

APPLICATION DEVELOPMENT FOR MOBILE AND UBIQUITOUS COMPUTING

SPEAKER-SEEKER

App Idea and Basic Concept

Group #13

Olga Lyudchik – Chang Hong





APP SCENARIO

How to use these creepy ticket machines?



- use Speaker-Seeker to find a person who will help you to buy a ticket

Feel like an alien from another planet?



- with Speaker-Seeker you can find a friend who will understand you, literally

Got into trouble but don't know how to ask for help?



- having Speaker-Seeker installed on your smartphone you will no longer panic in an emergency 2



APP SCENARIO

Want to touch the world heritage?



- use Speaker-Seeker to find your personal guide-translator

In a hurry and cannot find the right platform or terminal ?



- with Speaker-Seeker quickly find someone who will navigate you in unfamiliar airport or train station

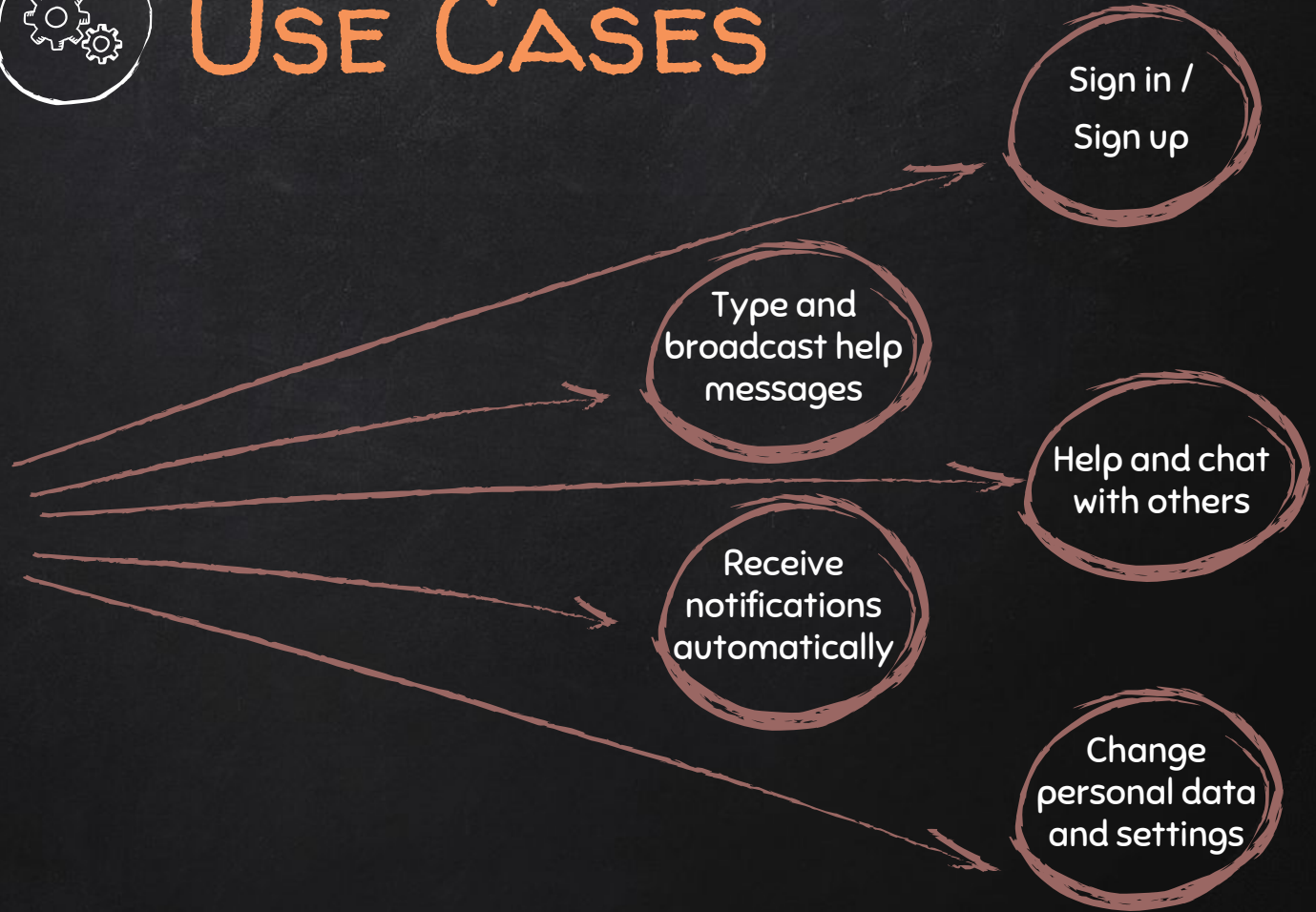
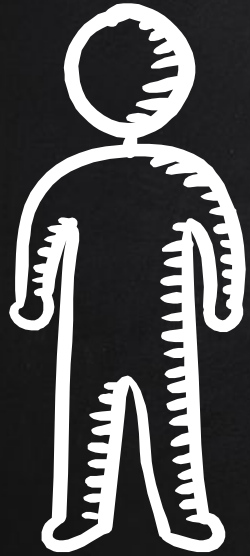
Don't want to eat unknown foods?



