Tugas 5 IF3038 Pemrograman Internet

Speek Messenger

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Deskripsi Format Pesan

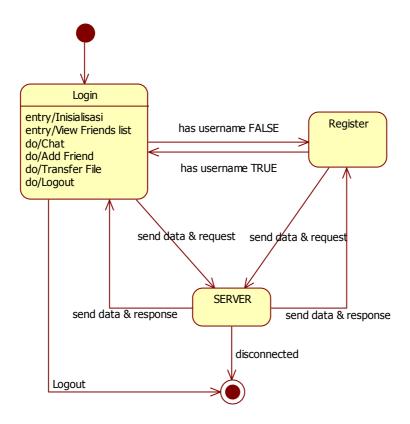
Deskripsi format pesan terdapat pada file protocol.h, pada file ini dibuatlah suatu aturan yang berisi format pesan yang diterima dan dikirim dari client dan server, serta sebaliknya.

Isi dari file tersebut:

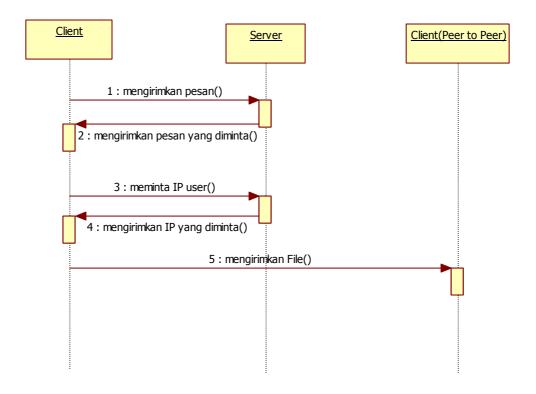
```
#ifndef SPEEK PROTOCOL
#define SPEEK PROTOCOL
#define PROTOCOL NAME "SMSG"
#define PORT 7674
typedef struct {
     char name[4];
     int version;
     int pkt_len;
     int service;
     int status;
     char data[32768];
} protocol;
#define SPEEK_VERSION 1
#define SMSG_SERVICE_LOGON
#define SMSG_SERVICE_LOGOFF
#define SMSG_MESSAGE
#define SMSG_FILETRANSFER
#define SMSG_ADDFRIEND
#define SMSG_REMFRIEND
#define SMSG_RETFRIEND
#define SMSG_STATUSUPDATE
#define SMSG_REGISTER
#define SMSG STATUS FAILED
#define SMSG STATUS SUCCESS
                             1
#define SMSG_STATUS_ONLINE
                              2
#define SMSG_STATUS_OFFLINE
* SMSG_SERVICE_LOGON
* Client:
* \30username\31password
* Server:
* Server akan mengembalikan status 1 kalau login sukses, 0 kalau gagal
* SMSG_SERVICE_LOGOFF
 * Client:
 * \30username
* SMSG_MESSAGE
* Client:
 * \30sender\31receiver\31message
 * Server:
 * Teruskan ke client receiver
* SMSG_RETFRIEND
* Client:
 * \30username
 * Server:
```

```
* \30friendname1\31status1\30friendname\31status2
* SMSG_ADDFRIEND
* Client:
* \30username\31friendname
* Server:
* Status 1 kalau berhasil, 0 kalau gagal
* SMSG_REMFRIEND
* Client:
* \30username\31friendname
* Server:
* Status 1 kalau berhasil, 0 kalau gagal
* SMSG_STATUS_UPDATE
* Server:
* \30username\31status
* SMSG_REGISTER
* Client:
* \30username\31status
* Server:
* Status 1 kalau berhasil, 0 kalau gagal
* SMSG_FILETRANSFER
* Client:
* \30targetusername
* Server
* Status: SMSG_STATUS_SUCCESS atau SMSG_STATUS_FAILED
* \30ipaddress
*/
#endif
```

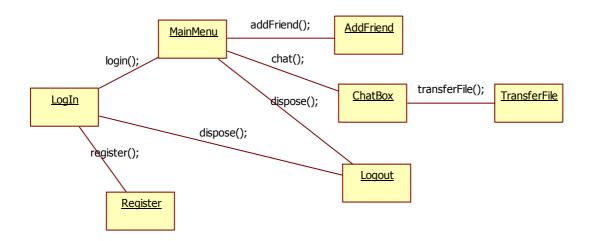
State Chart Diagram



Event Sequence



Collaboration Diagram



Error Control

- 1. Jika headernya bukan "SMSG" maka paket tidak diterima oleh server.
- 2. Jika nomor service tidak ada maka paket juga ditolak.