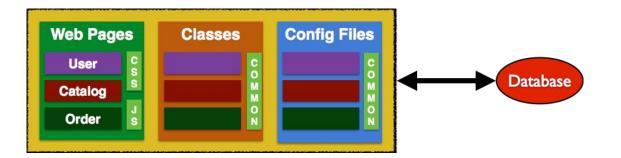
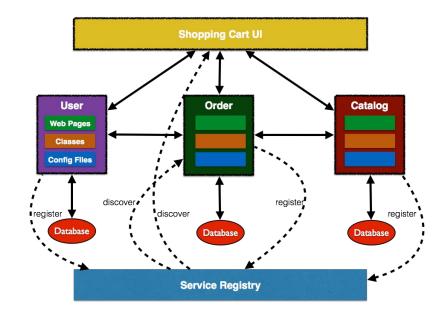
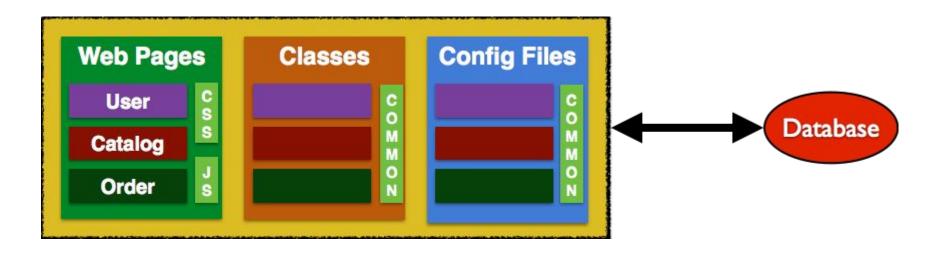
Microservices

Do one thing and do it well!

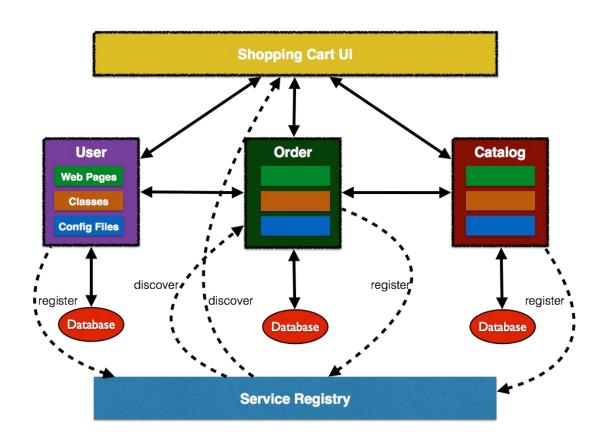




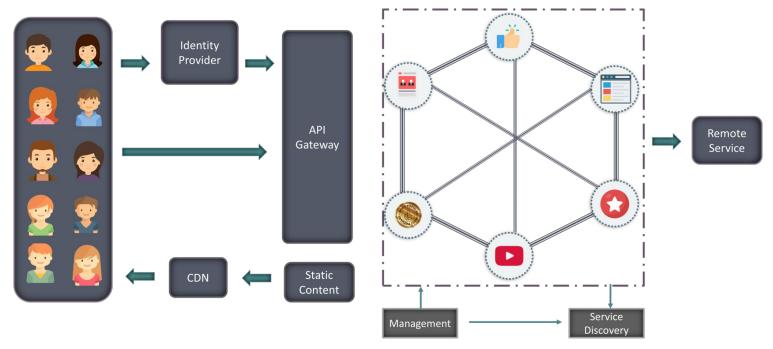
Monolith Architektur



Microservice



Wie funktionieren Microservices



Vorteile von Microservices

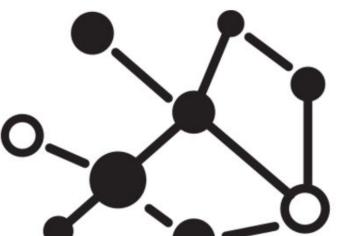
- Leicht zum Erstellen und Warten
- Flexible in der Auswahl der Tools
- Higher quality code
- Leichter Skalierbar
- Weniger Fehleranfällig
- Verwenden eine geringe Anzahl an Ressourcen in der Entwicklung
- Fördern die Verwendung von Big Data

Nachteile

- Netzwerklatenz
- komplexere Softwareverteilung und Tests
- komplexeres Logging und Monitoring
- schwere bzw. aufwändige Migration
- Mögliche Probleme mit der Datenkonsistenz

Firmen die Microservices verwenden

- Google
- Spotify
- Amazon
- Twitter
- The Guardian
- Netflix
- SoundCloud
- eBay
- ...



Eclipse MicroProfile

Was ist Microprofile

- Gründer: Red Hat, IBM, TomiTribe, Payara & LJC
- Alternative zu JEE Web bzw. Full profiles
- Community-driven
- Standardisiert

Das Ziel

"An open forum to optimize Enterprise Java for a microservices architecture by innovating across multiple implementations and collaborating on common areas of interest with a goal of standardization."

Komponenten

- MicroProfile Config 1.3
- MicroProfile Metrics 1.1
- MicroProfile OpenAPI 1.0
- MicroProfile Rest Client 1.1
- CDI 2.0
- Common Annotations 1.3
- JAX-RS 2.1
- ..

einige Standards

Rest: consumes/produces Json-P

• kein JPA in microProfile

Quellen

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https://www.edureka.co/blog/microservices-tutorial-with-example

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