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. 14
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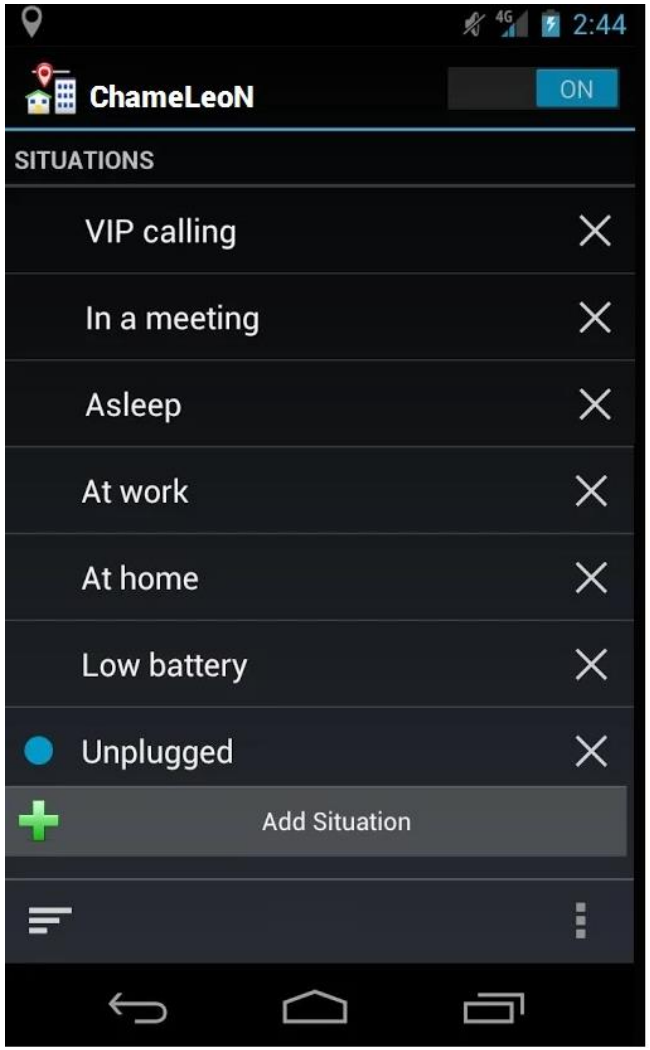
CHAMELEON

CHAMELEON-Application Scenario

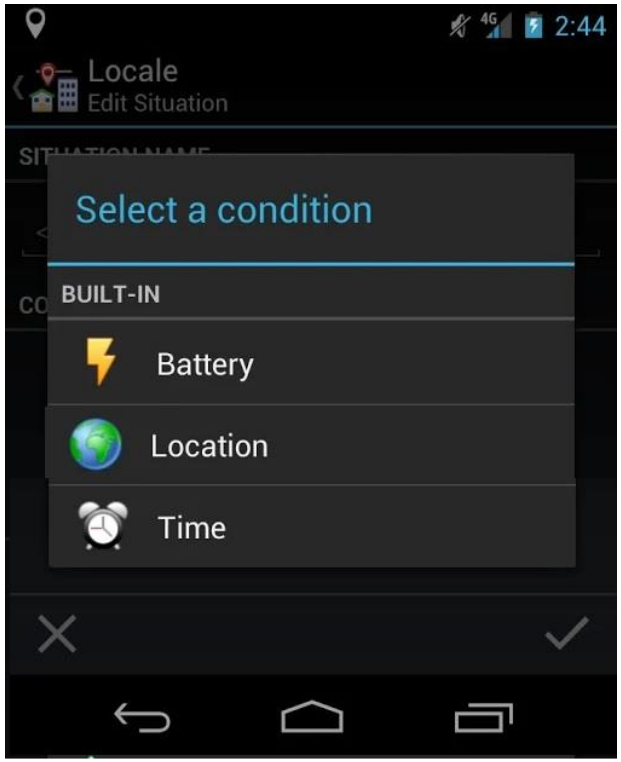
- A mobile app that automatically adjusts your phone settings according to your environment!
  - Location – switches on WiFi when you reach home
  - Time – turns Silent when you enter office/university
  - Battery – Lowers brightness/volume according to Battery level
  - etc.

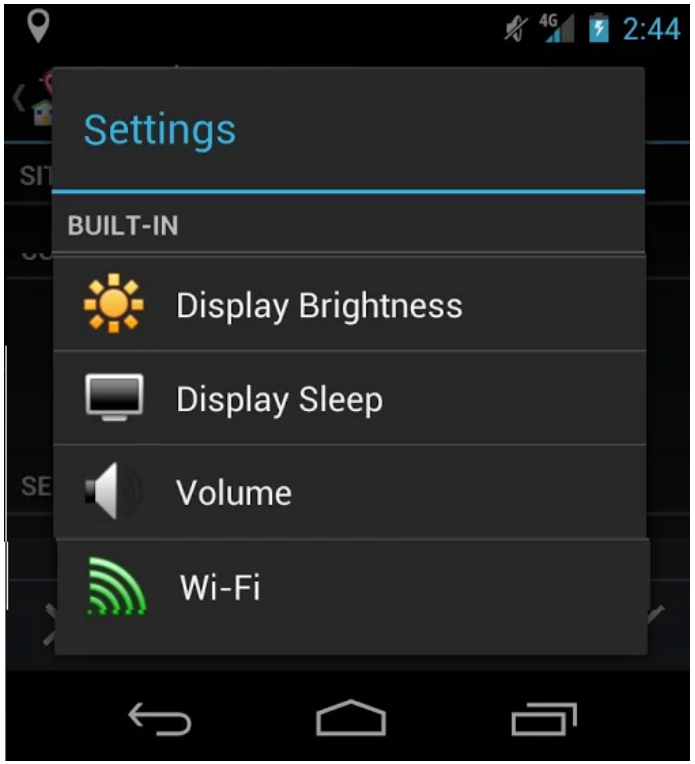
CHAMELEON-Application Scenario

- **List of default situations offered**
- **Addition of custom situations possible**



CHAMELEON-Application Scenario





Technologies

- Location services
  - GPS
  - WiFi
  - Google Maps
- Android SDK
- XML
- IDE
  - Eclipse + ADT plugin

Challenges

Connectivity
- Unavailable GPS

Heterogeneous usage scenarios
– Within the location, different mode might needed

Resources
- Battery Consumption due to GPS
- Internal storage

Usability
- Unknown/Unsaved user location
- Easy of Access, Friendly User Interface

Work plan

- Familiarization with Android SDK and other technologies
- Definition of core functionality (basic situations etc.)
- Prototype Development
  - Implementation of core features
  - Designing a basic GUI
- Test, Debug ,Test-again!
- Finalize implementation
- Final Documentation and Final Presentation