

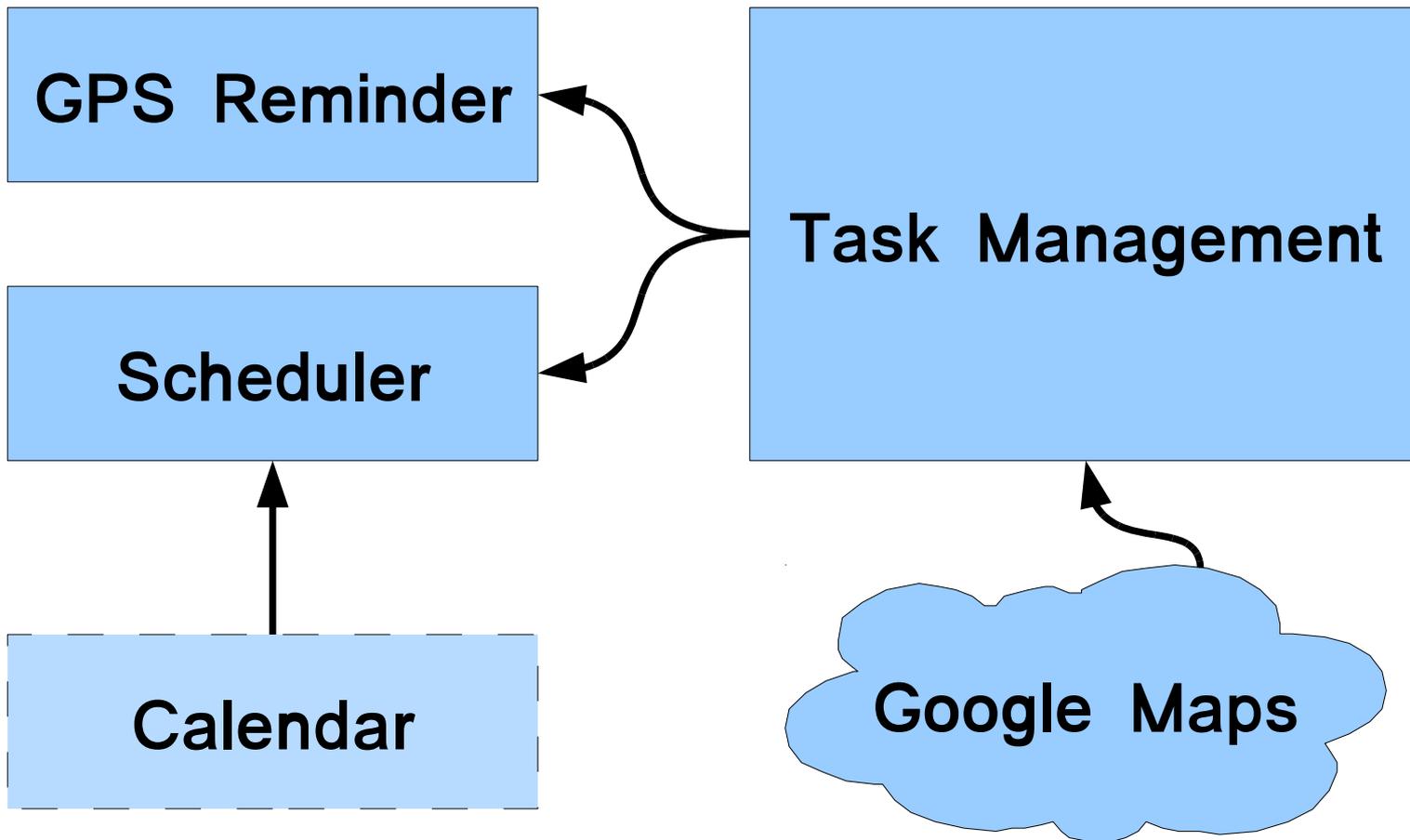


Application Development for Mobile and Ubiquitous Computing

Task 6: Location-Aware Scheduler Final Presentation

Group 6
Lars Beier, Carlchristian Eckert

- A student's life typically is full of tasks to do
- Using your time is essential
 - your smartphone can help you to schedule your tasks
 - Fit all the tasks in your regular schedule
 - location-based approach
 - Phone can remember you which task might be desirable to do now



