Location-based services in public buildings: LIST

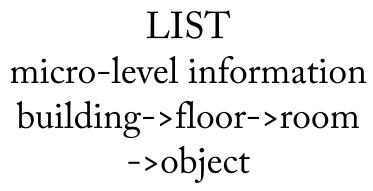
Denis Bespalov University of Nizhny Novgorod

LIST Service

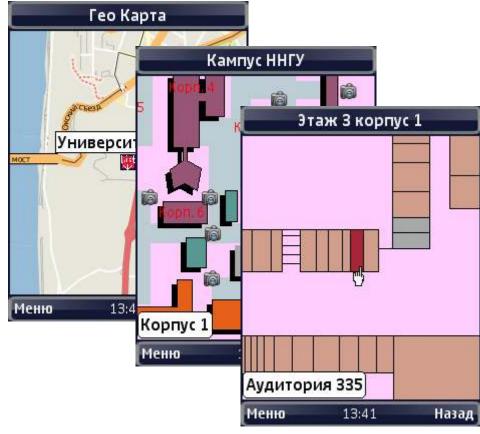
• Location-based service that allows mobile devices users to get detailed information about complex indoor and outdoor environment.

Comparison

GOOGLE maps macro-level information city->street->building







Service functionality | Четверг | 11:20-12:50 физвоспитание

- Basic
 - -Interactive map
 - -User's position on the map
 - -Info Search
 - -Information about objects

• Specific (i.e. for university campus)

- -Class schedule
- -Announcements
- -Mobile social network



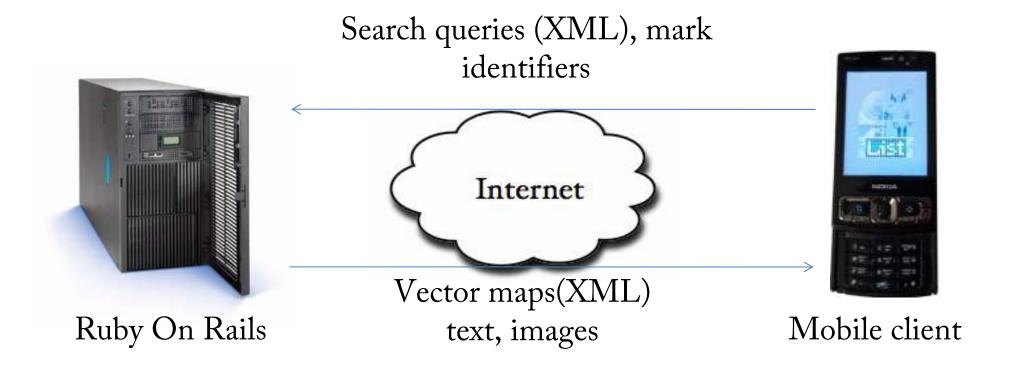
Application areas

- University campuses
- Shopping malls
- Museums
- Airports and train stations
- Convention centers





