



# Application Development for Mobile and Ubiquitous Computing

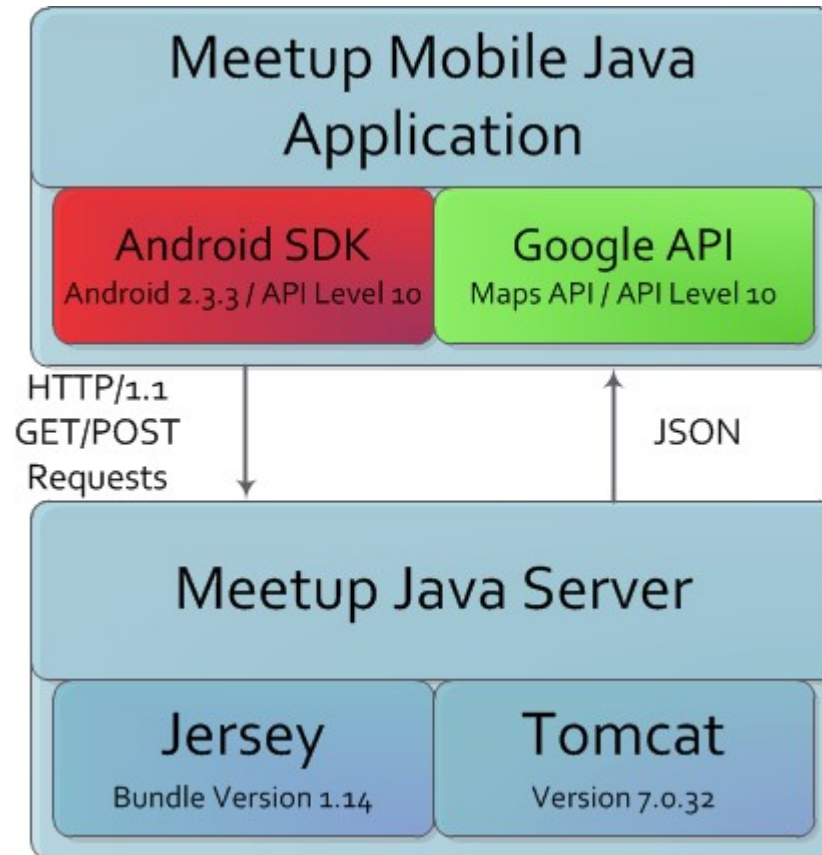
## Seminar Task Final Presentation Application: **MeetUp!**

GroupNo. 08  
Team: Fabian Göbel and Falk Morus

- Meet “MeetUp!” again
- Architecture
- Application scenario
- Goals and limitations
- Possibilities and experiences

