

COSC 2327 Introduction to Computer Networks

Project

(Fall 2023)

For this assignment, choose one of the following two options:

1. Programming project option in which you implement a chat application
2. Academic event participation option in which you will attend events (workshops, colloquiums, conferences, etc.) and write reports about them.

Then, email your decision to the instructor and TA (jxr153@shsu.edu; axa184@shsu.edu) no later than Friday, October 6. If you don't email on or before October 6, then you will get 5-point deduction. Note: The instructor will NOT respond to any E-mails that do not follow appropriate etiquette. See the syllabus for the details.

1. Programming Project

In this assignment, you will implement a chat application.

Step 1. Create a chat application in which two clients chat with each other through a server. Two clients must send their chat messages to the server, and the server forwards (broadcasts) the chat messages to the clients. There must be only one server running.

Step 2. Improve the chat application so that more than two clients chat together through a server. All clients must send their chat messages to the server, and the server forwards (broadcasts) the chat messages to the clients. *There must be only one server running.*

Step 3. Improve the chat application so that there are several chat "groups". In each group, more than two clients chat together through a server. All clients in the same group must send their chat messages to the server, and the server forwards (broadcasts) the chat messages to the clients in the same group. *There must be only one server running.*

Step 4. Upload your source code(s) on Blackboard before your demonstration.

Step 5. Demonstrate your program in the instructor's office on or before Nov 2, 2023 .

2. Academic Event Participation

If you choose the academic event participation option, your task is to attend colloquiums, seminars and/or conferences, and write reports about them. You must attend at least **four** of the following events.

Only IN-PERSON events please.

1) Fall 2023 Career Fairs

- Date, Time & Location: <https://www.shsu.edu/dept/career-success-center/>
- You can still attend Career fairs hosted by others. Just please get the instructor's approval before you attend.

2) Career Services

- Date, Time & Location: <https://www.shsu.edu/dept/career-success-center/cs/appointments>

3) Helping Kats C.O.P.E. Workshops

- Date, Time & Location: <https://www.shsu.edu/dept/counseling/c-o-p-e-workshops.html>

4) Any other computer science related events

- Email the instructor (jxr153@shsu.edu) for approval.

From time to time, emails with special events will be sent, too. For each event you attended, you must upload the following on Blackboard (**NO Email submissions**) on or before Nov 2:

1. One- or two-page report for each event which must include (**word counts must be 500+**)
 - your name
 - what even you attended, and
 - the summary of the talk you listened to: who talked, what was talked, and what you have learned from the talk.You must use the report form uploaded on Blackboard, or you will get 5% point deduction.
2. Proof of your attendance (With no submission, you will get 5% point deduction.)