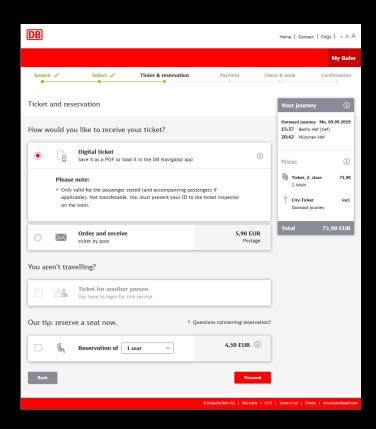
Automating Processes in Modern Hipster Architectures

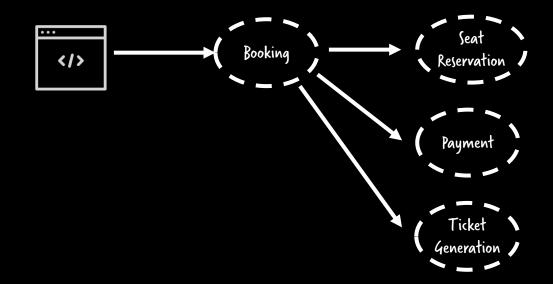
aberndruecker

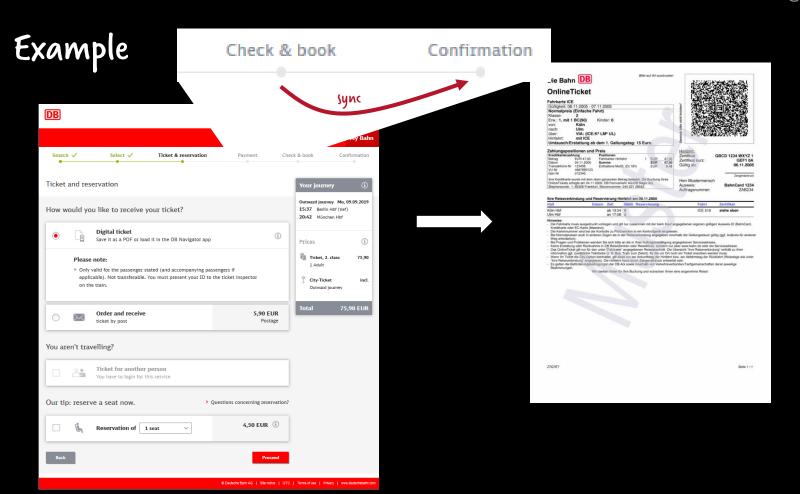
Example



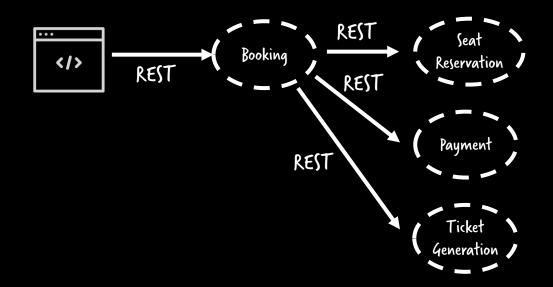


Example

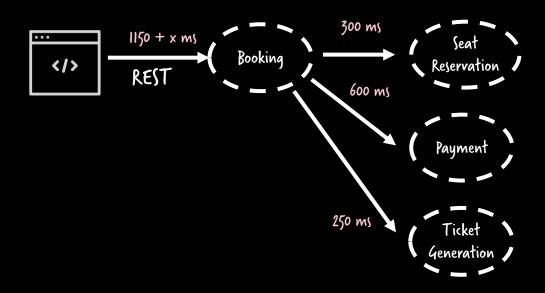




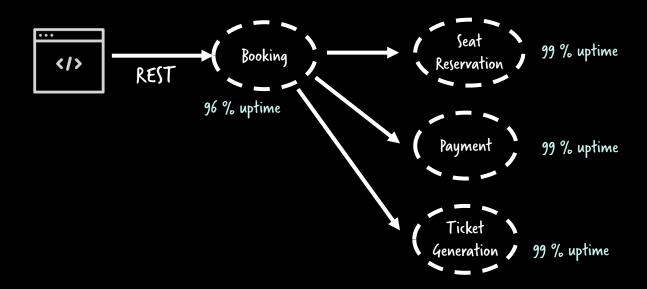
REST?



