

Semantic Event Map



Agenda

- Motivation
- Features
- Data Sets, APIs & Technologies
- Architecture
- Sample Query
- Live Demo
- Challenges

Motivation

- Find concerts near your place
- Find out where your favorite artists perform



Motivation

o Current situation:

Enter Shikari in Substage

Mit **Hacktivist**



Freitag, 8. November 2013 um 20.00 Uhr

[In den Kalender eintragen](#)



Substage

Durlacher Allee 62 - Alte Schlachthalle / S13
76131 Karlsruhe
Deutschland

[Auf der Karte zeigen](#)

Tel: 0721 / 78 31 15 -0

Web: www.substage.de



[Ein neues Poster hochladen](#)

Motivation

Substage, Durlacher Allee 62 - Alte Schlachthalle / S13

Substage Karlsruhe e.V.

Alter Schlachthof 19
76131 Karlsruhe
Deutschland



Rutenplaner



Speichern

substage.de

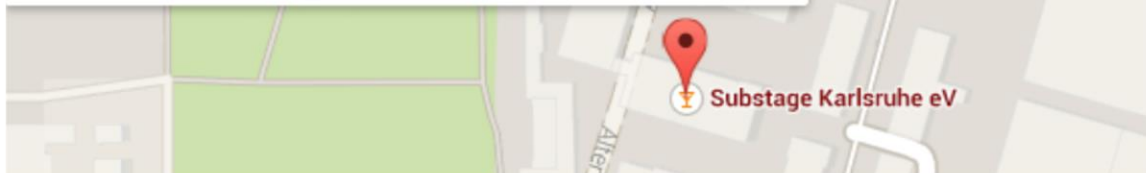
+49 721 7831150



Fotos

4.0 ★★★★★ 7 Erfahrungsberichte · Club

Nächste Ereignisse · Zebrahead - Call your friends Tour



Motivation

We want to merge this!

Substage, Durlacher Allee 62 - Alte Schlachthalle / S13 X

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[Rutenplaner](#) [Speichern](#)

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Fotos

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Substage Karlsruhe eV

Features

- o Search for bands or acts
 - o Display all known events of the act on map
 - o Display additional artist information
- o Search for cities
 - o Display all events taking place there (within a certain radius)
- o Search for venues
 - o Display all events taking place at one location
 - o Display additional venue information

