

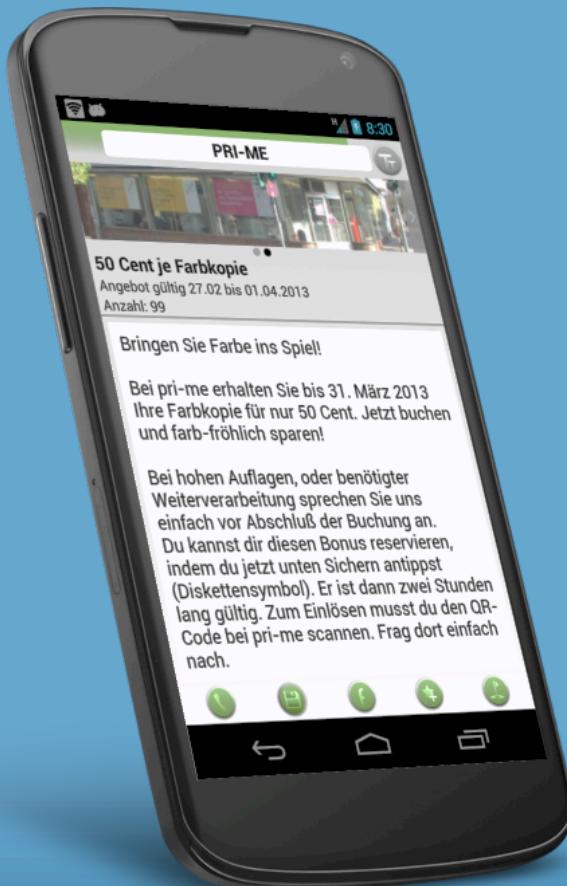
An Introduction into Backend as a Service with Android Examples

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@lutzkohl



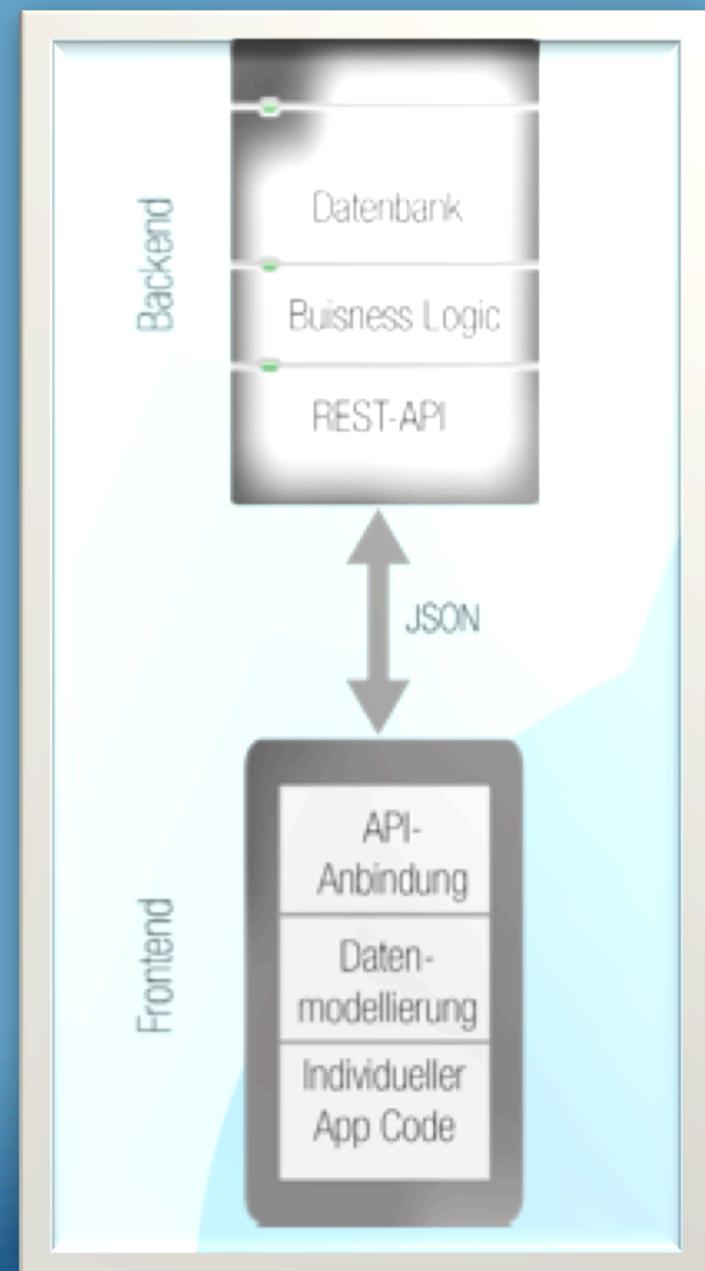
Frontend



- Software/App that runs on the smartphone
- Gives user possibility to see and modify data
- Provides connection to backend