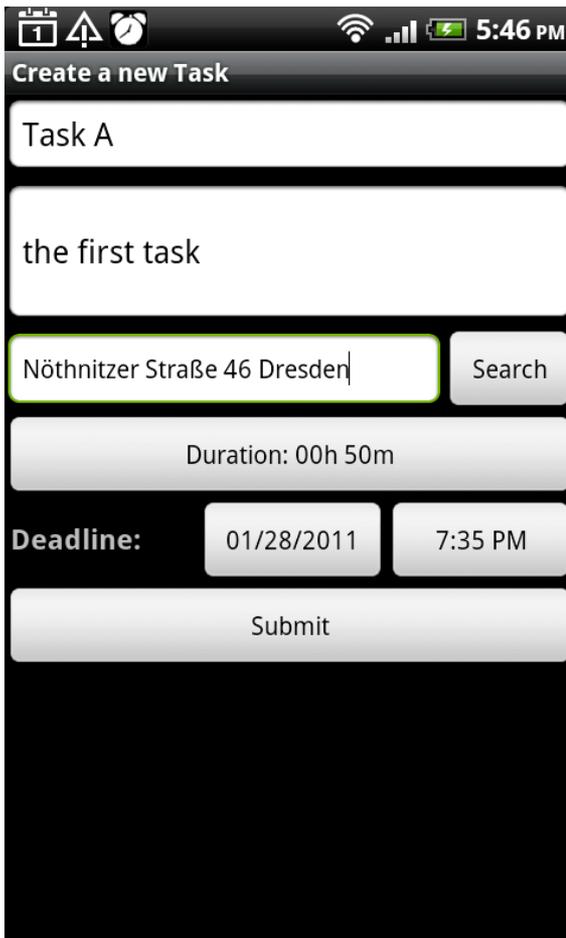
- Android 2.2 (2.1 not fully supported)
- Use GPS/WIFI to determine position
- Use of Internet connection for GeoCoding, fetching map images and synchronization with your Google Calendar



- No tasks defined, only upcoming events in the schedule



- Lets add a new task:



