Scribo: Multi-service Blogging Application for the Maemo Platform

Diana Zaiceva, Artem Mezhenin, Aleksandr Sannikov, Kirill Germanov, Mikhail Kryshen

Petrozavodsk State University
Department of Computer Science

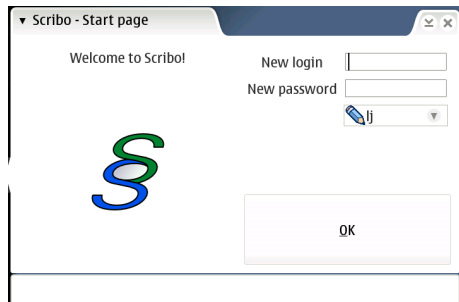The 6th FRUCT Seminar, November 3–6, Helsinki, Finland

Table of Contents

Scribo: Main Features

- Retrieve information from several blog services, *currently:* livejournal.com
- View and edit user profiles and make blog postings.
- Combine postings from several blogs into a meta-blog.

In future:

- More services.
- Combine friend relations and groups from the services.
- Track for comments and cross-blog discussions.

Schedule

Spring 2009: February–May

- The idea and key requirements.
- Design of the application.
- Initial prototype to play.

Summer 2009: July–August

- Refactoring the architecture.
- Implementing the basic scenarios.
- Coding and testing.

Autumn 2009: September–November

- More testing and debugging
- A demo prototype for Maemo 4.
- 6th FRUCT seminar.

cs.karelia.ru

Project Team

Diana Zaiceva, bachelor student, developer responsible for UI, secretary

Artem Mezhenin, bachelor student, developer responsible kernel and data base

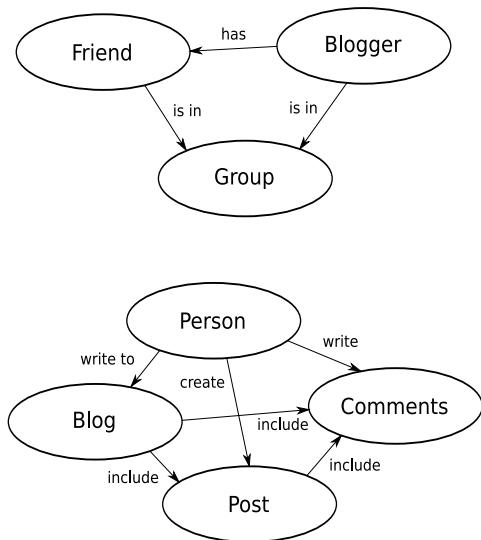**Aleksandr Sannikov**, bachelor student, developer responsible for network part

Kirill Germanov, diploma student, developer responsible for testing

Mikhail Kryshen, manager

cs.karelia.ru

Problem Domain

Main entities:

- Person
  - Blogger
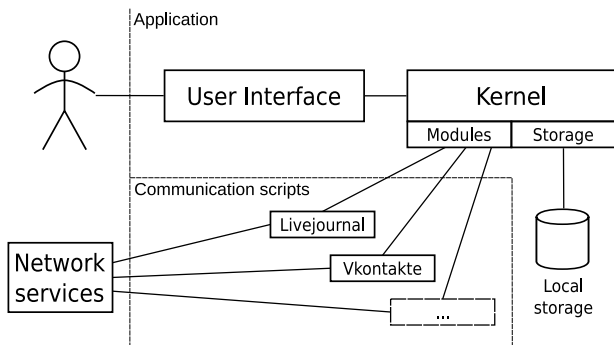 - Friend
  - Group
- Post
- Comments

Architecture

- **Kernel:**
  application
  logic&management

- **Local storage:**
  SQLite

- **Communications scripts:**
  for accessing services via Internet
  currently: Python scripts

- **UI:** GTK

Cross-blog features

Click on «Add posts»

Settings repeating

Message is delivered

- Create, edit and read posts as in one blog, despite they are from several blogs :
  meta-blog or *distributed blog*

In future:

- Cross-post to several blog services

- Read cross-blog discussions

List of messages

- View all posts from different services as *a single list*

- Read comments to posts and to other comments in *a tree-like view*, i.e., hierarchically, write own comments

- Convenient way to
  - ▶ view comments in one branch
  - ▶ go across the branches

List of profiles

Click on «Add profile» in menu
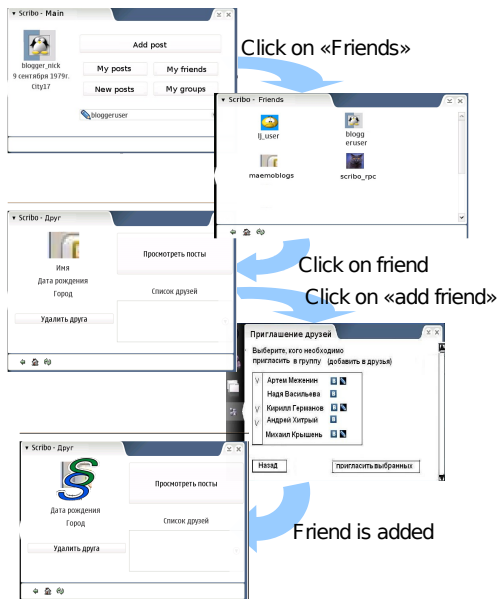
Adding profile

Error authentification

Right data

Change default profile

- View user profiles from different services as a single list, select default profiles

- Add or delete profiles, change passwords

cs.karelia.ru

List of friends or groups (UI mockups)

Click on «Friends»

Click on friend

Click on «add friend»

Friend is added

- View friends (groups) from several services as a single list

- View friends public data (nick, age, city, photo ...),
  read their posts and comments,
  write own comments

- Add and delete friends,
  invite users to existing groups

Used technologies

- **XML-RPC**:
  sending requests and receiving replies
- **RSS**:
  getting new posts
- **SQL**:
  storing data locally
- **gtkMozEmbed**:
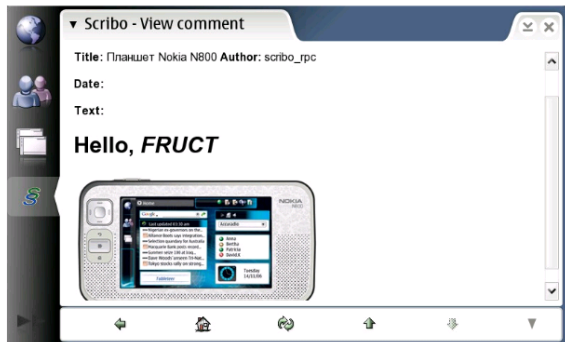 displaying posts text in a friendly way

Illustration for gtkMozEmbed

Our Current State

Metrics (October 26, 2009):

- 882.5 working hours
- 30 pages in wiki
- 30 schemes and diagrams
- 51 meetings
- LOC:
  - total: 10 398
  - ANSI C: 9583
  - Python: 733
  - sh: 82
- Automated system tests contains 92 checks

We need:

- more testing and debugging,
- more blog services to support,
- implementing additional usecase scenarios,
- moving to Maemo 5 or 6?

Project wiki:
http://maemo.cs.karelia.ru/
wiki/Maemo-Blogs

Our video-clip is available!