

vuejs简单入门

1. VueJS 概述与快速入门

1.1 VueJS介绍

Vue.js是一个构建数据驱动的 web 界面的渐进式框架。Vue.js 的目标是通过尽可能简单的 API 实现响应的数据绑定和组合的视图组件。它不仅易于上手，还便于与第三方库或既有项目整合。

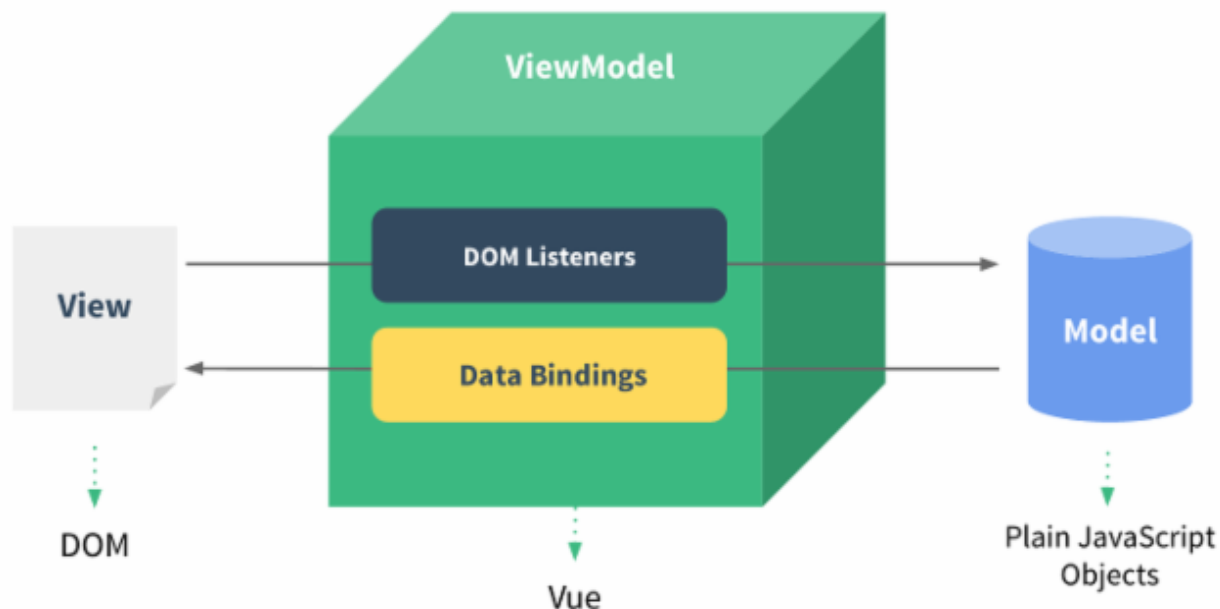
官网:<https://cn.vuejs.org/>

1.2 MVVM模式

MVVM是Model-View-ViewModel的简写。它本质上就是MVC 的改进版。MVVM 就是将其中的View 的状态和行为抽象化，让我们将视图 UI 和业务逻辑分开

MVVM模式和MVC模式一样，主要目的是分离视图（View）和模型（Model）

Vue.js 是一个提供了 MVVM 风格的双向数据绑定的 Javascript 库，专注于View 层。它的核心是 MVVM 中的 VM，也就是 ViewModel。ViewModel负责连接 View 和 Model，保证视图和数据的一致性，这种轻量级的架构让前端开发更加高效、便捷



1.3 VueJS 快速入门

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />

    <title>快速入门</title>
```



```
<script src="js/vuejs-2.5.16.js"></script>
</head>
<body>
  <div id="app">
    {{message}}
  </div>
  <script>
    new Vue({
      el: '#app', //表示当前vue对象接管了div区域
      data:{
        message: 'hello world' //注意不要写分号结尾
      }
    });
  </script>
</body>
</html>
```

1.4 插值表达式

数据绑定最常见的形式就是使用“Mustache”语法 (双大括号) 的文本插值，Mustache 标签将会被替代为对应数据对象上属性的值。无论何时，绑定的数据对象上属性发生了改变，插值处的内容都会更新。

Vue.js 都提供了完全的 JavaScript 表达式支持。

```
{{ number + 1 }}

{{ ok ? 'YES' : 'NO' }}
```

这些表达式会在所属 Vue 实例的数据作用域下作为 JavaScript 被解析。有个限制就是，每个绑定都只能包含**单个表达式**，所以下面的例子都不会生效。

