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

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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

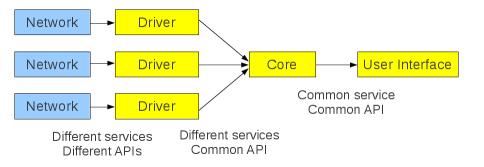


Mobile platforms

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

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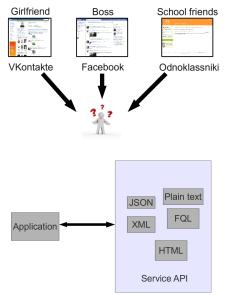
MySocials Idea



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

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Driver for social network



■ User view:

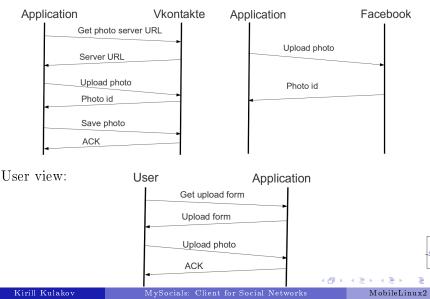
- Different networks
 (VKontakte, Facebook, etc.)
- Different services (Chat, Image exchange, etc.)
- ▶ Cross-network collaboration
- Application view:
 - Different API implementations
 - ▶ Different usage scenarios
 - ▶ Service usage restrictions



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Example of use case: uploading photos

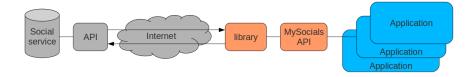
Application view:



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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

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MySocials API

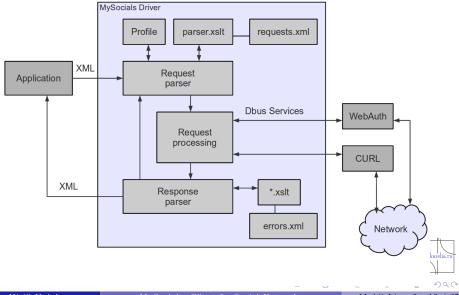
- \blacksquare Flexible format, based on XML
- Base unit functions
- Functions are divided into classes:

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



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Architecture of a driver



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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

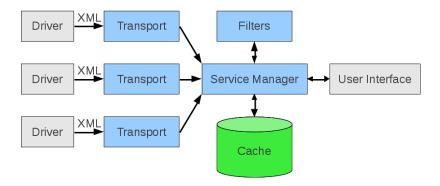
- No direct access to UI from library
- Authorization through web-interface

	Facebook login	×
	facebook	
	Log in to use your Facebook account with mysocials.	
En	nail address or phone number:	
Pa	ssword:	
	Log in Cancel	
Siar	un Fordatten vour password?	
Fb	http://touch.facebook.com/login.php?app_id=13341012001	2716&canc

 $Project \ page: \ http://oss.fruct.org/wiki/Webauth$



MySocials Core Architecture



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

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UI Problem

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

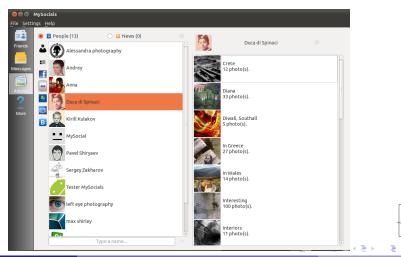




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Desktop UI

- Large screen size
- Qt based User Interface



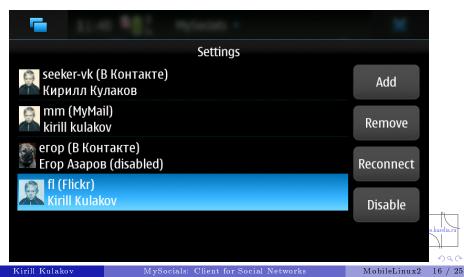
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${\rm Maemo}~5~{\rm UI}$

- Small screen size
- Qt based User Interface



MySocials applications

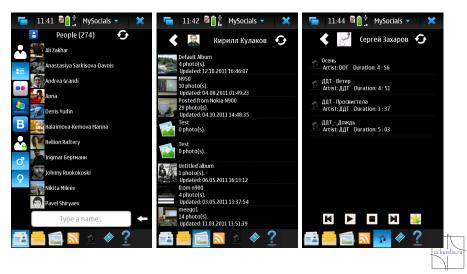


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Device rotation



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online

offline

Harmattan UI

■ Qt Quick based User Interface





Konstantin Kirpichonock

Alexis Crain



Alice Johns



Amber Foster



Antoinette Cardenas



Bree Sheffield



Dylana Turner

🗙 All networks

Konstantin Kirpichonock via Facebook How are you, Faith? 19:50, October 29, 2010

Konstantin Kirpichonock via Facebook Empty message 19:50, October 29, 2010

Вася Пупкин via Vkontakte I hope updating message status works correctly :) 20:28, June 23

Вася Пупкин via Vkontakte Проверка обновления статуса сообщения 19:04, Аргії 14

Bacя Пупкин via Vkontakte Sending messages works! 22:42, April 8

Вася Пупкин

←



🚺 Amber Foster



Profile Pictures Photos: 25 Created: 12:42, September 28, 2010 Last update: 6:59



Photos: 7 Created: 7:11, May 12 Last update: 7:12, May 12



Everyday life <33 Photos: 17 Created: 5:26, August 31, 2010 Last update: 6:54, April 15



Wall Photos Photos: 1 Created: 6:12, April 1 Last update: 6:50, April 15



Random Photos: 28 Created: 7:08, April 4 Last update: 7:39, April 4



My brothers senior pictures. (: Photos: 5 Created: 3:01, January 13 Last update: 3:02, January 13



9/4 bikie ride w/ the fam. (: Photos: 88 Created: 21:57. September 5, 2010

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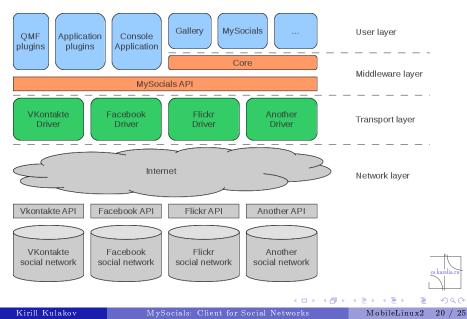
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MySocials Architecture



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



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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	ti
WebAuth	6341 (Qt)	1007	cs.karelia.r
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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

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Conclusion



Thank you for your attention!

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