- find a person who will help you to recognize familiar products in foreign foods

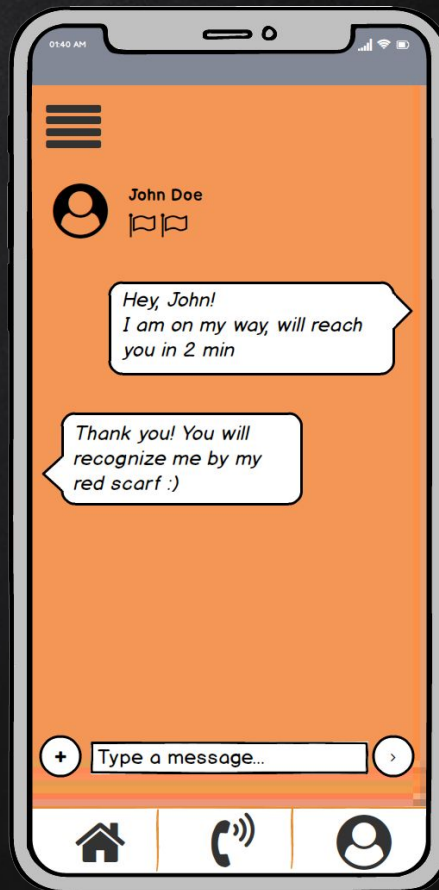
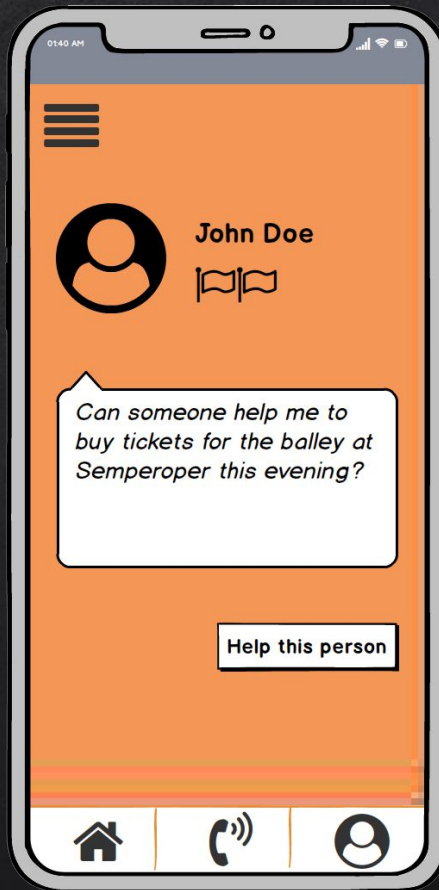
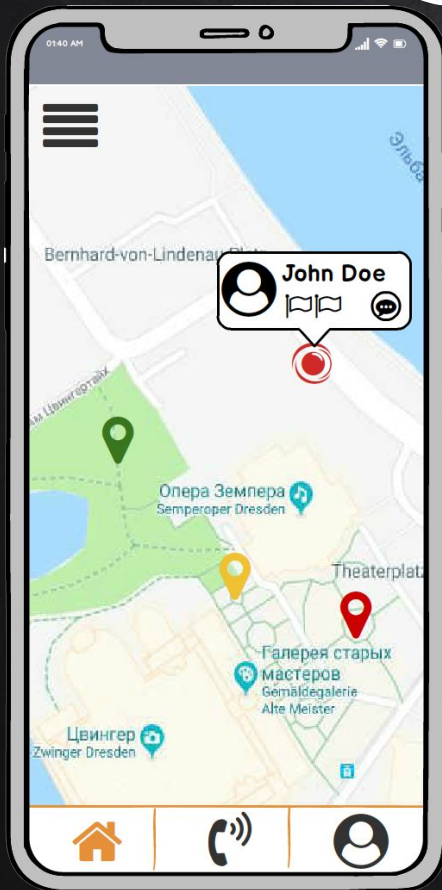


