

MySocials: Client for Social Network Services on Fremantle and Harmattan Platforms

Kirill Kulakov, Konstantin Kirpichenok, Sergey Zaharov,
Anna Samoryadova, Pavel Shiryaev

Petrozavodsk State University
Department of Computer Science



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Problem

- Social networks as one of the most important part of Internet
- Different target audiences of social networks:
 - ▶ age
 - ▶ profession
 - ▶ hobbies and interests
- Different services (Chat, Image exchange, etc)
- Data exchange between members of different social networks
- Mobile access to keep in touch

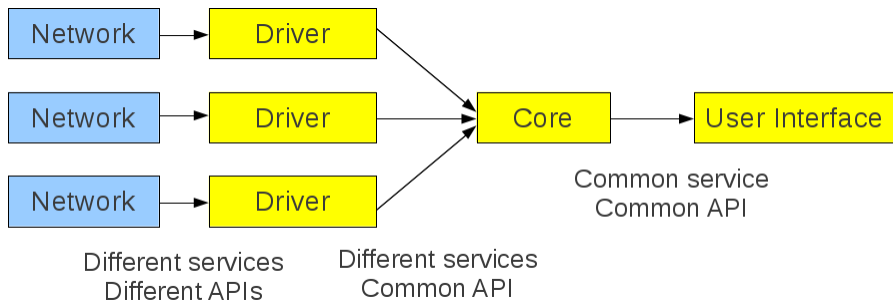


Mobile platforms

- Different screen resolution
- Finger touch and virtual keyboard
- Power consumption
- Unstable network access
- Offline mode
- Long-term sessions



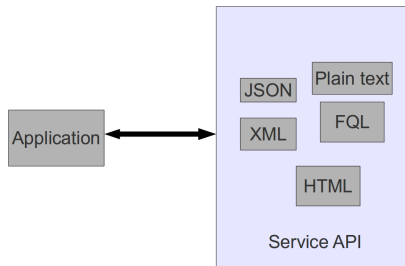
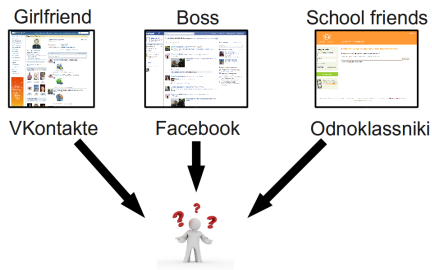
MySocials Idea



- Driver: Access to network via its API
- Core: Data merging and caching
- User Interface: Different platforms and devices



Driver for social network



■ User view:

- ▶ Different networks (VKontakte, Facebook, etc.)
- ▶ Different services (Chat, Image exchange, etc.)
- ▶ Cross-network collaboration

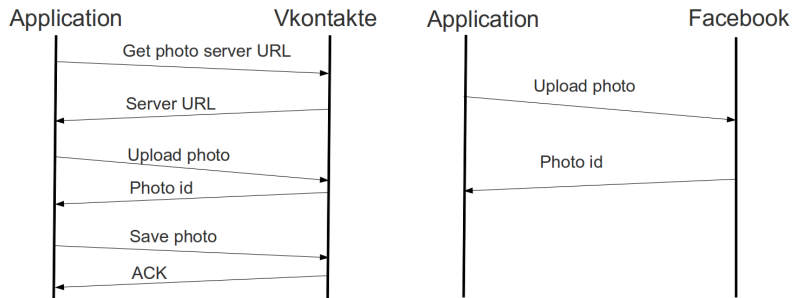
■ Application view:

- ▶ Different API implementations
- ▶ Different usage scenarios
- ▶ Service usage restrictions

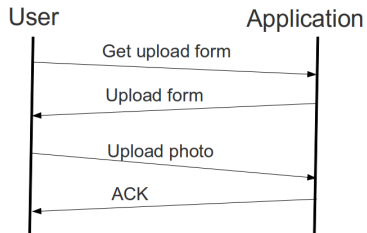


Example of use case: uploading photos

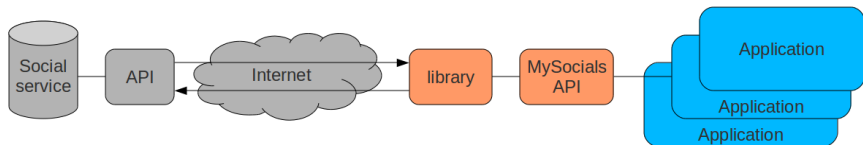
Application view:



User view:



The idea of library for social network



- Common API for applications
- Using service API to access to data
- Simultaneous support of several applications using “account id”
- Independently fulfills authorization and CAPTCHA process requests
- Supports application-defined or system proxy