```
<!-- 这是语句，不是表达式 -->
{{ var a = 1 }}
<!-- 流控制也不会生效，请使用三元表达式 -->
{{ if (ok) { return message } }}
```

2.VueJS 常用系统指令

2.1 v-on

可以用 `v-on` 指令监听 DOM 事件，并在触发时运行一些 JavaScript 代码

2.1.1 v-on:click

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />

    <title>事件处理 v-on示例1</title>
```



```
<script src="js/vuejs-2.5.16.js"></script>
</head>
<body>
  <div id="app">
    {{message}}
    <button v-on:click="fun1('good')">点击改变</button>
  </div>
  <script>
    new Vue({
      el: '#app', //表示当前vue对象接管了div区域
      data:{
        message: 'hello world' //注意不要写分号结尾
      },
      methods:{
        fun1:function(msg){
          this.message=msg;
        }
      }
    });
  </script>
</body>
</html>
```

2.1.2 v-on:keydown

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>事件处理 v-on示例2</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <input type="text" v-on:keydown="fun2('good', $event)">
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        methods:{
          fun2:function(msg, event){

            if(!
((event.keyCode>=48&&event.keyCode<=57) || event.keyCode==8 || event.keyCode==46)){
              event.preventDefault();
            }
          }
        }
      });
    </script>
  </body>
</html>
```



2.1.3 v-on:mouseover

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>事件处理 v-on示例3</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <div v-on:mouseover="fun1" id="div">
        <textarea v-on:mouseover="fun2($event)">这是一个文件域</textarea>
      </div>
    </div>

    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        methods:{
          fun1:function(){
            alert("div");
          },
          fun2:function(event){
            alert("textarea");
            event.stopPropagation();//阻止冒泡
          }
        }
      });
    </script>
  </body>
</html>
```

2.1.4 事件修饰符

Vue.js 为 v-on 提供了事件修饰符来处理 DOM 事件细节，如：event.preventDefault() 或 event.stopPropagation()。

Vue.js通过由点(.)表示的指令后缀来调用修饰符。

- .stop
- .prevent
- .capture
- .self
- .once

```
<!DOCTYPE html>
<html>
```



```
<head>
  <meta charset="utf-8" />
  <title>v-on 事件修饰符</title>
  <script src="js/vuejs-2.5.16.js"></script>
</head>
<body>
  <div id="app">
    <form @submit.prevent action="http://www.itcast.cn" method="get">
      <input type="submit" value="提交"/>
    </form>

    <div @click="fun1">
      <a @click.stop href="http://www.itcast.cn">itcast</a>
    </div>
  </div>

  <script>
    new Vue({
      el: '#app', //表示当前vue对象接管了div区域
      methods:{
        fun1:function(){
          alert("hello itcast");
        }
      }
    });
  </script>
</body>
</html>
```

2.1.5 按键修饰符

Vue 允许为 v-on 在监听键盘事件时添加按键修饰符

全部的按键别名：

- `.enter`
- `.tab`
- `.delete` (捕获 "删除" 和 "退格" 键)
- `.esc`
- `.space`
- `.up`
- `.down`
- `.left`
- `.right`
- `.ctrl`
- `.alt`
- `.shift`
- `.meta`

```
<!DOCTYPE html>
<html>
  <head>
```



```
<meta charset="utf-8" />
<title>v-on 按钮修饰符</title>
<script src="js/vuejs-2.5.16.js"></script>
</head>
<body>
  <div id="app">
    <input type="text" v-on:keyup.enter="fun1">
  </div>
  <script>
    new Vue({
      el: '#app', //表示当前vue对象接管了div区域
      methods:{
        fun1:function(){
          alert("你按了回车");
        }
      }
    });
  </script>
</body>
</html>
```

```
<p><!-- Alt + C -->
<input @keyup.alt.67="clear">
<!-- Ctrl + Click -->
<div @click.ctrl="doSomething">Do something</div>
```

v-on简写方式

```
<!-- 完整语法 -->
<a v-on:click="doSomething">...</a>
<!-- 缩写 -->
<a @click="doSomething">...</a>
```

2.2 v-text与v-html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-html与v-text</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <div v-text="message"></div>
      <div v-html="message"></div>
    </div>
    <script>
      new Vue({
```



```
    el: '#app', //表示当前vue对象接管了div区域
    data:{
        message: "<h1>传智黑马</h1>"
    }
  });
</script>
</body>
</html>
```

2.3 v-bind

插值语法不能作用在 HTML 特性上，遇到这种情况应该使用 v-bind指令

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-bind</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <font size="5" v-bind:color="ys1">传智播客</font>
      <font size="5" :color="ys2">黑马程序员</font>
      <hr>
      <a v-bind={href:"http://www.itcast.cn/index/"+id}>itcast</a>
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        data:{
          ys1:"red",
          ys2:"green",
          id:1
        }
      });
    </script>
  </body>
</html>
```

v-bind简写方式

```
<!-- 完整语法 -->
<a v-bind:href="url">...</a>
<!-- 缩写 -->
<a :href="url">...</a>
```

