



TECHNISCHE
UNIVERSITÄT
DRESDEN

Department of Computer Science Institute for System Architecture, Chair for Computer Networks

Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

GroupNo. 16

Team: Duong Nguyen Khai Hoang, Tino Noeres



This is Andy.

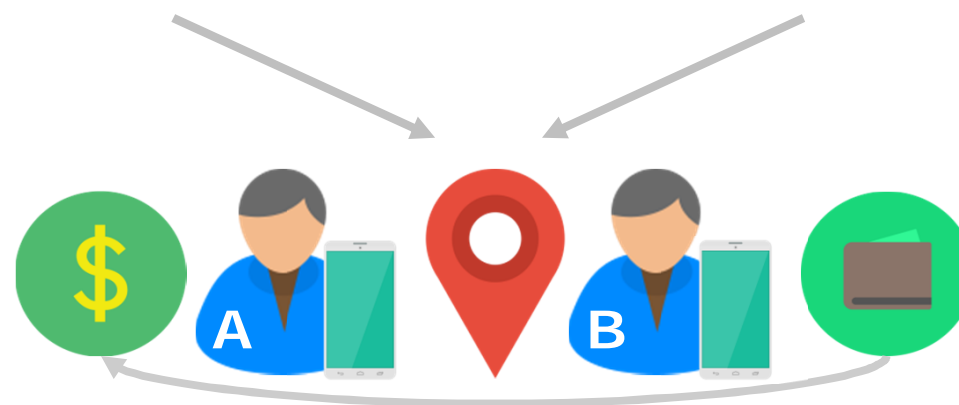


And this is Bob.



- Owns a camera
- Doesn't have time to take photos

- Has to take photos
- Cannot afford a camera

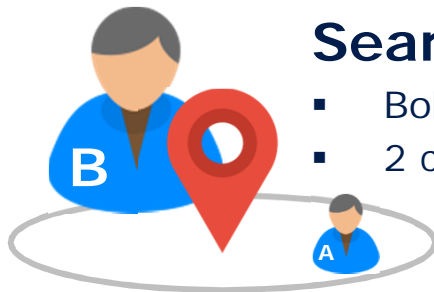




Upload an offer

- Andy can simply upload an offer:

*“Offering camera – Do you want to borrow my camera?
5 €/h”*



Search for offers near me

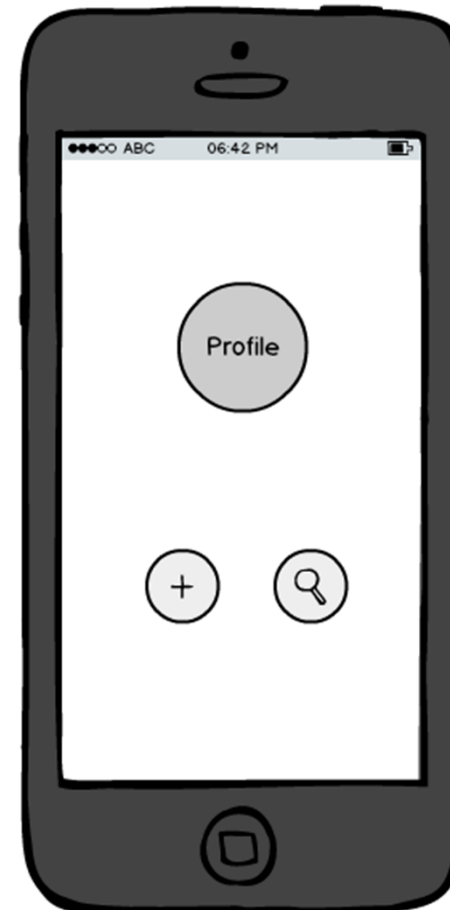
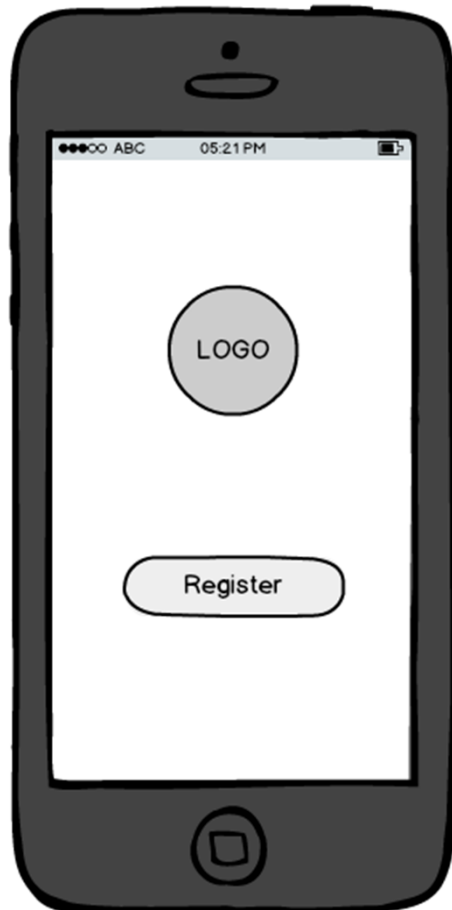
- Bob can search for offers near his current location
- 2 categories: Items to be lent, services to be used



