Application Development for Mobile and Ubiquitous Computing
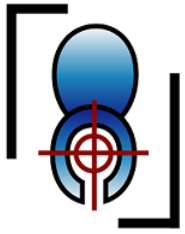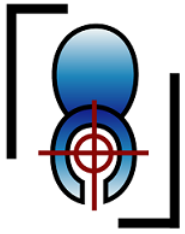

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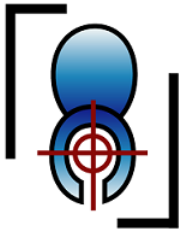
LooLo
loo locator

- Someone is on a trip to the city and needs a toilet

- He can immediately look up all toilets nearby

- Optionally he can be routed directly to the nearest Toilet

- App finds public toilets and toilets inside public buildings or shopping malls nearby your location and shows them on a map.
- Gives additional Information about:
  - inside building or stand alone
  - name
  - wheelchair accessibility
  - fees
  - supervisors
  - opening hours
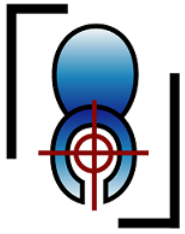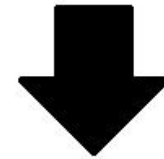- in planning: compass that points to nearest toilet

LooLo
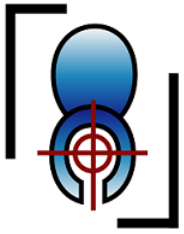## loo locator

Mockup

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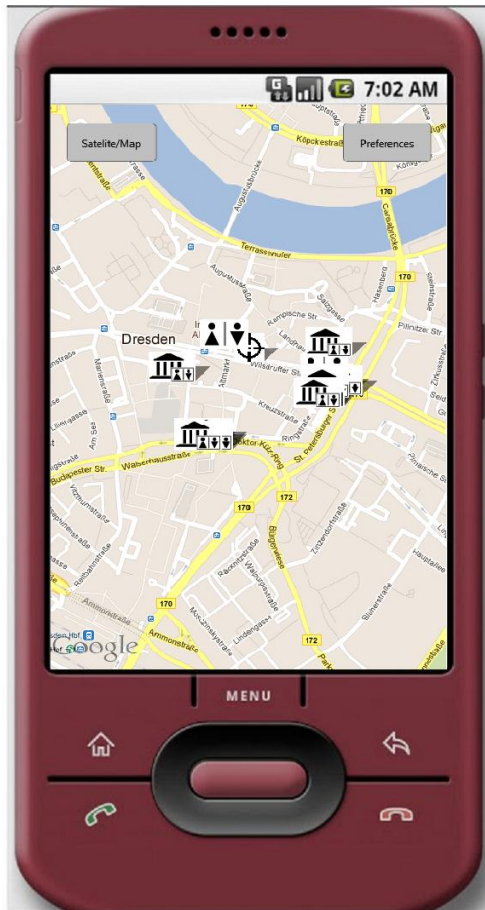
Technologies

- Standalone Android app
- Android 2.1 or higher
- GPS necessary
- Toilet locations fetched from openstreetmap.org
- Drawn map based on Google Maps

Wireless access issues

- Low traffic: Toilets are stored on the device only new ones are loaded

- Async loading, fast display of known locations:

  Toilets from device database are loaded immediately on the opended map and new fetched loos are added on the map when loaded.

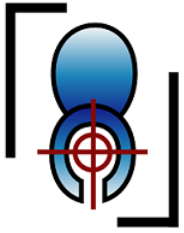- If no connetion is available use only data from the device database (current question: map? compass?)
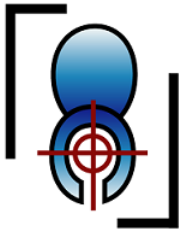
Form factor of mobile device

- Screen size doesn't matter
- Google Maps is freely scalable
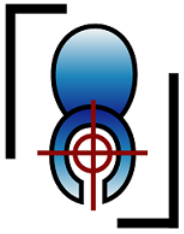- Relative layouts ensure right placement of menue components

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Varying Locations

- Toilets are updated when app is active and location is changed more then x meters in relation to the location where the last update was done

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<u>Usability</u>

- very simple usage

- easy to use when you are in "hurry":
  Map can be shown instantly on app start.

"just tap the app and you get the map"

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