

第 15 組

chatroom robot assistant

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動機與目的

我們想要知道平常使用的聊天軟體，是如何接收與發送訊息，也想知道 Client 和 Sever 是如何與資料庫互動。並在聊天室中模擬出一個機器人可以回答使用者簡單的問題。

Client 端介面

The screenshot shows a web browser window titled "Chat Application". The interface has a dark grey background. At the top, it says "目前聊天室有 0" (Currently 0 people in the chat room). Below this, there are two input fields for "Nick Name" and a "Login" button. Underneath, there is a "chang password" label, another input field, and an "update password" button. A large text area contains the message "Welcome to chat room!" and "Input your nickname:". At the bottom, there is a "Send" button.

Chat Application

目前聊天室有 0

Nick Name Login

chang password update password

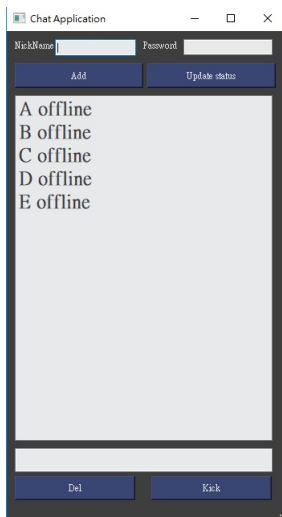
Welcome to chat room!
Input your nickname:

Send

Client 端功能

- 登入
- 改密碼
- 發送訊息
- 顯示其他 client 端的訊息

Sever 端介面



Sever 端功能

- 增加帳密
- 刪除帳戶
- 顯示用戶是否在線上
- 處理 bot 天氣

MongoDB

MongoDB Compass - localhost:27017/ChatRoom.user

Connect View Collection Help

My Cluster

localhost:27017 STANDALONE

MongoDB 3.6.5 Enterprise

ChatRoom.user

DOCUMENTS 5 TOTAL SIZE 280B AVG. SIZE 56B INDEXES 1 TOTAL SIZE 16.0KB AVG. SIZE 16.0KB

Documents Schema Explain Plan Indexes Validation

FILTER { field: 'value' }

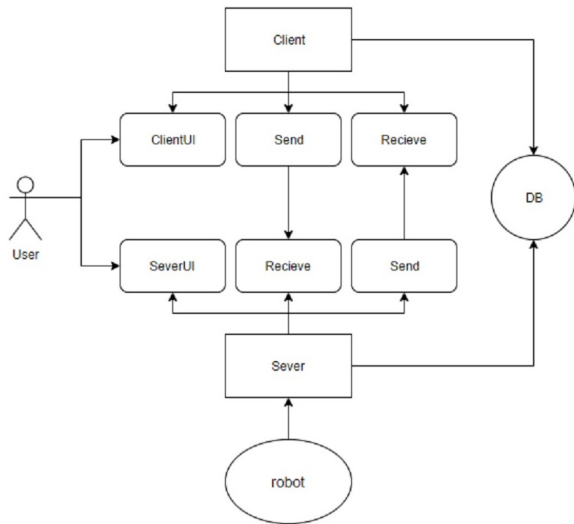
OPTIONS FIND

INSERT DOCUMENT VIEW LIST TABLE

Displaying documents 1 - 5 of 5

```
{ "_id": ObjectId("502b1a0293a297377cd75f14"), "uname": "A", "upwd": "A", "online": false }
{ "_id": ObjectId("502b1a0293a297377cd75f15"), "uname": "B", "upwd": "B", "online": false }
{ "_id": ObjectId("502b1a0293a297377cd75f16"), "uname": "C", "upwd": "C", "online": false }
{ "_id": ObjectId("502b1a0293a297377cd75f17"), "uname": "D", "upwd": "D", "online": false }
{ "_id": ObjectId("502b1a0293a297377cd75f18"), "uname": "E", "upwd": "E", "online": false }
```