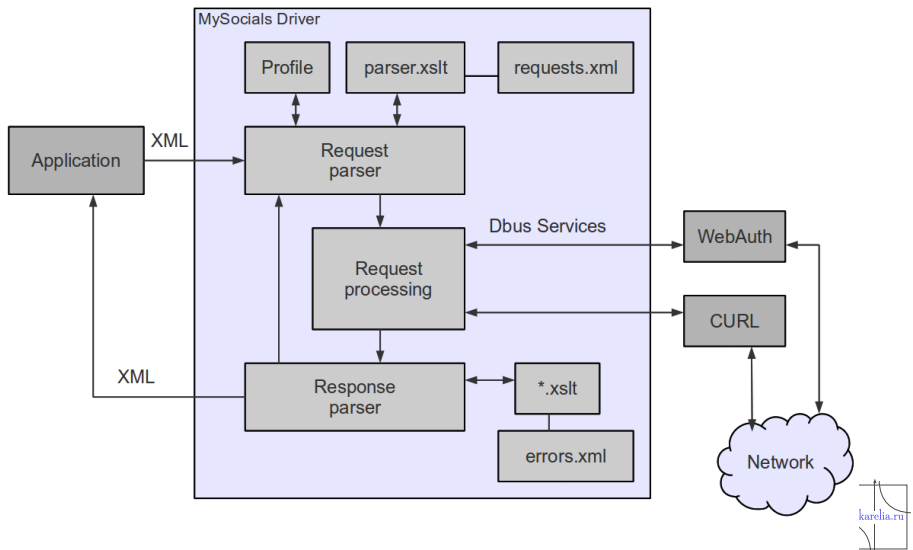
MySocials API

- Flexible format, based on XML
- Base unit functions
- Functions are divided into classes:

Name of the class	Description
settings	Class for processing driver settings
profile	Class for processing user profiles
friends	Class for processing friends
messages	Class for processing personal messages
photos	Class for processing images and albums
audio	Class for processing audio files



Architecture of a driver



Library template

Template:

- base logic of the library
- interface functions
- network functions
- operations with user profiles
- interaction with WebAuth

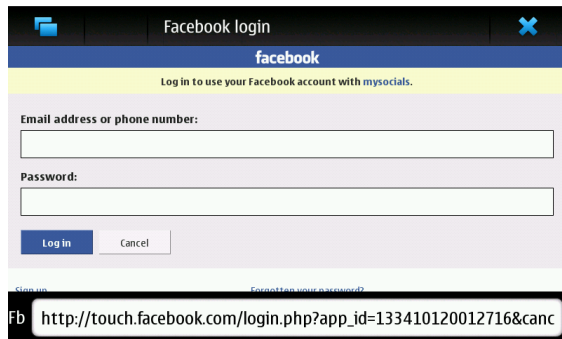
Library:

- xslt parsers
- service errors description
- config files
- processing features of the service



WebAuth - web-authorization tool

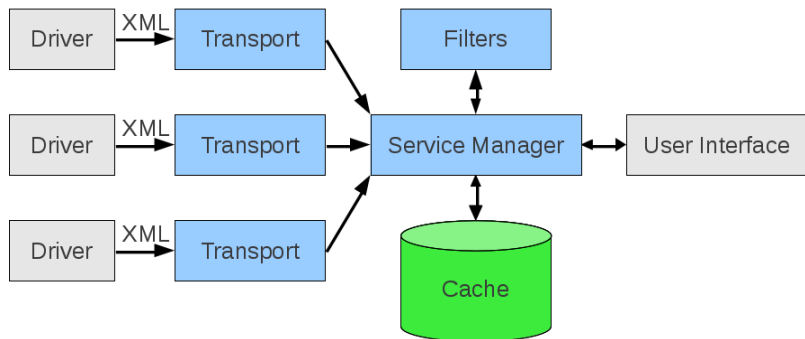
- No direct access to UI from library
- Authorization through web-interface



Project page: <http://oss.fruct.org/wiki/Webauth>



MySocials Core Architecture

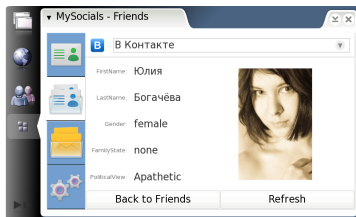
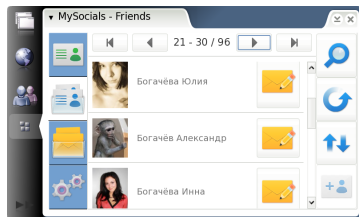


- Transport: Access to driver functions
- Service Manager: Data merging, Data caching, Data updating
- Cache: Store data in XML format



