Computer Networks

report

- 1. Team members: B07502027聶家任, B07502028吳宗翰.
- 2. Defect: Images can't be shown in chat room.

3. Implementation detail:

- http response/request: We use the http package in the JS client to generate requests in http format, and use the socket in C++ server to listen on the requests from users and send back http responses. (The C++ server does the same thing in connection stage as phase 1!)
- data base: The data base is set in the same folder in which server is established. Every time a new user occurs, the data base would add the user's directory. On adding a friend, a file which is their chatting history and a directory where their shared files are placed, would be generated in their directories. On removing a friend, their chatting histories and shared files are all deleted.
- chat history: Chat history would contains lines like $A: Hi \setminus n$ and $B: hello \setminus n$ which specify me and friends' communications. And some lines like $AF: < filename > \setminus n$ mean the name of the file I have delivered.
- download: We use the JS server to download files because of the security issue of the JS client that it cannot download files.
- bonus (account system): Every name being logged in at the first time would set the password correspondingly, and the users and passwords' pairs are saved in the data base.
- 4. Demo link: https://youtu.be/VK92SRfSbKc
- **5. Work division**: We works together in every part.