**GROUP 7  
PROTOCOL MANUAL**

The protocol keywords of SAND-ChatApp are listed in an enumeration class called ‘CommandList.java’. In our application, we transmitted every package as an object. In this object there is a field that contains information of the protocol.

The protocols used in our application are described as follows:

• IDENTIFY

Server invites client to submit his username.

• IDENTIFYING

Client submits his/her username

• WELCOME

Server confirms that client has been added

• MESSAGE

Messages sent between server and clients

• NEWNAME

Client tells the Server that he wants to change his Username and submits the new Username

• NAMECHANGED

The Server confirms that the client name has changed

• LOGOUT

Client informs Server that he wants to leave

• GOODBYE

Server confirms that he is logging out Client. At the moment, a Client closes his Program when being removed from the Server.

• PING

ask for confirmation, if C/S is still here

• PONG

send confirmation, that you are still here