



Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

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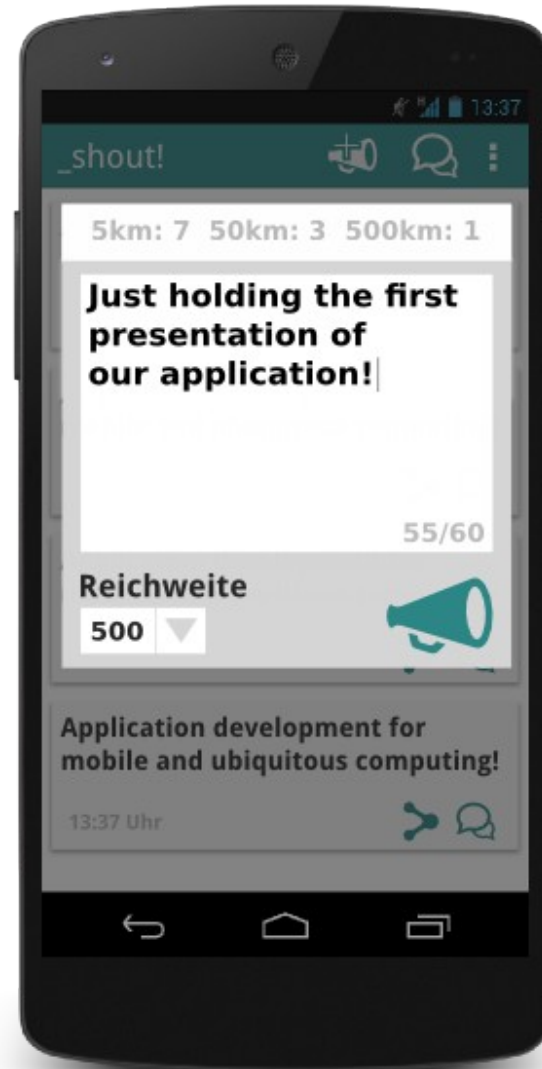
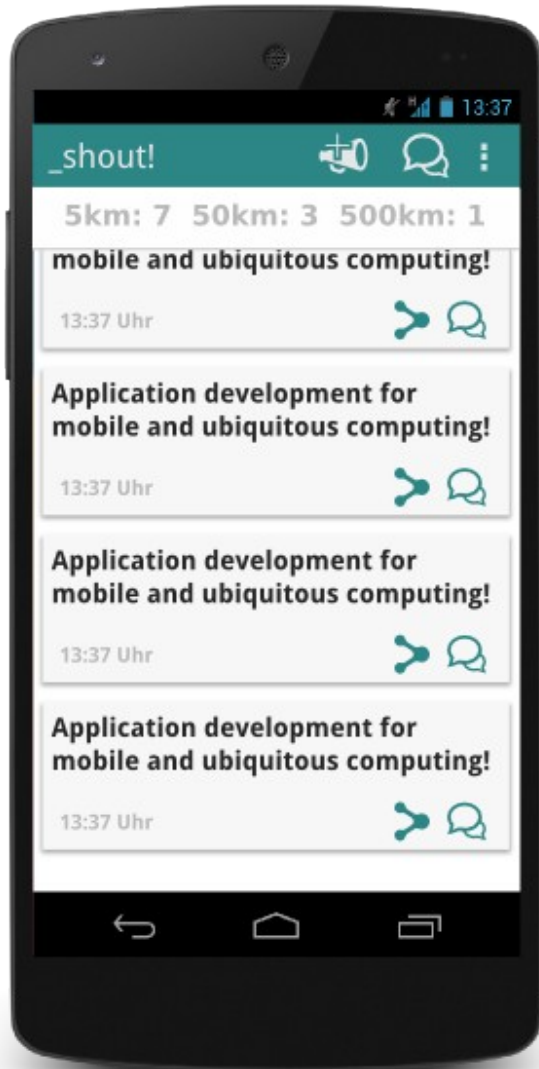
1. Application Scenario
2. Design and User Interface
3. Technologies
4. Architecture
5. Challenges
6. Work plan

- some kind of anonymous Twitter based on locations
- writing shouts
 - different fixed ranges → 5 - 500km
 - user has limited amount of shouts per day
 - shout length limited to around 60 chars
 - each shout stored for 24h
 - number of sent shouts per day depends on the range of each shout

_shout!

