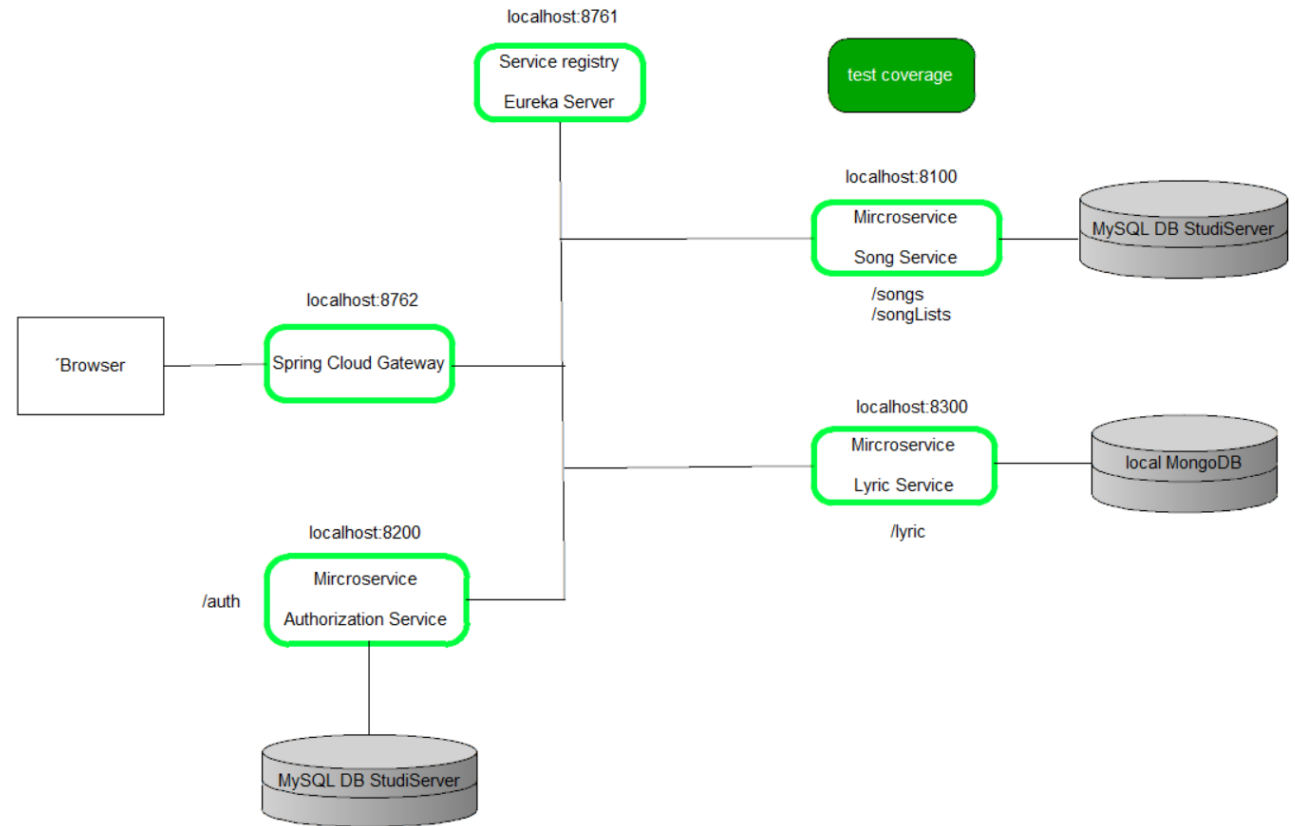


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