5:46 PM

Create a new Task

Task A

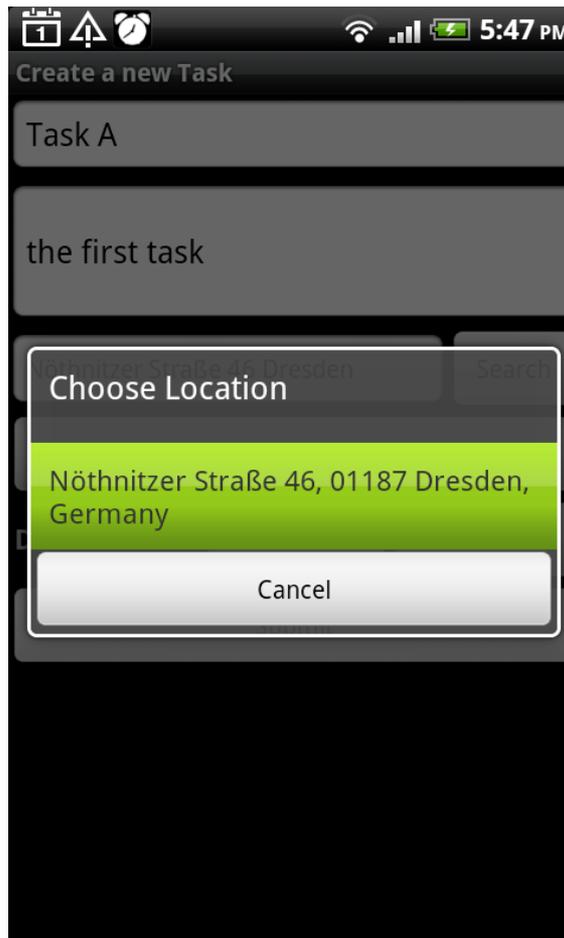
the first task

Nöthnitzer Straße 46 Dresden Search

Duration: 00h 50m

Deadline: 01/28/2011 7:35 PM

Submit



5:47 PM

Create a new Task

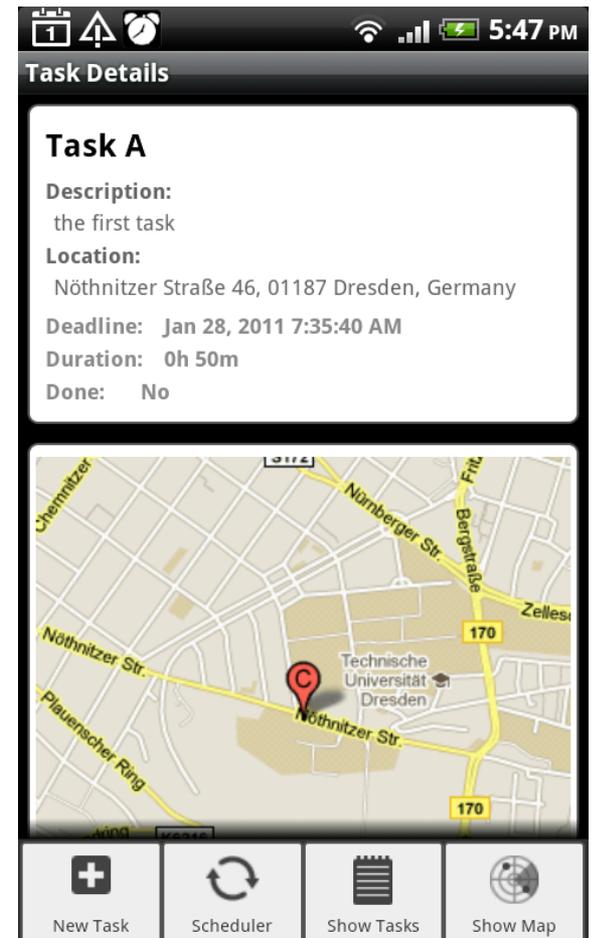
Task A

the first task

Choose Location

Nöthnitzer Straße 46, 01187 Dresden, Germany

Cancel



5:47 PM

Task Details

Task A

Description:
the first task

Location:
Nöthnitzer Straße 46, 01187 Dresden, Germany

Deadline: Jan 28, 2011 7:35:40 AM

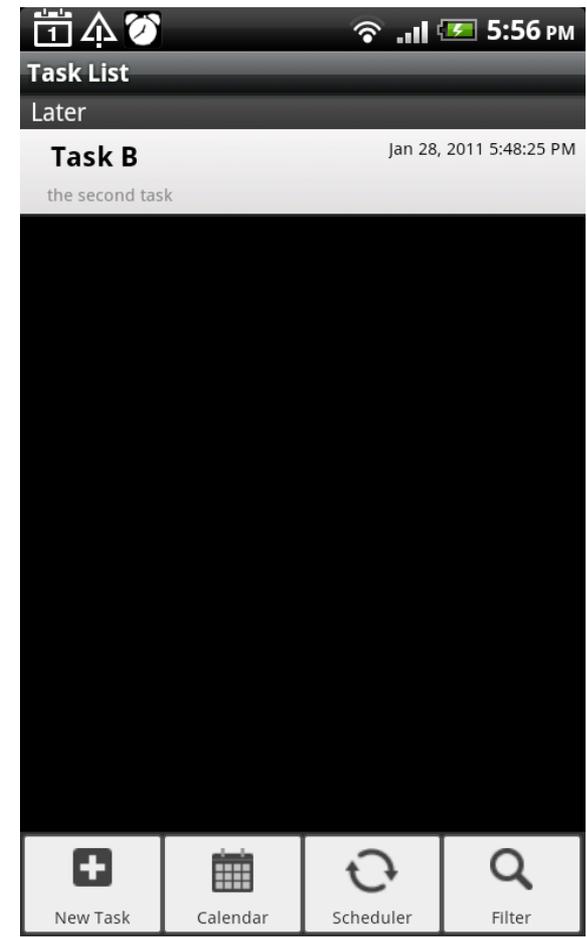
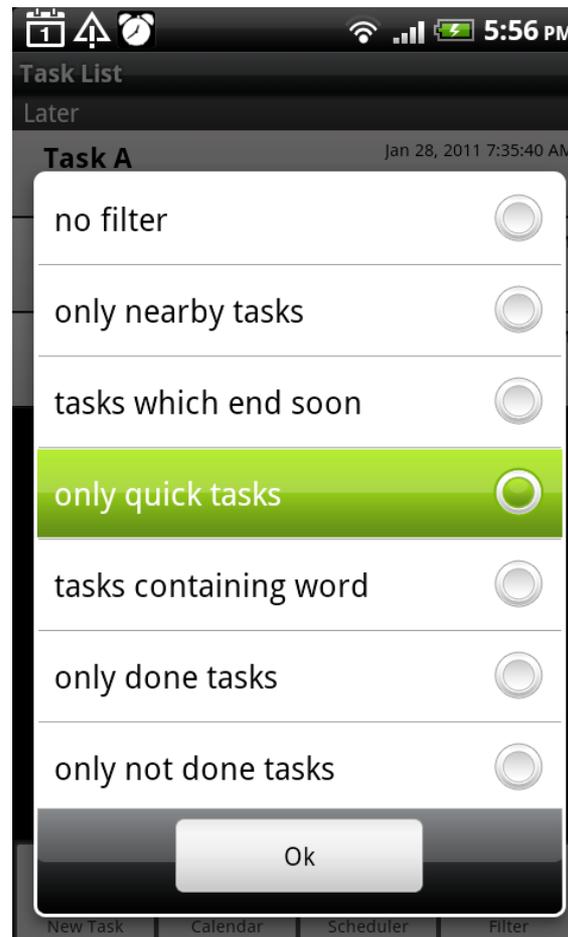
Duration: 0h 50m