- reading shouts
 - listed shouts depend on reader's location
 - possibility to answer a shout via private message

- private conversations
 - pseudoanonymous (random id as nickname)
 - can be canceled by each participant

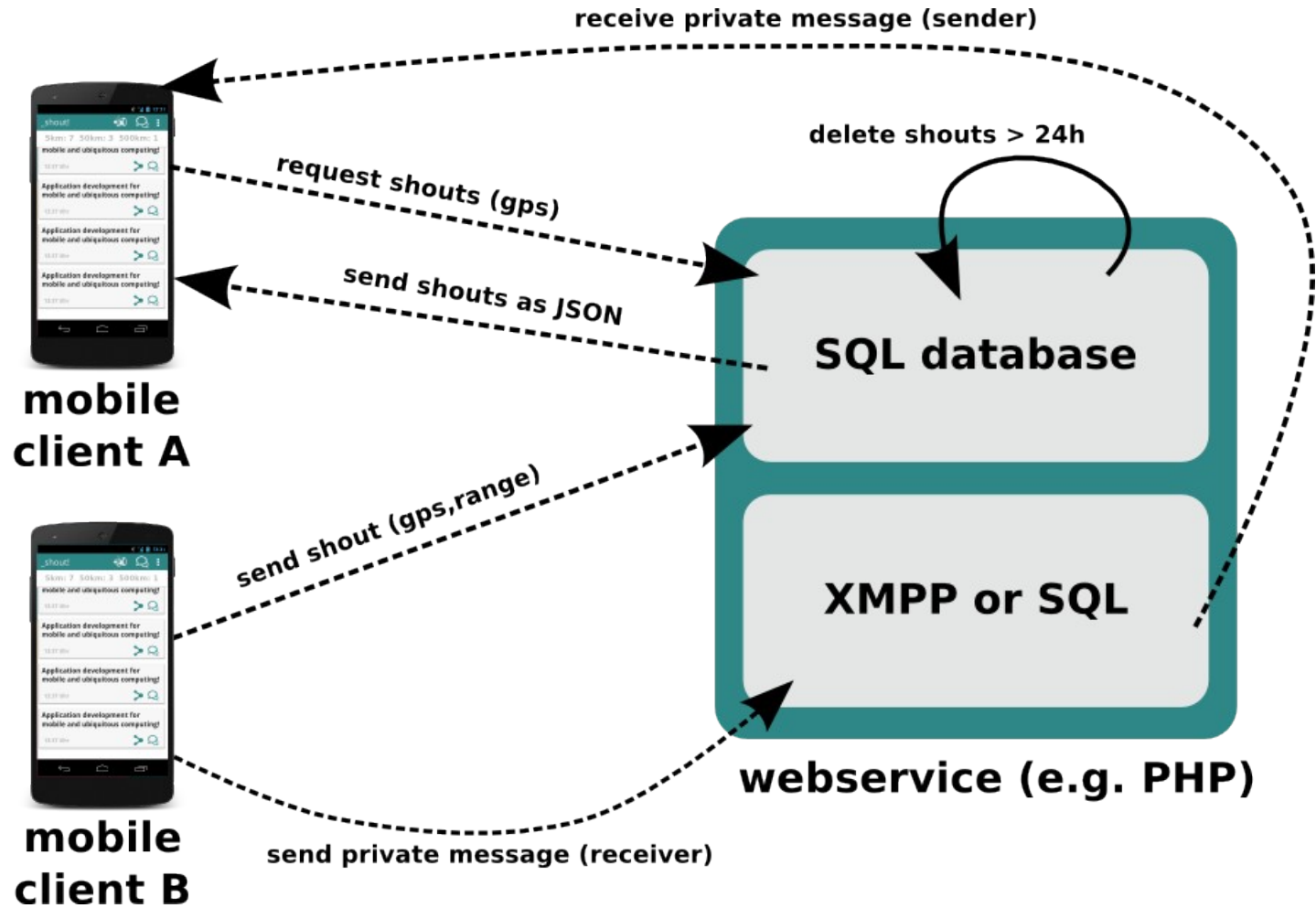


Client

- OS → Android > version 4.0
- geolocation → GPS and netbased tracking

Server

- SQL database for storing shouts
- XMPP for private conversations



- offline challenge
 - downloaded shouts stored on device
 - option to set the amount of stored shouts

- usability challenge
 - clear and structured user interface
 - use of android specific gestures / controls
 - tutorial / help views

- connectivity challenge
 - reduce amount of sent data to minimum

2014

- 11/20/14 → application base, elementary ui controls
- 12/01/14 → sql server
- 12/10/14 → communication between app and server
- 12/19/14 → adaption docs
- 12/31/14 → private message system

2015

- 01/15/15 → finalize user interface
- 01/30/15 → testing / bugfixing / final presentation

Questions?

Thank you for your
attention!