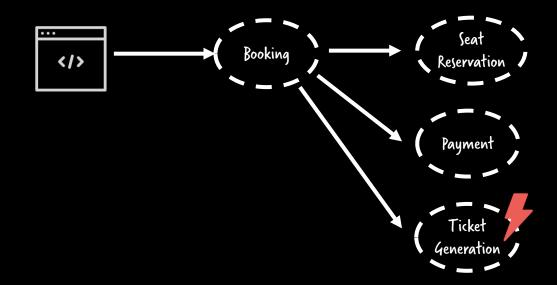
Weaknesses: Latency creep



Weaknesses: Availabiliy erosion



And what about consistency?



What's hipster?

Serverless

Event-Driven

Microservices

(loud-Native

Agile

Reactive

Eventual (onsistency

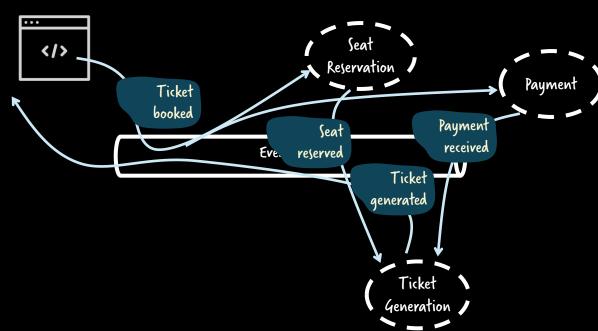
Distributed Systems

Kubernetes

Streaming

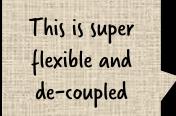


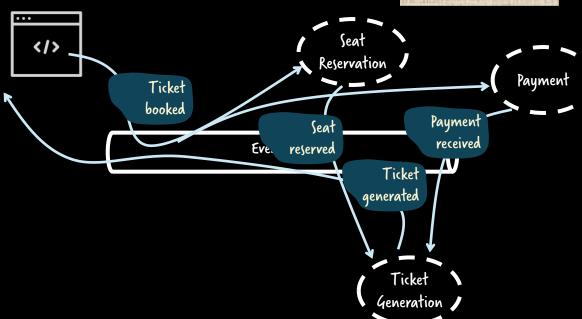
Event-Driven (horeography





Event-Driven (horeography







Event-Driven (horeography

We now need to reserve seats before collecting payment!

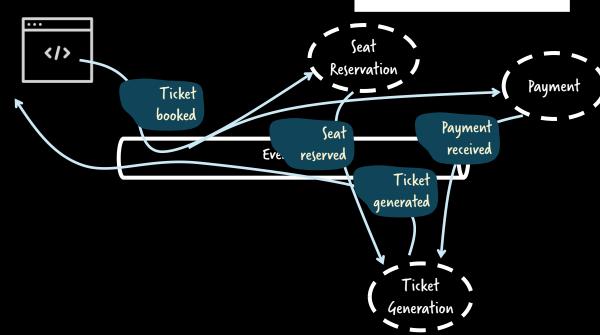






Photo by Lijian Zhang, available under Creative Commons SA 2.0 License and P..19 / CC BY-SA 4.0



The danger is that it's very easy to make nicely decoupled systems with event notification, without realizing that you're losing sight of that larger-scale flow, and thus set yourself up for trouble in future years.



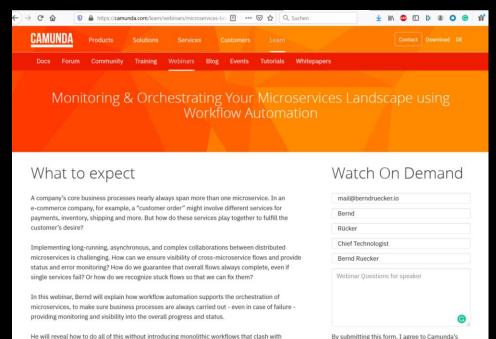
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The danger is that it's very easy to make nicely decoupled systems with event notification, without realizing that you're losing sight of that larger-scale flow, and thus set yourself up for trouble in future years.

How-to monitor event-driven processes?

https://camunda.com/learn/webinars/microservices-landscape-workflow-automation/



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microservices principles. You will also learn how to balance orchestration (using a workflow engine)

with choreography (using events). Still believe that choreography is more loosely coupled and thus

Bernd Ruecker, Chief Technologist and Co-founder
Tech evangelist, public speaker, co-founder and chief technologist of
Camunda – Bernd's name is legend among developers. Bernd focuses on
helping developers and architects utilize workflow and BPM technology to
the full extent, and also thinking about the future of software technology and

workflow automation. He coaches countless developers to implement business logic centered around long-running flows. In addition, Bernd, who

holds an MSc in Software Technology, co-authored the successful book

the modern way to go? You definitely need to listen in...

