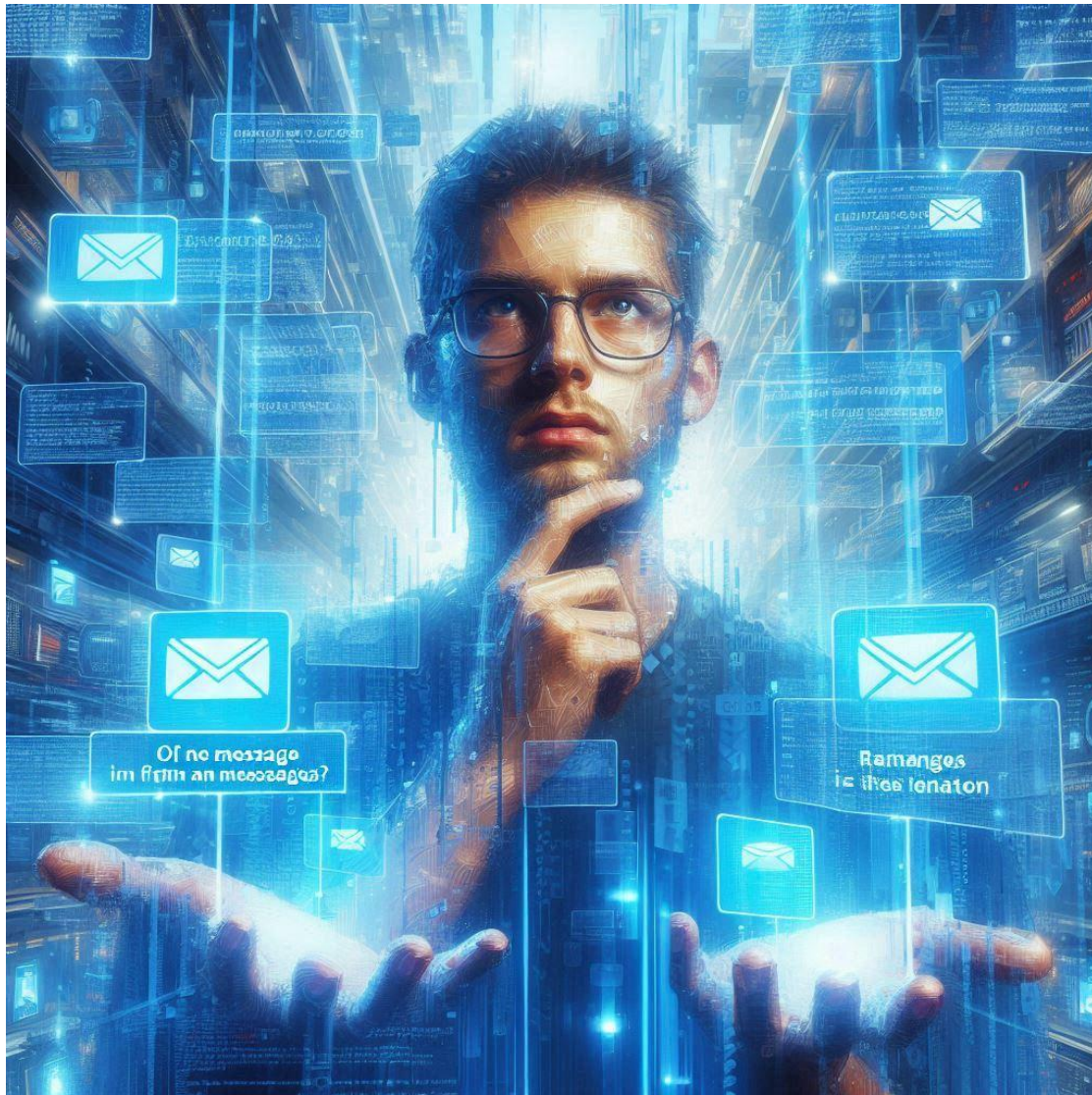


Send a message
changing the status

Publish a message
informing that the status
has changed





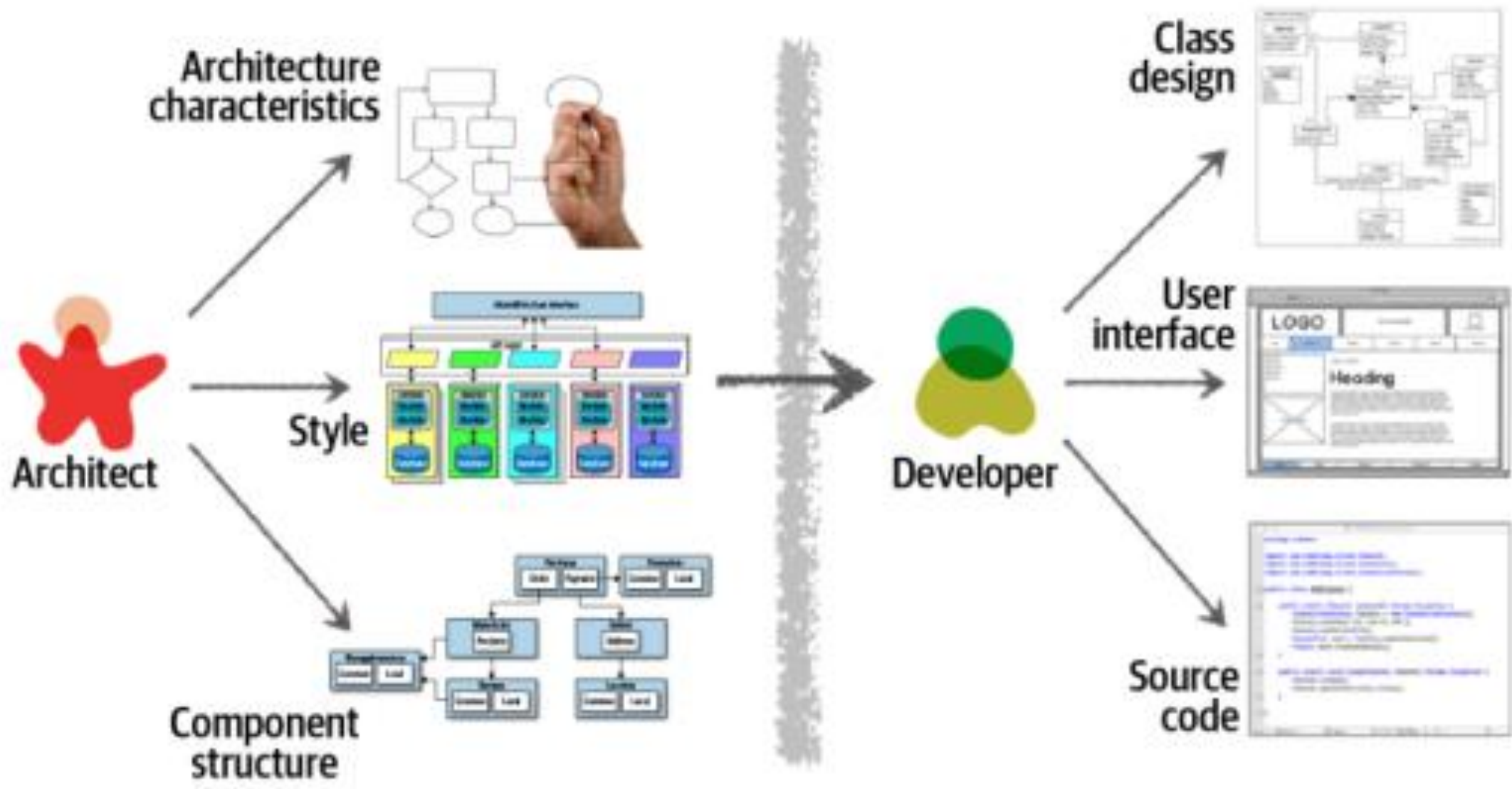




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Ensure
compliance with
decisions









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Grazie!



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- <https://github.com/BrewUp/BrewUpAspire>



- [Alberto Acerbis | LinkedIn](#)