

Kimi: A Personal Organizer in the internet event space.

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Goals

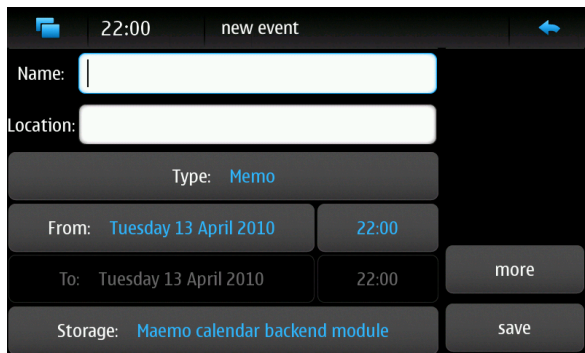
- Developing an application for planning and managing personal events based on various services (organizer) for Maemo platform
- Testing the idea of integration of several Internet services (Google Calendar, Ovi Calendar, VKontakte.ru, etc.)



Basic Scenarios

Application provides following operations, as under local events and events from remote services:

- View events
- Create new events
- Edit events
- Delete events



The screenshot shows a mobile application interface for creating a new event. At the top, there is a header bar with a folder icon, the time "22:00", the text "new event", and a back arrow. Below the header, there are two text input fields: "Name:" and "Location:". Underneath these fields, the event type is set to "Memo". The "From:" field is set to "Tuesday 13 April 2010" with a time of "22:00". The "To:" field is also set to "Tuesday 13 April 2010" with a time of "22:00". There is a "more" button next to the "To:" field. At the bottom, the "Storage:" field is set to "Maemo calendar backend module", and there is a "save" button.



Timing and Deliverables

■ February-August 2009:

- ▶ Initial plan
- ▶ Requirement analysis
- ▶ Requirement modeling and specification
- ▶ Coding, testing
- ▶ Working prototype for Maemo 4

■ September 2009-April 2010:

- ▶ Coding, testing, debugging, localization
- ▶ Experiments and porting on Maemo 5
- ▶ Architecture refactoring
- ▶ Coding, testing, debugging
- ▶ Project presentation

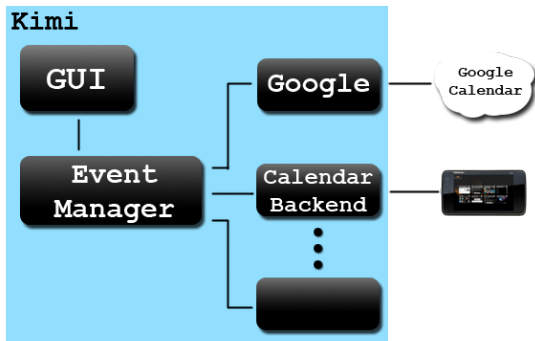


Project Team

- Vyacheslav Dimitrov, project leader
- Aleksandr Kolosov, project expert
- Stanislav Epifanov (bachelor student), network interaction
- Kirill Ivashov (bachelor student), storage subsystem, testing
- Evgeniy Tsvetkov (bachelor student), user interface



Architecture and Basic Technologies



- Local DB: Maemo Calendar Backend
- Remote Service Modules: cURL, ConIC, JSON Parser
- GUI: Hildon
- Maemo Alarm Framework
- GLib Error Reporting system
- GLib Key-Value Parser



Project Metrics, Bug Management, Tests

■ Metrics

- ▶ Overall
 - ★ Spent hours: 496
 - ★ LoC: 10788
- ▶ LoC per Module:
 - ★ GUI: 3340
 - ★ libkimi: 5913
 - ★ Google Calendar Module: 1535

■ Bugs(posted on Bugzilla):

- ▶ Founded: 32
- ▶ Fixed: 23

■ Tests:

- ▶ Number of Automatic tests: 30

■ Used Technologies:

- ▶ check - for writing automatic test
- ▶ gcov - to measure how test covers the code
- ▶ Valgrind - for detecting memory leaks



Results

- Maemo Diablo 4.1:
 - ▶ Requirement models and specification
 - ▶ Design of the application, test scenarios, initial code
 - ▶ Working prototype of the application
- Maemo Fremantle 5:
 - ▶ Application rewritten, according new architecture
 - ▶ GUI fully rewritten, according Maemo5 GUI Standarts
 - ▶ Application successfully linked with Maemo Calendar Backend
- Further directions:
 - ▶ Supporting of more event information providers
 - ▶ Implementing various methods of representation of coming events



Links

- Wiki page
<http://oss.fruct.org/wiki/Maemo-Google>
- Bugzilla
<http://oss.fruct.org/bugzilla>
- Repositories:
 - ▶ Local Repository(for internal work)
 - ▶ Gitorious repository
<http://gitorious.org/kimi>
 - ▶ Extras-Devel repository
<http://maemo.org/packages/view/kimi/>



Thanks for your attention!



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