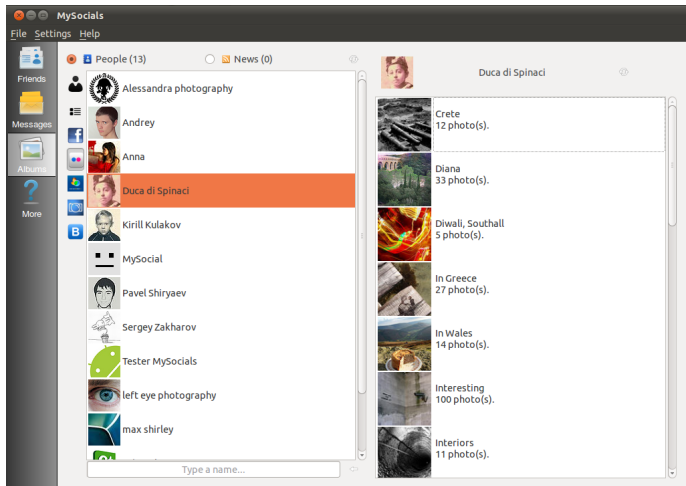
UI Problem

- Different technologies (GTK, Hildon, Qt, Qt Quick)
- Different guidelines
- Frequently used items
- Adjusting to the screen sizes



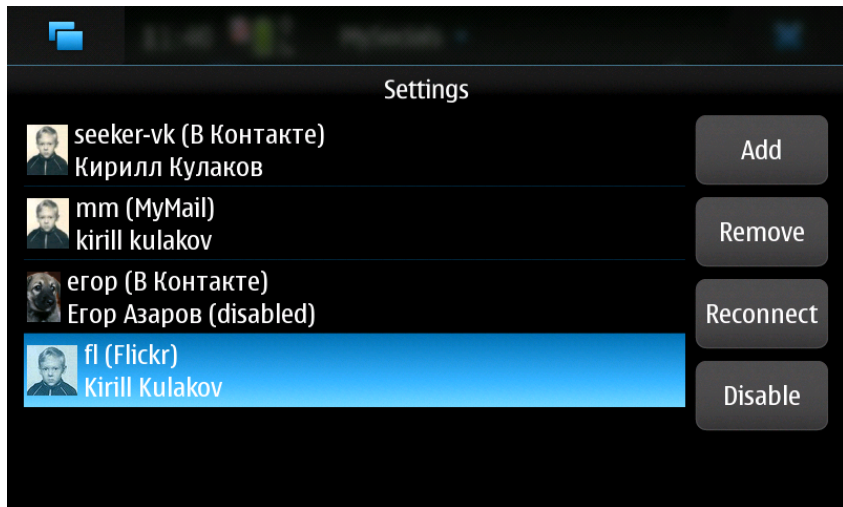
Desktop UI

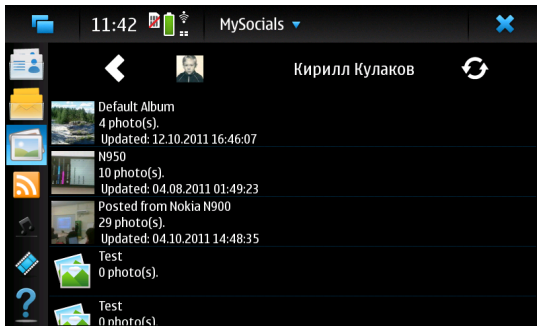
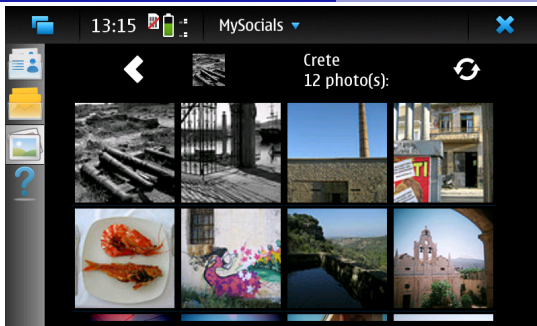
- Large screen size
- Qt based User Interface



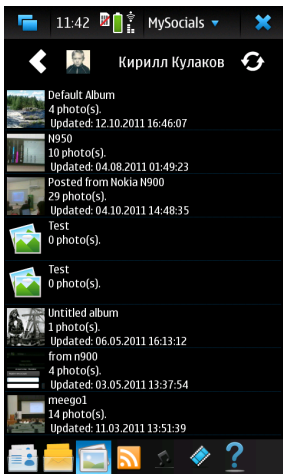
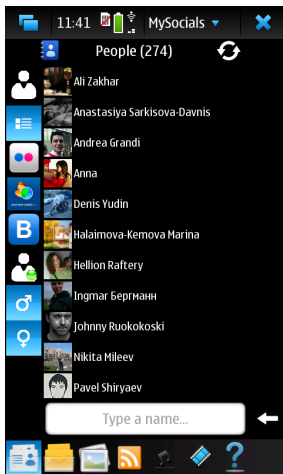
Maemo 5 UI

