

LoView
pre-touch proxemics

La**V**ision

»Expose a data leak in one or more
major dating applications«

Reasoning

What?

»Expose a data leak in one or more major dating applications«

How?

1. Crawl Dating App APIs
2. Track users, analyze behavior
3. Visualize information
4. Reach out to the press!

Why?

1. Dating Apps are widely used¹
2. ...carelessly by users
3. ...carelessly by providers
4. Raise awareness!

¹lovoo: ~1.9mio/day (techcrunch, 09/17), tinder: ~10mio/day (techcrunch 09/14)

Scope

Anna 22 ♀

Height: —

Smoker: —

Children: —

Living Situation: With parents

Education: Company-based training

Profession: Trainee

Home Location: Friedberg

Latest Location: Augsburg

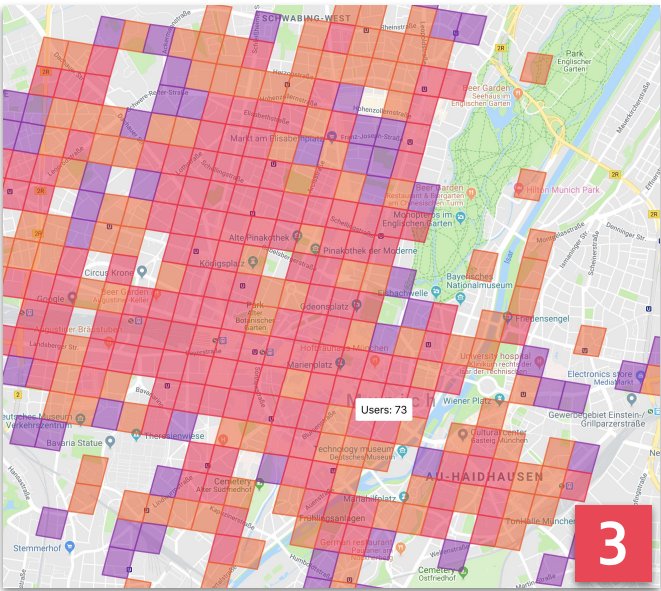
Last Online: 12/14/2018 22:45:51

Flirt Interests: Chats, Friends

Info:

LOCATION HISTORY

2



LoView

Map Satellite

RELOAD USERS RESET USERS

User Name *

Age

Gender

Search by User ID

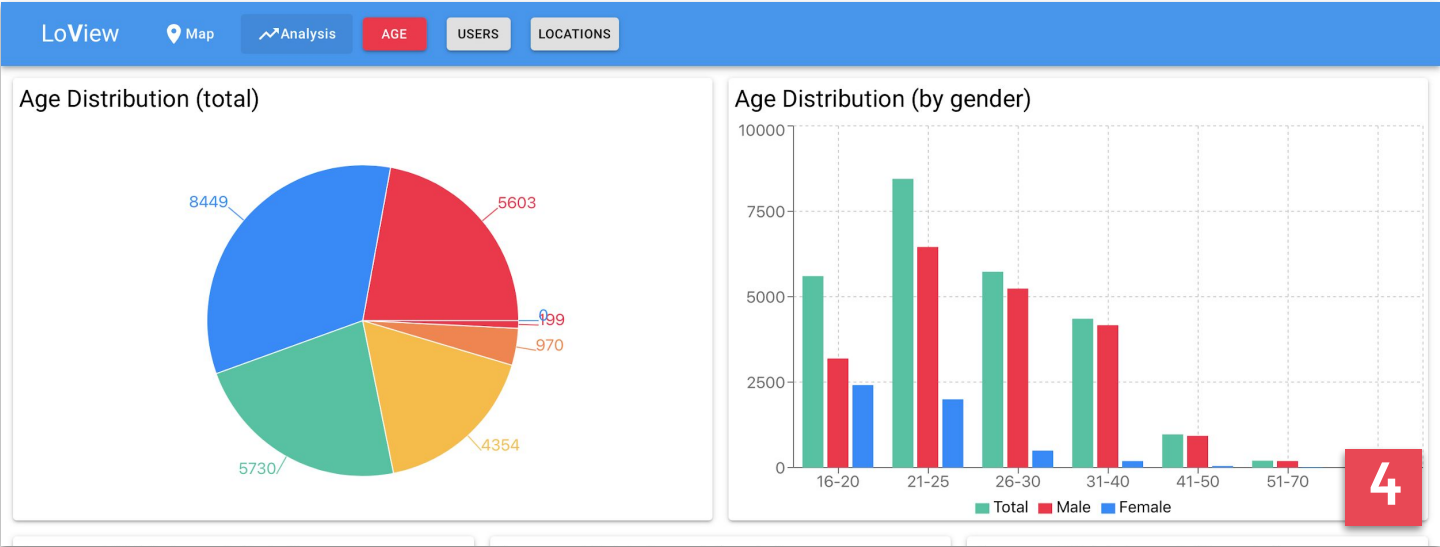
Prefix Search

SEARCH USERS

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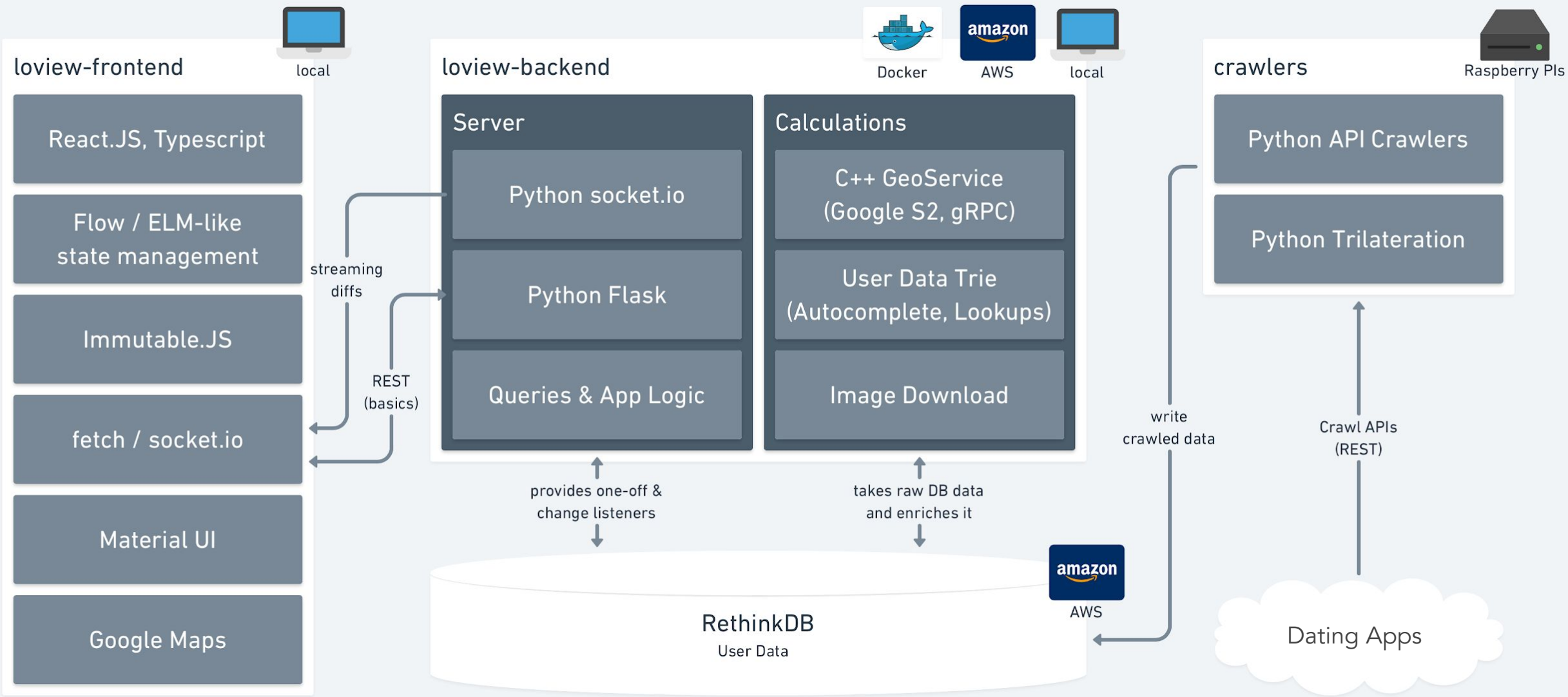
- Markus 21 ♂ Deisenhofen
- Hias 28 ♂ München
- Marcel J 31 ♂ Weng
- Sinombre 27 ♂ München
- Buja87 31 ♂ München
- JackShepard 36 ♂ München
- Kodiak 38 ♂ München
- Armando 30 ♂ München
- MatZe 38 ♂ München
- Markus 40 ♂ Freucht
- Watercove 38 ♂ Köln
- LetMeKnow 29 ♂ München
- Chaos 36 ♂ München
- alexander52 25 ♂ München
- Andis 18 ♂ München

