



TECHNISCHE
UNIVERSITÄT
DRESDEN

Application Development for Mobile and Ubiquitous Computing

Seminar Task First Presentation

GroupNo. 7

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- Help needed for a task
- Psychology:
 - relatives = likeable
 - many encounters -> familiar
- Conclusion:
 - ‚Employ‘ people you already ‚know‘
 - Easy contact with people from your area

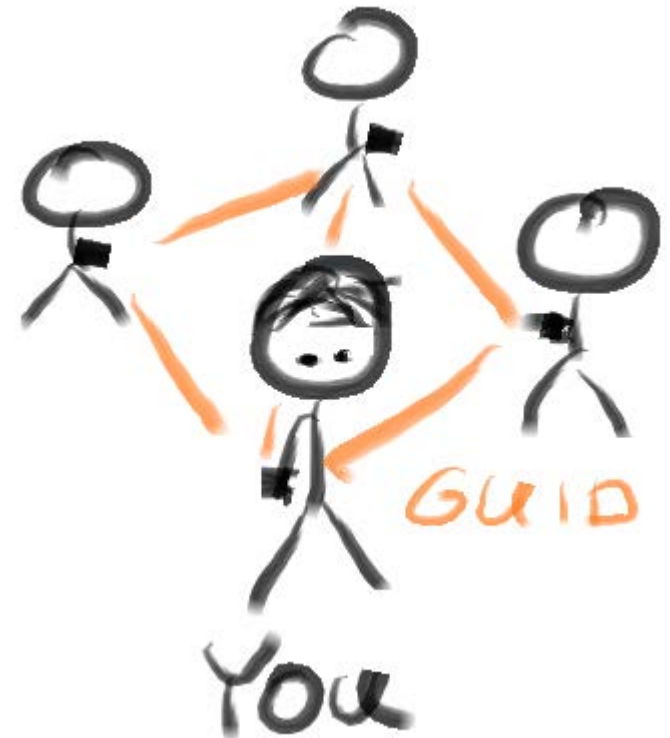
Use Case

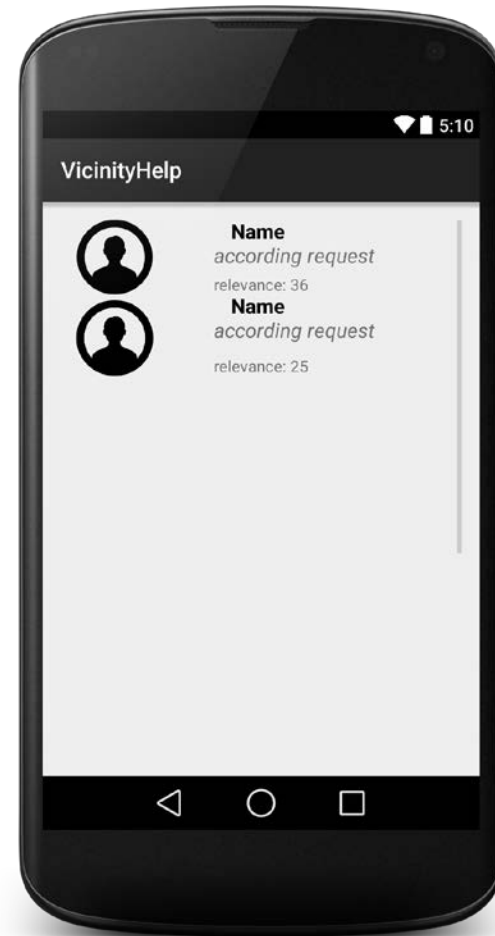
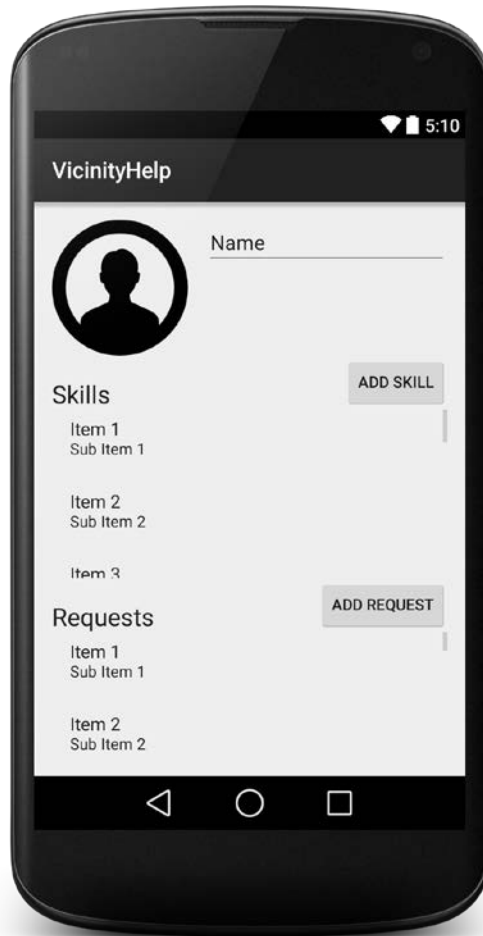
- Create profile
 - Abilities
 - Requests (public or not)
- Search for help
- View data set
 - Own requests + matches
 - All acquaintances
- Change settings



Scanning

- Scan for users around your position
- Increment counter
- Request profile if not in DB
- Notification on match





,User Avatar Main Picture' icon made by Bogdan Rosu, CC BY 3.0, http://www.flaticon.com/free-icon/user-avatar-main-picture_69442

General

- Android
- Google Nearby
 - WLAN
 - Bluetooth
 - GPS
- SQLite

Local database

- ID
- Count
- Profile data
 - Timestamp
 - Abilities
 - Requests

Connectivity

- Scanning radius
- Connection abort, i.e. while fast travelling
- Local storage
- Efficient data transfer

- Peer-to-peer vs. server-based

Energy

- Scan frequency
- Most efficient scanning technology

Usability

- Contact matched people, i.e. notification on next meeting
- Compare requests and abilities

- Basic structure
- Accuire API usage knowledge
- Phone interconnection
- Data storage
- Design