```
link null
title: 珠峰架构师成长计划
description: config\plugin.js
keywords: null
author: null
date: null
publisher: 珠峰架构师成长计划
stats: paragraph=69 sentences=237, words=1196
```

1. 初始化项目

```
egg-init zfchat-api --type=simple
```

2. 支持socket.io

- namespace: 通过配置的方式定义namespace(命名空间)
 middleware: 对每一次socket连接/断开、每一次消息/数据传递进行预处理
 controller: 响应socket.io的event事件
- ullet router: 统一了socket.io的event与框架路由的处理配置方式

config\plugin.js

```
exports.io = {
   enable:true,
    package: 'egg-socket.io'
```

app\router.is

```
odule.exports = app => {
const { router, controller, io } = app;
router.get('/', controller.home.index);
io.route('addMessage', io.controller.room.addMessage);
io.route('getAllMessages', io.controller.room.getAllMessages);
router.post('/login', controller.user.login);
router.post('/validate', controller.user.validate);
router.post('/createRoom', controller.rooms.createRoom);
router.get('/getAllRooms', controller.rooms.getAllRooms);
```

app\io\controller\room.js

```
const { Controller } = require('egg');
class RoomController extends Controller {
    async addMessage() {
   let { ctx, app } = this;
         let message = ctx.args[0];
let doc = await ctx.model.Message.create(message);
         doc = await ctx.model.Message.findById(doc._id).populate('user');
         app.io.emit('messageAdded', doc.toJSON());
    async getAllMessages() {
   let { ctx, app } = this;
   let room = ctx.args[0];
         let messages = await ctx.model.Message.find({ room }).populate('user').sort({ createAt: -1 }).limit(20);
         ctx.socket.emit('allMessages', messages.reverse());
module.exports = RoomController;
```

```
config.io =
 namespace: {
     connectionMiddleware: ["connect"],
     packetMiddleware:[]
```

- namespace: 通过配置的方式定义namespace(命名空间)
 middleware: 对每一次socket连接/断开、每一次消息/数据传递进行预处理
- controller: 响应socket.io的event事件
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```
const SYSTEM =
   name: '系统',
    email: 'admin@126.com'.
   avatar: 'http://www.gravatar.com/avatar/le6fd8e56879c84999cd481255530592'
   dule.exports = app => {
   return async function (ctx, next) {
   const { app, socket, query: { token, room } } = ctx;
   if (token && token != '') {
            const user = app.jwt.verify(token, app.config.jwt.secret);
            if (user) {
                 const id = socket.id;
                 const nsp = app.io;
await ctx.model.User.findByIdAndUpdate(user._id, { $set: { online: true, room } });
                 socket.join(room);
                 socket.broadcast.to(room).emit('online', {
                     user: SYSTEM,
                    content: `用户${user.name}加入聊天室`
                 await ctx.model.User.findByIdAndUpdate(user._id, { $set: { online: false, room: null } });
                 socket.leave(room);
                 socket.broadcast.to(room).emit('offline', {
                     content: `用户${user.name}离开聊天室
            } else {
                socket.emit('needLogin');
       else {
            socket.emit('needLogin');
```

框架是以 Cluster 方式启动的,而 socket.io 协议实现需要 sticky 特性支持,否则在多进程模式下无法正常工作。 修改 package.json 中 npm scripts 脚本:

```
{
  "scripts": {
    "dev": "egg-bin dev --sticky",
    "start": "egg-scripts start --sticky"
}
}
```

server\server.js

```
var express = require('express');
var app = express();
var path = require('path');
var server = require('http').createServer(app);
app.use(express.static(path.join(_dirname, 'public')));
var io = require('socket.io')(server);
var port = process.env.PORT || 3000;
server.listen(port, () => {
    console.log('Server listening at port %d', port);
});
```

server\public\index.html

```
<html lang="en">
<head>
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
<meta http-equiv="X-UA-Compatible" content="ie=edge">
   <title>Documenttitle>
<body>
   </pre
   <script src="/socket.io/socket.io.js">script>
   <script>
       let cornet - 10\{1655\mu_1/(1664166617001/^2)\} cornet on('cornect', function () [
           oonsole.log(*范表系含*)。
           nomes.emis(*gesALDMonnagen*);
       contest on ('message/eddest', function (message) (
           nonesde.log(seconge);
        coomet.cog!allMeccageo!, Eurotaon (seco
           noneade. Ing (secongen) y
       comes.ongianlinet, function men
           nonsole. In q (seconde) \, s
        course.on('offline', function (mechage) |
           noneale. Inggeroonge) s
       function send() (
            commercial ('addressage', | content; 'SST' | |)
```

3.支持mongoose

cnpm i egg-mongoose --save

