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

Group No. 16

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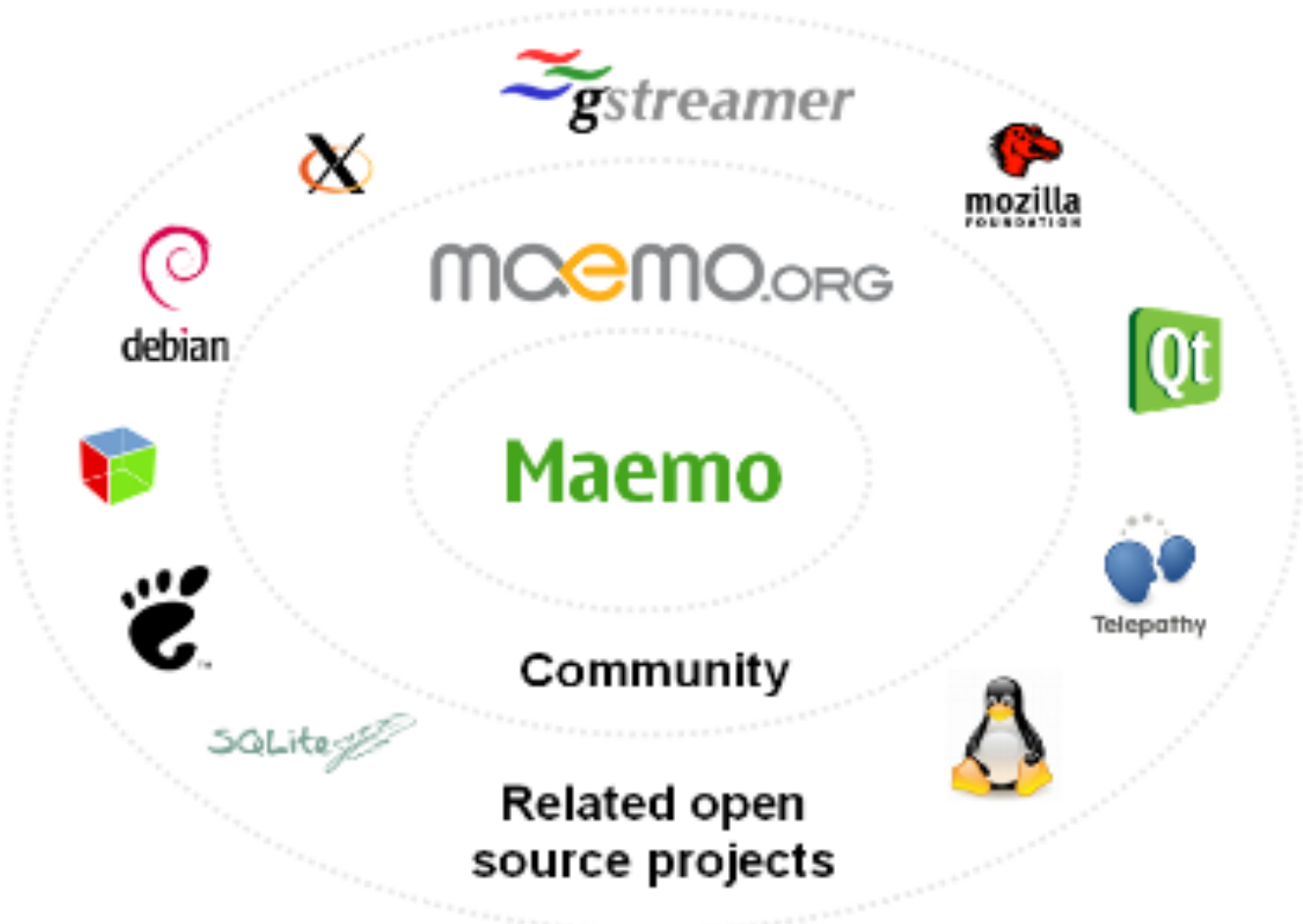
- Nokia(2005);
- A Linux based OS adapted to mobile devices;
- Open source.



Devices

- N770;
- N800;
- N810;
- N900:
  - SmartPhone;
  - Integrated GPS;
  - Camera 5 MP.

Application Scenario

- A TODO manager:
  - Add/Remove/Edit Tasks;
  - Set date/hour reminders for tasks;
  - Set places where the task can be completed;
  - Settable tasks views;
  - Location Based reminders.