Privacy

- For security reasons Bob will not get the exact location of Andrew
- Bob can contact Andrew via phone or email

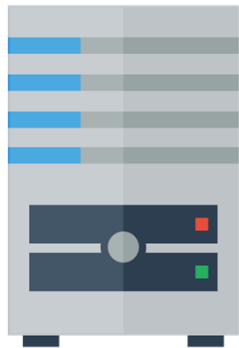
Mockup – Start screen











- Running a webservice implemented with PHP
- Webservice will provide access to the database
 - Add data to database (user information, offer)
 - Search for data (offers nearby)
- Communication via SOAP
(Simple Object Access Protocol)
- Errors reported with fault messages
(errorhandling is done by client)



- Client application for Android devices
(implemented in Java)
- Use Android's build-in location manager functionality to get location
- Make use of the ksoap2 library for SOAP functionality
- Store data in local database for offline mode



Location

- Find offers nearby
- Use GPS location to personalize search results



Internet connection

- Consider internet status (connected/disconnected)
- Show error messages to user when no connection can be established
- Save data locally (*optional*)



User experience

- Make suggestions when creating account by using information from phone book (*optional*)



Get location

- Get user location correctly and effectively
- Save energy



Connect to webservice

- Implement a webservice providing database access
- Connect to webservice
- Working with exchange formats (SOAP)



Comfortable UI

- Simple and lightweight user interface
- Easily access important information

10/17/14 – 11/2/14	<ul style="list-style-type: none"> Collecting ideas & brainstorming Thinking about possible apps
11/3/14 – 11/6/14	<ul style="list-style-type: none"> Presentation slides Discussing the main ideas of future app
11/7/14	First presentation
11/8/14 – 11/30/14	Implementing first prototypes, testing technologies
12/1/14 – 12/18/14	<ul style="list-style-type: none"> Implementation of webservice Further app implementation Writing the concept
12/19/14	Adaptation concept document
12/20/14 – 1/4/14	<ul style="list-style-type: none"> Implementation Testing
1/5/15 – 1/18/15	Bugfixing
1/19/15 – 1/29/15	<ul style="list-style-type: none"> Finalization Presentation slides
1/30/15	Final presentation

Sources (*graphics*):

- <http://www.graphicsfuel.com/>
- Paomedia on <http://www.iconfinder.com/>
- Jonathan Patterson on <http://www.iconfinder.com/>
- Magnus Emil Liisberg Holding on <http://www.iconfinder.com/>
- Jerry Low on <http://www.iconfinder.com/>
- Boyan Kostov on <http://www.iconfinder.com/>
- <http://www.yanlu.de/>
- <http://ionicons.com/>
- Gregor Cresnar on <http://www.iconfinder.com/>
- <https://balsamiq.com/>