Backend

- Server/Machine running in a data center
- Software that runs on the central instance/server
- Provides possibilities to read/modify/store data

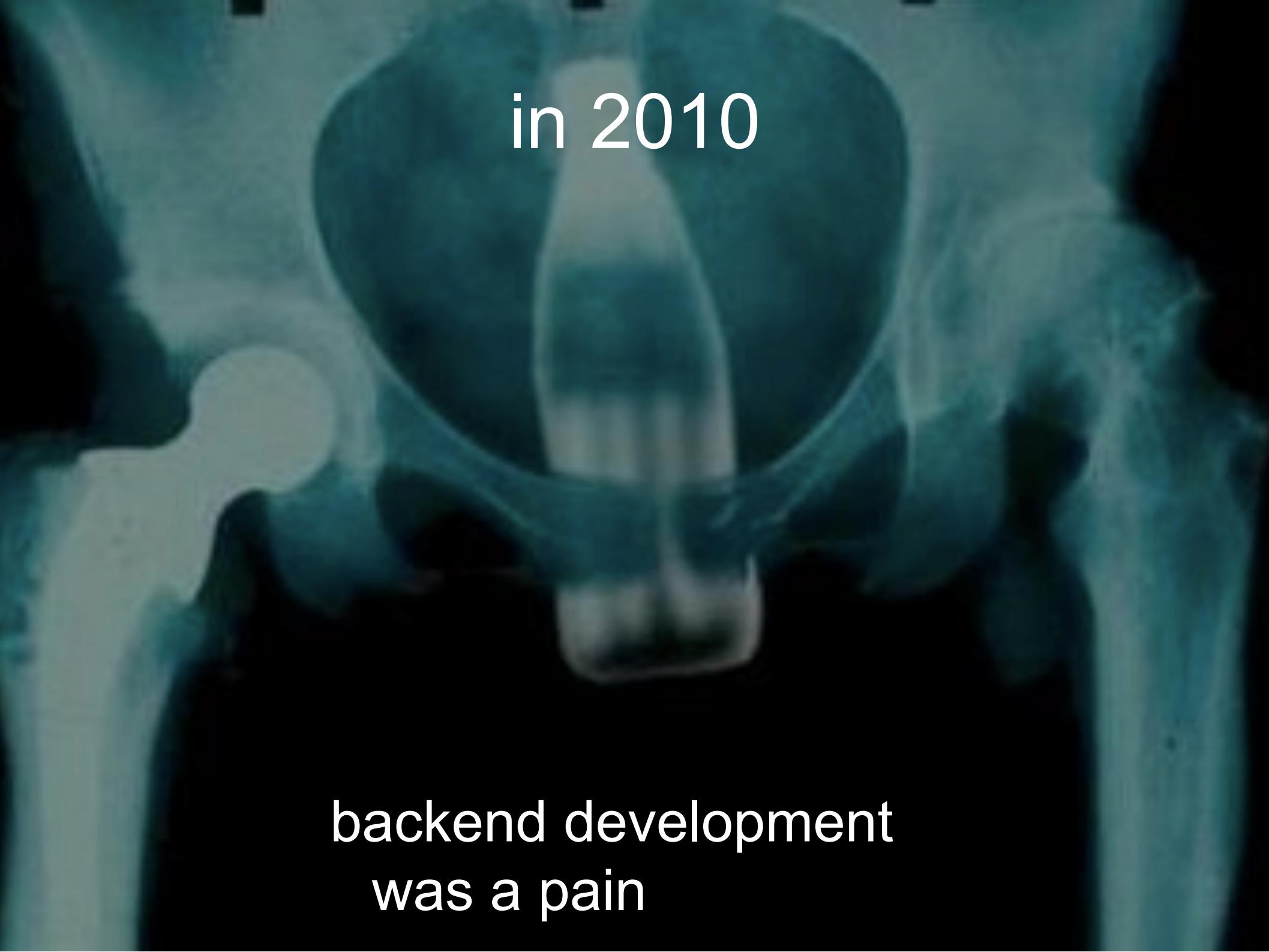


Set up your Backend on your own

- get Know-How
- analyse and choose base technology
- choose Tools, get used to it
- set up HW/SW Infrastructure
- development
- testing

Host your Backend on your own

- rent a server
- admin looks for Server
- install security updates
- maintain your own code
- Maintain requests to changing external APIs
- install monitoring (e.g. nagios)
- be prepared for scalability requirements

