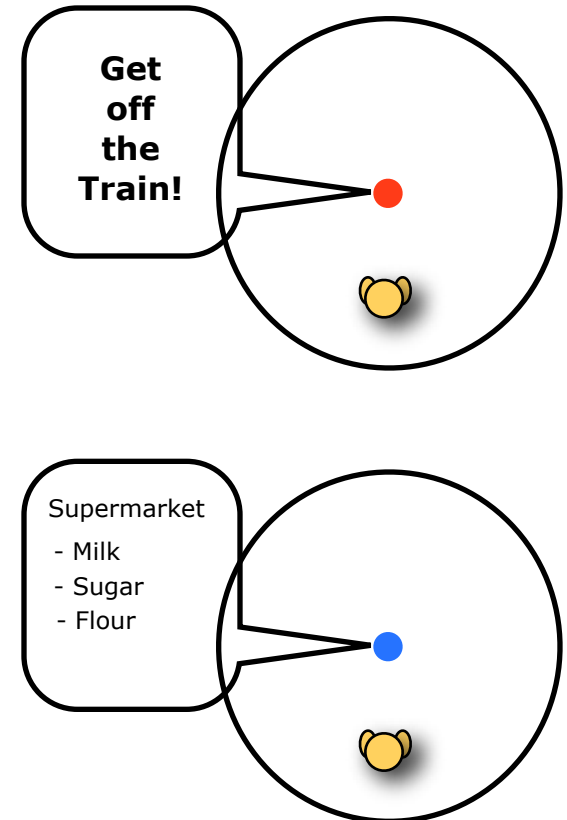


# Application Development for Mobile and Ubiquitous Computing

## „RemindMe“ Second Presentation

Group Nr. 17  
Norbert Harder

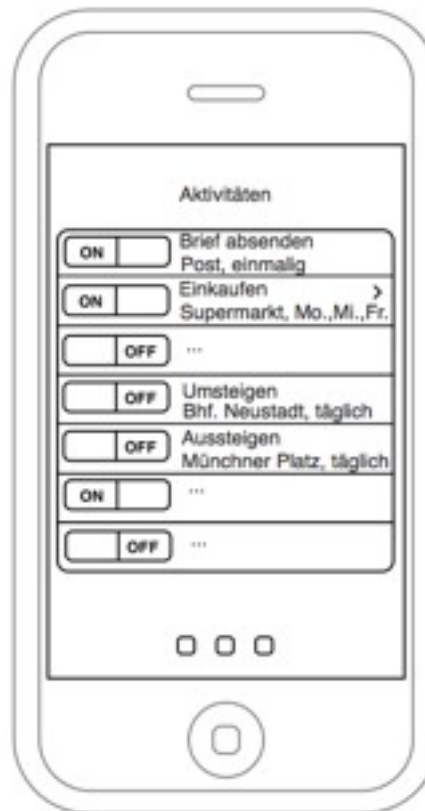
- Idea: Application for Location based Notifications
- Useful for:
  - reminding you of doing sth. at a specific location
  - waking you up (e.g. in a train)
  - providing you special todo-lists depending on your location
  - ...
- (Possible extension with Server Side Component for sharing of locations and todo-lists)