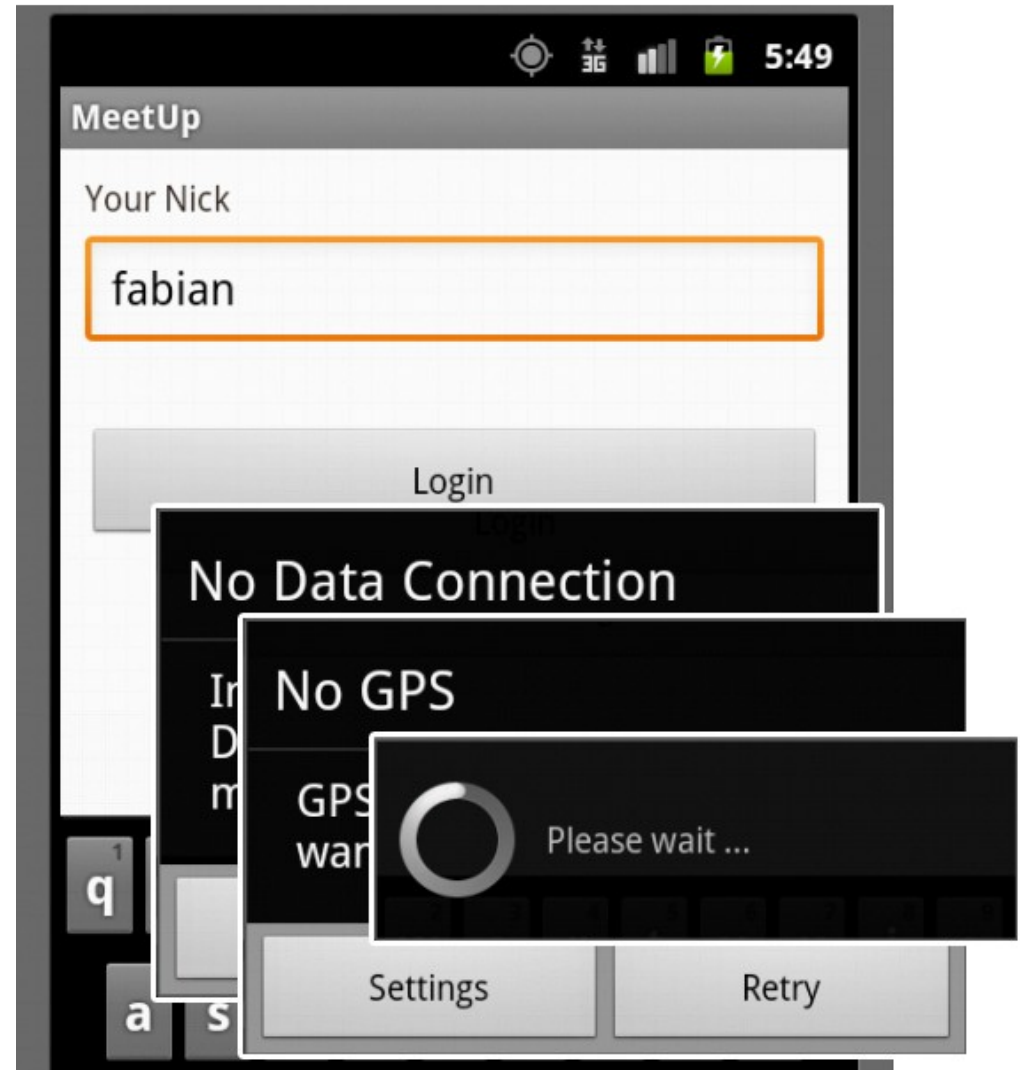
- We're building a **location based** chat client for Android
- You can create and join so called **chat zones** on a map
- **Within** you can anonymously chat with all members of that **themed** zone
- A theme can be a topic of interest or name of a location

