Network Programming

Design and Analysis

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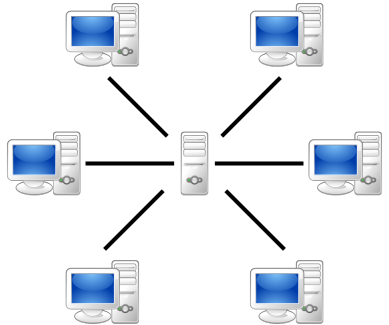Do Nhat Quang - 20140864

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Application Introduction

Our Application is about chatting program:

- Application require login and logout
- Allow users to chat with each other
- Allow users to create a group
- Allow user to chat in a group
- Allow user to send pictures to others

- Transport protocol TCP
- Server - Client Architecture

Figure 1: Model

Design

1. **Message Format**
2. **Modules**
3. **Protocol**

Message Format

1. Using JSON Format
2. Client message
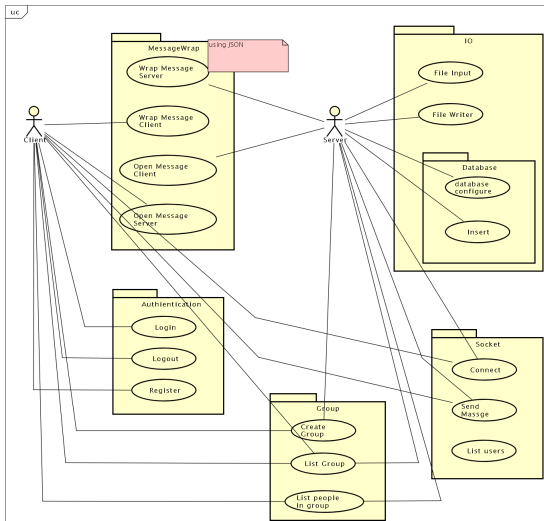3. Server Message

Client Message

1. Method
2. User name
3. Password
4. Sender
5. Receiver

Server Message

1. Method
2. Code
3. Sender name
4. Receiver ID
5. Error list
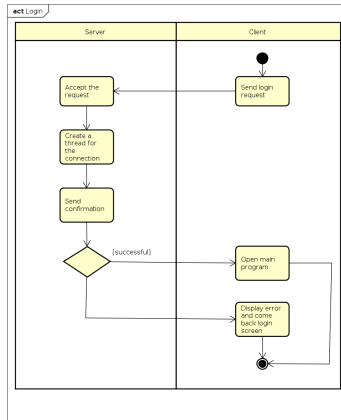6. Object list

Modules

1. **Library**
2. **Log In**
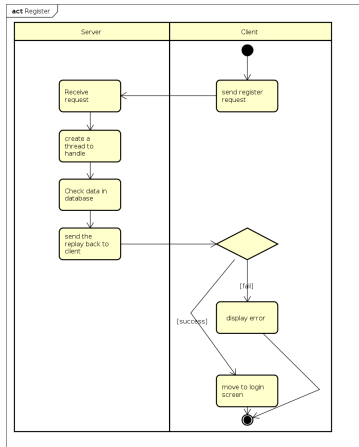3. **Register**
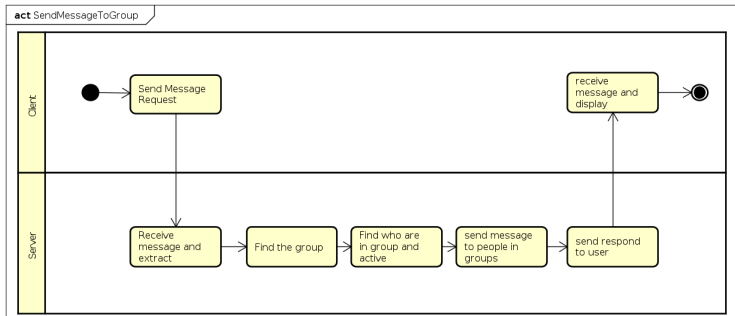4. **Send Message**
5. **Room**

Module Design

Log In

Register

Send Messages To A Group

Send Message To A Person