2.4 v-model



```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-model</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      姓名:<input type="text" id="username" v-model="user.username"><br>
      密码:<input type="password" id="password" v-model="user.password"><br>
      <input type="button" @click="fun" value="获取">
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        data:{
          user:{username:"",password:""}
        },
        methods:{
          fun:function(){
            alert(this.user.username+" "+this.user.password);
            this.user.username="tom";
            this.user.password="11111111";
          }
        }
      });
    </script>
  </body>
</html>
```

2.5 v-for

- 操作Array

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-model</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <ul>
        <li v-for="(item,index) in list">{{item+" "+index}}</li>
      </ul>
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
```




```
        data:{
            list:[1,2,3,4,5,6]
        }
    });
</script>
</body>
</html>
```

- 操作对象

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-for示例1</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <ul>
        <li v-for="(value,key) in product">{{key}}--{{value}}</li>
      </ul>
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        data:{
          product:{id:1,pname:"电视机",price:6000}
        }
      });
    </script>
  </body>
</html>
```

- 操作对象数组

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-for示例1</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <table border="1">
        <tr>
          <td>序号</td>
          <td>名称</td>
          <td>价格</td>
        </tr>
      </table>
    </div>
  </body>
</html>
```



```
<tr v-for="p in products">
  <td>
    {{p.id}}
  </td>
  <td>
    {{p.pname}}
  </td>
  <td>
    {{p.price}}
  </td>
</tr>
</table>
</div>
<script>
  new Vue({
    el: '#app', //表示当前vue对象接管了div区域
    data:{
      products:[{id:1,pname:"电视机",price:6000},{id:2,pname:"电冰箱",price:8000},
{id:3,pname:"电风扇",price:600}]
    }
  });
</script>
</body>
</html>
```

2.6 v-if与v-show

v-if是根据表达式的值来决定是否渲染元素

v-show是根据表达式的值来切换元素的display css属性

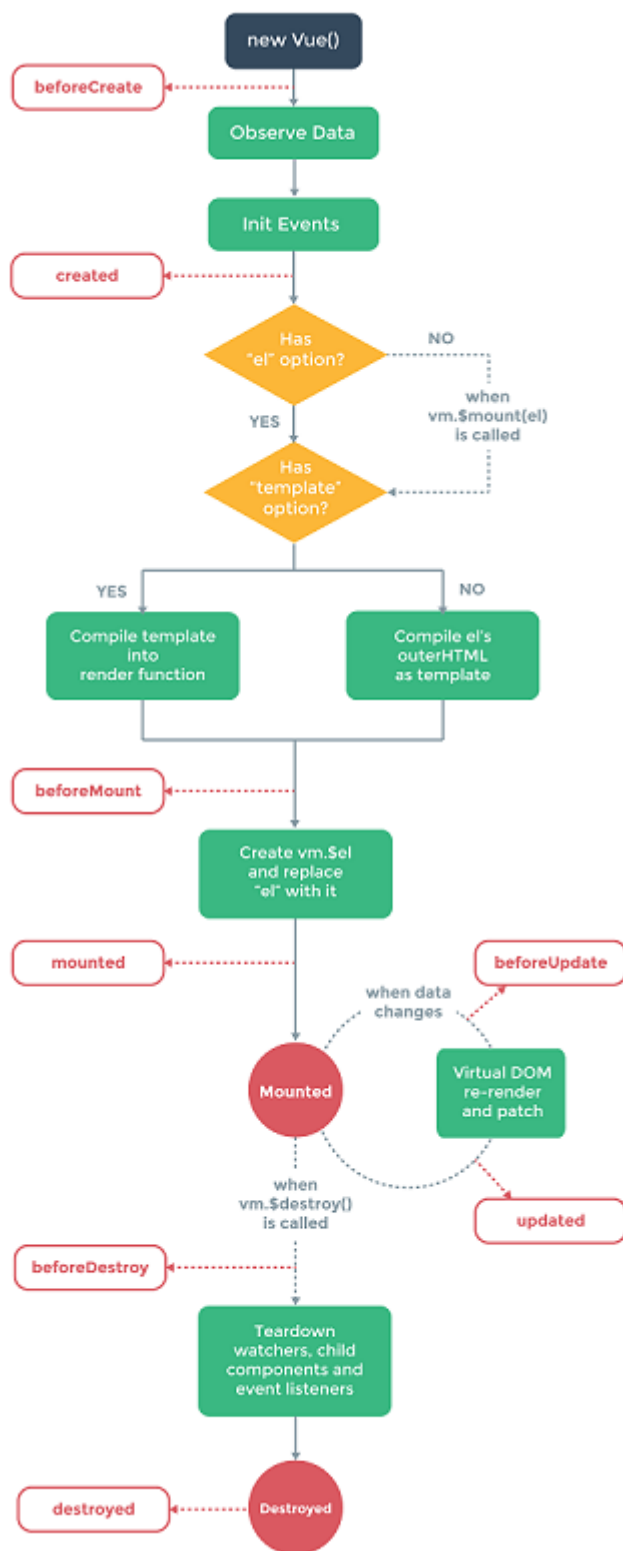
```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8" />
    <title>v-if与v-show</title>
    <script src="js/vuejs-2.5.16.js"></script>
  </head>
  <body>
    <div id="app">
      <span v-if="flag">传智播客</span>
      <span v-show="flag">itcast</span>
      <button @click="toggle">切换</button>
    </div>
    <script>
      new Vue({
        el: '#app', //表示当前vue对象接管了div区域
        data:{
          flag:false
        },
        methods:{

