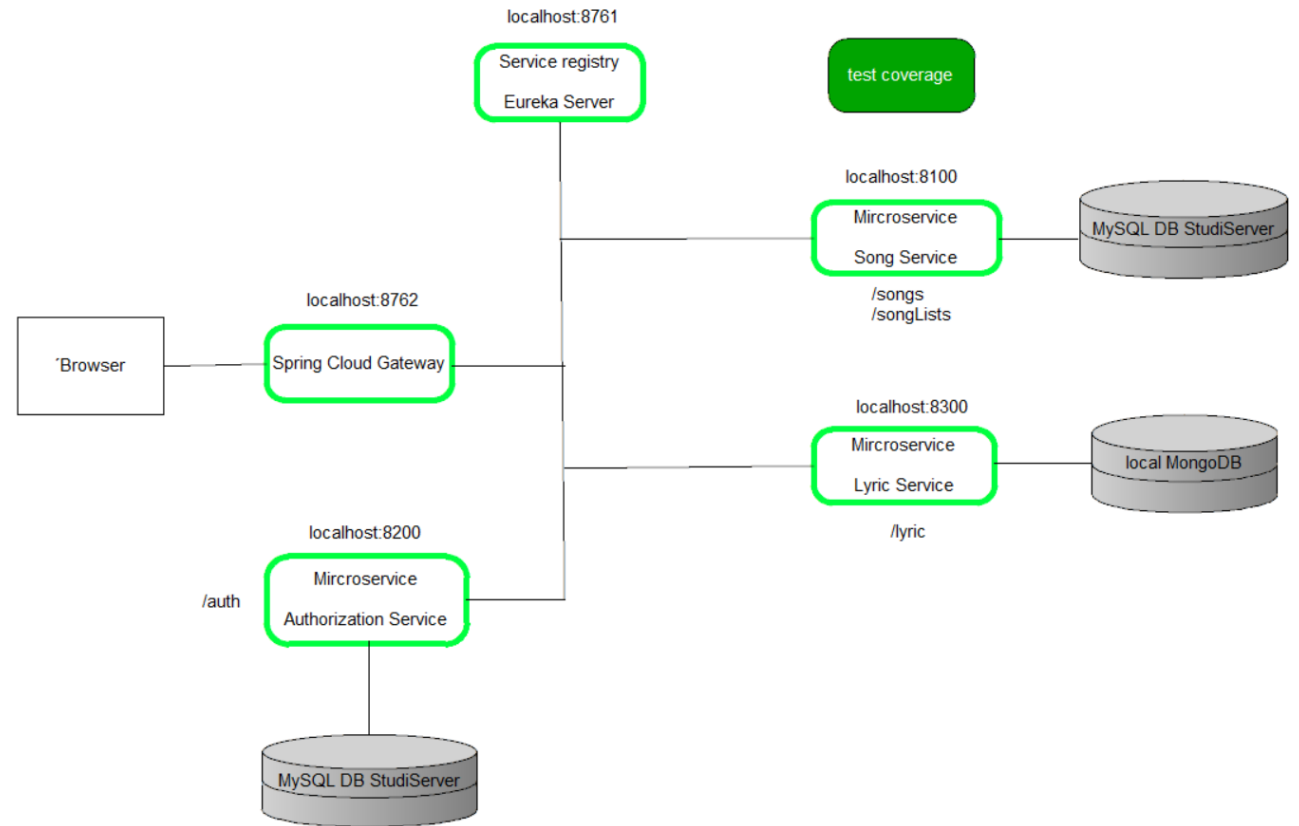


Hochschule für Technik
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Abschlussbeleg