Done: No

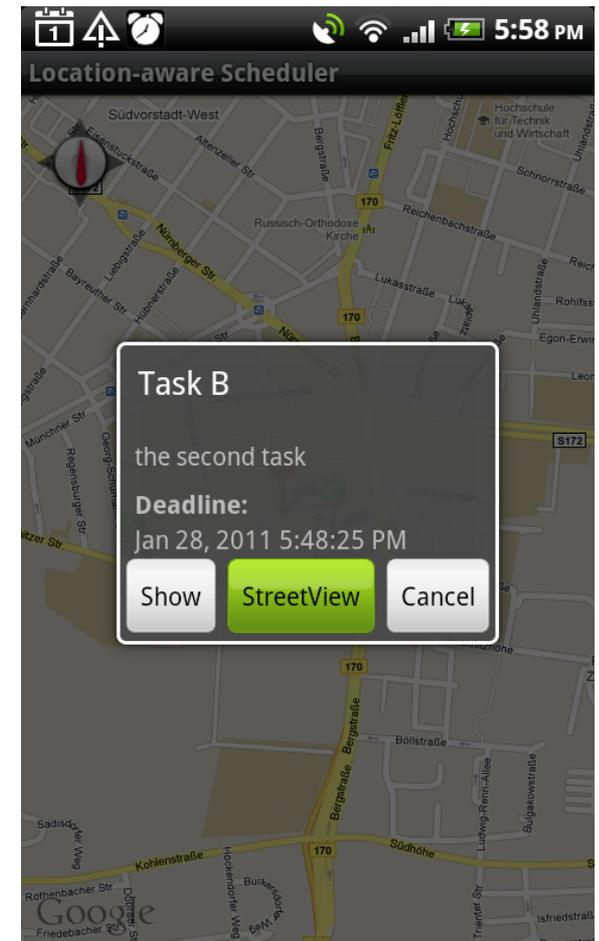
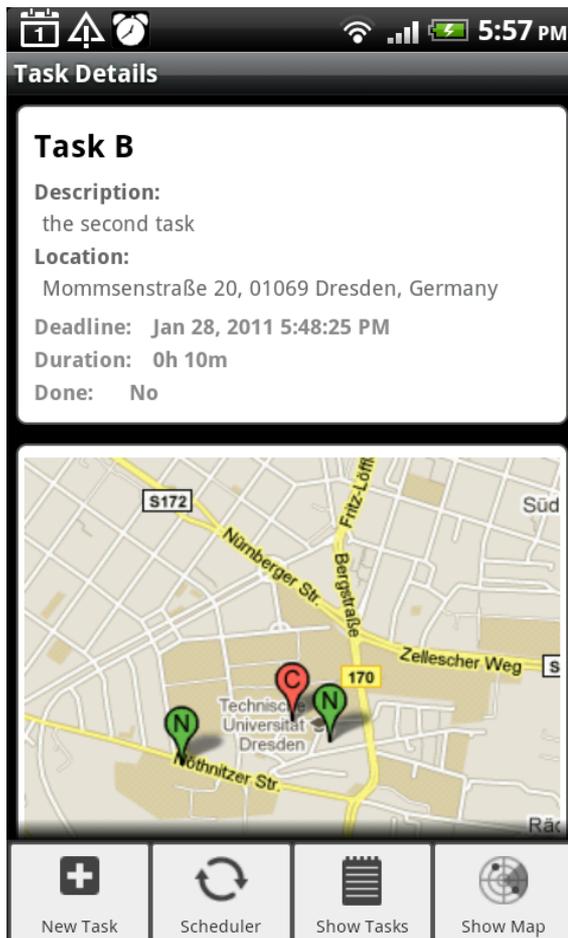