          toggle:function(){
```

```
        this.flag=!this.flag;
    }
}
});
</script>
</body>
</html>
```

3.VueJS生命周期

每个 Vue 实例在被创建之前都要经过一系列的初始化过程.



vue在生命周期中有这些状态,

beforeCreate,created,beforeMount,mounted,beforeUpdate,updated,beforeDestroy,destroyed。Vue在实例化的过程中，会调用这些生命周期的钩子，给我们提供了执行自定义逻辑的机会。那么，在这些vue钩子中，vue实例到底执行了那些操作，我们先看下面执行的例子

```
<!DOCTYPE html>

<html>
```



```
<head>
  <meta charset="utf-8" />
  <title>生命周期</title>
  <script src="js/vuejs-2.5.16.js"></script>
</head>

<body>
  <div id="app">
    {{message}}
  </div>

  <script>
    var vm = new Vue({
      el: "#app",
      data: {
        message: 'hello world'
      },
      beforeCreate: function() {
        console.log(this);
        showData('创建vue实例前', this);
      },
      created: function() {
        showData('创建vue实例后', this);
      },
      beforeMount: function() {
        showData('挂载到dom前', this);
      },
      mounted: function() {
        showData('挂载到dom后', this);
      },
      beforeUpdate: function() {
        showData('数据变化更新前', this);
      },
      updated: function() {
        showData('数据变化更新后', this);
      },
      beforeDestroy: function() {
        vm.test = "3333";
        showData('vue实例销毁前', this);
      },
      destroyed: function() {
        showData('vue实例销毁后', this);
      }
    });

    function realDom() {
      console.log('真实dom结构: ' + document.getElementById('app').innerHTML);
    }

    function showData(process, obj) {
      console.log(process);
    }
  </script>
</body>
```



```
        console.log('data 数据: ' + obj.message)
        console.log('挂载的对象: ')
        console.log(obj.$el)
        realDom();
        console.log('-----')
        console.log('-----')
    }
    vm.message="good...";
    vm.$destroy();
</script>
</body>
</html>
```

vue对象初始化过程中，会执行到beforeCreate,created,beforeMount,mounted 这几个钩子的内容

- beforeCreate：数据还没有监听，没有绑定到vue对象实例，同时也没有挂载对象
- created：数据已经绑定到了对象实例，但是还没有挂载对象
- beforeMount: 模板已经编译好了，根据数据和模板已经生成了对应的元素对象，将数据对象关联到了对象的el属性，el属性是一个HTMLElement对象，也就是这个阶段，vue实例通过原生的createElement等方法来创建这个html片段，准备注入到我们vue实例指明的el属性所对应的挂载点
- mounted:将el的内容挂载到了el，相当于我们在jquery执行了(el).html(el),生成页面上真正的dom，上面我们就会发现dom的元素和我们el的元素是一致的。在此之后，我们能够用方法来获取到el元素下的dom对象，并进行各种操作
- 当我们的data发生改变时，会调用beforeUpdate和updated方法
 - beforeUpdate：数据更新到dom之前，我们可以看到\$el对象已经修改，但是我们页面上dom的数据还没有发生改变
 - updated: dom结构会通过虚拟dom的原则，找到需要更新页面dom结构的最小路径，将改变更新到dom上面，完成更新
- **beforeDestroy,destroyed**:实例的销毁，vue实例还是存在的，只是解绑了事件的监听还有watcher对象数据与view的绑定，即数据驱动

4.VueJS ajax

4.1 vue-resource

vue-resource是Vue.js的插件提供了使用XMLHttpRequest或JSONP进行Web请求和处理响应的服务。当vue更新到2.0之后，作者就宣告不再对vue-resource更新，而是推荐的axios，在这里大家了解一下vue-resource就可以。

vue-resource的github: <https://github.com/pagekit/vue-resource>

4.2 axios

Axios 是一个基于 promise 的 HTTP 库，可以用在浏览器和 node.js 中

axios的github:<https://github.com/axios/axios>

4.2.1 引入axios

首先就是引入axios,如果你使用es6，只需要安装axios模块之后