Linked Open Data Sets



„LinkedBrainz“

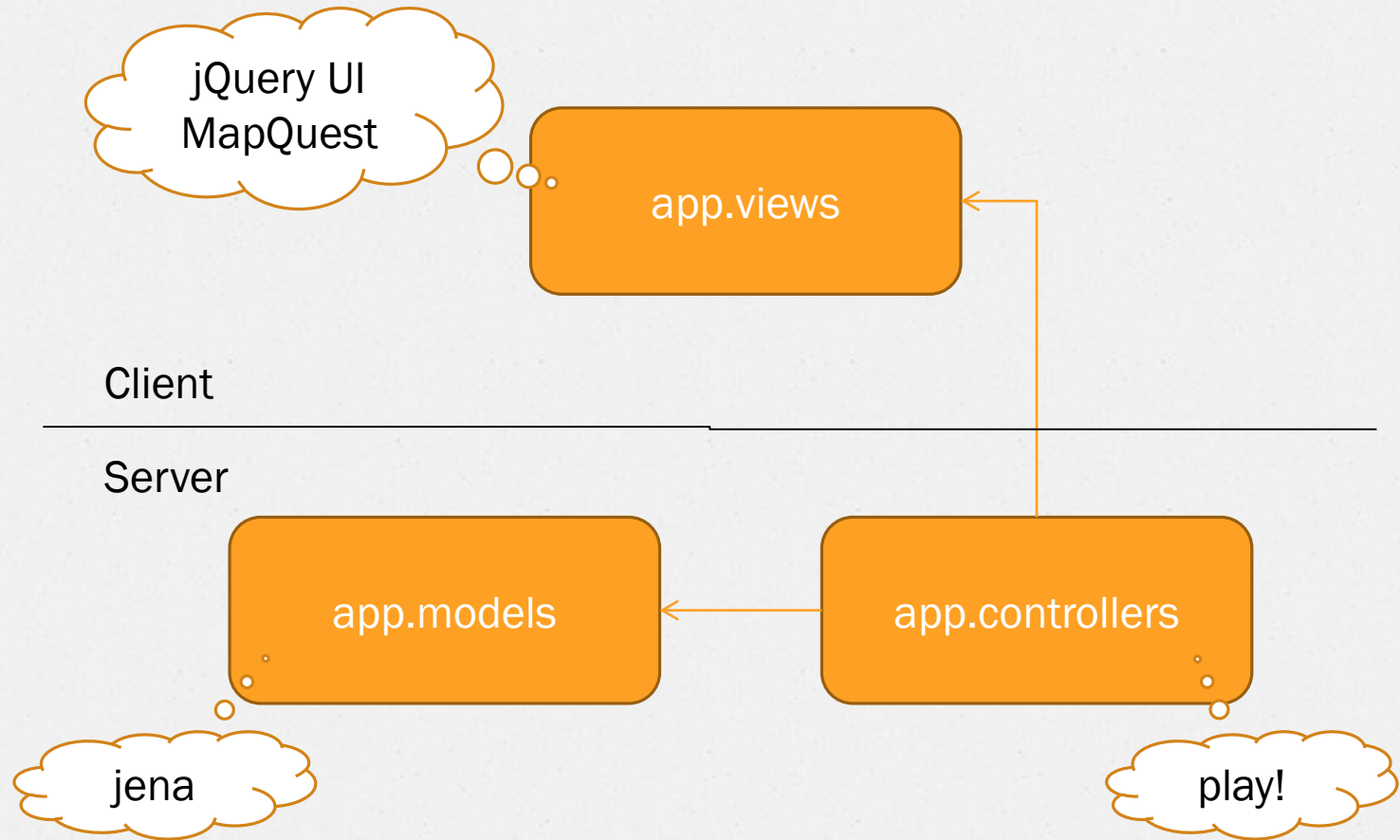
APIs



Technologies

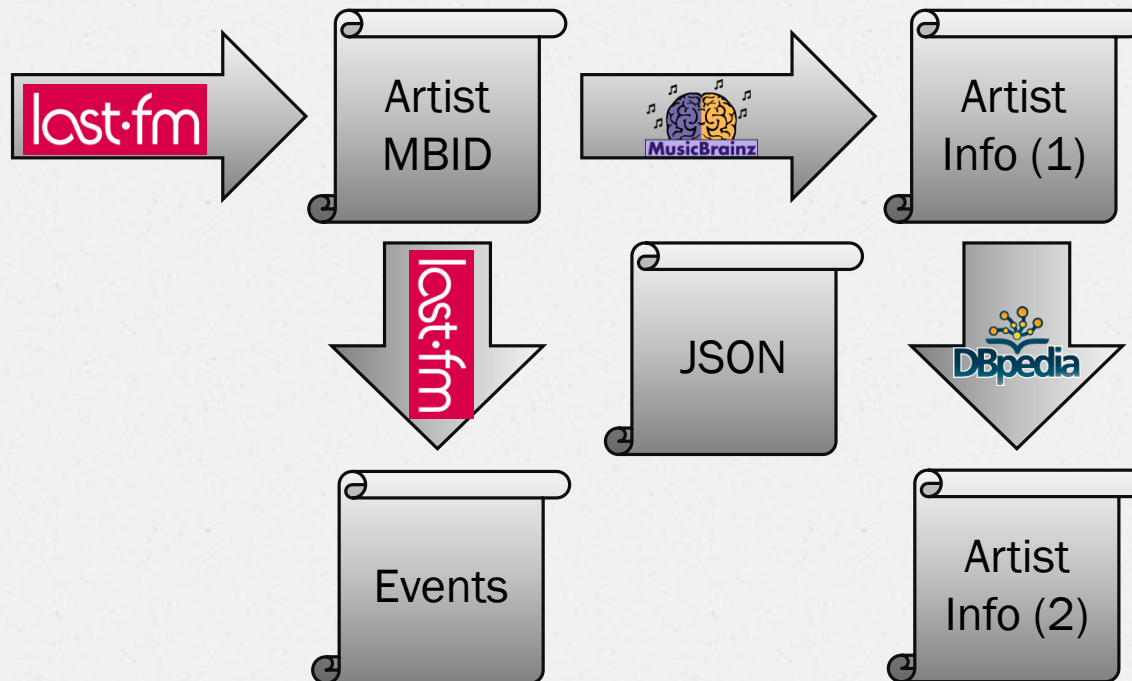


Architecture



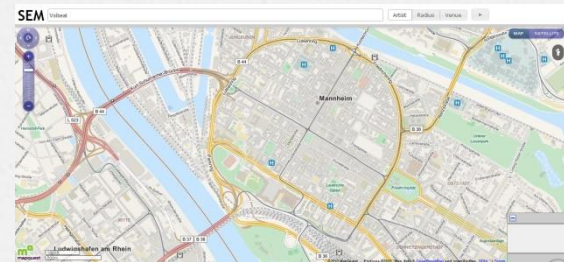
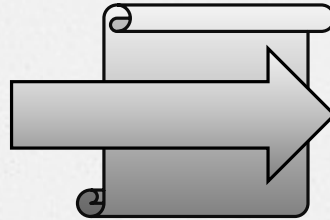
Sample Query

Use Case: „Use Artist search to query e.g. ‚Volbeat‘ events.“



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SPARQL Query (Musicbrainz):

```
SELECT * WHERE {  
  ?artist foaf:name "Volbeat";  
    owl:sameAs ?same.  
  FILTER(REGEX(STR(?same), „dbpedia.org/resource/“)).  
} LIMIT 1
```

```
SELECT * WHERE {  
  ?artist mo:musicbrainz <http://musicbrainz.org/artist/4753fcb7-9270-  
493a-974d-8daca4e49125>;  
    owl:sameAs ?same.  
  FILTER(REGEX(STR(?same), „dbpedia.org/resource/“)).  
} LIMIT 1
```


Sample Query

Use Case: „Use Artist search to query e.g. ‚Volbeat‘ events.“

SPARQL results:

artist	same
db:artist/4753fcb7-9270-493a-974d-8daca4e49125	http://dbpedia.org/resource/Volbeat_%28band%29

Sample Query

Use Case: „Use Artist search to query e.g. ‚Volbeat‘ events.“

SPARQL Query (DBPedia):

```
SELECT * WHERE {  
  ?artist a <http://schema.org/MusicGroup>.  
  ?artist dbpedia2:name "Volbeat"@en.  
  OPTIONAL { ?artist foaf:homepage ?homepage.}  
  OPTIONAL {  
    ?artist dbo:abstract ?abstract.  
    FILTER(lang(?abstract) = "en").  
  } OPTIONAL {  
    ?artist dbo:hometown ?home.  
    ?home a <http://schema.org/Country>.  
  } OPTIONAL { ?artist foaf:isPrimaryTopicOf ?wiki. }  
} LIMIT 1
```


Sample Query

Use Case: „Use Artist search to query e.g. ‚Volbeat‘ events.“

