```
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```

1.初始化项目

egg-init --type simple chat-api

2. 实现后端的登录接口

```
module.exports = app => {
   const mongoose = app.mongoose;
   const Schema = mongoose.Schema;

   const UserSchema = new Schema({
     email: { type: String }
});

   return mongoose.model('User', UserSchema);
}
```

app/controller/user.js

```
const Controller = require('./base');
class UserController extends Controller {
    async login() {
        const {ctx,app}=this;
        let body = ctx.request.body;
        let oldUser = await ctx.model.User.findOne({email: body.email});
        if (oldUser) {
            ctx.session.user=oldUser;
            this.success(oldUser);
        } else {
            let newUser=new ctx.model.User(body);
            await newUser.save();
            ctx.session.user=newUser;
            this.success(newUser);
        }
    }
}
module.exports = UserController;
```

app/controller/base.js

3. 房间功能

```
module.exports = app => {
  const { router, controller } = app;
  router.post('/login',controller.user.login);
  router.get('/rooms',controller.rooms.list);
  router.post('/rooms',controller.rooms.create);
};
```

config/config.default.js

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

config.security={
    csrf: false,
    domainWhiteList:['http://127.0.0.1:8000']
}
```

config/plugin.js

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

app/controller/rooms.js

```
const Controller = require('./base');
class RoomController extends Controller {
 async list() {
     const {ctx,app}=this;
     let {kevword=''}=ctx.guery;
     let query={};
     if (keyword) {
        query['name']=new RegExp(keyword);
     let list = await app.model.Room.find(query);
     this.success(list);
 async create() {
     const {ctx,app}=this;
     let body=ctx.request.body;
     let oldRoom = await app.model.Room.findOne({name: body.name});
     if (oldRoom) {
         this.error('房间名已经存在');
     else (
         let newRoom=new app.model.Room(body);
         await newRoom.save();
         this.success(newRoom);
module.exports = RoomController;
```

app/model/room.is

```
module.exports = app => {
    const mongoose = app.mongoose;
    const Schema = mongoose.Schema;

    const RoomSchema = new Schema({
        name: { type: String }
    });

    return mongoose.model('Room', RoomSchema);
}
```

4.聊天功能

```
const Controller = require('./base');
const gravatar=require('gravatar');
class UserController extends Controller {
    async login() {
        const {ctx,app}=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=new ctx.model.User(user);
            await doc.save();
        }
        let token = app.jwt.sign(doc.toJSON(),app.config.jwt.secret);
        this.success(token);
    }
}
module.exports = UserController;
```

app/model/room.js

app/model/user.is

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

app/router.js

```
module.exports = app => {
    const { router, controller,io } = app;
    router.post('/login',controller.user.login);
    router.post('/rooms',controller.rooms.list);
    router.post('/rooms',controller.rooms.create);
    io.route('getRoom',io.controller.messages.getRoom);
    io.route('addMessage',io.controller.messages.addMessage);
};
```

config/config.default.js

```
const config = exports = {};
config.keys = appInfo.name + '_1533636529759_8753';
config.middleware=[];
config.mongoose = {
   url: 'mongodb://127.0.0.1/chat',
    options: {},
  },
config.security={
  csrf: false.
  domainWhiteList:['http://127.0.0.1:8000']
  init: { wsEngine: 'ws' },
  namespace: {
    1/1: {
      connectionMiddleware: ['connect'],
     packetMiddleware: [],
  redis: {
  host: '127.0.0.1',
    port: 6379
  },
config.jwt = {
  secret: 'zfpx'
return config;
```

config/plugin.js

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

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

package.json

```
"scripts": {
    "start": "egg-scripts start --daemon --title=egg-server-chat-api --sticky",
    "stop": "egg-scripts stop --title=egg-server-chat-api",
    "dev": "egg-bin dev --sticky",
    "debug": "egg-bin debug",
    "test": "npm run lint -- --fix && npm run test-local",
    "test-local": "egg-bin test",
    "cov": "egg-bin cov",
    "lint": "eslint .",
    "ci": "npm run lint && npm run cov",
    "autod": "autod"
```

app/io/controller/messages.js

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

app/io/middleware/connect.js

```
st SYSTEM — :
name: '系统',
email: 'admin@126.com',
avatar: 'http://www.gravatar.com/avatar/le6fd8e56879c84999cd481255530592'
odule.exports = app => {
   return async (ctx, next) => {
      const {app,socket,query: {room,token}}=ctx;
      if (token) {
           let decodeUser=app.jwt.verify(token,app.config.jwt.secret);
           if (decodeUser) {
               let oldUser=await app.model.User.findById(decodeUser._id);
let oldSocket=oldUser.socket;
                if (oldSocket) {
   app.io.of('/').adapter.remoteDisconnect(oldSocket, true, err => {
                   app.logger.error(err);
});
               oldUser.room=room;
               oldUser.online=true;
               oldUser.socket=socket.id;
               await oldUser.save();
               socket.join(room);
               socket.broadcast.to(room).emit('online',oldUser.toJSON());
               socket.broadcast.to(room).emit('messageAdded',{
                   user: SYSTEM,
                   content:`用户${oldUser.name}加入聊天室`
               socket.leave(room);
               socket.broadcast.to(room).emit('offline',oldUser._id);
               socket.broadcast.to(room).emit('messageAdded',{
                   content: `用户${oldUser.name}离开了聊天室
               oldUser.room=null;
               oldUser.online=null;
               oldUser.socket=null:
               await oldUser.save();
           else (
               socket.emit('needLogin','你需要先登录');
           socket.emit('needLogin','你需要先登录');
 };
```

app/model/message.js

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

server/app.js

server/public/index.html

```
Document

发送

let socket = io('http://localhost:7001/', {query:{room:'default'}});
socket.on('connect', function () {
    console.log('连核成功');
    socket.emit('getAllMessages');
});
socket.on('messageAdded', function (message) {
    console.log(message);
});
socket.on('allMessages', function (messages) {
    console.log(messages);
});
socket.on('message', function (message) {
    console.log(message);
});
socket.on('needLogin', function (message) {
    console.log(message);
});
function send() {
    socket.emit('addMessage', { content: '你好' });
}
```