```
import axios from 'axios';  
//安装方法  
npm install axios  
//或  
bower install axios
```

当然也可以用script引入

```
<script src="https://unpkg.com/axios/dist/axios.min.js"></script>
```

4.2.2 get请求

```
//通过给定的ID来发送请求  
axios.get('/user?ID=12345')  
  .then(function(response){  
    console.log(response);  
  })  
  .catch(function(err){  
    console.log(err);  
  });  
//以上请求也可以通过这种方式来发送  
axios.get('/user',{  
  params:{  
    ID:12345  
  }  
})  
  .then(function(response){  
    console.log(response);  
  })  
  .catch(function(err){  
    console.log(err);  
  });
```

4.2.3 post请求

```
axios.post('/user',{  
  firstName:'Fred',  
  lastName:'Flintstone'  
})  
  .then(function(res){  
    console.log(res);  
  })  
  .catch(function(err){  
    console.log(err);  
  });
```

为了方便起见，为所有支持的请求方法提供了别名

axios.request(config)

`axios.get(url[, config])`

`axios.delete(url[, config])`

`axios.head(url[, config])`

`axios.post(url[, data[, config]])`

`axios.put(url[, data[, config]])`

`axios.patch(url[, data[, config]])`

5. 综合案例

5.1 案例需求

完成用户的查询与修改操作

5.2 数据库设计与表结构

```
CREATE DATABASE vuejsdemo;
USE vuejsdemo;
CREATE TABLE USER(
    id INT PRIMARY KEY AUTO_INCREMENT,
    age INT,
    username VARCHAR(20),
    PASSWORD VARCHAR(50),
    email VARCHAR(50),
    sex VARCHAR(20)
)
```

User类

```
public class User {
    private Integer id;
    private String username;
    private String password;
    private String sex;
    private int age;
    private String email;
    省略getter/setter
}
```

5.3 服务器端

5.3.1 配置文件

pom.xml

```
<?xml version="1.0" encoding="UTF-8"?>
```




```
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance"
    xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <modelVersion>4.0.0</modelVersion>

    <groupId>com.itheima.vuejsDemo</groupId>
    <artifactId>vuejsDemo</artifactId>
    <version>1.0-SNAPSHOT</version>
    <packaging>war</packaging>

    <name>vuejsDemo Maven Webapp</name>
    <!-- FIXME change it to the project's website -->
    <url>http://www.example.com</url>

    <properties>
        <project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>
        <maven.compiler.source>1.8</maven.compiler.source>
        <maven.compiler.target>1.8</maven.compiler.target>
        <spring.version>5.0.2.RELEASE</spring.version>
        <slf4j.version>1.6.6</slf4j.version>
        <log4j.version>1.2.12</log4j.version>
        <mybatis.version>3.4.5</mybatis.version>
    </properties>

    <dependencies>        <!-- spring -->
        <dependency>
            <groupId>org.aspectj</groupId>
            <artifactId>aspectjweaver</artifactId>
            <version>1.6.8</version>
        </dependency>
        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-aop</artifactId>
            <version>${spring.version}</version>
        </dependency>
        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-context</artifactId>
            <version>${spring.version}</version>
        </dependency>
        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-context-support</artifactId>
            <version>${spring.version}</version>
        </dependency>
        <dependency>
            <groupId>org.springframework</groupId>
            <artifactId>spring-web</artifactId>
            <version>${spring.version}</version>
        </dependency>
        <dependency>
```



