

Pophongo (Jabber service with advanced features and supporting calls to landline phones)

Customer

The customer is an English telecommunication company specializing in providing voice connection services, and having a net of its call-centers.

Aim

The main aims of the service Pophongo were:

- development of jabber client for working with the Pophongo service;
- providing users with a possibility to communicate with each other and in groups, with a simple and clear interface;
- including the possibilities of voice telephony in jabber client, using the existing SOAP API of the company;
- communication with other network users (Google Talk, Yahoo);
- the possibility of sharing the means with other users by simple dragging;
- enhancement of possibilities of jabber of the ejabberd server;
- enhancement of standard possibilities of group rooms (MUC) both on the server and on the client.

Solution

For a quicker release of the software product beta version, the project with open source code PSI was taken as a basis. This project is now holding the leading position among jabber clients. In the process of development 70% of the PSI's code was redesigned, still the beta version of the product was released in the short time. The result of development is a flexible framework of Qt application in which development of non-trivial interfaces and network functions became much easier than in the source code of the PSI client. At advancing the server possibilities one of the modules had to be changed a little. As a result, a multi-user chat supporting offline users has been developed. At this, a user could exit the chat, but still be seen for others, and receive missed messages at the next login. (like-Skype) the possibility to save such groups and continue chatting in them was added. Moreover, configuration of servers for developing scalable system of the server has been carried out.

Basic functions

- Jabber client:
 - simple and clear interface (the PSI's interface was completely redesigned);
 - the possibility of communication between users in private chats (for Pophongo users and users of other nets);
 - the possibility of communication between users in group chats (only for Pophongo users);
 - work with SOAP API on the server;
 - flexible and quick system of saving configuration.
- Jabber server:
 - the possibilities of group chat were added on the base of Publish-Subscribe technology.

Technologies

VisualStudio 2008, C++, Qt 4.4.0, OpenSSL, QCA, Expat, Easysoap, XMPP, SSL, SOAP, XML

Product Title

Pophongo

Project capacity

20 man-months