go-chat

启动tcp客户端(命令行): go run go-chat

启动tcp服务端: go run go-chat tcp 启动ws服务端: go run go-chat ws

启动web客户端 index.html web文件夹里是ws的用户界面

服务器端

```
🚾 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>N</u>avigate <u>C</u>ode <u>R</u>efactor R<u>u</u>n <u>T</u>ools Git <u>W</u>indow <u>H</u>elp — go-chat - ws.go
go-chat 🕽 🥞 ws.go
tag README.md × de main.js × ws.go × de client.go
            import (
            func WSServer() {
                go cm.Start()
Structure
                                                                                                                                 $ -
```

核心代码

```
package main

import (
    "fmt"
    "log"
```

```
"net/http"
    "github.com/makoto126/go-chat/core"
    "golang.org/x/net/websocket"
)
func WSServer() {
    fmt.Println("Starting ws server...")
    cm := core.NewClientManager()
    go cm.Start()
    var chat websocket.Handler
    chat = func(ws *websocket.Conn) {
        client := core.NewClient()
        client.Login(ws, cm)
        cm.Serve(client)
    }
    http.Handle("/ws", chat)
    err := http.ListenAndServe(":12345", nil)
    if err != nil {
        log.Panic(err)
    }
}
```

客户端

```
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go-chat > core > 🖁 client.go
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       🥛 client.go
                                  ⊝import (
        🥤 clie
                                 conn net.Conn
      ₩ ws
  > 🌇 Scratches and Consoles
                                        buff := make([]byte, 32)
                                      c.name = strings.TrimSpace(string(buff[:n]))
                                       cm.register <- c
                                                                                                            ☆ -
  1 Event Log
                                                                                 3:8 CRLF UTF-8 Tab 🕻 master 🦫 🤐
```

核心代码

```
package core

import (
    "encoding/json"
    "log"
    "net"
    "strings"
)

type Client struct {
    conn net.Conn
    name string
    cm  *ClientManager
    ready chan struct{}
}

func NewClient() *Client {
    return &Client{
```

```
ready: make(chan struct{}),
   }
}
func (c *Client) Login(conn net.Conn, cm *ClientManager) {
   buff := make([]byte, 32)
    n, err := conn.Read(buff)
    if err != nil {
        log.Panic(err)
   c.name = strings.TrimSpace(string(buff[:n]))
    c.conn = conn
   C.Cm = Cm
   cm.register <- c
}
func (c *Client) Logout() {
   c.cm.unregister <- c</pre>
   c.conn.Close()
}
func (c *Client) NewMessage(s string) *Message {
   return &Message{
        From: c.name,
        Text: s,
   }
}
func (c *Client) loginMessage() *Message {
   return c.NewMessage("joined!\n")
}
func (c *Client) logoutMessage() *Message {
   return c.NewMessage("leaved!\n")
}
type Message struct {
    From string `json:"from,omitempty"`
    Text string `json:"text,omitempty"`
}
func (m *Message) ToString() []byte {
    return []byte(m.From + ": " + m.Text)
}
func (m *Message) ToJson() []byte {
    b, err := json.Marshal(m)
   if err != nil {
       log.Println(err)
   }
   return b
}
```

```
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go-chat \rangle web \rangle \frac{\min}{m} index.html
  □ P.▼ 😲 💆 ¼ main.js × 📳 ws.go × 📳 client.go × 📳 clientmanager.go × 🚜 index.html × 👪 bootstrap.min.css
                                                                                                   🧃 main.go
   go-chat D:\( 1
                        <!DOCTYPE html>
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✓ Image core

                        <html>
         🦉 client.ç
                                                                                       9 🔰 🕢 0 😥 😷
         8
    > README.: 4
                        -d<head>
                             <meta charset="utf-8">
                             <meta name="viewport" content="width=device-width, initial-scale=1">
                             <link rel="stylesheet" href="bootstrap.min.css">
      go.sun 9
go-chat 10
main.go 11
                       <div id="app">
                                  <div class="container-fluid" v-for="message in messages">
  > 🍖 Scratches an 👍
                                             <strong>{{ message.from }}: </strong>{{ message.text }}
                                  </div>
                                  <div class="container-fluid my-5"></div>
                                  <div class="container-fluid">
                                       <div class="input-group mb-1 px-2 fixed-bottom">
                                             <input id="input" type="text" class="form-control"</pre>
                                             <div class="input-group-append">
                                            </div>
                                       </div>
                                  </div>
                             <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
                                   intearity="sha384-a8i/X+965DzOOrT7abK41JStOIAaVaRVzobzo5smXKp4Yf

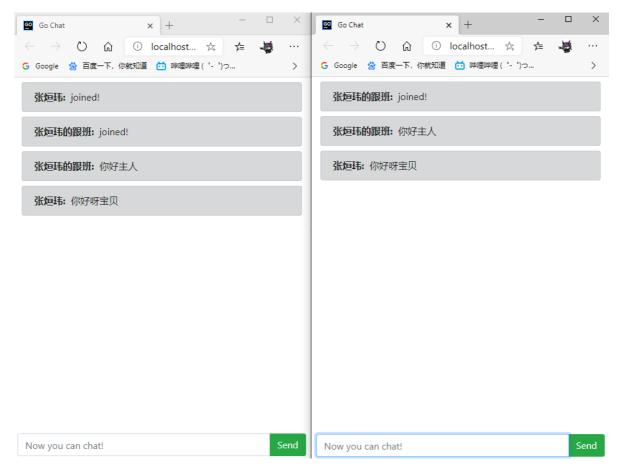
    --
  F Git ● Problems III TODO III Terminal
                                                                                                         1 Event Log
                                                                            13:19 CRIE UTF-8 4 spaces
```

核心代码

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <title>Go Chat</title>
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link rel="stylesheet" href="bootstrap.min.css">
</head>
<body>
    <div id="app">
        <div class="container-fluid" v-for="message in messages">
            <div class="alert alert-dark my-2" role="alert">
                <strong>{{ message.from }}:&nbsp;&nbsp;</strong>{{ message.text
}}
            </div>
```

```
</div>
        <div class="container-fluid my-5"></div>
        <div class="container-fluid">
            <div class="input-group mb-1 px-2 fixed-bottom">
                <input id="input" type="text" class="form-control" v-</pre>
bind:placeholder="placeholder" v-model="text">
                <div class="input-group-append">
                    <button id="button" class="btn btn-success" type="button" v-</pre>
on:click="send">Send</button>
                </div>
            </div>
        </div>
    </div>
    <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js"</pre>
        integrity="sha384-
q8i/X+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo"
        crossorigin="anonymous"></script>
    <script
src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js"
        integrity="sha384-
UO2eTOCpHqdSJQ6hJty5KVphtPhzwj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1"
        crossorigin="anonymous"></script>
    <script
src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js"
        integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM"
        crossorigin="anonymous"></script>
    <script src="https://cdn.jsdelivr.net/npm/vue/dist/vue.js"></script>
    <script src="main.js"></script>
</body>
</html>
```

演示界面



使用Go语言开发

实现了多用户同时在WEB端在线聊天