EZ Intranet Messenger

|  |  |  |  |
| --- | --- | --- | --- |
| *Tamyres Sayegh Ezarani Guimaraes* | | | *7187858* |
| *Vicranth Somasundaram* | |  | *6609759* |
| *Goaba Mogapi* |  |  | *6018211* |
| *Dan Zhang* |  |  | *6733298* |
| *Sarah Schneider* |  |  | *7619049* |

# Summary of Project

EZIM is an instant messenger application for the intranet network that supports online status notification, file transmission and real time chat with computers connected via LAN. It does not need a centralized server, instead it just finds all other users within the same network by obtaining their IP address from the DHCP server. It runs on a Java Virtual Machine, therefore it works on Windows, Mac OS X and Linux platforms.

# Personas, Actors, and Stakeholders (3 primary, 2 secondary and list)

**Primary:** Mark is 45 years old. He is the manager of a medium-sized software development company. In his workplace, it is necessary to use instant messengers for fast communication between developers who are in the same building but in different rooms. He is very worried about security and privacy, and is very reluctant about using famous instant messengers such as Skype, Facebook Messenger and Google Hangouts. He would like to use a messenger that is not linked to any services - such as email or social networks - and does not require to create an account.

**Secondary:** Janet is 24 years old and is the only secretary at a very busy doctors’ office. Instant messengers are a part of her everyday life for chatting with her friends and family. At her workplace, she has to call the doctors’ extension or knock on their door to tell them that a patient has arrived for an appointment. This often leads to her being absent while her phone is ringing or missing calls because she was on the phone with a doctor. She knows instant messengers would make her life a lot easier, but there are very elderly and non tech-savvy doctors at her office that are very resistant to that idea because they don’t know how to use those big messengers full of features. She would like a simple instant messenger that’s as straightforward and easy to setup as possible so she can convince those doctors to use it.

**Secondary:** Mariette is an 80 year old woman who lives in a retirement home. She is a mother of two children and 5 grandchildren. She has limited mobility so she spends most of her time in her living quarters. Every fortnight her kids come to visit her. She has good vision and can read very well. She has limited knowledge on computers, however, she can do just the basics like typing documents and reading her emails. Whenever her children visit her they give her small tutorials to broaden her knowledge and skills. She doesn’t interact often with the other elders because she is confined to her bed. She would like to chat with other retirees that she cannot otherwise talk to in person.

Actors

* User who will install the messenger on their machine
* Network support technician
* LAN

Stakeholders

* Security managers
* Network support team (managers, administrators)
* System administrators
* Acquirers

# Stories

As a **user**, I can login to **EZIM**.

As a **contact**, I can view the **Contact List**.

As a **contact**, I can send **outgoing files**.

As a **contact**, I can receive an **incoming file**.

As a **contact**, I can accept an **incoming file**.

As a **contact**, I can refuse an **incoming file**.

As a **contact**, I can send an **outgoing message**.

As a **contact**, I can receive an **incoming message**.

As a **contact**, I can request an **outgoing file**.

As a **contact**, I can join the **Plaza of Speech**.

As a **contact**, I can change my **online status**.

As a **contact**, I can see my **message history** for **private messages**.

# UML Diagram

In our domain model, a human actor who uses the messenger is called a User. After a user Tim has logged on the messenger, a contact list will be displayed in the main window. In the contact list, a list of other users (other people who are currently using the messenger within the LAN) and the user himself is displayed. When Tim selects a certain user, he can see that user’s information. When Tim needs to send a file to another user, he selects a user from the contact list, then chooses the Upload option and finds the file he wishes to send. The other user will receive a notification with information about the file and be asked whether or not to accept the file. If the other user accepts the file to be sent, he/she will be ask where he/she want to save the file on his/her computer and the transfer will proceed. Then both users (Tim and the receiver) will be noticed that the transfer is done.

When Tim wants to talk to another user in private, he can select the user’s name from the contact list. After entering the subject and content of the message, Tim can pick the “Send” option to send the message. After the other user reads the message, he/she can reply the message in the same way. One thing to notice is that in the replies of a message, message history is displayed. When Tim wants to say something that everyone in the contact list can see, he can enter the Plaza of Speech. Any user who currently has opened the Plaza of Speech window will see what Tim and anyone else says.

