A Maemo Client for Social Network Services with Cross-Profile Features

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Overview

Social networks become more essential to their users. But interacting with a number of services is complicated - users do not have a single mailbox for messages on different services, they do not have a single friend list.
Overview

The project aims at developing an application for the Maemo platform. Cross-profile features of popular among Russian users services let user:

- combine one person’s profiles in a single contact
- keep messages from different services in a single mailbox
- create groups of friends from both VKontakte and MySpace
- forward messages received from VKontakte to MySpace users
Our project is a part of the course software engineering. Because the process of development has a time limit, our team had to exclude a lot of ideas, such as ratings in contact list, conversations instead of a mailbox, etc.

Timing

- Spring: Requirements specification. Design of the application. Constructing test scenarios, coding, testing, debugging.
- Summer 2009: Project improvements. More experiments.
- Autumn 2009: Publishing the code in the MAEMO garage. Project report for FRUCT seminar. Decision on continuation of the project.
Developers

Project team includes project instructor and five developers, each developer has his own responsibilities.
Data flows

Client
- User Interface
  - Forms
  - Notification Manager
  - Request Service
- Storage Interface
  - Storage

Kernel
- RAM Manager
- Event Manager
- Request Redirecting

Driver Manager
- Request Redirecting

Service Driver
- Request Receiver
- Answer Sender
- Processing Service Data
- Connectivity

Services

Andrey Bogachev
User scenarios

Accounts

User interface provides:

- setup accounts: login information
- set options for each service: auto-login, auto-update time

User has an ability to auto-fill information from profile on one service in profile on another service.
Contacts

- combine contacts from different services in one contact list
- unite a person’s profiles in one contact
- sort by name, rating, groups
- view profiles
- add and remove contacts
Messages

- combine messages from different services in one inbox
- view a message
- write and reply messages
- find a message
- remove a message
The Resource Description Framework (RDF) is a language for representing information about resources in the World Wide Web. Client works with defined RDF vocabularies based on Friend Of A Friend (FOAF) and other vocabularies (ontology describing persons and information in social networks).
The project incorporates the use of OWL (Web Ontology Language) for representation of relations between entities of social networks:
Ontology

Message entity

- Recipient
  - sent to
  - sent at

- Sender
  - has

- Text
  - has

- Date and Time

- Subject
  - has

- Profile
  - has

Message

sent to

sent by

sent at

has
State of the Art

At this time our team developed:

- Requirements specification
- Ontology
- Basic User Interface forms

Current project state:

- Coding

Project Wiki:

http://maemo.cs.karelia.ru/wiki/Maemo-VKontakte
Thank You For Your Attention