New Task Scheduler Show Tasks Show Map

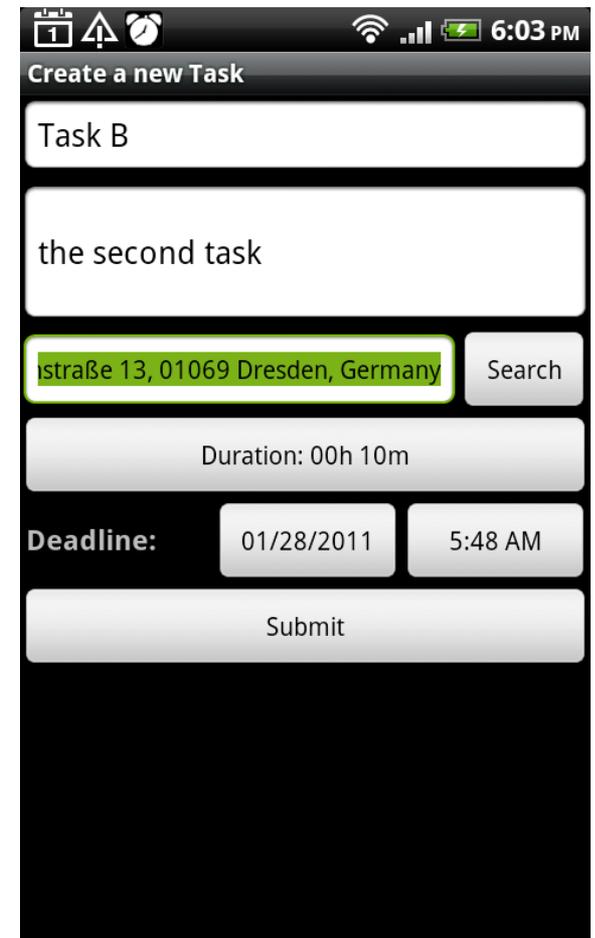
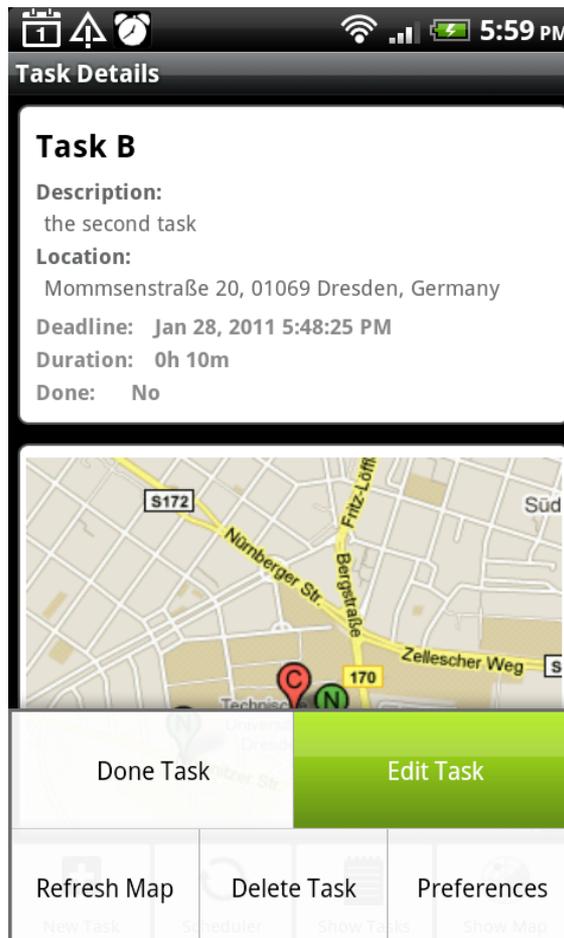
- After adding 3 new tasks