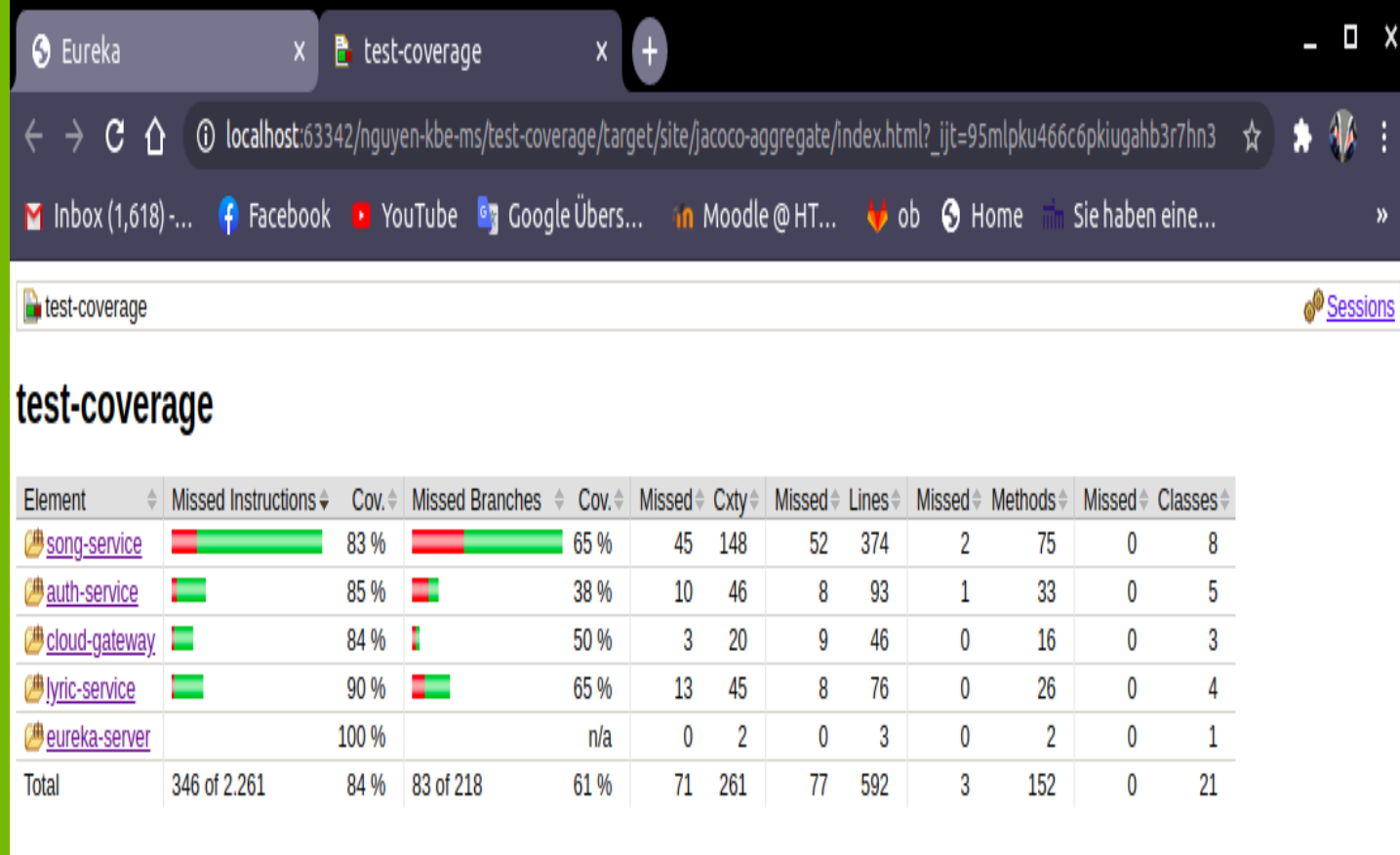
# Komponentenbasierte Entwicklung