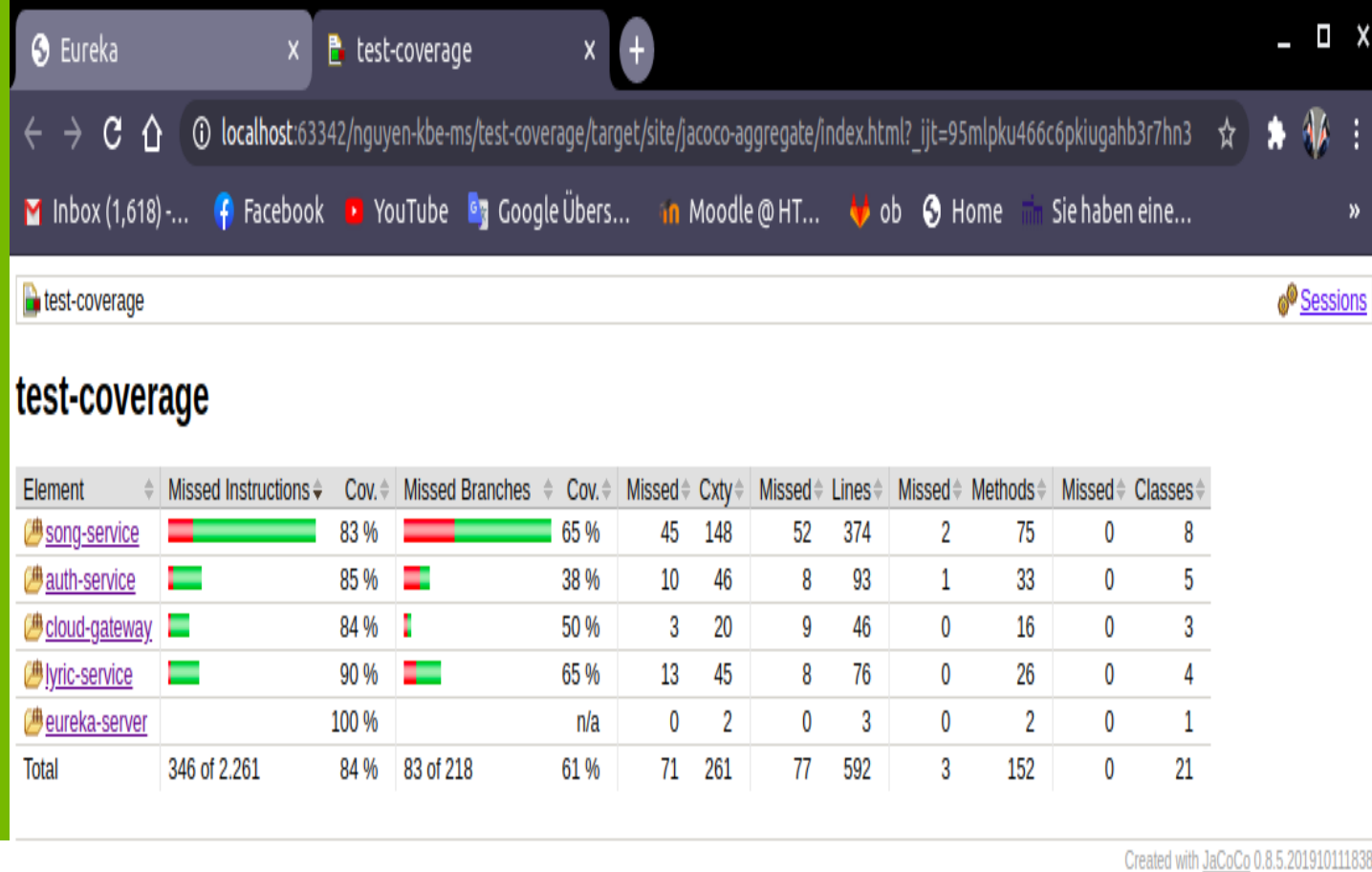
Komponentenbasierte Entwicklung



Microservices

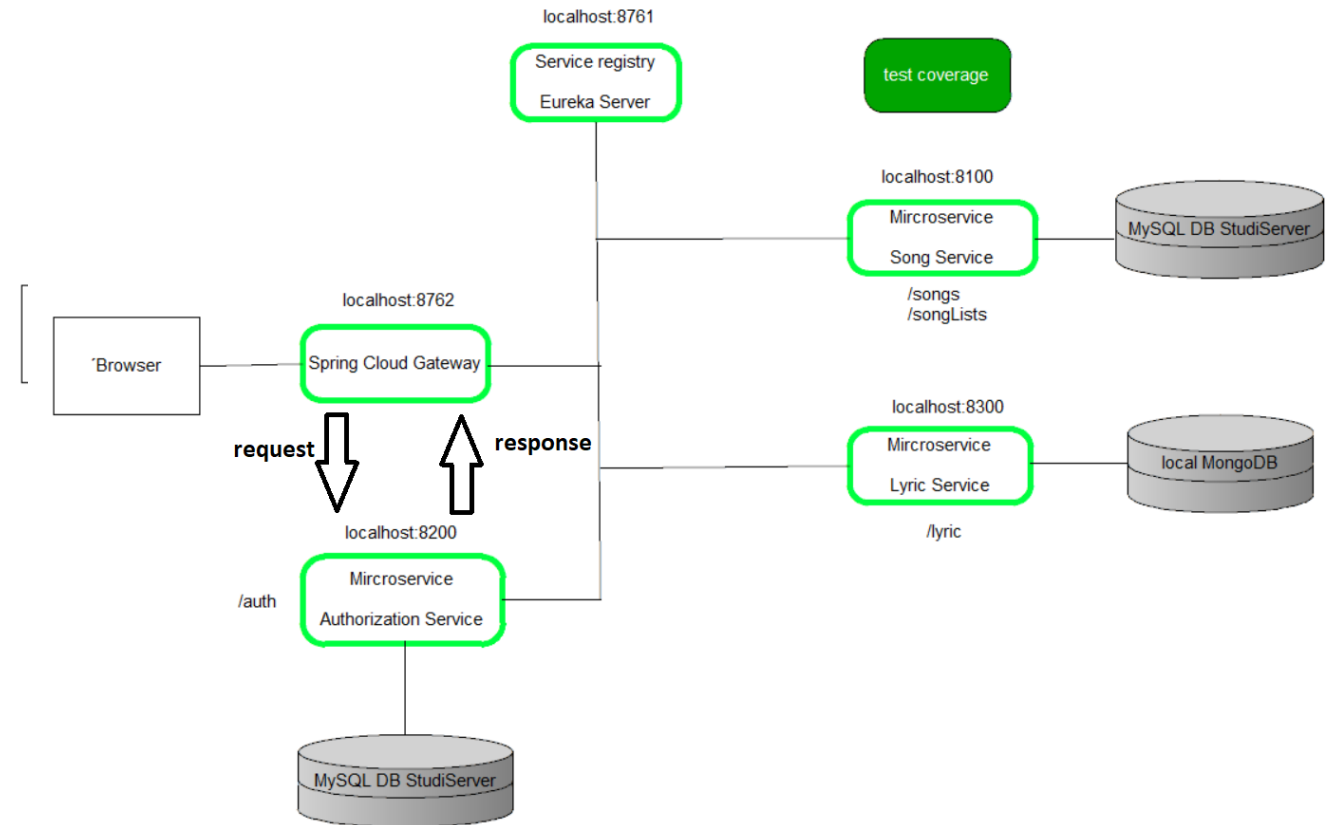
6 Submodulen:

- Eureka-server
- Cloud-gateway
- Auth-service
- Song-service
- Lyric-service
- Test-coverage



Jacoco

ist eine Softwariemetrik, mit der gemessen wird, wie viele Zeilen des Codes bei automatisierten Tests ausgeführt werden