Speaker:

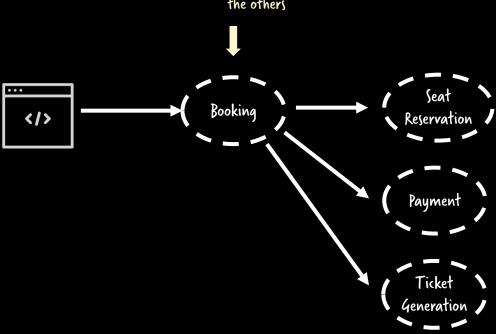
Webinar Date: Wednesday, Mar 11, 2020, 8am PT/ 11am ET / 4pm CET

"Real-Life BPMN".

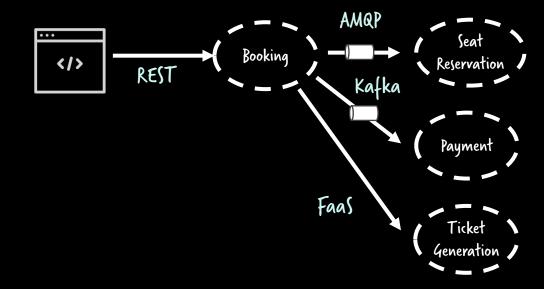
orchestration

This component orchestrates the others

coordinates

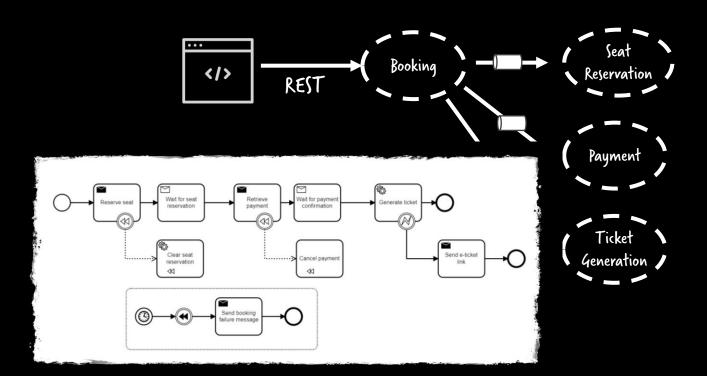


orchestration = Synchronous (ommunication

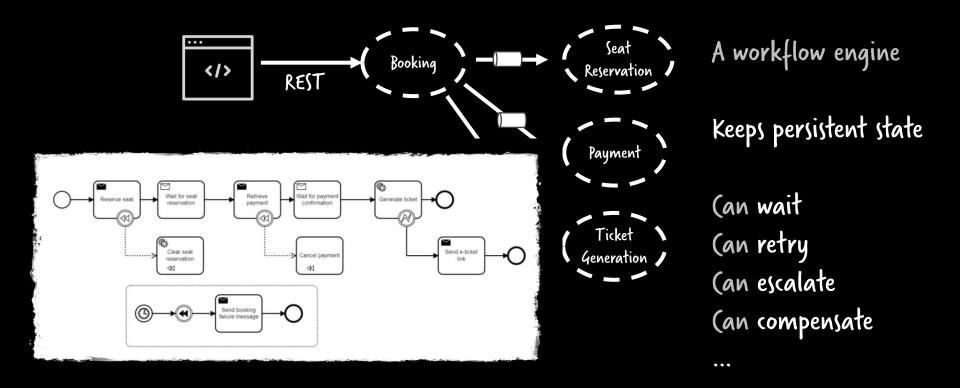




A workflow engine can help



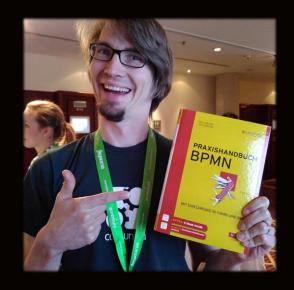
A workflow engine can help



Warning: Contains Opinion



Bernd Ruecker (o-founder and (hief Technologist of (amunda



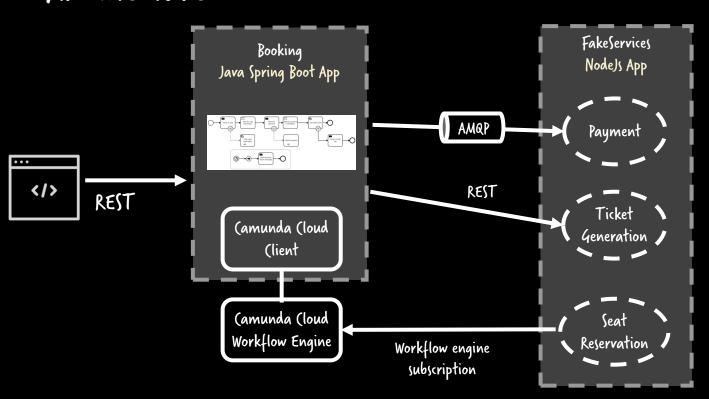
mail@berndruecker.io
@berndruecker



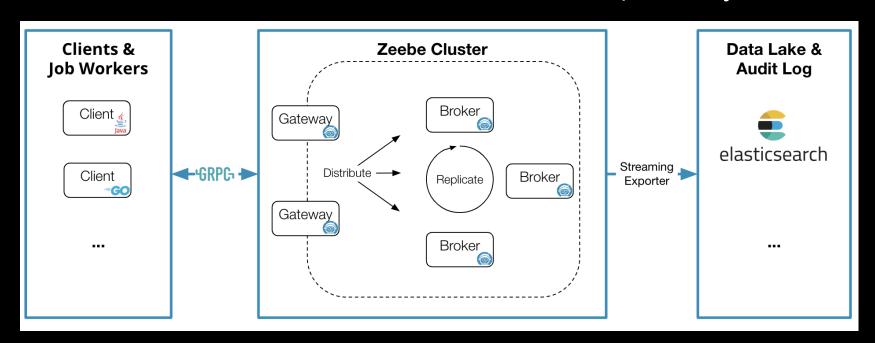




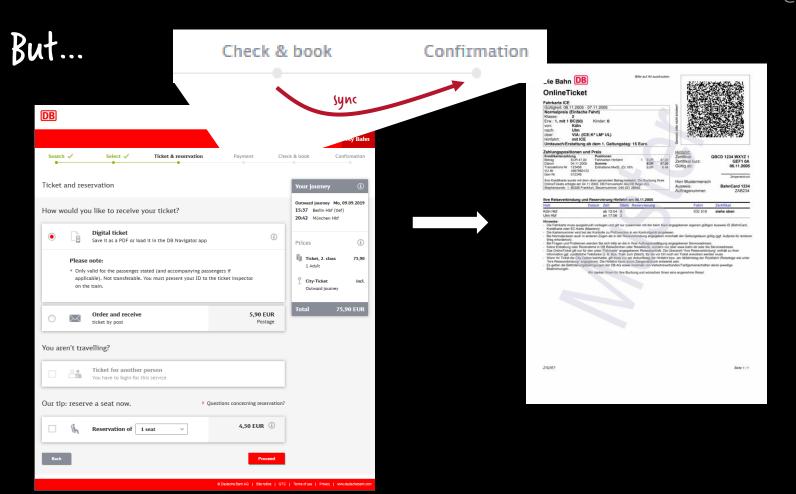
Architecture



(amunda (loud is based on Zeebe (OSS workflow engine)



http://zeebe.io/

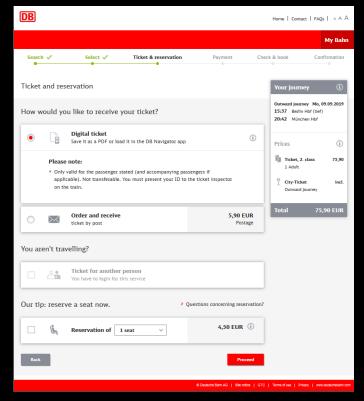


(an your company leverage your hipster architecture?

You need to change business processes and customer experience!



Redesign your business process accordingly!





Sync in happy case

or some interface to poll for status

Async response

Summary

- · Synchronous call chains have weknesses
- · Event-driven choreography is not a magic cure
- · orchestration
 - Helps to avoid chaos
 - · (an be handled within one service (decentral)
 - · Does not mean synchronous communication
- To leverage a great hipster architecture you need to adjust business processes and customer experience



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Slides: https://berndruecker.io

Blog: <u>https://medium.com/berndruecker</u>

Code: https://github.com/berndruecker



https://www.infoworld.com/article/3254777/ application-development/ 3-common-pitfalls-of-microservicesintegrationand-how-to-avoid-them.html



https://www.infoq.com/articles/eventsworkflow-automation

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https://thenewstack.io/5-workflow-automationuse-cases-you-might-not-have-considered/