- Small screen size
- Qt based User Interface



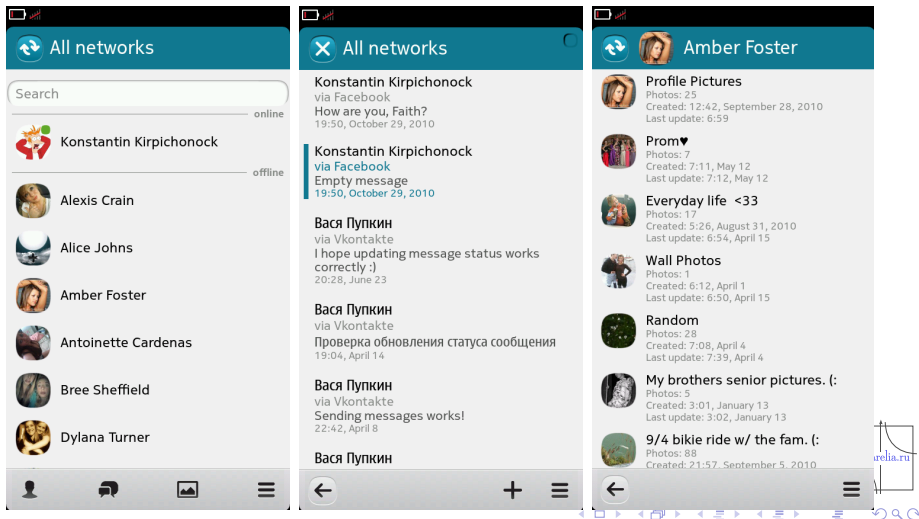


■ Device rotation

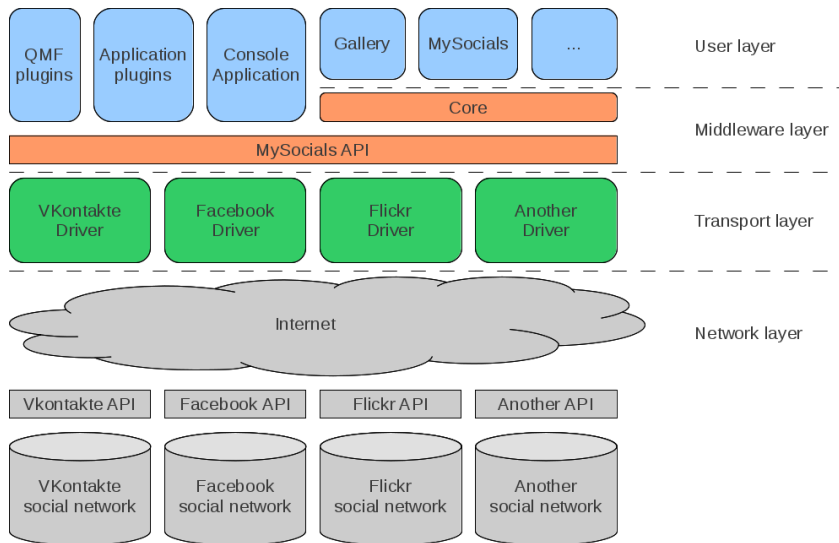


Harmattan UI

■ Qt Quick based User Interface



MySocials Architecture



MySocials Components

Standalone applications:

- MySocials (Qt version)
- MySocials (Qt Quick version)
- MySocials Gallery
- MySocials Media (alpha)

Plugins for various frameworks:

- QMF
- Telepathy
- Maemo 5 sharing manager (VKontakte, mail.ru, Photobucket)

Supported networks:

- VKontakte
- Facebook
- Flickr
- MyWorld from mail.ru
- Photobucket



Implementation Metrics

Project	LOC	Comments
MySocials core	6350 (Qt)	1400
MySocials Qt widgets	3206 (Qt)	662
MySocials Qt Quick widgets	3342 (Qt)	151
MySocials Qt UI	920 (Qt)	558
MySocials QtQuick UI	44 (Qt)	1
MySocials drivers	1589 (C)	537
WebAuth	6341 (Qt)	1007



Links

- Homepage: <http://mysocials.garage.maemo.org>
- MySocials project wiki:
<http://oss.fruct.org/wiki/MySocials>
- Open source: <http://gitorious.org/mysocials>
- OpenSUSE Build Service:
<https://build.opensuse.org/project/show?project=home:mysocials>
- MeeGo, Harmattan:
<https://build.pub.meego.com/project/show?project=home:kulakov>

Please, send your comments to maemo-mysocials@cs.karelia.ru
and bugs to <http://oss.fruct.org/bugzilla/>



Future Plans

- WebAuth without D-Bus (non-linux versions)
- Qt-based version of drivers
- Audio and video functions
- Support of other social networks
- Support of more services (groups, events, places, ...)
- Symbian and Windows versions





Thank you for your attention!