- Overview of the project's architecture



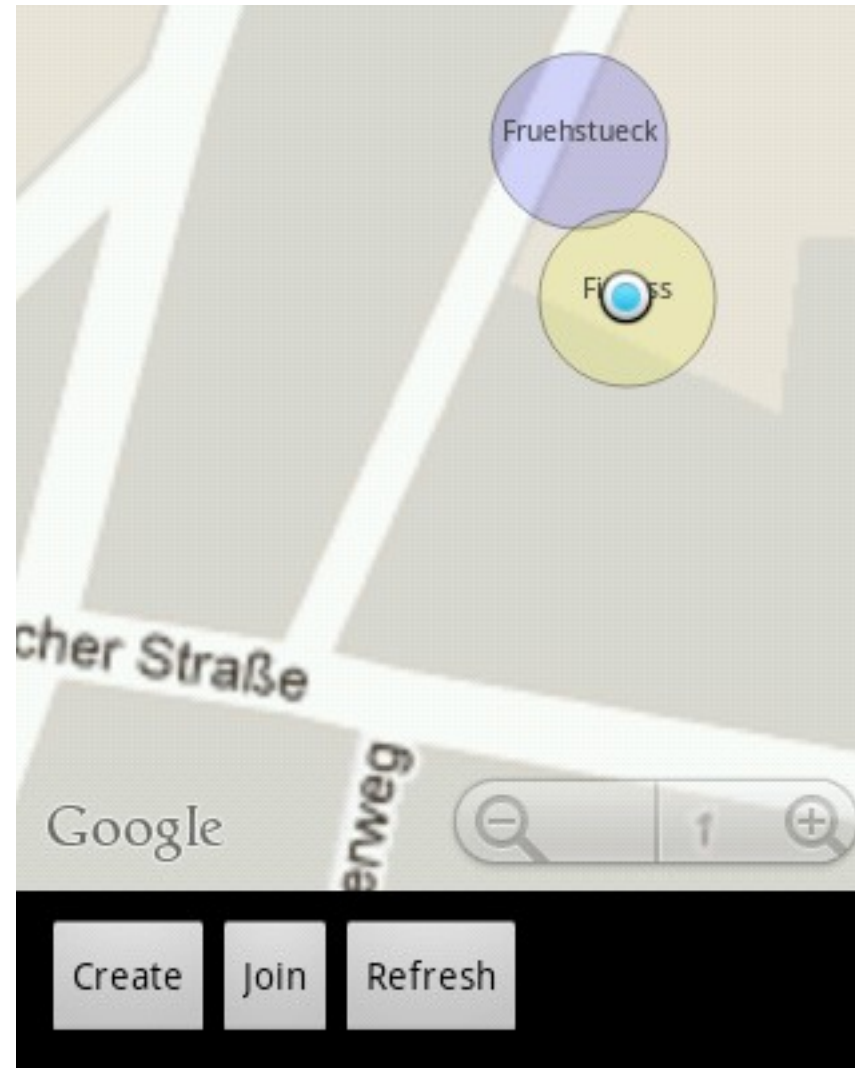
## Login / Error handling

- Check if all necessary technologies are available
- If so, User is registered with the server and can continue to the **Map View**



## Map View

- Once logged in, users can see their current location and chat zones nearby
- From here you can create and join zones



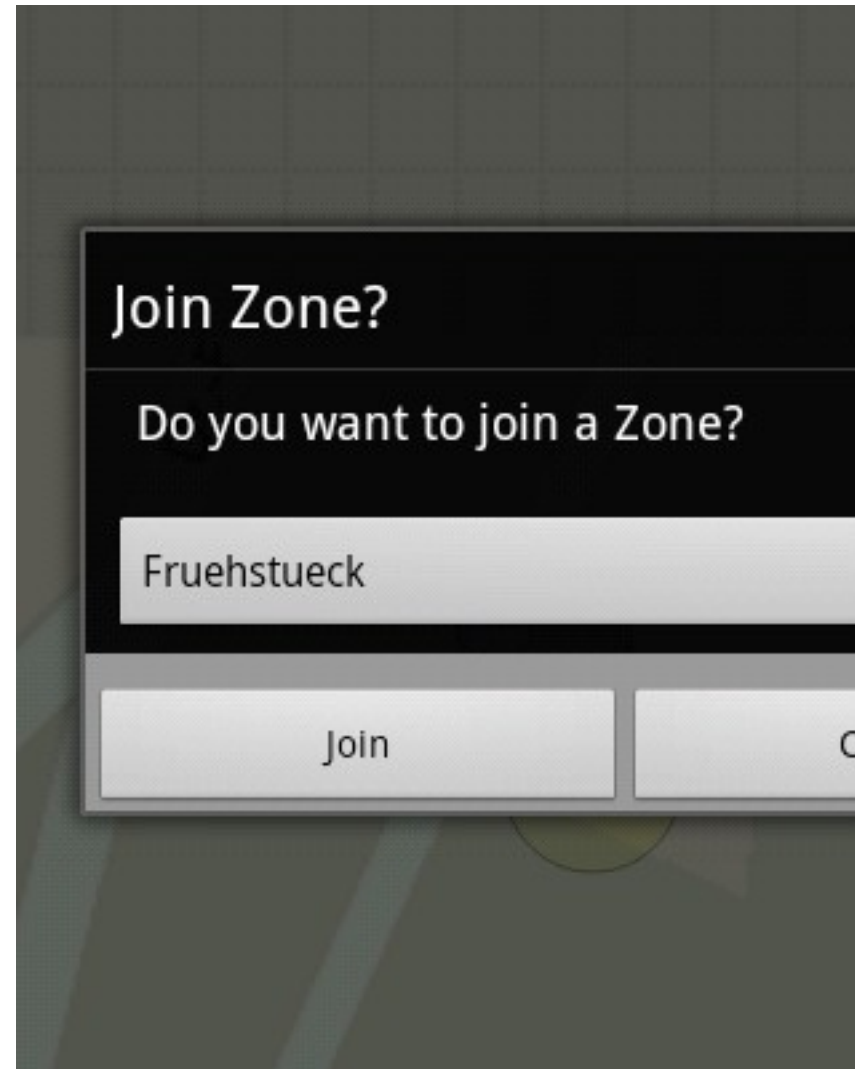
## Create Zone

- User chooses title and size of the new zone
- When created User is directed to the **Chat Room**