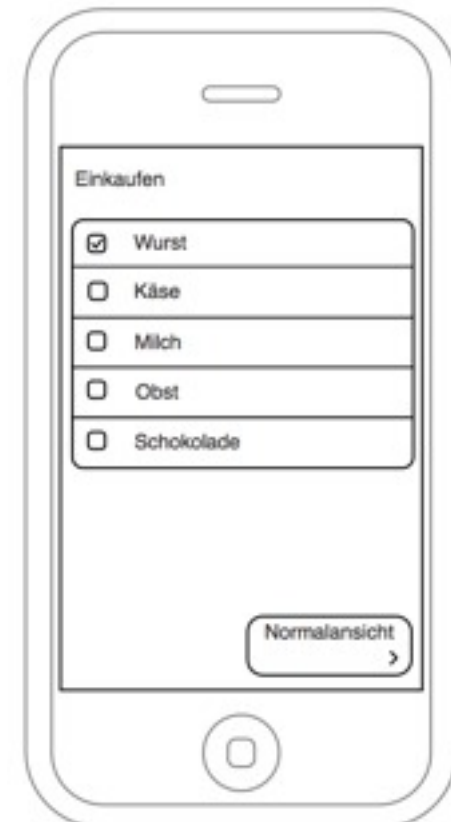
- Concept in Detail



**Defining Locations**



**Defining Notifications**

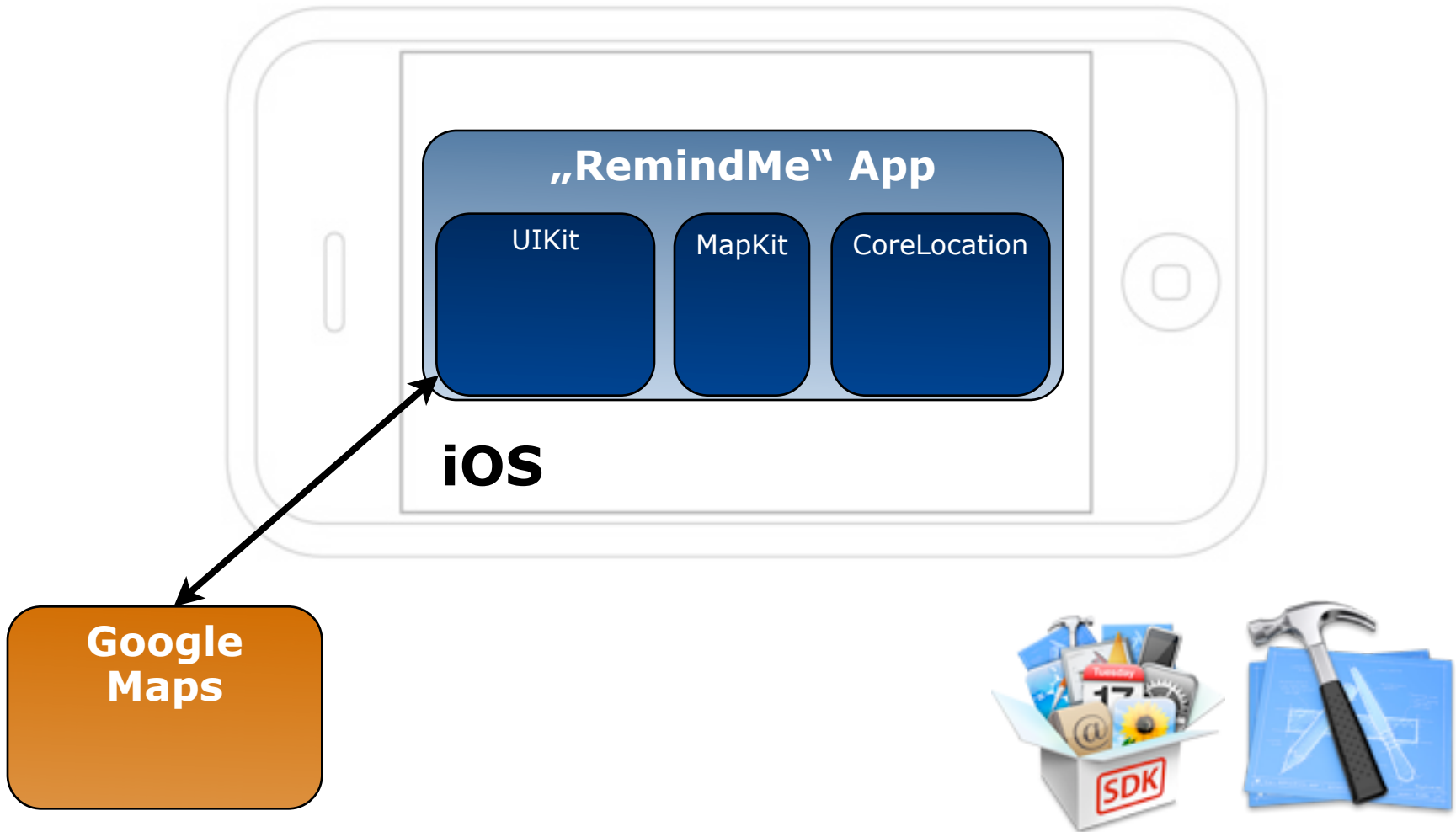


**View based on Location**

- Currently Implemented
  - Definition of Locations
  - Creation of Notifications
  - Activate / Deactivate Notifications
  
- Planned
  - Notifications can depend on a specific time and conditions
  - ToDo-Lists for Notifications
  - Location based View

## Short Demo

- implemented as local iPhone Application
  - iOS 4.1 / 4.2
  - Objective C
  - XCode IDE
- (possibility of extension with a server component for sharing locations and todolist between multiple phones)



- Platform Specific Challenges
  - Objective C Language
  - Memory Management
  
- General Challenges
  - Battery Consumption due to extensive use of GPS
    - choosing right update interval
    - trade-off between accuracy and power consumption
    - running in Background
  - Usability
    - displaying the user the information he needs
    - editing and creation of notifications



- now - Beginning of November
  - getting an Overview about the iOS SDK, Objective-C and necessary Frameworks
  
- till 17.12.2010
  - Prototype with the essential functionality:
    - Possibility to define locations
    - Warning when approaching that locations
    - Simulation-Mode

- till 28.01.2011
  - Persistence
  - GUI improvements
  - Location based View
  - ToDo Lists
  - conditional Notifications