1

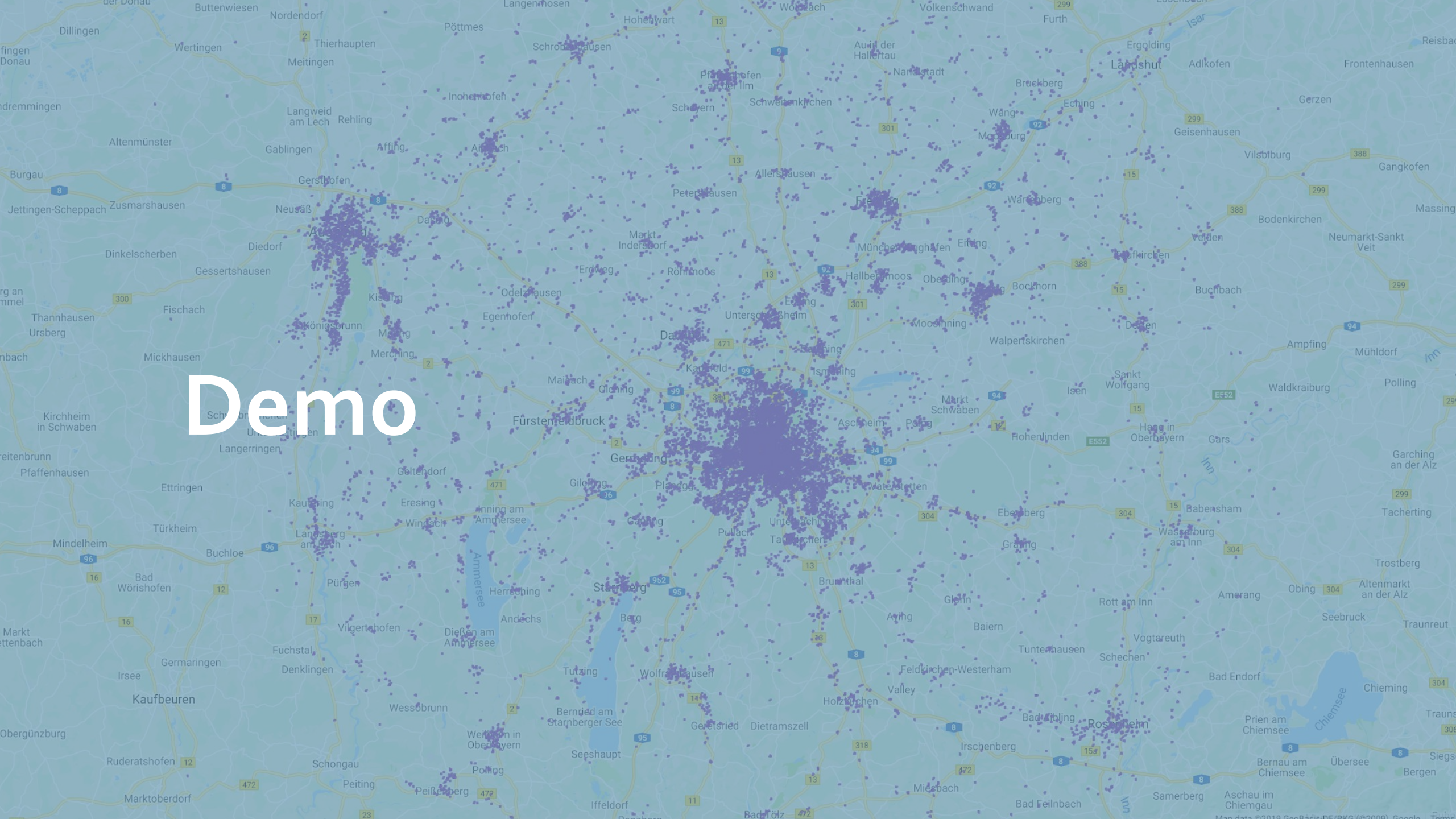


- 1 Map View
- 2 User Details
- 3 Heatmap
- 4 Analytics

Architecture



Demo



Lessons Learned

1. **Data access is easy**
2. **LoView is scary**
 - Trilateration
 - User Details
 - Prefix Search
 - Home Locations
3. **Databases & Data Structures are key**
 - Query Performance (esp. Analytics)
 - Trie
 - Image Handling

We Loview

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Programming Database Web Applications Winter Term 2018/19