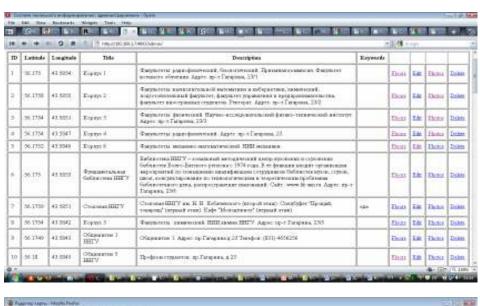
System architecture

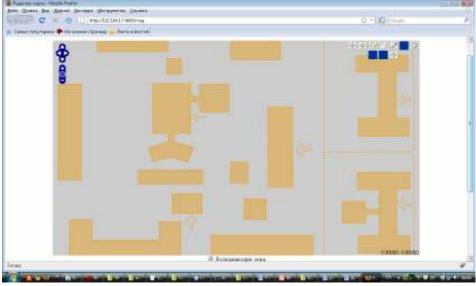


System administration

- Web interface
 - -Data editor

-Vector map editor



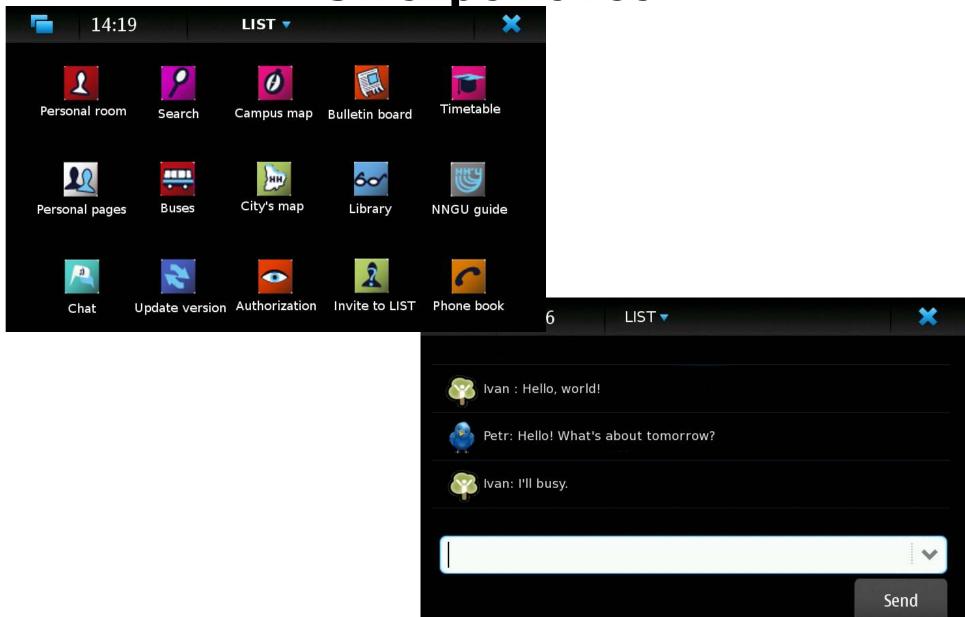


List for MAEMO

- Improve user experience
 - By rich maemo peripherals
 - Large display with touch capability
 - Ability to run apps in background
 - High resolution camera
 - Hardware keyboard

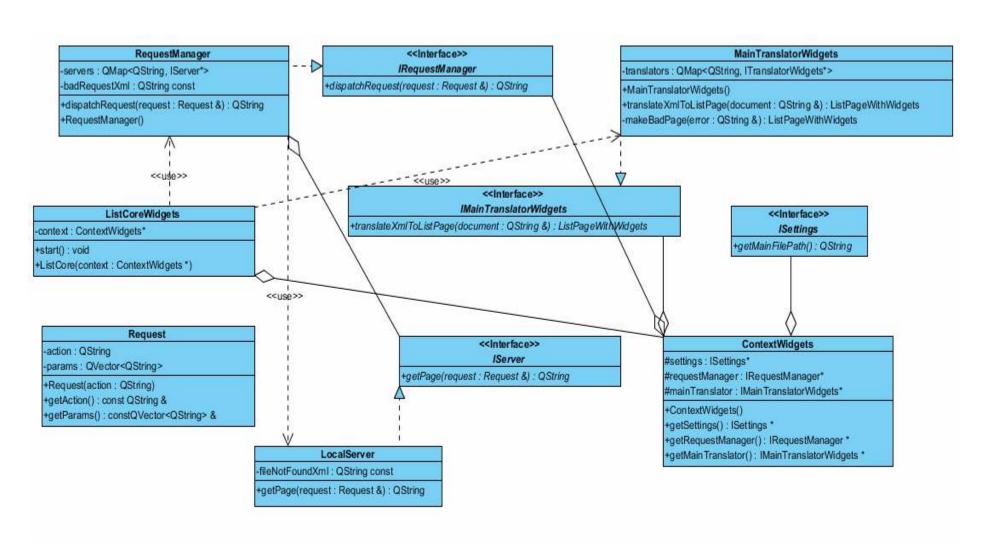


UI experience



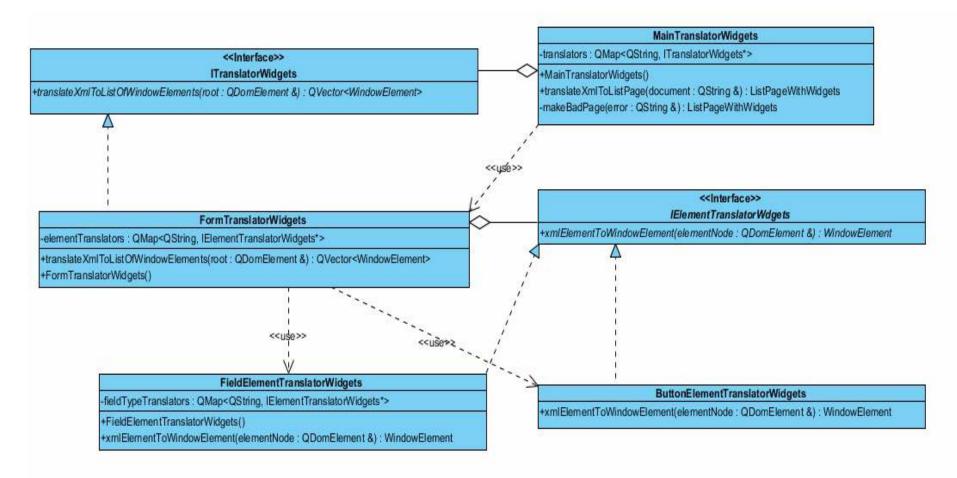
App architecture

LibMainSchema



App architecture

LibTranslatorWidgets



App architecture

LibCommon

ListPageWithWidgets

-pageContent : QVector<WindowElement>

-title : QString

+ListPageWithWidgets(pageContent : QVector<WindowElement> &, title : QString)

+getPageContent(): constQVector<WindowElement> &

+getTitle(): const QString &

+freeContent(): void

WindowElement

+widgetType : QString +widget : QWidget*

+id:int

+widgetAttributes : QMap<QString, QString>

+deleteWidget(): void

Project Stage

- Created App backend
- Developing and designing UI
- Integration with Telepathy
- Integration with GPS- services and Multimedia sub-system
- Widget development
- Project release on summer 2010

THANK YOU!

Visit us at www.m-list.ru