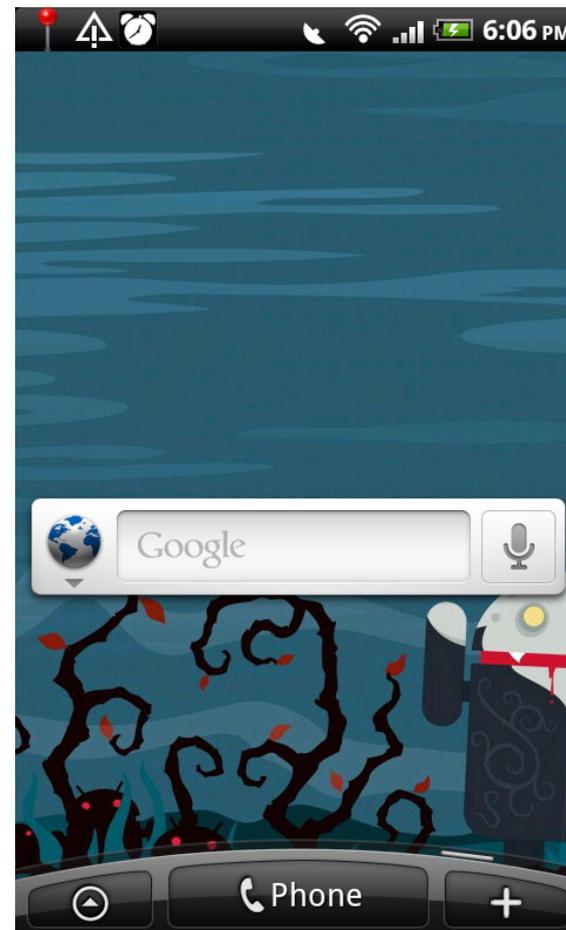
- We have a closer look on this task



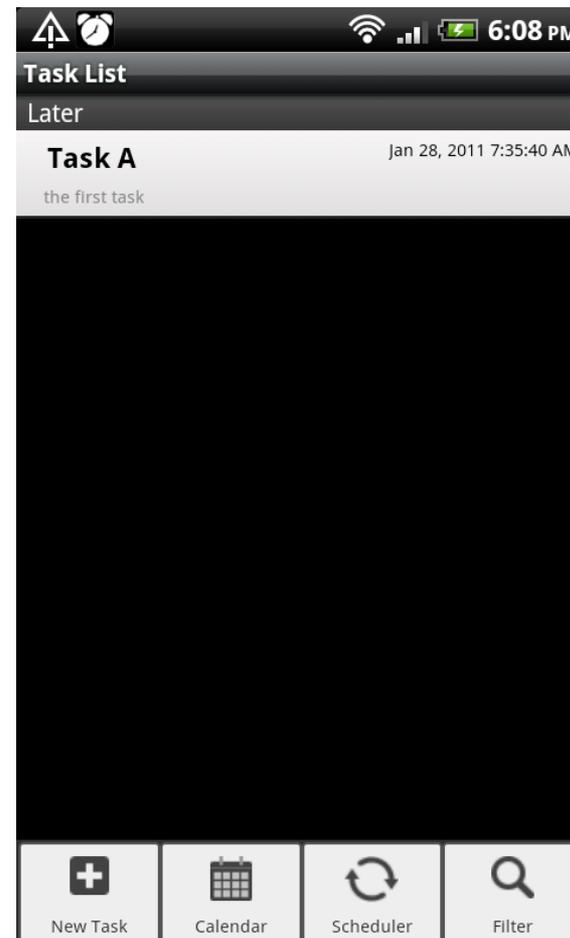
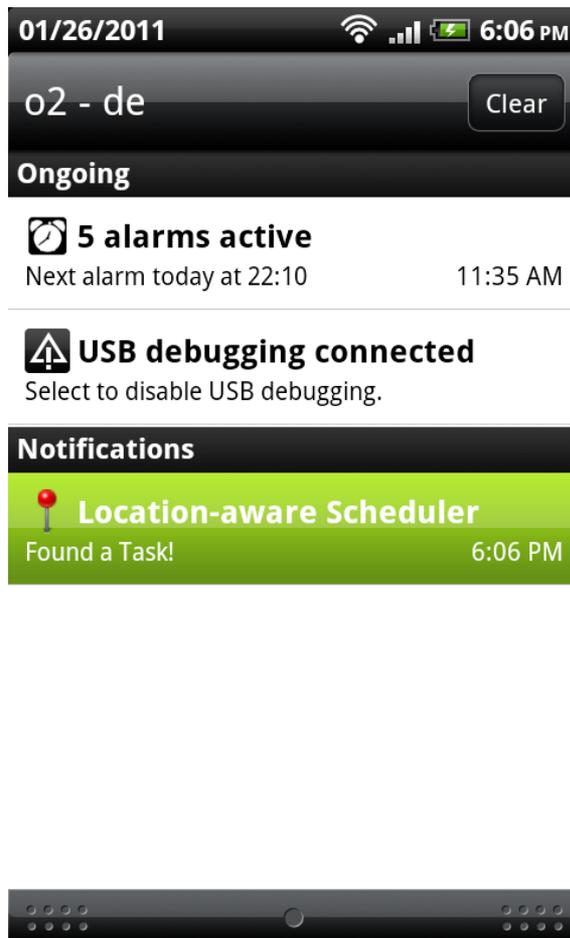
- Viewing the task in StreetView, we see the location is wrong