```
exports.mongoose = {
  enable: true,
  package: 'egg-mongoose'
}
```

config\config.default.js

```
exports.mongoose = {
    client: {
        url: 'mongodb://127.0.0.1/zfchat',
        options: {},
    },
};
```

```
module.exports = app => {
    const mongoose = app.mongoose;
    const Schema = mongoose.Schema;
    const ObjectId = Schema.Types.ObjectId;
    const MessageSchema = new Schema({
        content: String,
        user: {
            type: ObjectId,
            ref: 'User'
        },
        room: {
            type: ObjectId,
            ref: 'Room'
        },
        createAt: { type: Date, default: Date.now }
    });
    return mongoose.model('Message', MessageSchema);
}
```

4. egg-jwt

```
cnpm i egg-jwt -S
```

```
exports.jwt = {
    enable:true,
    package:'egg-jwt'
}
```

```
config.jwt = {
    secret: 'zfpx'
}
config.security = {
    csrf: false
}
```

5. egg-cors

```
cnpm i egg-cors -S
```

```
exports.cors={
   enable: true,
   package:'egg-cors'
}
```

```
config.security={
   domainWhiteList:['http://localhost:3000'],
        csrf:false
   }
}
```

6. 实现用户登录

```
module.exports = app => {
    let mongoose = app.mongoose;
    let Schema = mongoose.Schema;
    let ObjectId = Schema.Types.ObjectId;
    let UserSchema = new Schema({
        name: String,
        email: String,
        avatar: String,
        online: ( type: Boolean, default: false },
        room: {
            type: ObjectId,
            ref: 'Room'
        },
        createAt: { type: Date, default: Date.now }
    });
    return mongoose.model('User', UserSchema);
}
```

app\router.js

```
router.post('/login', controller.user.login);
router.post('/validate', controller.user.validate);
```

app\controller\base.js

cnpm i gravatar -S

\app\controller\user.js

```
let BaseController = require('./base');
let gravatar = require('gravatar')
class UserController extends BaseController {
    async login() {
         const { app, ctx } = this;
         let user = ctx.request.body;
         let doc = await ctx.model.User.findOne({ email: user.email });
         if (!doc) {
             user.name = user.email.split('@')[0];
              user.avatar = gravatar.url(user.email);
doc = await ctx.model.User.create(user);
         let token = app.jwt.sign(doc.toJSON(), app.config.jwt.secret);
         this.success(token);
    async validate() {
         const { app, ctx } = this;
let { token } = ctx.request.body;
         try {
   let user = app.jwt.verify(token, app.config.jwt.secret);
              this.success(user);
         } catch (error) {
    this.error('用户验证失败');
module.exports = UserController;
```

["code":0, "data": "eyJhbGci0iJUzINiIsInr5cCI6IkpXvCJ9.eyJbWFpbCI6IjFAMS5jb20iLCJpYXQI0jEIMjcyNTY0NzF9.2tVGRzHLh75oDKbdc7WHciM80JeW3y2Pqu9WKdjeGGU"}

7.实现房间管理功能

router.post('/addRoom', controller.rooms.addRoom);
router.post('/getAllRooms', controller.rooms.getAllRooms);

app\controller\rooms.js

```
let BaseController = require('./base');
class RoomsController extends BaseController
    async createRoom() {
        const { ctx, app } = this;
let room = ctx.request.body;
        let doc = await ctx.model.Room.findOne({ name: room.name });
            this.error('房间已经存在!');
            doc = await ctx.model.Room.create(room);
            this.success(doc.toJSON());
    async getAllRooms() {
  const { ctx, app } = this;
        let rooms = await ctx.model.Room.find();
        rooms = rooms.map(room => room.toJSON());
        for (let i = 0; i < rooms.length; i++) {</pre>
            let users = await ctx.model.User.find({ room: rooms[i]._id });
            rooms[i].users = users.map(user => user.toJSON())
        this.success(rooms);
module.exports = RoomsController;
```