

# CSCI-231 Server-side Development

## Final Project

### The Decision

Students have the option to join a 2-person team and complete a team project or take a comprehensive final exam at our regularly scheduled final exam time at 10:30 a.m. on Thursday, December 11.

After reading this project description each student must decide to either join a team and complete the team project or to take a comprehensive final exam.

**Students who choose to join a 2-person team and complete the team project must do so at the beginning of class on Tuesday, December 2.**

### Teamwork

Team membership will be decided by the instructor. The instructor will assign students to teams during class on Tuesday, December 2.

When working on the team project, team members must work together utilizing pair programming. Students are not allowed to work together virtually on this project - students must sit side by side in the same room. This will foster better communication, collaboration, and learning.

Students must work within the teams they are assigned. Teams may not discuss their solution with other teams or use AI when completing this exam. The code submitted by each team must be the creation of the team members and only the team members.

If a team member suggests the team break any of the rules described in this document, please encourage them to maintain their integrity.

**A student can leave their team at any time prior to 10:30 a.m. on Tuesday, November 9 by emailing the instructor.**

The instructor will email the other team member to notify them that the team is dissolved.

**When a student leaves their team the team is dissolved and both team members must take the comprehensive final exam on Thursday, December 11.**

### Deliverables

Abiding by the [schema set definitions](#) and the [API specifications](#) the class agreed upon you must create in your API server the necessary models and routers that implement the following endpoints:

A	User creates chat	POST	/chat
B	Invite member to chat	POST	/chat/:chatId/invitation/:userId
A	Accept/Decline chat invite	PATCH	/chat/:chatId/invitation/:requestId ?accept=[true false]
B	Leave a chat	DELETE	/chat/:chatId/membership
A	Send chat message	POST	/chat/:chatId/message
B	Get chat messages	GET	/chat/:chatId/messages ?limit=#&offset=# &search=string

**Any request to deviate from the schema set definitions or API specifications must be presented to the class on Thursday, December 4.  
The class will decide collectively to accept or reject the request.**

Your API server should be able to service requests to these endpoints and should be rigorously tested with Postman.

Teams must assign one member of their team the letter A and the other team member the letter B. Each endpoint is assigned a letter. The letter indicates which team member is allowed to use the keyboard when writing the code for the endpoint. The team member who is not using the keyboard should watch and advise his/her teammate.

One or both team members may use the keyboard when writing the code for the models and any other programming that is necessary.

### **Code Submissions and Demonstrations**

When a team has completed the project, team members must share their code so that **both** members have the same working API server in their Git repositories on their laptops.

Both members must then push their code to our shared repositories on GitHub. Team submissions are due before 10:30 a.m. on Tuesday, November 9.

**Teams that do not submit their code by 10:30 a.m. on Tuesday, November 9 must take the comprehensive final exam at 10:30 a.m. on Thursday, December 11.**

After both members have pushed their code to GitHub the team must select (outside my office) a time at which both team members can demonstrate to me their API server.

If your team has completed the project and you would like to demonstrate your code sooner than the next available time slot, please find me to discuss.

Students must demonstrate their API server prior to 10:30 p.m. on Thursday, December 11.

**Teams that do not demonstrate their code by 10:30 a.m. on Thursday, November 11 must take the comprehensive final exam at 10:30 a.m. on Thursday, December 11.**

Demonstrations will take around 5-10 minutes. During the demonstrations the instructor will test each endpoint and try to break your API server using Postman.

There will be no leniency or exceptions to the deadlines specified above.