

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 window titled "Chat Application" with standard minimize, maximize, and close buttons. The interface has a dark gray 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. Further down, 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!" followed by "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

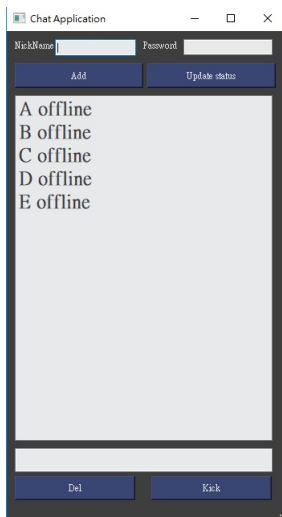
Welcome to chat room!
Input your nickname:

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' }

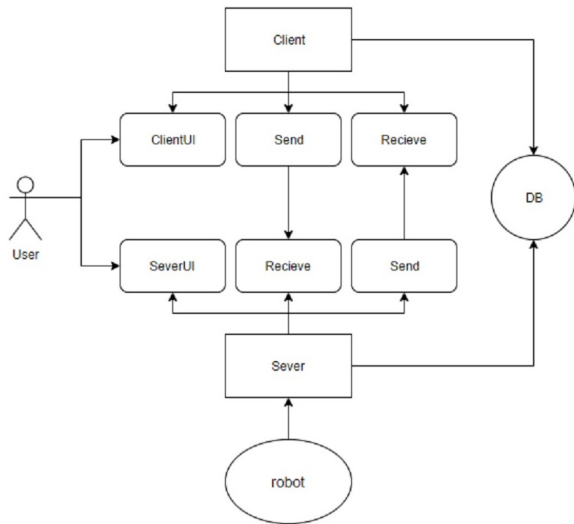
OPTIONS FIND

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 }
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```

系統結構圖

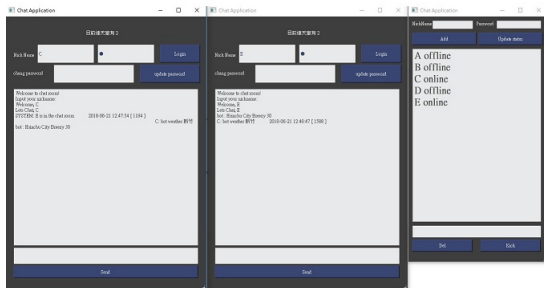


實作方法

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  raymondrraccoon committed May 25, 2018	severUI  raymondrraccoon committed Jun 1, 2018	Complete delete  Jerying committed 4 days ago	bot testing  dobb123 committed 3 days ago
Delete same value  Jerying committed May 20, 2018	add InitDB  YEN-CHENG LIU committed Jun 1, 2018	Show all registers  Jerying 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  Jerying committed May 20, 2018	add UI  raymondrraccoon committed Jun 1, 2018	Fix some bugs  Jerying 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	sevenui  raymondrraccoon committed Jun 1, 2018	Complete same user's name have same time online problem  Jerying committed 5 days ago	add file  raymondrraccoon 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..."  Jerying committed 5 days ago	Fix some bugs  Jerying committed 3 days ago
system information for client into room  Jerying committed May 19, 2018	The message right have some problem  Jerying committed Jun 1, 2018	Merge branch 'master' of https://github.com/c794613852/VZU-OPS-Chat_Room  Jerying 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..."  Jerying 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  Jerying committed 6 days ago	
Initial commit  YEN-CHENG LIU committed May 19, 2018		Complete online people number , but it has some bugs  Jerying committed 6 days ago	
		finalproject file  raymondrraccoon committed 6 days ago	
		Delete finalproject  raymondrraccoon committed 7 days ago	
		Create finalproject  raymondrraccoon committed 7 days ago	
		Complete register function  Jerying committed 7 days ago	
		login and change password according to database  YEN-CHENG LIU committed 7 days ago	
		client.py can use InitDB's class method  YEN-CHENG LIU committed Jun 14, 2018	
		complete mongodb function  Jerying committed Jun 14, 2018	
		Complete server ui show and not error  Jerying committed Jun 13, 2018	