

第 15 組

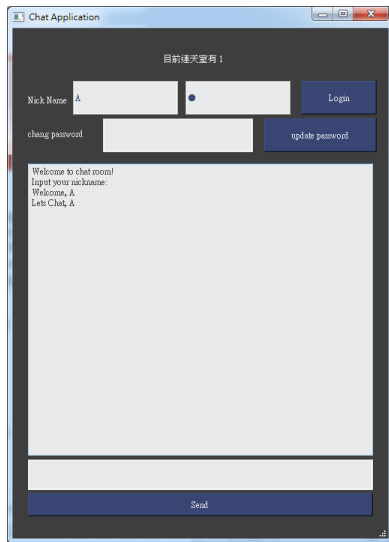
chatroom robot assistant

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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。

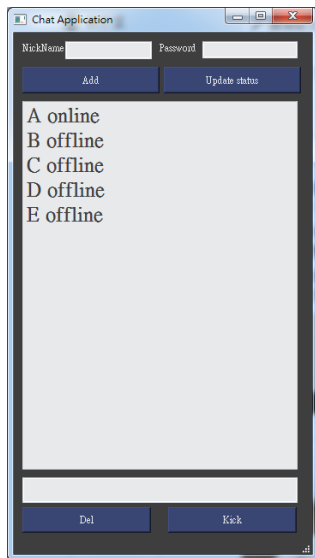
Client 端介面



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、匯率

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' }

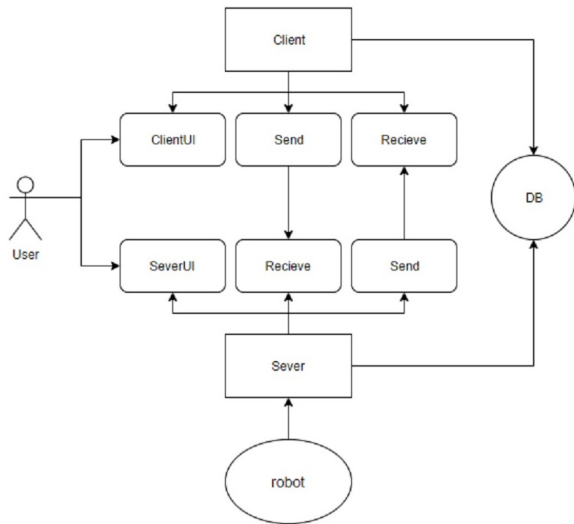
OPTIONS FIND

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

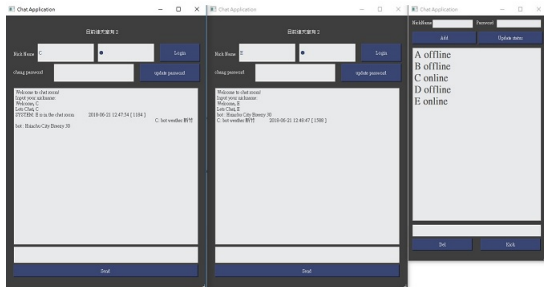


實作方法

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 api 找到答案，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 Jerying committed 4 days ago | bot testing ddbb123 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 raymondracon 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 | severui raymondracon committed Jun 1, 2018 | Complete same user's name have same time online problem Jerying 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... 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 | 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 Jerying 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 Jerying 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 Jerying 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 Jerying committed Jun 14, 2018 | bot in server and weather added ddbb123 committed 3 days ago |
| | | Complete server ui show and not error Jerying committed Jun 13, 2018 | Bot online but some problem ddbb123 committed 3 days ago |
| | | | back before Bot add |