```
<groupId>org.springframework</groupId>
<artifactId>spring-orm</artifactId>
<version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-beans</artifactId>
    <version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-core</artifactId>
    <version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-test</artifactId>
    <version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-webmvc</artifactId>
    <version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>org.springframework</groupId>
    <artifactId>spring-tx</artifactId>
    <version>${spring.version}</version>
</dependency>
<dependency>
    <groupId>junit</groupId>
    <artifactId>junit</artifactId>
    <version>4.12</version>
    <scope>test</scope>
</dependency>
<dependency>
    <groupId>javax.servlet</groupId>
    <artifactId>javax.servlet-api</artifactId>
    <version>3.1.0</version>
    <scope>provided</scope>
</dependency>
<dependency>
    <groupId>javax.servlet.jsp</groupId>
    <artifactId>jsp-api</artifactId>
    <version>2.0</version>
    <scope>provided</scope>
</dependency>
<dependency>
    <groupId>jstl</groupId>
    <artifactId>jstl</artifactId>
    <version>1.2</version>
</dependency>
<!-- log start -->
```



```
<dependency>
  <groupId>log4j</groupId>
  <artifactId>log4j</artifactId>
  <version>${log4j.version}</version>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
  <artifactId>slf4j-api</artifactId>
  <version>${slf4j.version}</version>
</dependency>
<dependency>
  <groupId>org.slf4j</groupId>
  <artifactId>slf4j-log4j12</artifactId>
  <version>${slf4j.version}</version>
</dependency>      <!-- log end -->

<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis</artifactId>
  <version>${mybatis.version}</version>
</dependency>
<dependency>
  <groupId>org.mybatis</groupId>
  <artifactId>mybatis-spring</artifactId>
  <version>1.3.0</version>
</dependency>
<dependency>
  <groupId>c3p0</groupId>
  <artifactId>c3p0</artifactId>
  <version>0.9.1.2</version>
  <type>jar</type>
  <scope>compile</scope>
</dependency>
<dependency>
  <groupId>com.github.pagehelper</groupId>
  <artifactId>pagehelper</artifactId>
  <version>5.1.2</version>
</dependency>
<dependency>
  <groupId>mysql</groupId>
  <artifactId>mysql-connector-java</artifactId>
  <version>5.1.5</version>
</dependency>
<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-core</artifactId>
  <version>2.9.5</version>
</dependency>

<dependency>
  <groupId>com.fasterxml.jackson.core</groupId>
  <artifactId>jackson-databind</artifactId>

  <version>2.9.5</version>
```



```
</dependency>

</dependencies>

<build>
  <finalName>vuejsDemo</finalName>
  <pluginManagement><!-- lock down plugins versions to avoid using Maven defaults (may be
moved to parent pom) -->
    <plugins>
      <plugin>
        <artifactId>maven-clean-plugin</artifactId>
        <version>3.0.0</version>
      </plugin>
      <!-- see http://maven.apache.org/ref/current/maven-core/default-
bindings.html#Plugin_bindings_for_war_packaging -->
      <plugin>
        <artifactId>maven-resources-plugin</artifactId>
        <version>3.0.2</version>
      </plugin>
      <plugin>
        <artifactId>maven-compiler-plugin</artifactId>
        <version>3.7.0</version>
      </plugin>
      <plugin>
        <artifactId>maven-surefire-plugin</artifactId>
        <version>2.20.1</version>
      </plugin>
      <plugin>
        <artifactId>maven-war-plugin</artifactId>
        <version>3.2.0</version>
      </plugin>
      <plugin>
        <artifactId>maven-install-plugin</artifactId>
        <version>2.5.2</version>
      </plugin>
      <plugin>
        <artifactId>maven-deploy-plugin</artifactId>
        <version>2.8.2</version>
      </plugin>
    </plugins>
  </pluginManagement>
  <plugins>
    <plugin>
      <groupId>org.apache.tomcat.maven</groupId>
      <artifactId>tomcat7-maven-plugin</artifactId>
      <version>2.2</version>
    </plugin>
  </plugins>
</build>
</project>
```



web.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<web-app xmlns="http://xmlns.jcp.org/xml/ns/javaee"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://xmlns.jcp.org/xml/ns/javaee
        http://xmlns.jcp.org/xml/ns/javaee/web-app_3_1.xsd"
    version="3.1"
    metadata-complete="true">
    <!-- 手动指定 spring 配置文件位置 -->
    <context-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>classpath:applicationContext.xml</param-value>
    </context-param>
    <!-- 配置 spring 提供的监听器，用于启动服务时加载容器 。
    该监听器只能加载 WEB-INF 目录中名称为 applicationContext.xml 的配置文件 -->
    <listener>
        <listener-class>
            org.springframework.web.context.ContextLoaderListener
        </listener-class>
    </listener>
    <!-- 配置 spring mvc 的核心控制器 -->
    <servlet>
        <servlet-name>springmvcDispatcherServlet</servlet-name>
        <servlet-class>org.springframework.web.servlet.DispatcherServlet</servlet-class>
        <!-- 配置初始化参数，用于读取 springmvc 的配置文件 -->
        <init-param>
            <param-name>contextConfigLocation</param-name>
            <param-value>classpath:springmvc.xml</param-value>
        </init-param>
        <!-- 配置 servlet 的对象的创建时间点：应用加载时创建。取值只能是非 0 正整数，表示启动顺序 -->
        <load-on-startup>1</load-on-startup>
    </servlet>
    <servlet-mapping>
        <servlet-name>springmvcDispatcherServlet</servlet-name>
        <url-pattern>*.do</url-pattern>
    </servlet-mapping>
    <!-- 配置 springMVC 编码过滤器 -->
    <filter>
        <filter-name>CharacterEncodingFilter</filter-name>
        <filter-class>org.springframework.web.filter.CharacterEncodingFilter</filter-class>
        <!-- 设置过滤器中的属性值 -->
        <init-param>
            <param-name>encoding</param-name>
            <param-value>UTF-8</param-value>
        </init-param>
        <!-- 启动过滤器 -->
        <init-param>
            <param-name>forceEncoding</param-name>
            <param-value>true</param-value>
        </init-param>
    </filter>
```



```
<!-- 过滤所有请求 -->
<filter-mapping>
    <filter-name>CharacterEncodingFilter</filter-name>
    <url-pattern>/*</url-pattern>
</filter-mapping>
<welcome-file-list>
    <welcome-file>index.html</welcome-file>
    <welcome-file>index.htm</welcome-file>
    <welcome-file>index.jsp</welcome-file>
    <welcome-file>default.html</welcome-file>
    <welcome-file>default.htm</welcome-file>
    <welcome-file>default.jsp</welcome-file>
</welcome-file-list>
</web-app>
```

