Application Development for Mobile and Ubiquitous Computing

Seminar Task

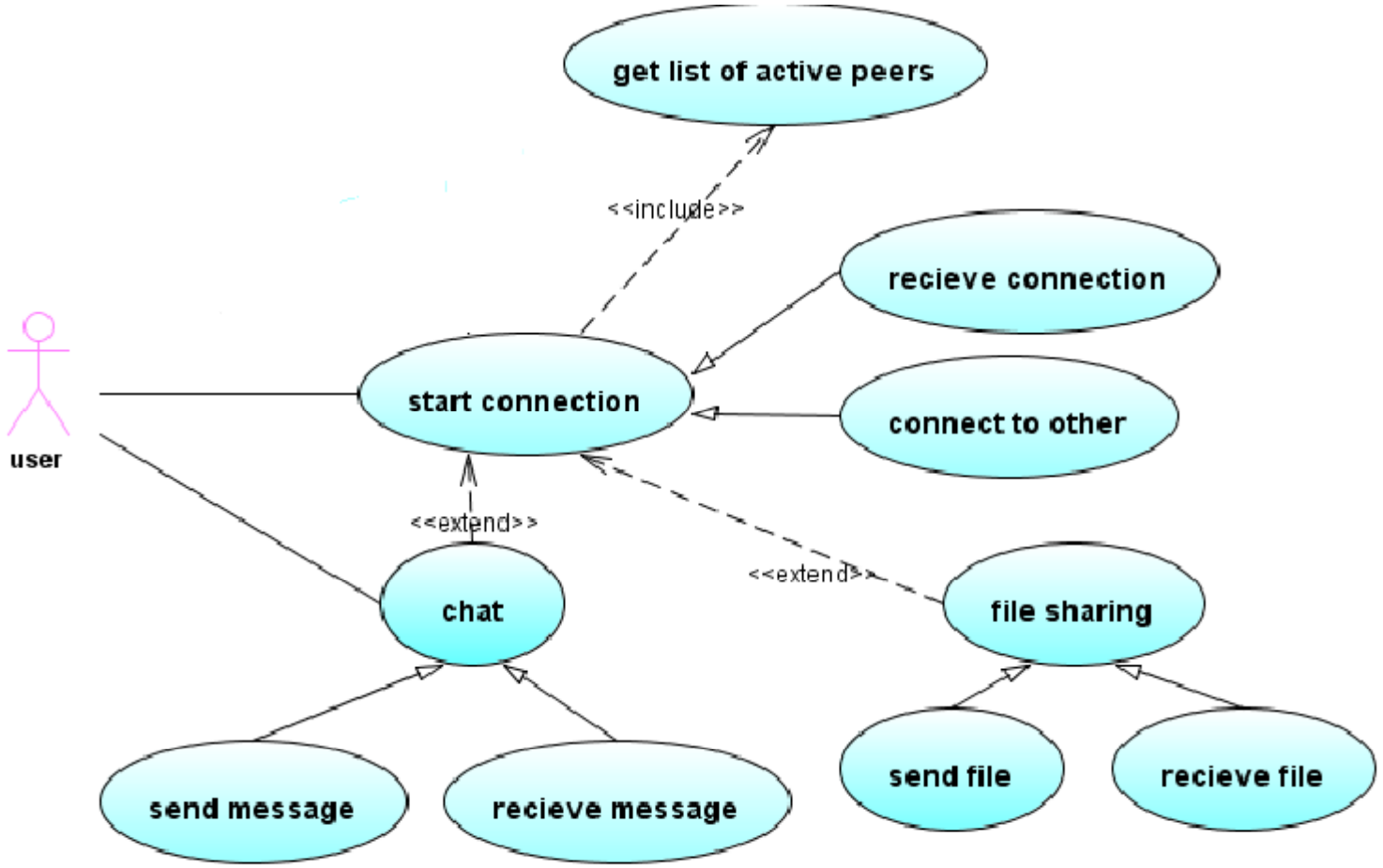
Second Presentation

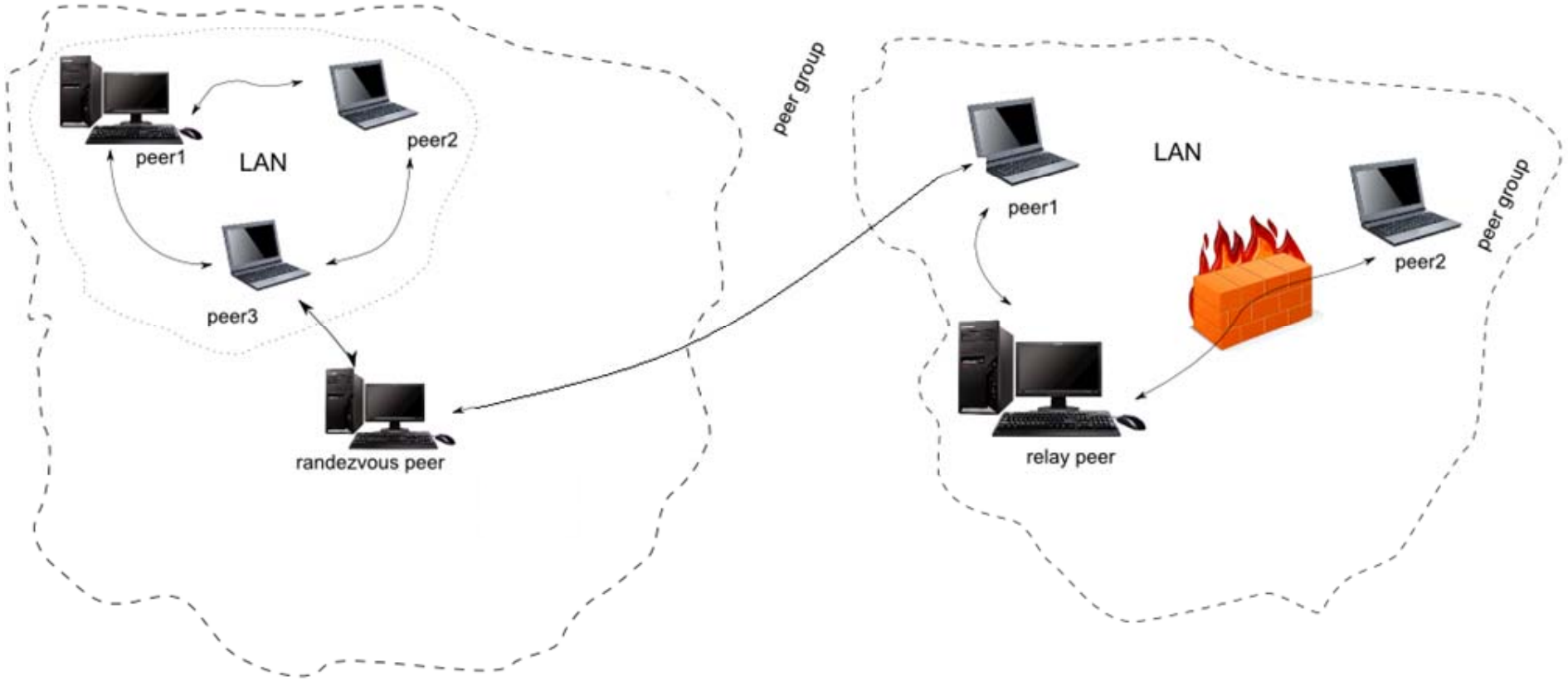
GroupNo. 8
Team:
Magdalena Sobierajska
Radosław Stawczyk

Formatvorlage des Untertitelmasters durch Klicken bearbeiten

1. User opens an application – trying to connect to the default peer group;
2. Login and password verification;
3. Application enables chatting (by sending an asynchronous messages) and file sharing;
4. User can choose a chat partner from the active users' list;
5. User can define his own peer group and verify its members.