Microservices

## 6 Submoduls:

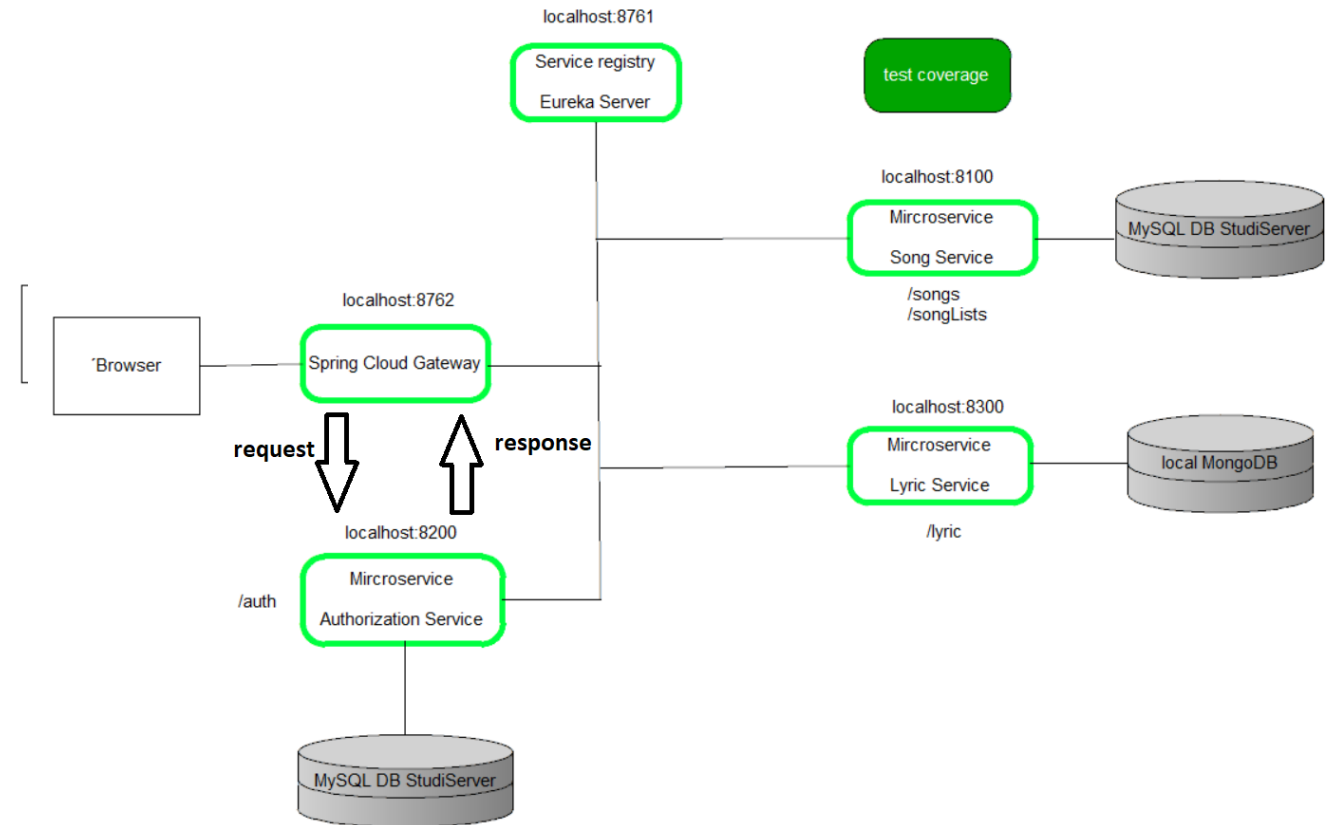
- Eureka-server
- Cloud-gateway
- Auth-service
- Song-service
- Lyric-service
- Test-coverage



Java code coverage tools

## Jacoco

is a software metric that measures how many lines of code are executed in automated tests.