USE CASES



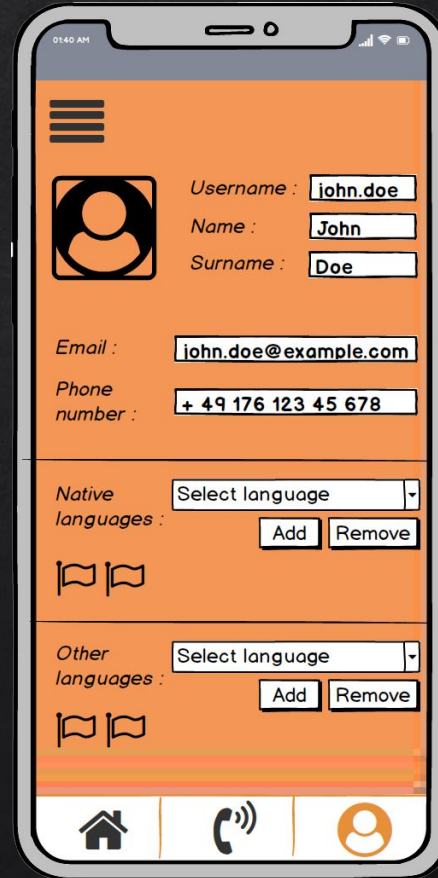
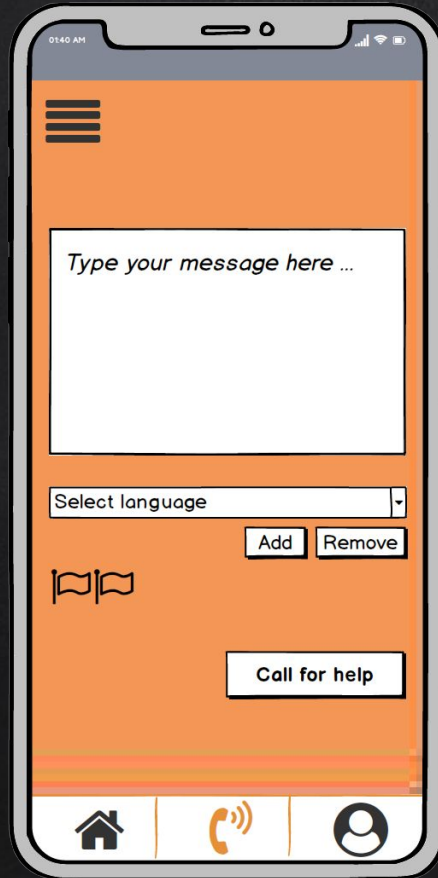


MOCKUPS





MOCKUPS





CHALLENGES

- x Communication Challenge**
 - Real-time chats between users
 - Send notifications to tagged users
- x Energy Challenge**
 - Share current locations of all users wisely: if not enough battery – no background location querying
- x Usability/Form Factor Challenge**
 - User-friendly UI on devices with different form factors
- x Connectivity/Offline Challenge**
 - Detect offline status
 - Detect quality of the internet connection and use the bandwidth smartly



ARCHITECTURE



TECHNOLOGIES

- ✗ OS : Android OS
- ✗ Language : Java
- ✗ IDE : Android Studio
- ✗ Version control system : Git
- ✗ Database : Google Firebase
- ✗ Maps API : Google Maps



WORK PLAN



- Finalize use cases/requirement analysis
- Design mockups
- Setup Android Studio and get familiar with Android environment

- Setup server/database
- Implement client/server communication
- Design and implement UI

- Test & Debug
- Release working prototype



THANKS!

Any questions?