Application Scenario

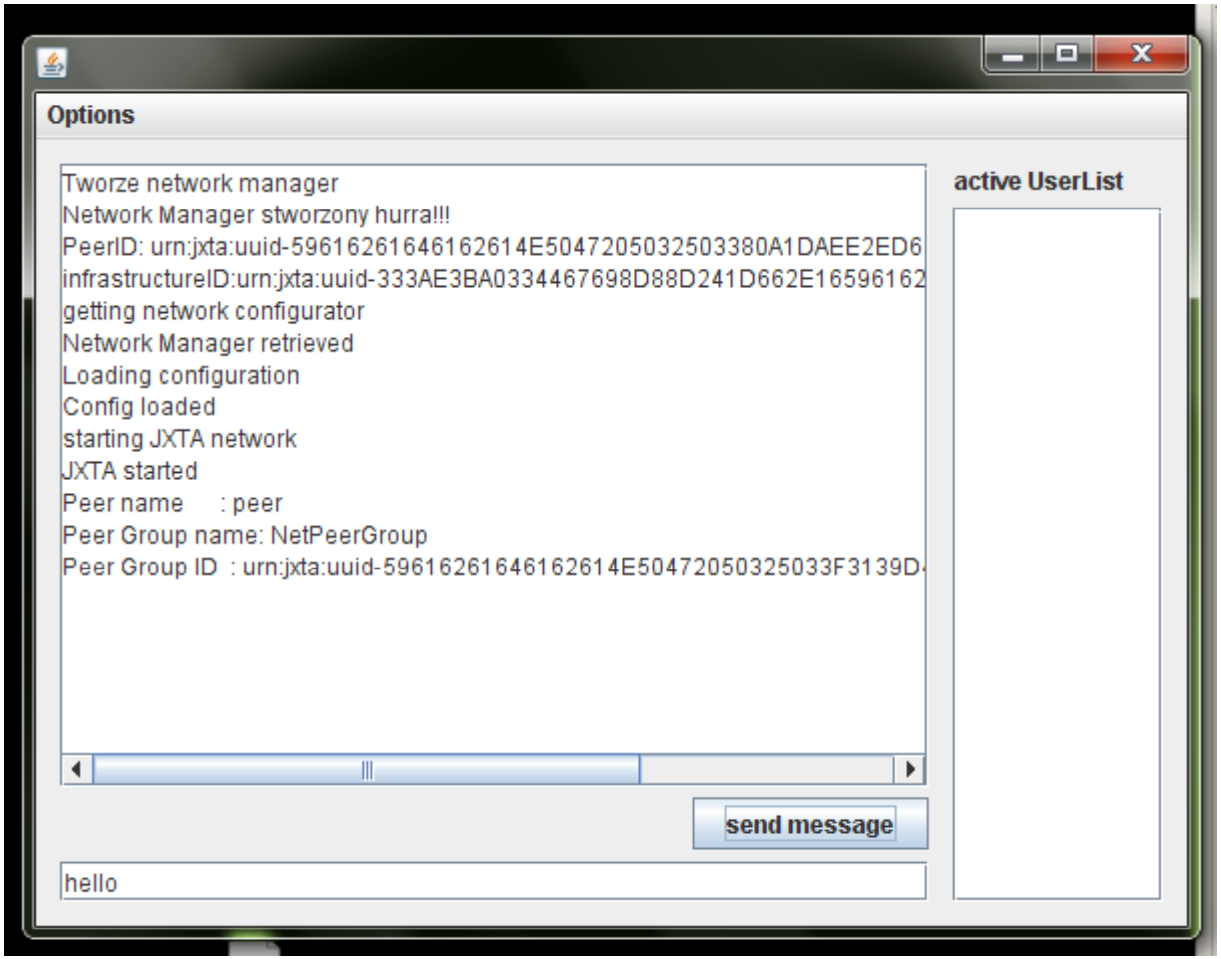


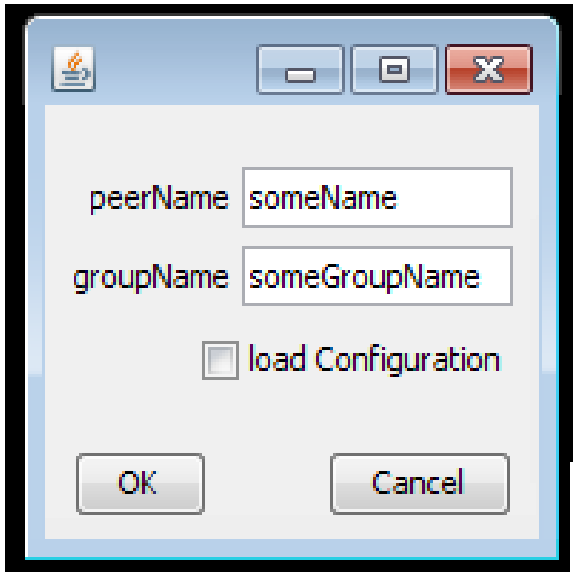

peer group
peer1
LAN
peer2
peer3
randezvous peer
peer group
peer1
LAN
peer2
relay peer

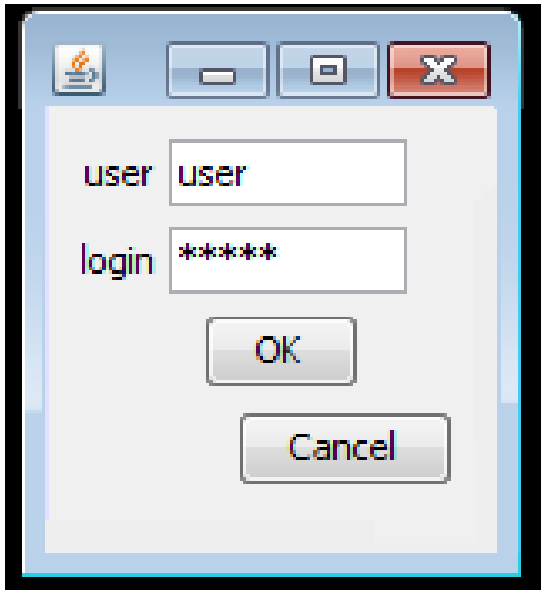
- Peer connects to the network (default peer group) – NetworkManager and NetworkConfigurator;
- Listens for other peers' advertisement,
  - If there are any – it gets advertisement and thereby other peers IDs;
- Publishes its own advertisement;
- If peer wants to communicate with another peer, it has to set up a bidirectional pipe (a channel through which messages are sent). The other peer has to accept a request and make the other end of the pipe. If it don't accept it, a special message is sent back with information about rejection.

OPEN TASKS:

- Communication with many peers at the same time (private chatroom) – propagated pipes;
- Communication with peers behind the firewall – a relay peer;
- Creating private peer groups;
- File sharing;
- Authentication – Membership Service or PSE (Personal Security Environment) Membership Service.


Options
Tworze network manager
Network Manager stworzony hurra!!!
PeerID: urn:jxta:uuid-59616261646162614E5047205032503380A1DAEE2ED6
infrastructureID:urn:jxta:uuid-333AE3BA0334467698D88D241D662E16596162
getting network configurator
Network Manager retrieved
Loading configuration
Config loaded
starting JXTA network
JXTA started
Peer name : peer
Peer Group name: NetPeerGroup
Peer Group ID : urn:jxta:uuid-59616261646162614E50472050325033F3139D
active UserList
send message
hello


peerName
someName
groupName
someGroupName
load Configuration
OK
Cancel


user
user
login
*****
OK
Cancel