

Assignment 2: Implement a multi client chat application

Submission due: 08-11 March 2021

Write a multi-client chat application consisting of both client and server programs. In this chat application simultaneously several clients can communicate with each other. For this you need a single server program that clients connect to. The client programs send the chat text or image (input) to the server and then the server distributes that message (text or image) to all the other clients. Each client then displays the message sent to it by the server. The server should be able to handle several clients concurrently. It should work fine as clients come and go. Clients should be able to send messages in any two modes out of the following.

(i) Unicast; (ii) multicast; and (iii) broadcast

Develop the application using a framework based on Node.JS.

How are messages handled concurrently? Which web application framework(s) did you follow?

Prepare a detailed report of the experiments you have done, and your observations on the protocol layers thus created.