

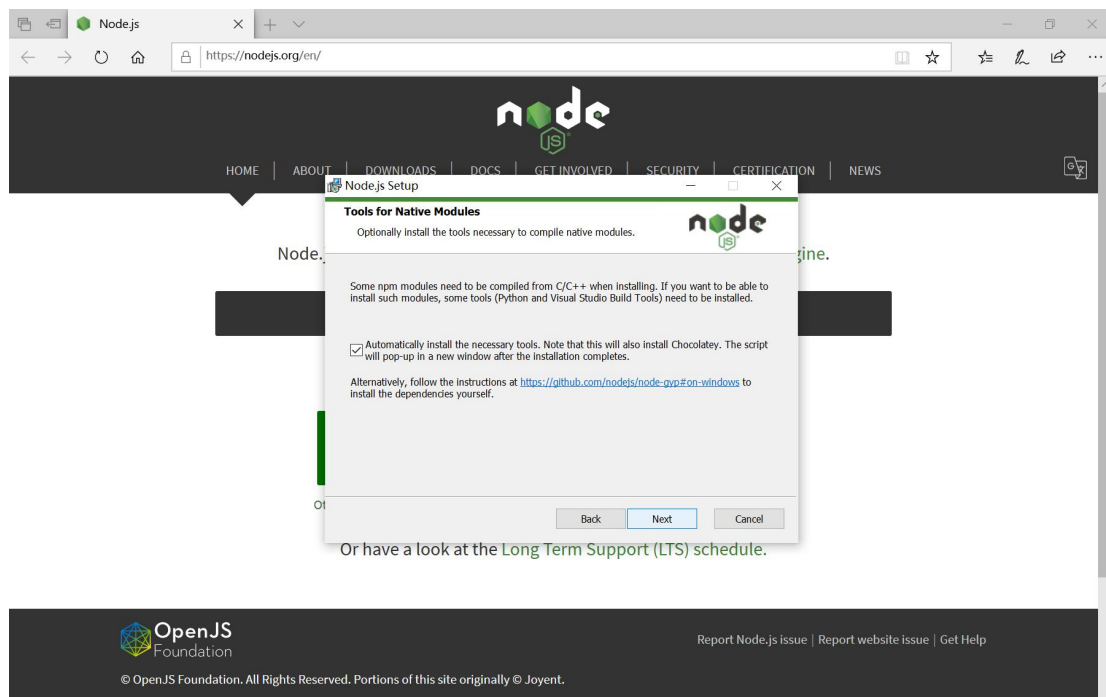
WEB-GIS

1. 运行环境

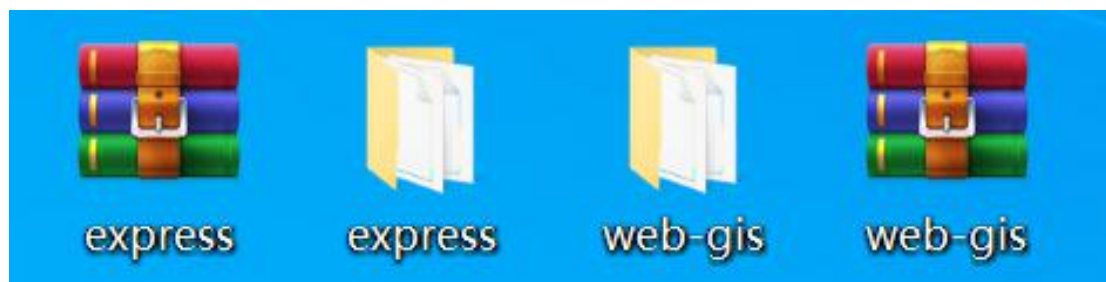
Node.js

环境及下载地址

<https://nodejs.org/en/download/>



2. 下载压缩包



2.1 Express

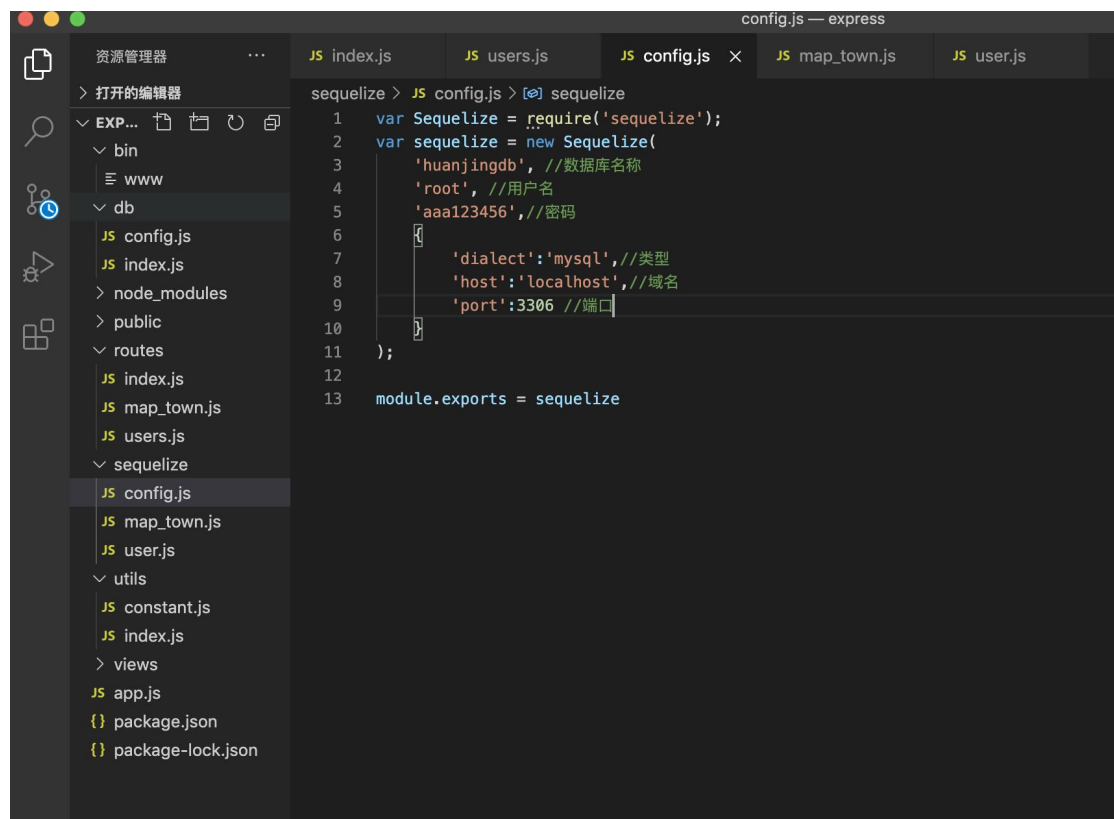
2.1.1 安装依赖

切换到 **expree** 路径，通过 **npm** 安装依赖，执行俩个语句：

- **npm install**
- **npm install nodemon**

2.1.2 配置数据库链接

在 **sequelize/config.js** 中配置数据库链接信息



The screenshot shows a code editor with a file explorer on the left and a code editor on the right. The file explorer shows a project structure with folders like 'bin', 'db', 'node_modules', 'public', 'routes', 'sequelize', and 'utils'. The 'sequelize' folder is expanded, showing 'config.js' selected. The code editor shows the content of 'config.js' with the following code:

```
sequelize > JS config.js > [e] sequelize
1  var Sequelize = require('sequelize');
2  var sequelize = new Sequelize(
3    'huanjingdb', //数据库名称
4    'root', //用户名
5    'aaa123456', //密码
6    {
7      'dialect': 'mysql', //类型
8      'host': 'localhost', //域名
9      'port': 3306 //端口
10   };
11 );
12
13 module.exports = sequelize
```

2.1.3 数据库配置

注意：名称和字段要按照这个来写

用户表

(MySQL 8.0.21) web-gis/huanjingdb/user

Select Database: huanjingdb

Structure Content Relations Triggers Table Info Query Table History Users Console

TABLES

- map_town
- user**

Field | **Type** | **Length** | **Unsigned** | **Zerofill** | **Binary** | **Allow Null** | **Key** | **Default** | **Extra** | **Encoding** | **Collation** | **Com...**

id	INT		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PRI		auto_in...			
username	VARCHAR	20	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UNI		None	UTF-8	utf8mb4_	
password	VARCHAR	128	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None	UTF-8	utf8mb4_	
authority	INT		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			None			

TABLE INFORMATION

- created: 22/7/20
- updated: 24/7/20
- engine: InnoDB
- rows: 10
- size: 16.0 KiB
- encoding: utf8mb4
- auto_increment: 5

INDEXES

Non_unique	Key_name	Seq_in_index	Column_name	Collation	Cardinality	Sub_part	Packed	Comment
0	PRIMARY	1	id	A	8	NULL	NULL	
0		1	username	A	8	NULL	NULL	

(MySQL 8.0.21) web-gis/huanjingdb/user

Select Database: huanjingdb

Structure Content Relations Triggers Table Info Query Table History Users Console