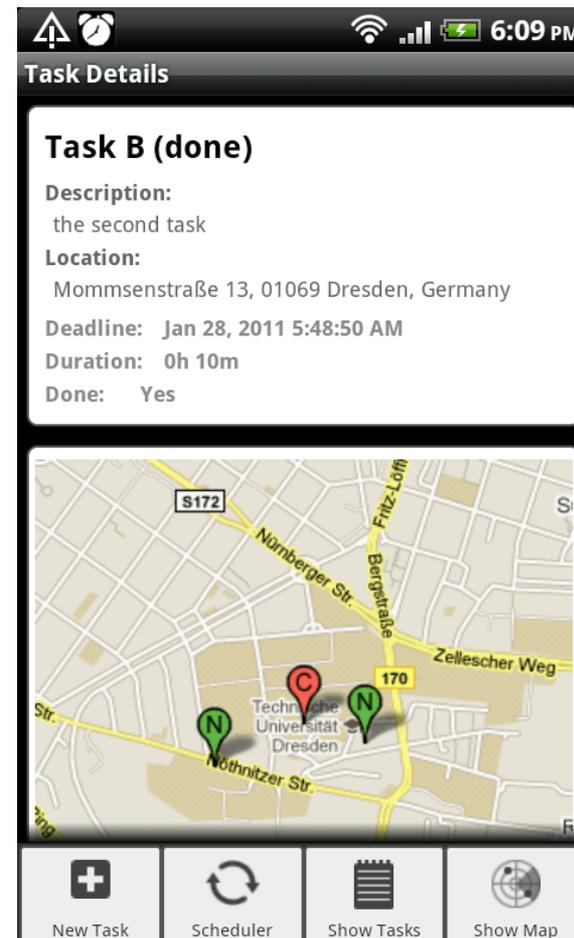
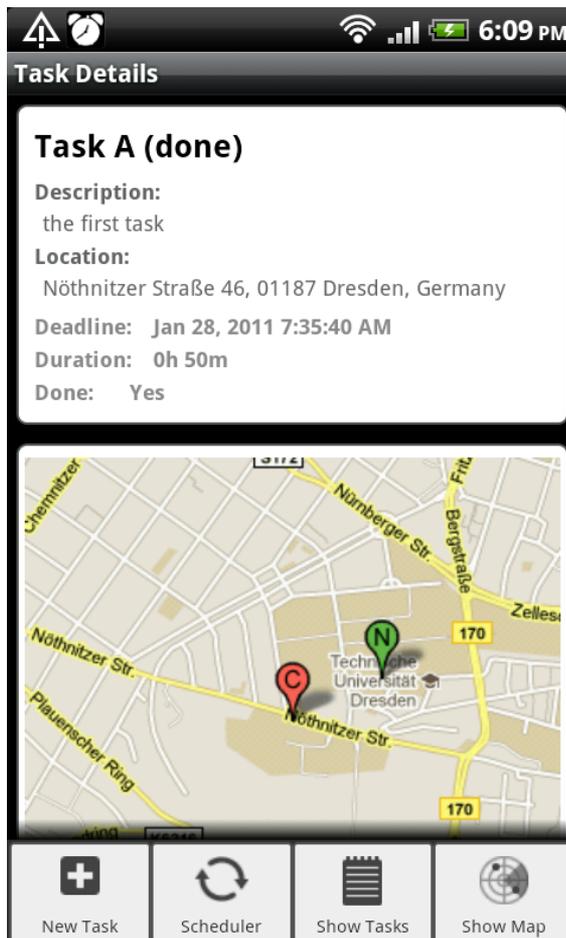
- Show schedule, decide to still have time, start to walk around



