

Network Programming

Design and Analysis

Dinh Anh Dung - 20140774

An Nguyen Quynh Anh - 20140028

Do Nhat Quang

Hanoi University of Science and Technology

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

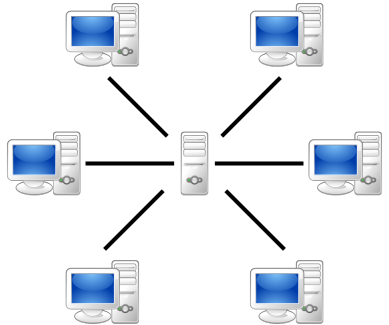


Figure 1: Model

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

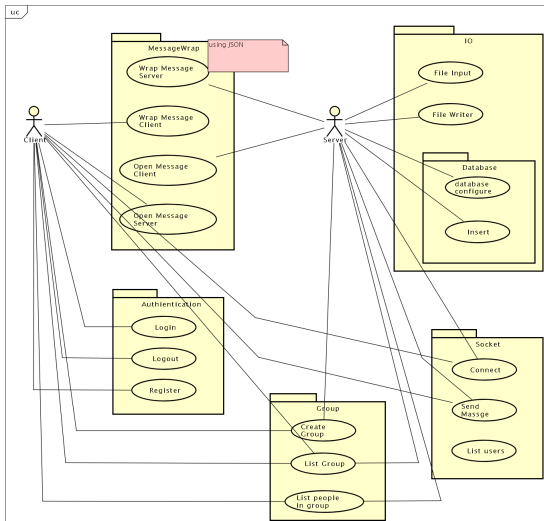
1. Using JSON Format
2. Client message
3. Server Message

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

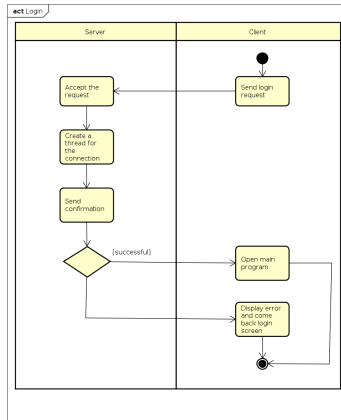
1. Method
2. Code
3. Sender name
4. Receiver ID
5. Error list
6. Object list

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

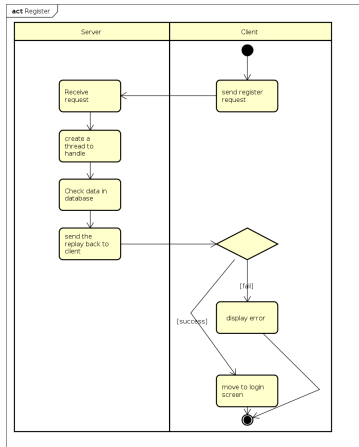
Module Design



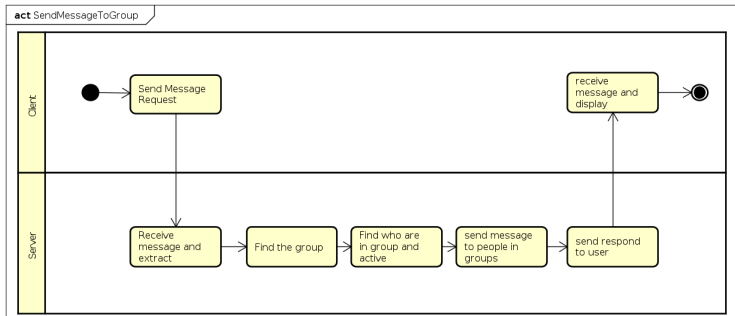
Log In



Register



Send Messages To A Group



Send Message To A Person