A dark, blurry background image of a human spine, showing the vertebrae and intervertebral discs.

in 2010

backend development
was a pain

What we did in 2010

MySQL & Hibernate

proprietary protocols

own servers & admin

copy & paste

Backend as a Service (wikipedia)

- is a model for providing web and mobile app developers with a way to link their applications to backend cloud storage
- provides features such as user management, push notifications, and integration with social networking services
- provided via the use of SDKs and APIs
- the global BaaS market had an estimated value of \$216.5 million in 2012



Server Logic

Hosting included

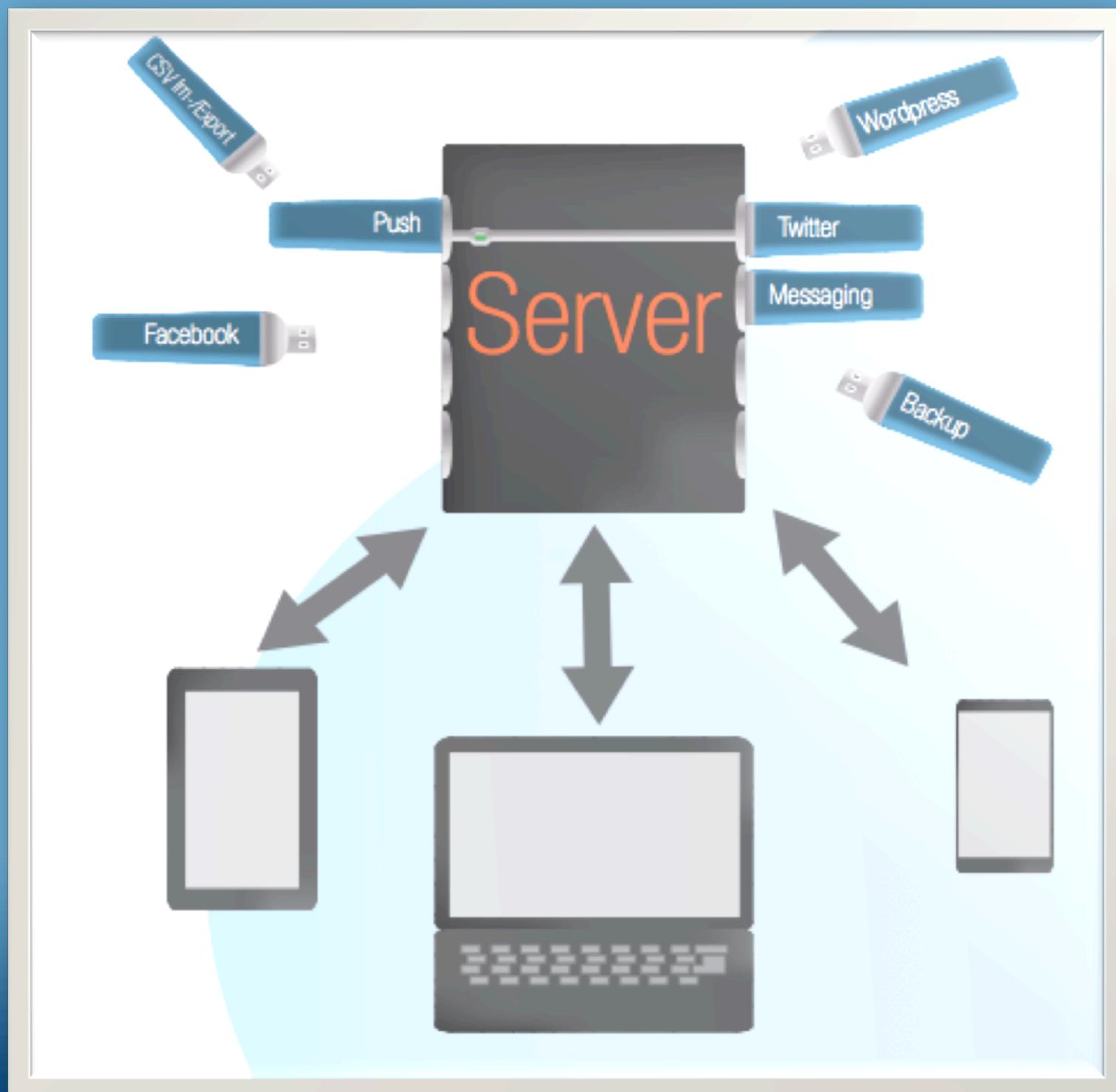
REST-Protocol

Gigaset

SDK's

Web-
Dash-
board

Out of the Box Modules

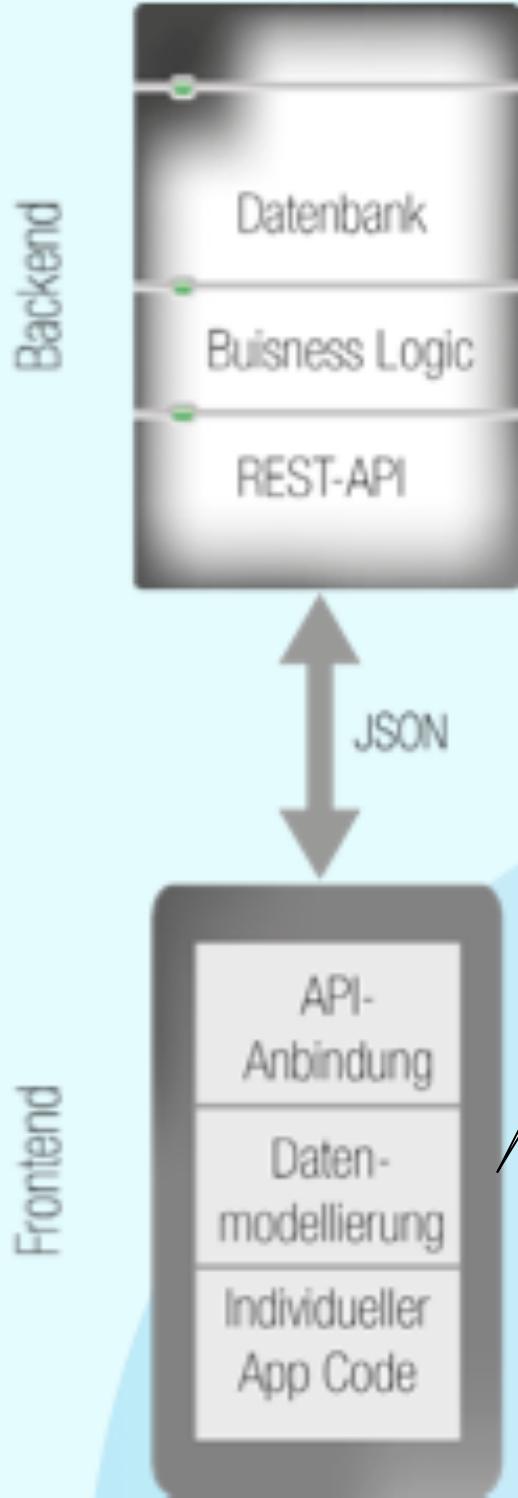


Let's see how BaaS works

apiomat.com #baas

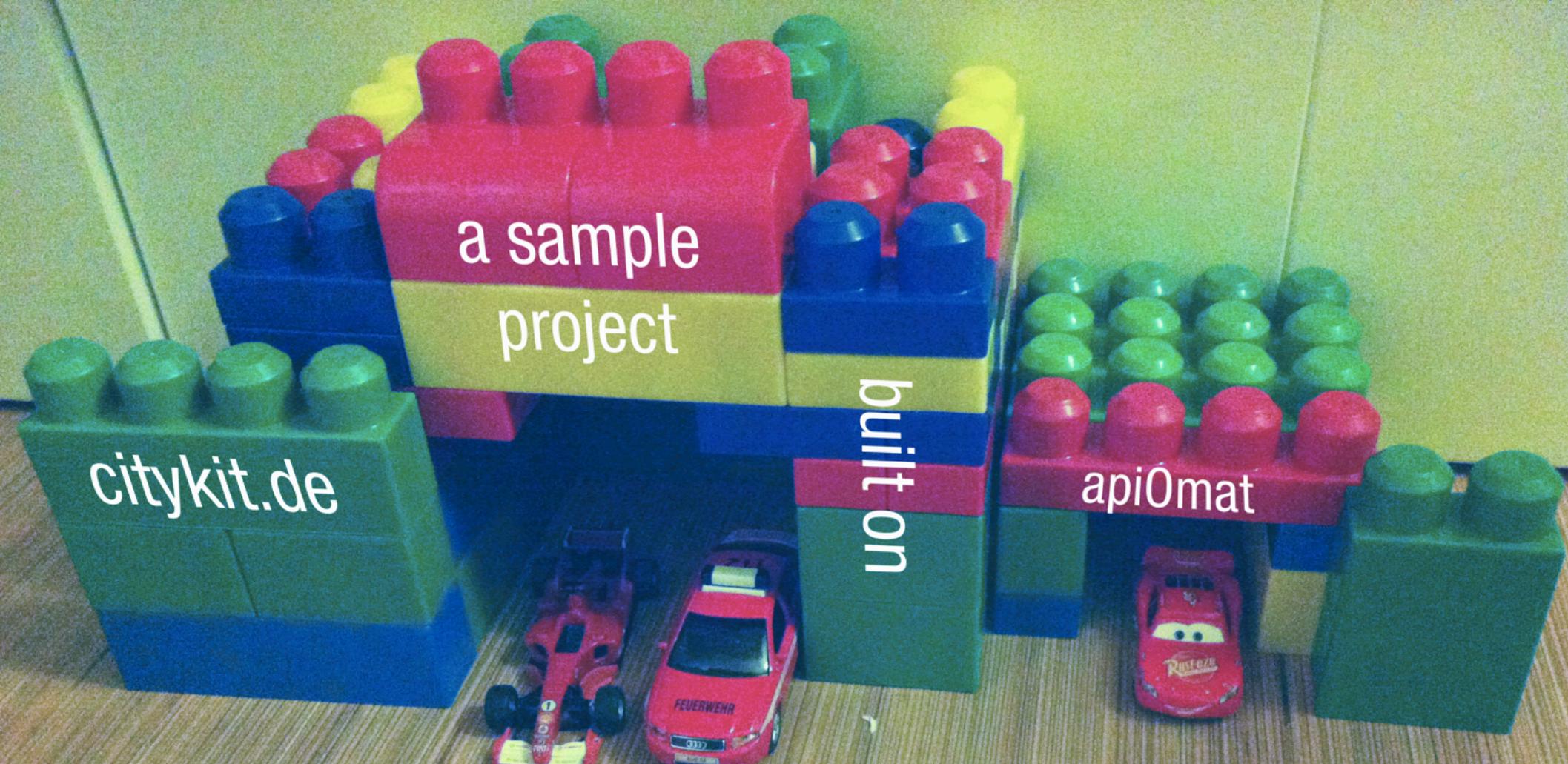
Wer sagt was? Zu wem? Womit?
Durch welches Medium? Mit welcher A
Mit welcher Wirkung
Who says what? To whom? With what?
Via which medium? With what intention?
