

# 第 15 組

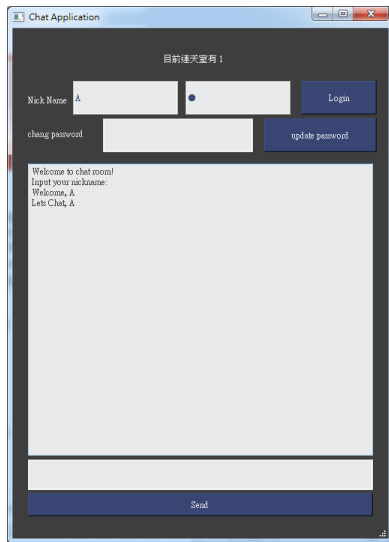
## chatroom robot assistant

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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。

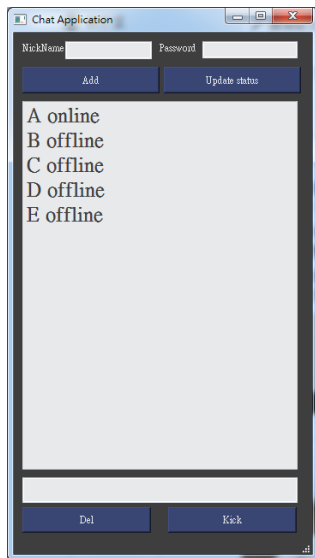
# Client 端介面



# 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' }

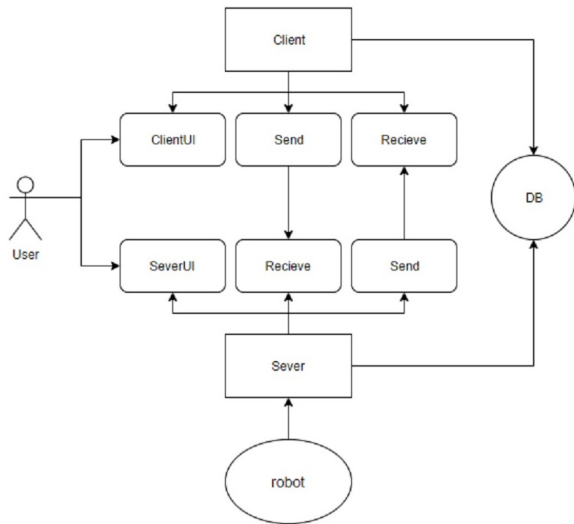
OPTIONS FIND

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 }
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{ "_id": ObjectId("502b1a0293a297377cd75f18"), "uname": "E", "upwd": "E", "online": false }
```

# 系統結構圖



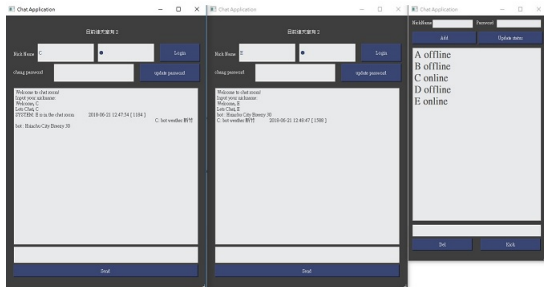


# 實作方法

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

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