**Assumptions made:**

In this chat application we have taken the following assumptions:

* This is a menu-driven group chat application.
* Whenever a user requests to get added or removed from in a group , if he is a new user his details are taken and a request for him is scheduled.
  + - * + Request is another class in this case with the attributes as:

request id, username, requested group ids, request type(add or removal request) and the request status.

* There is only one admin for all the groups.
* One user can be a part of multiple groups.
* Multiple groups can have multiple users.
* Only the admin can approve the requests sent by the users.
* Whenever a user requests to be added in a group that has not yet been formed then the admin creates the group and adds the user in it.
* Also the admin himself can create and delete new groups.
* User can send a message only to is group while the admin can send a message to all the groups.
* Whenever a user wants to see his messages he is asked to enter his user name and the group id for which he wants to see the messages and accordingly the messages are displayed.
* Whereas if the admin wants to see the messages he is asked for the group id for which he wants the messages to be shown and accordingly he is shown all the messages of that particular group.