TABLES

- map_town
- user**

Search: id = Filter

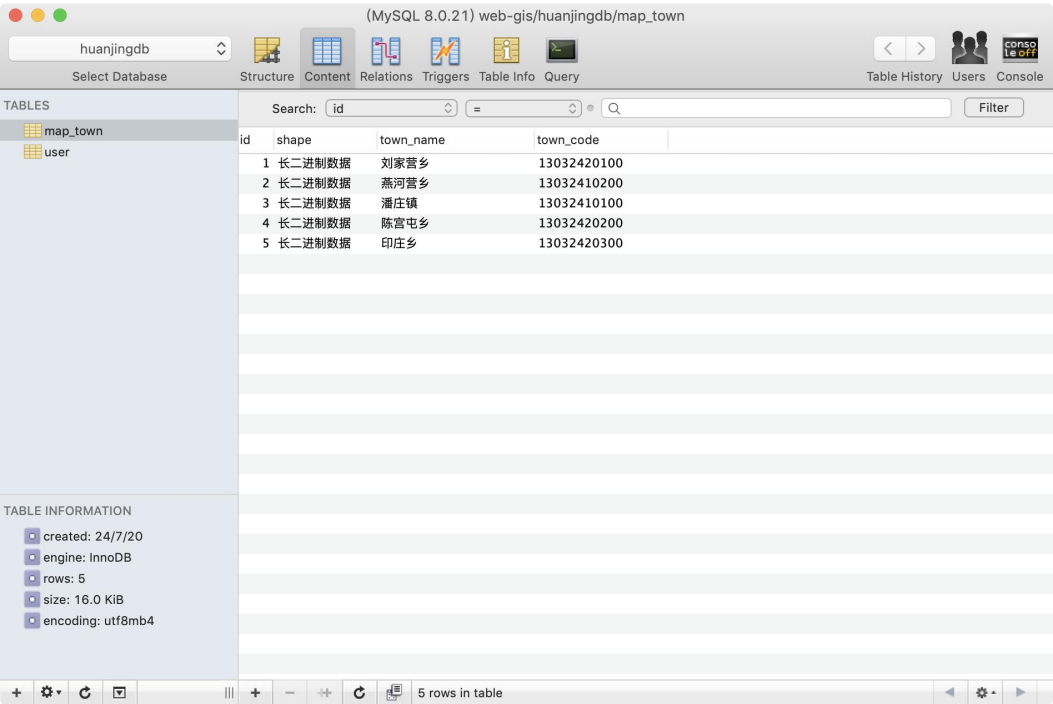
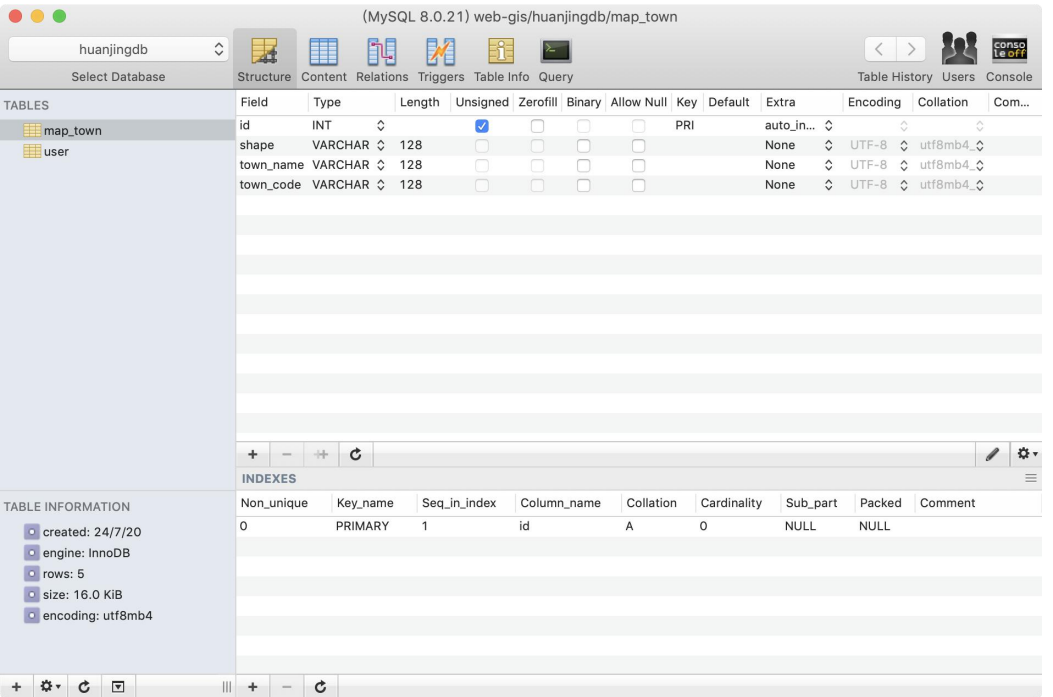
id	username	password	authority
1	admin	8963d6db781dd8c5b73b15c1b3fe0389	1
2	liguojie	8963d6db781dd8c5b73b15c1b3fe0389	1
3	zhoujiankai	8963d6db781dd8c5b73b15c1b3fe0389	1
5	zhangweikang	699bf42dece62ee0b99c6bcbe48acb7f	2