## Join Zone

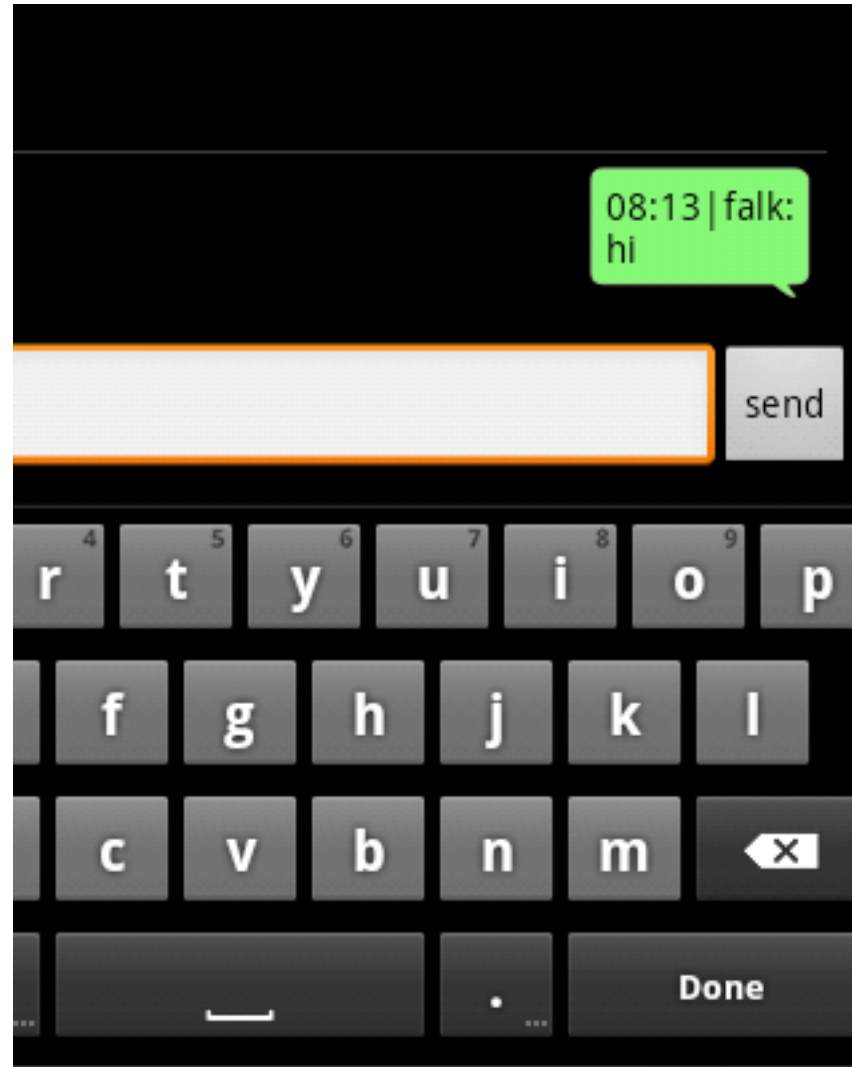
- User chooses which Zone to join
- After joining User is directed to the **Chat Room**





## Chat Room

- “Bubble-style” **Chat Room**
- From here user can leave zone and go back to Map View



- Server-Client communication
- Join and create zones around you
- Fancy chat room layout “bubble-style”
- ~~Present message when about to leave current zone and further notifications~~
- Multi user test from different virtual machines
- Followed by test with actual devices and online MeetUp! Service
- Optimized GPS-request-algorithm
- ~~Messages transported via push (Session Management)~~ (now: polling with user token)

- Adopting Google Maps API v2
- Secure messaging
- Possibility to whisper to other users
- Further prolong battery life
  
- Difficulties with different API level, migration complicated
- Fast development → API changes, different techniques for API keys
- Nevertheless fast and convenient App development possible

Thank you for your attention!

Are there any questions?