



Application Development for Mobile and Ubiquitous Computing Seminar Task First Presentation

GroupNo. 13

Team:

Anna Utlik

Kateryna Iermakova

- Application Scenario
- Use cases
- Technologies
- Challenges
- Work plan

- With the developing of international cooperations people should learn more and more foreign languages
- Grammatics is complicated, but....thousands of new words are even more complicated!
- Each person looks for itself own way to learn new words
 - constantly repeat lists of words (always is smth, that is more important)
 - use cards (too lazy to write, to lazy to cary with)
 - read a lot (not enough time for reading)
 - use software (e.g. Abby Lingvo Tutor) (do you always use computer?)

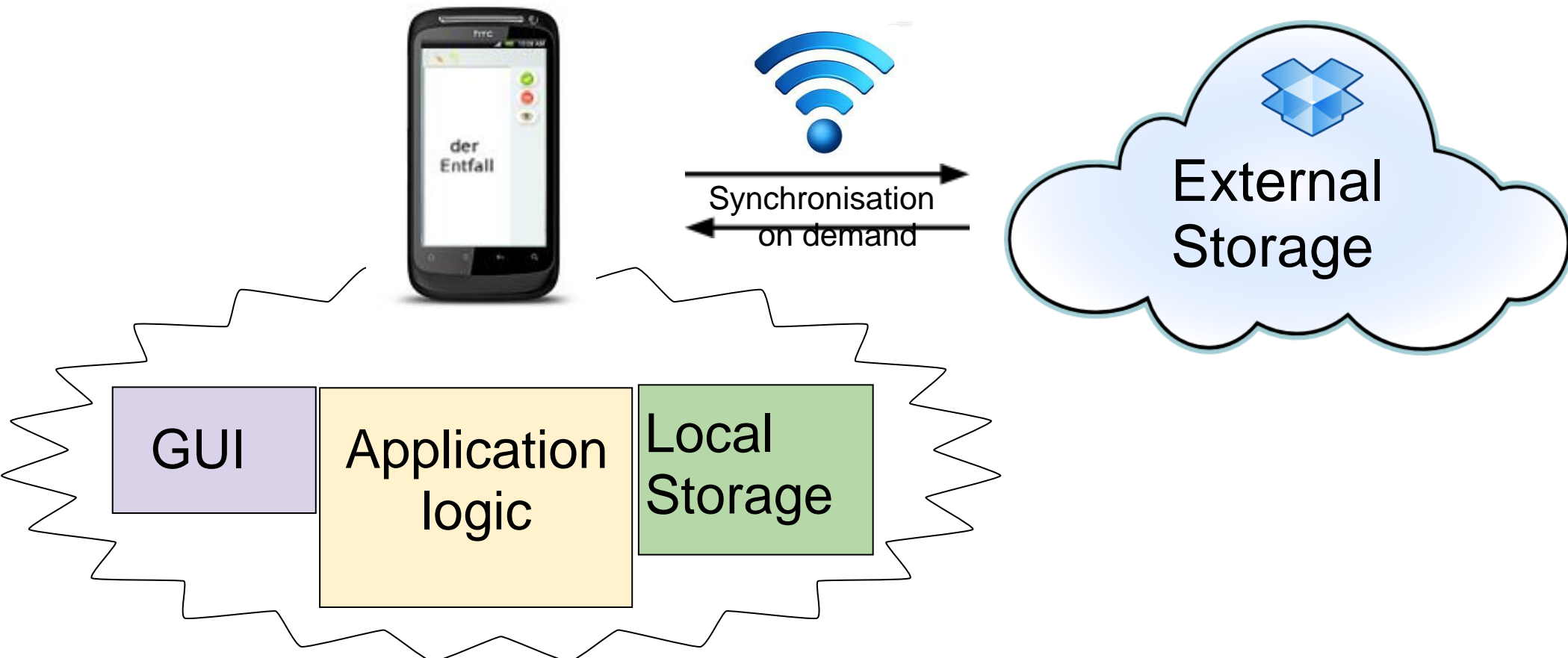


- Standalone application for learning and improving foreign language skills
- Setting personal preferences
- Adaptation to client resources and connectivity
- Possibility of creation of many "Workspaces" (phone, PC, laptop)

- User should be able to modify settings (period of notification, number of words, etc.)
- User should be able to define custom vocabularies
- User should be able to add new words and phrases (not restricted)
- User should have possibility to skip the exercises



- Android SDK
- Java SE
- Dropbox - free service, provides easy file sharing
- Wireless Local Area Networks and Wide Area Networks



- **Device resources:**
 - Adopt GUI to small screen of mobile device
 - Optimize usage of processing power
- **Connectivity:**
 - Provide low dependance on the Internet connection by using local storage for vocabulary and settings
- **Synchronization:**
 - synchronization of the local storage and external storage for providing possibility to work with severel instances (mobile phone, laptop, PC)

- Develop application architecture
- Develop of GUI considering mobile screen's issues
- Synchronization of local storage on mobile device and external storage