TABLE INFORMATION

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4 rows in table

首页乡镇表



2.1.4 运行服务器，开启服务

npm run start

2.2 Vue

2.2.1 切换到 **web-gis** 的目录，安装依赖

```
npm install vue  
npm install vue-cli -g  
npm install
```

2.2.2 运行服务器

```
npm run serve
```

3. 代码说明

Node.js

数据库的链接使用了 **orm** 模型，具体参考文档：

<https://sequelize.org/master/manual/model-querying-basics.html#simple-insert-queries>

JS index.js

JS users.js

JS config.js

JS map_town.js

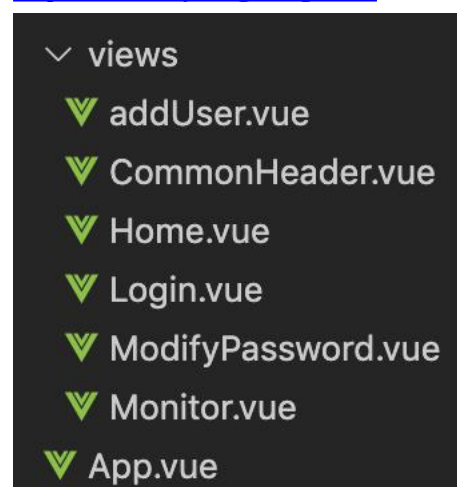
```
sequelize > JS map_town.js > [e] map_town > ↻ id > ↻ primaryKey
1  const sequelize = require('./config');
2  const { Sequelize, DataTypes } = require('sequelize');
3  //定义模型
4  var map_town = sequelize.define('map_town',{
5      id:{
6          field:'id',
7          type: Sequelize.INTEGER,
8          primaryKey:true,
9          autoIncrement:true,
10         allowNull:false,
11     },
12     shape:{
13         field:'shape',
14         type: Sequelize.STRING,
15         allowNull:false
16     },
17     town_name:{
18         field:'town_name',
19         type: Sequelize.STRING,
20         allowNull:false
21     },
22     town_code:{
23         field:'town_code',
24         type: Sequelize.STRING,
25         allowNull:false
26     }
27 },
28 {
29     tableName: 'map_town',
30     timestamps: false,
31     freezeTableName: true
32 }
33 );
34
35
36 module.exports = map_town;
```

```
JS index.js JS users.js JS map_town.js routes X JS config.js
routes > JS map_town.js > ...
22 // }
23 // })
24
25 //查询素有用户信息接口
26 router.get('/all_map_town_info', async(req, res, next)=>{
27   try{
28     await mapTown.findAll().then(function(towns){
29       res.send({code:0,msg:'成功',data:towns})
30     })
31   }
32   catch{
33     console.log(e)
34     next(e)
35   }
36 })
37
38 module.exports = router;
```

前端 vue

vue 官方文档链接:

<https://cn.vuejs.org/v2/guide/>



在目录结构的 **views** 中

- **addUser** 添加账户解密哪
- **CommonHeader** 头部导航
- **Home** 总体概况（目前显示镇的信息）
- **Login** 登录界面
- **ModifyPassword** 修改密码（目前还没写）
- **Monitor** 在线监测（目前还没写）

```
1 <template>
2   <div class="body">
3     <common-header>
4   </common-header>
5     在线监测
6   </div>
7 </template>
8 <script>
9   import CommonHeader from '@views/CommonHeader.vue'
10  export default {
11    data() {
12      return {
13      };
14    },
15    // 注册组件
16    components: {
17      CommonHeader
18    },
19    created() {
20    },
21    beforeUpdate() {
22    },
23  },
24  methods: {
25  }
26 };
27 </script>
28 <style scoped>
29 .body {
30   width: 100%;
31   height: 100vh;
32   box-sizing: border-box;
33   /* background:#398144; */
34 }
```

vue 分为三个部分:

- ① **Template** 写对应的 **html** 布局
- ② **Script** 写对应的 **js** 功能、数据绑定等
- ③ **Style** 写对应的 **css** 样式