With what effect?

Generic vs. Generated



Who writes
that code?

- 1 Client
 - it doesn't matter
- 2 Clients
 - generic means double effort
- 2+ Clients + iterations
 - go for generated!



Complex data model

CSV import

Server logic

No backend team



In KAISERSLAUTERN

präsentiert von



SUCHE:

Was suchst du?

Kaiserslautern

▶ SUCHE

Du bist in :

... // Kaiserslautern

Du such
willst bei
du hier ge

ALL

50 Cent je Farbkopie
Angebot gültig 27.02 bis 01.04.2013
Anzahl: 99

Bringen Sie Farbe ins Spiel!

Bei pri-me erhalten Sie bis 31. März 2013
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Weiterverarbeitung sprechen Sie uns
einfach vor Abschluß der Buchung an.
Du kannst dir diesen Bonus reservieren,
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(Diskettensymbol). Er ist dann zwei Stunden
lang gültig. Zum Einlösen musst du den QR-
Code bei pri-me scannen. Frag dort einfach
nach.

ADRESS

Kaisers Backladen

FINDEN

Android, iOS,
php, java



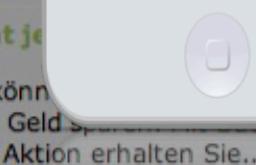
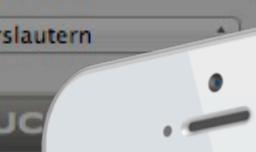
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▶ mehr Info

Making Blues Tour

Was ergeben eine akustische
Gitarre, eine Harmonika und
melodischer Gesang gemeinsam?
Sie...

▶ mehr Info



▶ mehr Info

| | Parse/FB | Stackmob | Kinvey | apiomat |
|----------------|---------------------------------|----------------------|----------------------|---------------------------------------|
| SDK | generic | generic | generic | generated |
| Server code | yes | yes | yes | yes |
| SDK Language | Android iOS, OS X JS, WIN | iOS Android JS | iOS Android JS | Android, iOS, PHP Python JS* |
| Server | USA | USA | USA | Germany |
| price for SLAs | Call us | Learn More | Contact us | 49€ |

BaaS in Germany

- most devs don't know about BaaS
- German privacy laws are not compatible with most BaaS-Players
- often SLAs are needed in Germany and most BaaS-Players don't provide them with fixed prices

Try it for free

www.apiomat.com

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Backend as a Service

Start saving time and money!