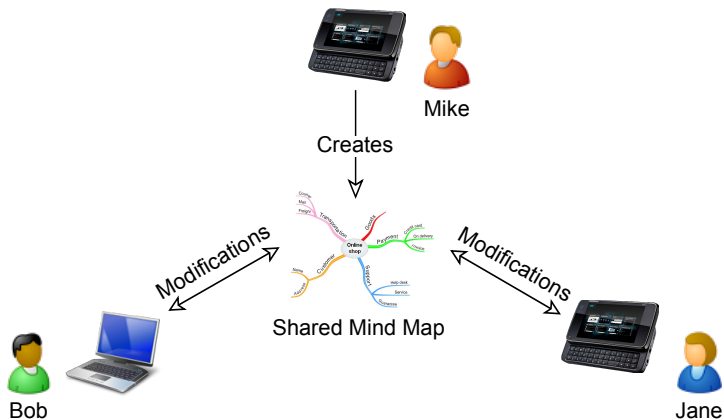


HiveMind Collaborative Mind Map Editor: Architecture and Implementation of Network Subsystem

Andrey Vasilev

Yaroslavl State University

HiveMind — Collaborative Mind Map Editor



<http://linuxlab.corp7.uniyar.ac.ru/projects/hivemind>

Top-Level Architecture of HiveMind Application

User



User Interface



MainWindowController

Commands

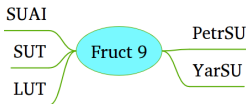


QUndoCommand

QUndoCommand

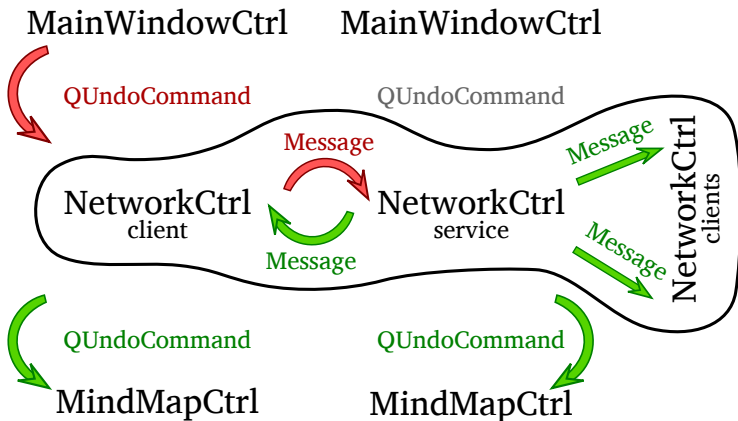
QUndoCommand

Mind Map



MindMapController
(QUndoStack)

Overview of Network Interaction



Collaboration Video

HiveMind collaboration video

Try HiveMind at FRUCT 9!

Get HiveMind from the project homepage

<https://linuxlab.corp7.uniyar.ac.ru/projects/hivemind>

Register <http://hivemind.cs.prv>

Register a Jabber account

This page allows to create a Jabber account in this Jabber server. Your JID (Jabber Identifier) will be of the form: `username@server`. Please read carefully the instructions to fill correctly the fields.

1. **Username:** ← **Username**
 - o This is case insensitive: macbeth is the same that MacBeth and Macbeth.
 - o Characters not allowed: " & ' / : < > @
2. **Server:** ← **user1**
3. **Password:** ← **Password**
 - o Don't tell your password to anybody, not even the administrators of the Jabber server.
 - o You can later change your password using a Jabber client.
 - o Some Jabber clients can store your password in your computer. Use that feature only if you trust your computer is safe.
 - o Memorize your password, or write it in a paper placed in a safe place. In Jabber there isn't an automated way to recover your password if you forget it.
4. **Password Verification:**
5. **Register**

Teamwork

- Host teamwork
- Participate in teamwork

Connect to network

Account Connection

jabber ID:

Password:

Cancel OK

user1@hivemind.cs.prv

SmartConference Overview

SmartConference

- Conference automation system
- Scheduling system
- Control over presentation

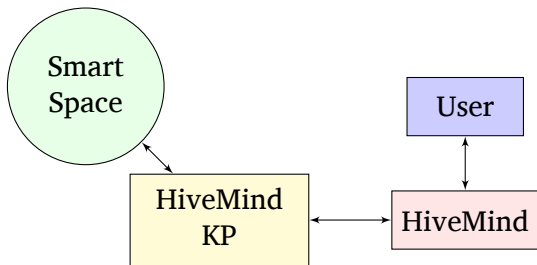
Smart-M3

- SmartSpace technology
- Information level interoperability

Use Case 1: Personal Mind Map for Memory Notes

- The initial mind map is filled with information about talks and presenters
- The mind map is updated with information about corresponding talks online
- A user joins his/her own comments and notes to the corresponding nodes of the mind map
- Mind map contains only information related to the person (e.g. no information about slides the person did not see)

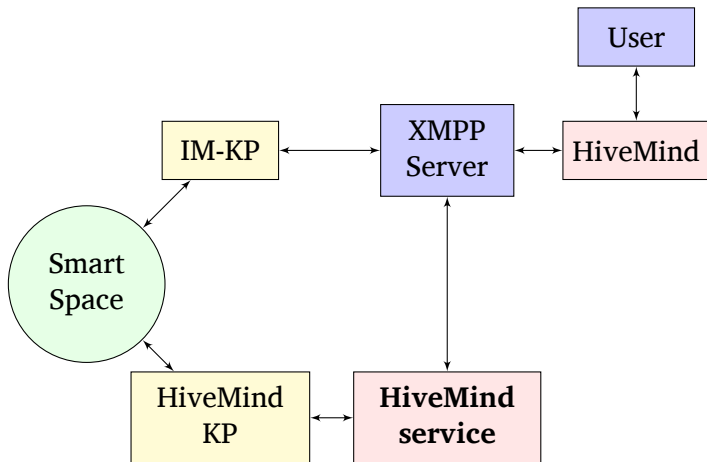
Use Case 1: HiveMind and SmartConference Interaction



Use Case 2: Statistical and Contextual Information Collector

- Mind map is built automatically from the information available in Smart Space
- Mind map is being filled with **all** statistical and contextual information from Smart Space
- This mind map available for all the members of organizing committee

Use Case 2: HiveMind and SmartConference Interaction



Video

Video

Future Proposals

- Full-featured local mind mapping
- Advanced search and filtration
- Promotion of HiveMind
 - Debian unstable
 - Intell AppUp
 - Maemo-extras
- Mind Map Templates
- Proxy support
- Robots

Try HiveMind at FRUCT 9!

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