Song-Microservices

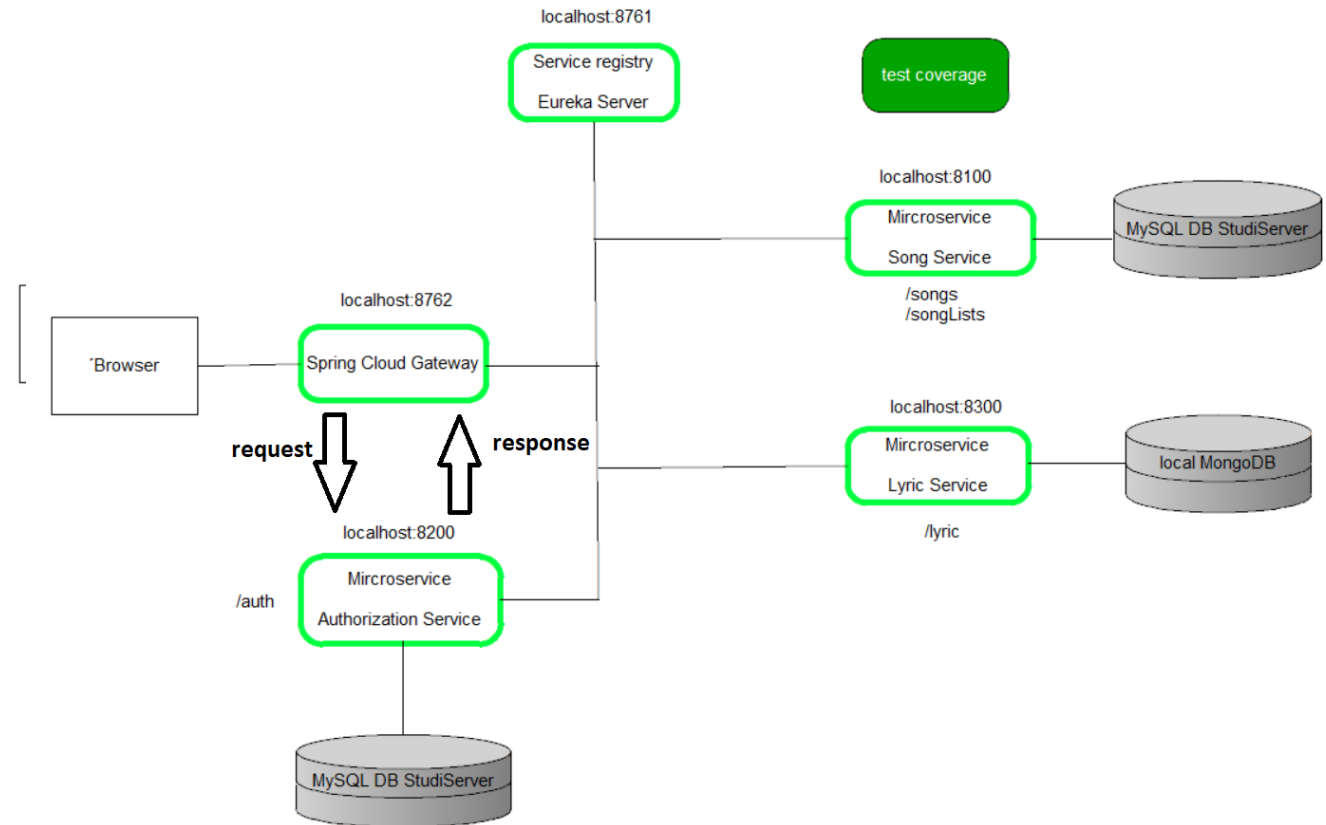
Spring Cloud Gateway

Alle Request => Cloud Gateway

Zu Lyric-Service: localhost:8762/lyric

Zu Song-Service: localhost:8762/songs

localhost:8762/songLists

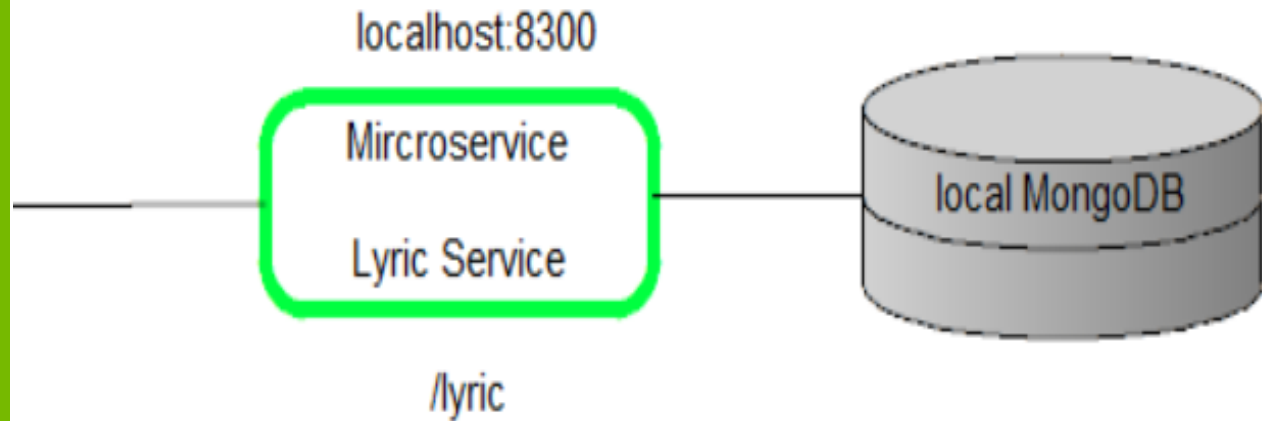


Song-Microservices

Authorisation Service

eigene Datenbank

Token generieren und in-MemoryDB speichern.



MongoDB: ist ein dokumentenorientiertes NoSQL-Datenbankmanagementsystem, das in der Programmiersprache C.++ geschrieben ist.

Sammlungen von JSON-ähnlichen Dokumenten verwalten.

```
{
  "_id" : 4,
  "title" : "Sussudio",
  "content" : "There's this girl that's been on my mind \nAll the time, Su-Sussudio\nOh oh \nNow she don't even know my name \nBut I think she likes me just the same \nSu-Sussudio\nWoah oh\n\nAh if she called me I'd be there \nI'd come running anywhere \nShe's all I need, all my life \nI feel so good if I just say the word \nSu-Sussudio\nJust say the word, oh\nSu-Sussudio\n\nNow I know that I'm too young \nMy love has just begun \nSu-Sussudio\nOh oh\nOoh, give me a chance, give me a sign \nI'll show her anytime \nSu-Sussudio\nOh oh\n\nAh! I've just got to have her, have her now \nI've got to get closer, but I don't know how \nShe makes me nervous and makes me scared \nBut I feel so good if I just say the word \nSu-Sussudio\nJust say the word, oh\nSu-Sussudio\nOh \n\nAh! She's all I need all of my life \nI feel so good if I just say the word \nSu-Sussudio\nI just say the word oh\nSu-Su-Sussudio\nI just say the word oh \nSu-Sussudio\nI just say the word oh \nSu-Sussudio oh-oh\nOh, oh\n\nJust say the word\nJust, just, just say the word\nOoh hoo just say the word\nSu-Su-Sussudio\nSu-Sussudio\nAh Su-Sussudio\nSu-Sussudio\nSudio\nSu-Sussudio\n\nJust say the word\nSu-Sussudio \nSay the word oh\nJust say the word\nJust, just, just say the word",
  "_class" : "htwb.ai.nguyenkbe.lyricservice.Entity.Lyric"
}
```

songId und title : identisch mit dem songId in der Datenbank von Song-service.

content: Text des Lieds speichern.

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