

Multithreaded Chat Room

Made at: **Rutgers University**

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Chat Room is a desktop application that allows multiple clients communicating through TCP/IP network connections. It contains of a server and clients. Each client has a different color code. No two clients can have the same name.

- Initially all messages entered by any client are public.
- Any client can have a private conversation with one or more other active users.
- A private conversation is initiated one active client at a time.
- An active client can leave any time.
- An active client is the target of private communication => tell originator of departure.
- Private communication from Client A to Client B does not imply private communication from Client B to Client A.
- Private communication does NOT get logged.
- Private communication is terminated by the same client that initiated private communication.
- End of all private communication from Client A returns Client A to public communication.

Technologies

- JAVA Programing Language
- TCP/IP
- Mutex/Semaphore
- Socet/IO

Usage

```
// The default port number.
int portNumber = 8888;
if (args.length < 1)</pre>
```

Application Setup

- The application Runs on the local host by default.
- 8888 is the default port.
- Any customization must be done in the source code
- maxClientsCount = 20; by default.
- You may change the load on the server by changing maxClientsCount value.

Team Members

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** feedback to be provided by the TA**