springmvc.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:mvc="http://www.springframework.org/schema/mvc"
    xmlns:context="http://www.springframework.org/schema/context"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/mvc
http://www.springframework.org/schema/mvc/spring-mvc.xsd
http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
    <!-- 配置创建 spring 容器要扫描的包 -->
    <context:component-scan base-package="com.itheima">
        <!-- 制定扫描规则 ,只扫描使用@Controller 注解的 JAVA 类 -->
        <context:include-filter type="annotation"
            expression="org.springframework.stereotype.Controller"/>
    </context:component-scan>
    <mvc:annotation-driven></mvc:annotation-driven>
</beans>
```

applicationContext.xml

```
<?xml version="1.0" encoding="UTF-8"?>
<beans xmlns="http://www.springframework.org/schema/beans"
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:aop="http://www.springframework.org/schema/aop"
    xmlns:tx="http://www.springframework.org/schema/tx"
    xmlns:context="http://www.springframework.org/schema/context"
    xsi:schemaLocation="http://www.springframework.org/schema/beans
http://www.springframework.org/schema/beans/spring-beans.xsd
http://www.springframework.org/schema/tx
http://www.springframework.org/schema/tx/spring-tx.xsd

http://www.springframework.org/schema/aop
```



```
http://www.springframework.org/schema/aop/spring-aop.xsd
        http://www.springframework.org/schema/context
http://www.springframework.org/schema/context/spring-context.xsd">
    <!-- 配置 spring 创建容器时要扫描的包 -->
    <context:component-scan base-package="com.itheima">
        <!-- 制定扫描规则，不扫描@Controller 注解的 JAVA 类，其他的还是要扫描 -->
        <context:exclude-filter type="annotation"
            expression="org.springframework.stereotype.Controller"/>
    </context:component-scan>
    <!-- 加载配置文件 -->
    <context:property-placeholder location="classpath:db.properties"/>
    <!-- 配置 MyBatis 的 Session 工厂 -->
    <bean id="sqlSessionFactory" class="org.mybatis.spring.SqlSessionFactoryBean">
        <!-- 数据库连接池 -->
        <property name="dataSource" ref="dataSource"/>
        <!-- 加载 mybatis 的全局配置文件 -->
        <property name="configLocation" value="classpath:SqlMapConfig.xml"/>
    </bean>
    <!-- 配置数据源 -->
    <bean id="dataSource" class="com.mchange.v2.c3p0.ComboPooledDataSource">
        <property name="driverClass" value="${jdbc.driver}"></property>
        <property name="jdbcUrl" value="${jdbc.url}"></property>
        <property name="user" value="${jdbc.username}"></property>
        <property name="password" value="${jdbc.password}"></property>
    </bean>
    <!-- 配置 Mapper 扫描器 -->
    <bean class="org.mybatis.spring.mapper.MapperScannerConfigurer">
        <property name="basePackage" value="com.itheima.dao"/>
    </bean>
    <tx:annotation-driven/>
    <!-- (事务管理)transaction manager, use JtaTransactionManager for global tx -->
    <bean id="transactionManager"
        class="org.springframework.jdbc.datasource.DataSourceTransactionManager">
        <property name="dataSource" ref="dataSource"/>
    </bean>
</beans>
```

db.properties

