

Distributed Systems Programming

A.Y. 2021/22

Exam Assignment for Exam Call on 08/09/2022

Deadline for submission: 06/09/2022 EOD

Extend the solution of Laboratory 3, by introducing the possibility, for a user who has selected an active task, to chat with the other users who have selected the same task as their active task. The extension must fulfill the following specifications:

1. Both the React client and the server must be extended.
2. The chat must be implemented by means of websockets, and it must work in the same way as the sample websocket chat presented in the course lectures (it is possible to adapt the code of that chat). Of course, in this case, there is not a single common chat, as in the sample, but a different chat for each task selected as active by someone.
3. In the React client, the chat must appear in a portion of the application page where the user can select the active task. If the current active task changes, the chat changes accordingly.
4. When a user having the chat open is writing in the text box, this information must be automatically reported to the other users of the same chat (User XXX is writing...").

Submit the updated solution, including all the following items:

- The updated code of the server
- The updated code of the React client
- README.md files that specify the contents of folders and instructions on how to run the code (server and client) from scratch

Important:

- Organize the project files as in the solution provided for Laboratory 3.
- The solution must work within the Labinf machines, with the software already installed in those machines.
- The solution will be tested by running it in the Labinf machines.
- The solution must be uploaded to a git repository for which you will soon get the credentials.