SPARQL results:

artist	homepage	abstract	home	wiki
Volbeat	http://www.volbeat.dk	"Volbeat is a Danish metal band which was formed in Copenhagen. They play a fusion of rock and roll, heavy metal, punk and rockabilly. They are inspired by classic rock and roll artists such as Elvis Presley and Johnny Cash, as well as modern hard rock, groove metal, alternative rock and hardcore groups. Their current line-up consists of vocalist and guitarist Michael Poulsen, bassist Anders Kjøholm, guitarist Rob Caggiano, and drummer Jon Larsen. The band is signed to Dutch label Mascot Records and has released four studio albums and one DVD. All of their studio albums have been certified gold in Denmark. Their second album Rock the Rebel/Metal the Devil received platinum status, and their 2010 release Beyond Hell/Above Heaven was subject to widespread international critical acclaim, receiving double platinum in Denmark, platinum in Finland and Germany, and gold in Sweden and Austria. Volbeat's fifth album entitled "Outlaw Gentlemen & Shady Ladies" is due to be released worldwide on April 9, 2013."@en	Denmark	http://en.wikipedia.org/wiki/Volbeat

Live Demo

SEM Semantic Event Map



Challenges

- Does the semantic web fit perfectly for all applications?
- Application needs up-to-date information
 - EventMedia last updated in September 2012
- Data sets not always reliable
 - LinkedGeoData SPARQL endpoint nearly permanently offline
- Missing experiences as web designer
- Some technical issues with github and play framework

Questions?