Song-Microservices

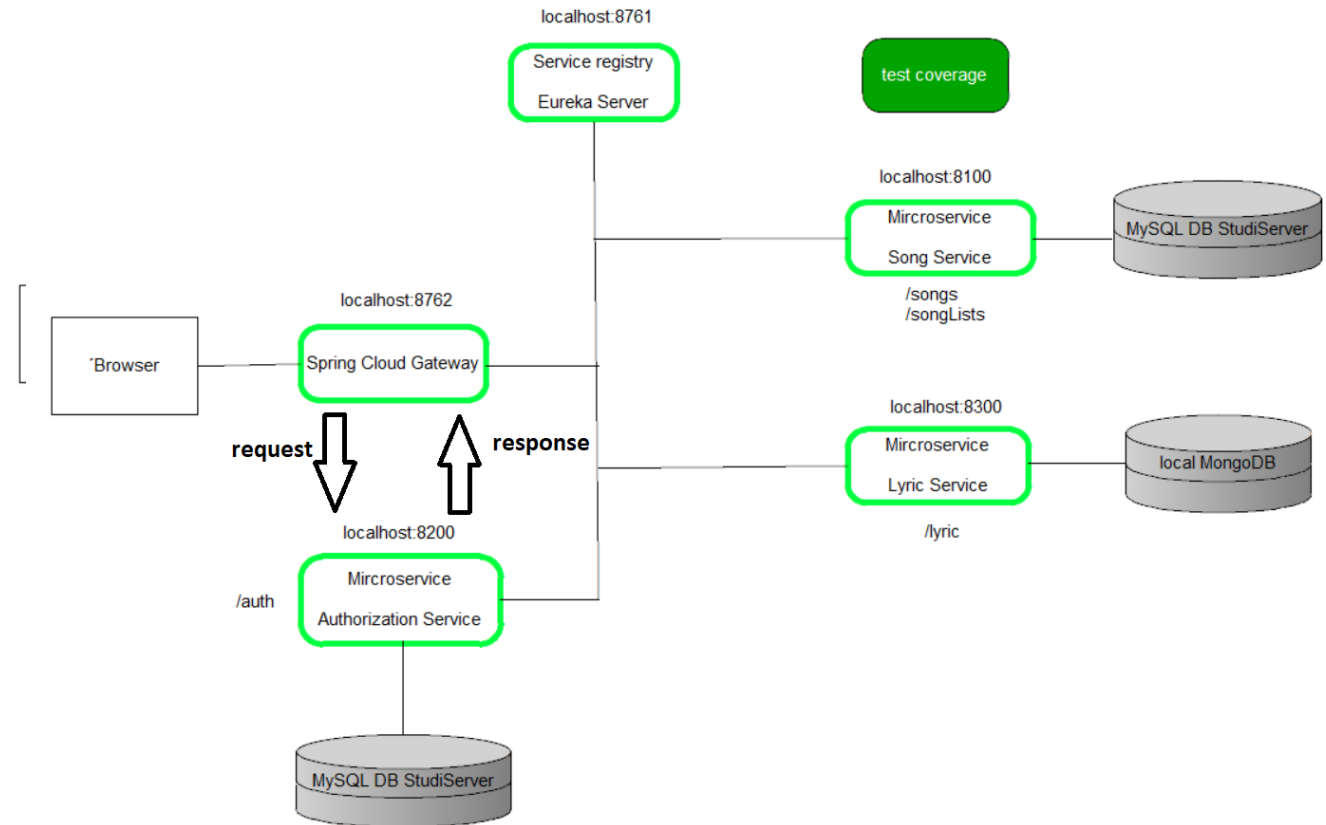
## Spring Cloud Gateway

All Requests => Cloud Gateway

Lyric-Service: localhost:8762/lyric

Song-Service: localhost:8762/songs

localhost:8762/songLists



Song-Microservices

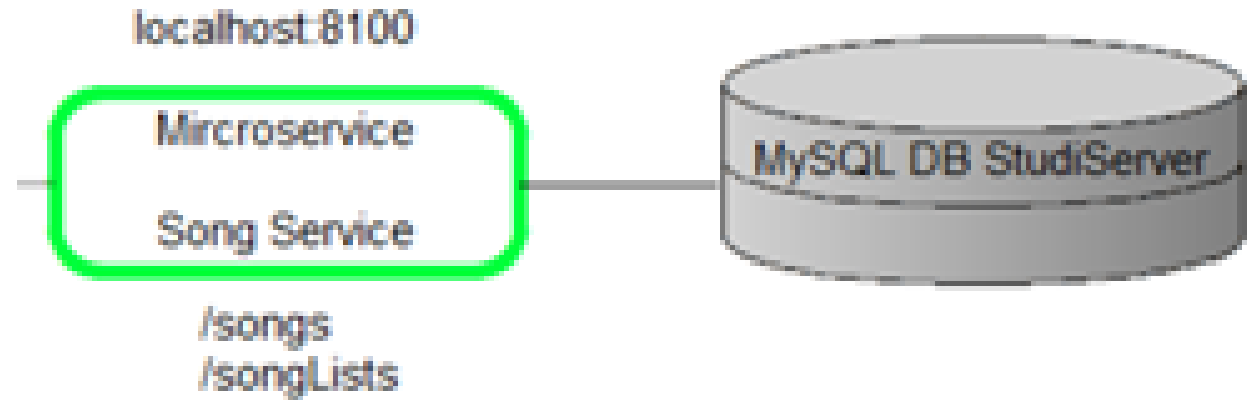
## Authorisation Service

own database

generate token and save in-MemoryDB.

GET - request: /auth/checktoken/{token}

POST: /auth/      RequestBody: json-format with Payload

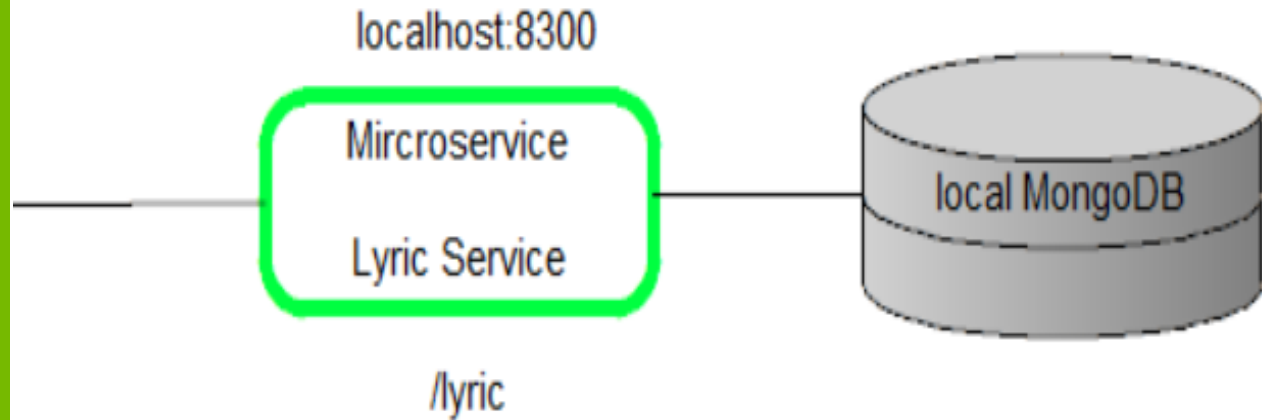


Song-Microservices

## Song Service

GET/POST/PUT/DELETE : /songs

GET/POST/PUT/DELETE - request: /songLists



**MongoDB:** is a document-oriented NoSQL database management system written in the C. ++ programming language.

Manage collections of JSON-like documents.

```
{
  "_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\nmy 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\nrunning anywhere \nShe's all I need, all my life \nI feel so good if I just say the word \nSu-Sussudio\nJust say the\nword, 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\nchance, 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\n\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\njust 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\nfeel 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\n\nSu-Sussudio\nI just say the word oh \nSu-Sussudio oh-oh\nOh, oh\n\nJust say the word\nJust, just, just say the\nword\nOoh hoo just say the word\nSu-Su-Sussudio\nSu-Sussudio\nAh Su-Sussudio\nSu-Sussudio\nSudio\nSu-Sussudio\n\nJust\nsay 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 and title: identical to the songId in the Song-service database.

content: save the text of the song.

GET/POST/PUT/DELETE - request : /lyric



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