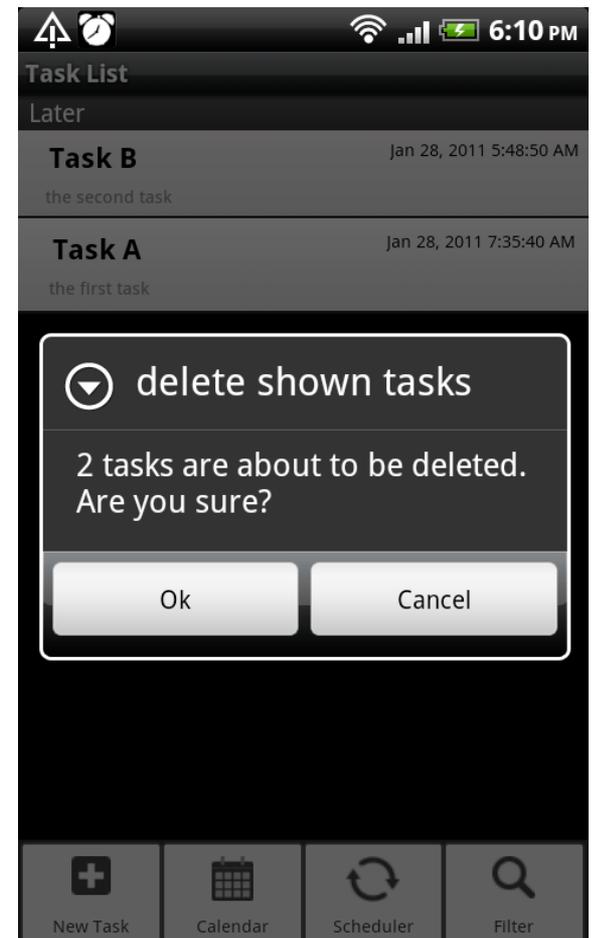
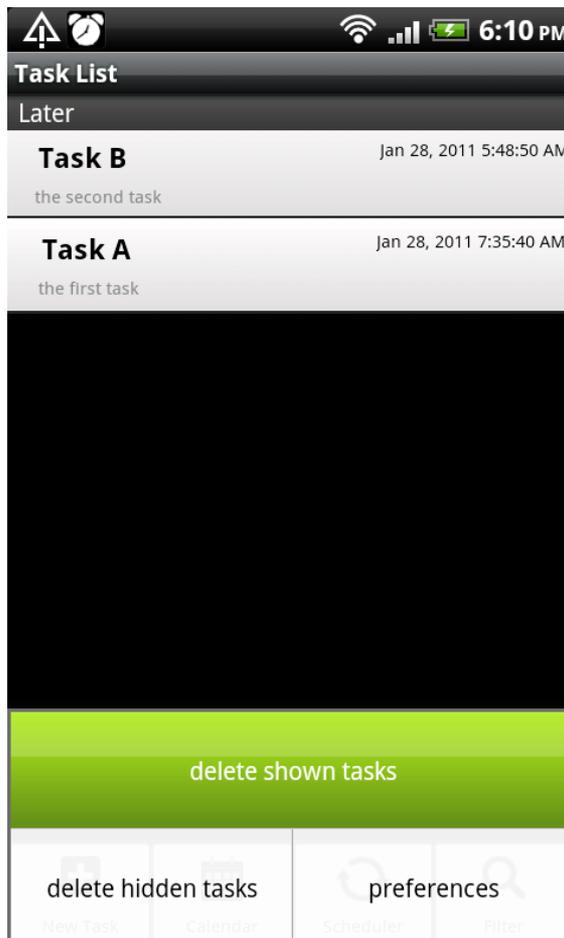
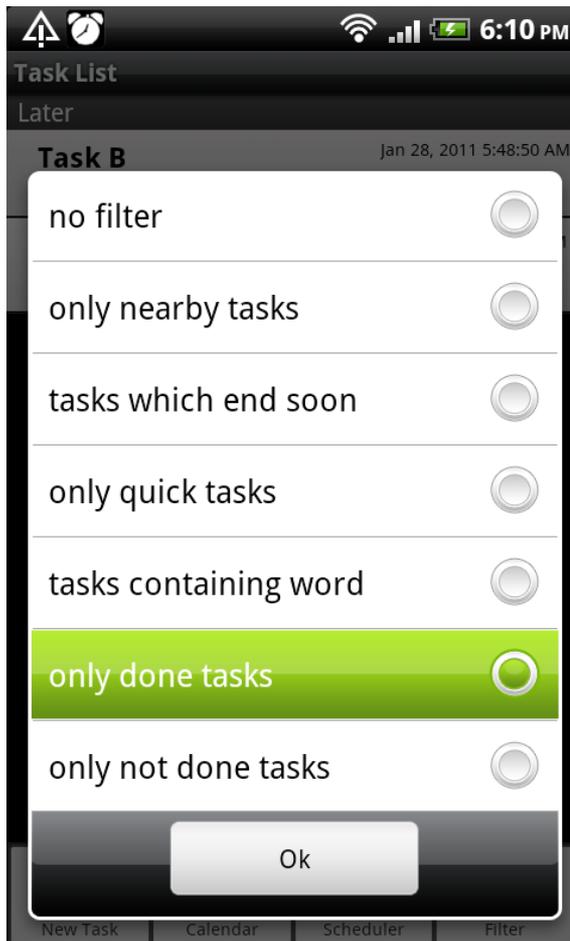
- Opening the notification



- Set the task as done, handle another task on the way



- Delete the finished tasks



- User Interface
- Battery Life
GPS service with user-defined intervals
- User Acceptance
simple schedule
- Mobile connection issues
caching of images
- Huge drawback: calendars very heterogeneous

Abilities:

- Usable tool to handle tasks
- „alarm clock“ for a location (not time)
- Can help to manage the day
- Up to now available in 2 languages

Limits:

- No support for disconnected operations
- Not very advanced scheduling
- No routing between tasks
- Calendar access works only on a few devices

- Think twice if you intend to access the internal Calendar
- It's very easy to support multiple languages/regions
- Arranging the menu-elements in a good order is important for user-experience
- Try to test on different devices as early as possible