系統結構圖

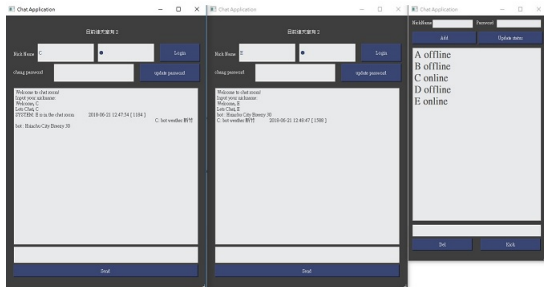


實作方法

利用 Socket 通訊，開啟 Sever 後，Client 傳送訊息，再利用 Server 廣播給其他 Client，Client 登錄時，會傳送一個特殊碼給 Server，Server 就會計算在線人數，回傳給所有的 Client。

實作方法

偵測發送的訊息，判斷是否是給 Bot 的指令，若是的話，則會利用 weather-api 尋找該地方的天氣，並回傳給所有的 Client。



實際示範

Revision History

UI window raymondracon committed May 25, 2018	severUI raymondracon committed Jun 1, 2018	Complete delete Jerrying committed 4 days ago	bot testing ddbb123 committed 3 days ago
Delete same value Jerrying committed May 20, 2018	add InitDB YEN-CHENG LIU committed Jun 1, 2018	Show all registers Jerrying committed 4 days ago	Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Room YEN-CHENG LIU committed 3 days ago
Distinguish same nickname Jerrying committed May 20, 2018	add UI raymondracon committed Jun 1, 2018	Fix some bugs Jerrying committed 5 days ago	fixed some bug YEN-CHENG LIU committed 3 days ago
add client leave information YEN-CHENG LIU committed May 20, 2018	severui raymondracon committed Jun 1, 2018	Complete same user's name have same time online problem Jerrying committed 5 days ago	add file raymondracon committed 3 days ago
few bug fix YEN-CHENG LIU committed May 19, 2018	update UI object YEN-CHENG LIU committed Jun 1, 2018	Revert "Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Ro..." Jerrying committed 5 days ago	Fix some bugs Jerrying committed 3 days ago
system information for client into room Jerrying committed May 19, 2018	The message right have some problem Jerrying committed Jun 1, 2018	Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Room Jerrying committed 5 days ago	fixed some bug and modify font size and color YEN-CHENG LIU committed 3 days ago
show the time YEN-CHENG LIU committed May 19, 2018	add UI and can normally execute YEN-CHENG LIU committed May 31, 2018	fix bugs of people number and simplify the code YEN-CHENG LIU committed 5 days ago	add kick into delete YEN-CHENG LIU committed 3 days ago
Add some information showing function YEN-CHENG LIU committed May 19, 2018		Revert "Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Ro..." Jerrying committed 6 days ago	complete kick function YEN-CHENG LIU committed 3 days ago
origin YEN-CHENG LIU committed May 19, 2018		Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Room Jerrying committed 6 days ago	add pdf file izz773751548 committed 2 minutes ago
Initial commit YEN-CHENG LIU committed May 19, 2018		Complete online people number , but it has some bugs Jerrying committed 6 days ago	some function add ddbb123 committed 6 hours ago
		finalproject file raymondracon committed 6 days ago	ppt update raymondracon committed 9 hours ago
		Delete finalproject raymondracon committed 7 days ago	Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Room raymondracon committed a day ago
		Create finalproject raymondracon committed 7 days ago	ppt update raymondracon committed a day ago
		Complete register function Jerrying committed 7 days ago	change UI color YEN-CHENG LIU committed 2 days ago
		login and change password according to database YEN-CHENG LIU committed 7 days ago	Fix parameter for searching weather location Jerrying committed 2 days ago
		client.py can use InitDB's class method YEN-CHENG LIU committed Jun 14, 2018	try different color set YEN-CHENG LIU committed 2 days ago
		complete mongodb function Jerrying committed Jun 14, 2018	bot in server and weather added ddbb123 committed 3 days ago
		Complete server ui show and not error Jerrying committed Jun 13, 2018	Bot online but some problem ddbb123 committed 3 days ago
			back before Bot add