Application Scenario

Tasks list:

Application Scenario

Add a new task:

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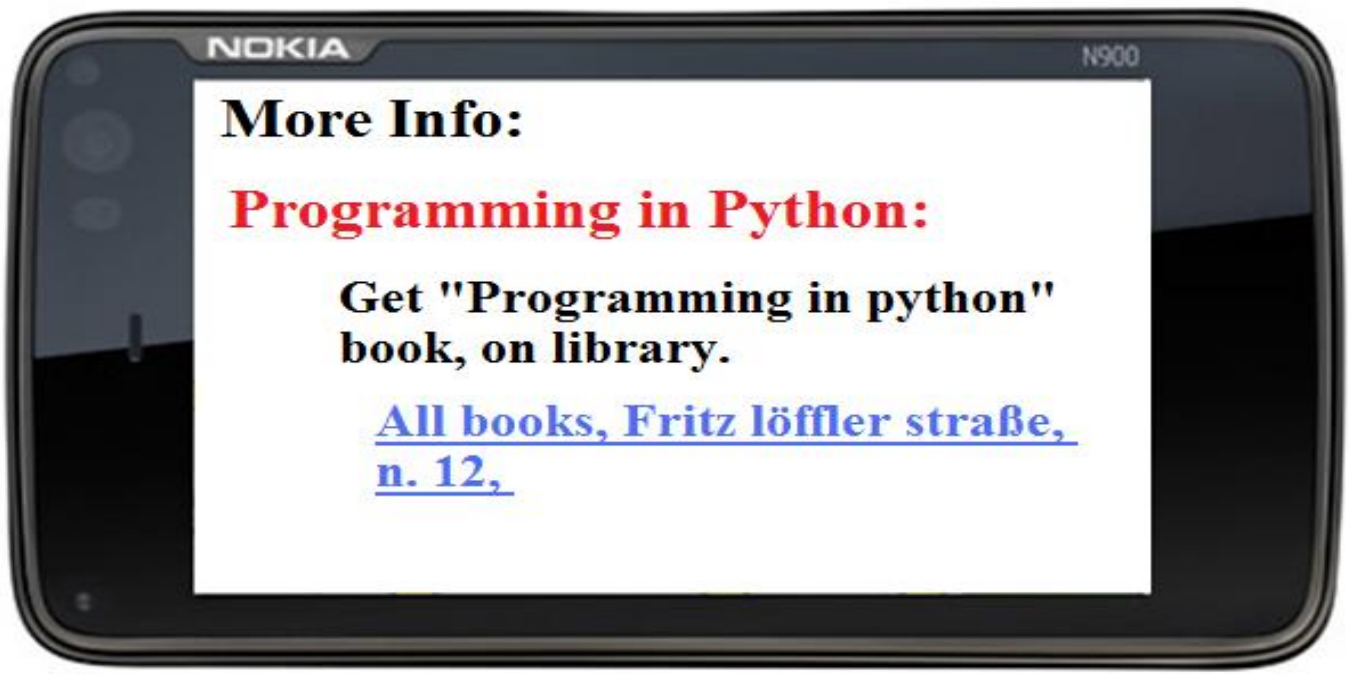
Application scenario

Task more information:



Application Scenario

- **LBS functionality**:
  - **Alarms based on Location:**

Examples of Usage:

- You set a location to a task,for example, something you must do at work or at home:
  - The application would check the place you are by the GPS and show just the tasks set for that place.

Examples of Usage:

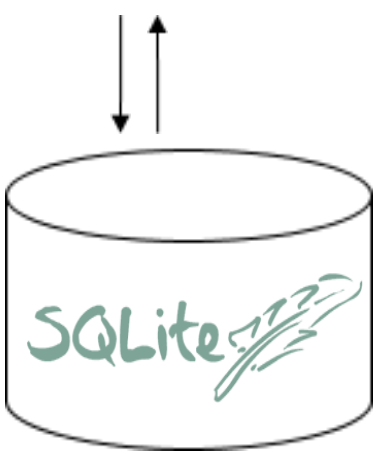
- You set a location to a task,for example, you must leaving your clothes to wash but you always forget:
  - The application would check the place you are by the GPS and if you pass near the laundry it would remind you of leaving the clothes there to wash.

Technologies

- Maemo Device

http/get

GPS position



python

Challenges

- Develop an user-friendly interface;
- Usability (no need for the "Stylus");
- Handle power consumption (battery);
- Verify the distance between the user and a place of a task;
- Programming language;
- Location based alarms when the mobile device is off line.

Work plan

- Install and understand the development platform (including the python language);
- Development of a basic TODO application;
- Integration of Google Maps(using the API) and the simple application;
- Add the LBS;
- Refinements and Tests;

Questions?