```
jdbc.driver=com.mysql.jdbc.Driver
jdbc.url=jdbc:mysql://localhost:3306/vuejsDemo
jdbc.username=root
jdbc.password=root
```

5.3.2 Controller

```
@RequestMapping("/user")
@Controller
@ResponseBody
public class UserController {
```



```
@Autowired
private IUserService userService;

@RequestMapping(value="/findAll.do")
public List<User> findAll() {
    return userService.findAll();
}

@RequestMapping(value="/findById.do")
public User findById(Integer id) {
    return userService.findById(id);
}

@RequestMapping(value="/update.do")
public User update(@RequestBody User user) {
    return userService.update(user);
}
}
```

5.3.3 Dao

```
public interface IUserDao {

    @Select("select * from user")
    public List<User> findAll();

    @Select("select * from user where id=#{id}")
    User findById(Integer id);

    @Update("update user set username=#{username},password=#{password},sex=#{sex},age=#{age},email=#{email} where id=#{id}")
    void update(User user);
}
```

5.4 客户端

5.4.1 user.html页面

```
<!DOCTYPE html>
<html>

<head>
    <!-- 页面meta -->
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <title>数据 - AdminLTE2定制版</title>
    <meta name="description" content="AdminLTE2定制版">
    <meta name="keywords" content="AdminLTE2定制版">

    <meta content="width=device-width,initial-scale=1,maximum-scale=1,user-scalable=no"
```




```
name="viewport">

<script src="https://oss.maxcdn.com/html5shiv/3.7.3/html5shiv.min.js"></script>
<script src="https://oss.maxcdn.com/respond/1.4.2/respond.min.js"></script>

<link rel="stylesheet" href="/vuejsDemo/plugins/bootstrap/css/bootstrap.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/font-awesome/css/font-awesome.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/ionicons/css/ionicons.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/iCheck/square/blue.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/morris/morris.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/jvectormap/jquery-jvectormap-1.2.2.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/datepicker/datepicker3.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/daterangepicker/daterangepicker.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/bootstrap-wysihtml5/bootstrap3-
wysihtml5.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/datatables/dataTables.bootstrap.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/treeTable/jquery.treetable.css">
<link rel="stylesheet"
href="/vuejsDemo/plugins/treeTable/jquery.treetable.theme.default.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/select2/select2.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/colorpicker/bootstrap-colorpicker.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/bootstrap-markdown/css/bootstrap-
markdown.min.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/adminLTE/css/AdminLTE.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/adminLTE/css/skins/_all-skins.min.css">
<link rel="stylesheet" href="/vuejsDemo/css/style.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/ionslider/ion.rangeSlider.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/ionslider/ion.rangeSlider.skinNice.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/bootstrap-slider/slider.css">
<link rel="stylesheet" href="/vuejsDemo/plugins/bootstrap-datetimepicker/bootstrap-
datetimepicker.css">
</head>

<body class="hold-transition skin-purple sidebar-mini">

<div class="wrapper" id="app">

  <!-- 页面头部 -->
  <header class="main-header">

    <!-- Logo -->
    <a href="all-admin-index.html" class="logo">
      <!-- mini logo for sidebar mini 50x50 pixels -->
      <span class="logo-mini"><b>数据</b></span>
      <!-- logo for regular state and mobile devices -->
      <span class="logo-lg"><b>数据</b>后台管理</span>
    </a>

    <!-- Header Navbar: style can be found in header.less -->

    <nav class="navbar navbar-static-top">
```



```

<!-- Sidebar toggle button-->
<a href="#" class="sidebar-toggle" data-toggle="offcanvas" role="button">
  <span class="sr-only">Toggle navigation</span>
</a>

<div class="navbar-custom-menu">
  <ul class="nav navbar-nav">
    <!-- Messages: style can be found in dropdown.less-->
    <li class="dropdown messages-menu">
      <a href="#" class="dropdown-toggle" data-toggle="dropdown">
        <i class="fa fa-envelope-o"></i>
        <span class="label label-success">4</span>
      </a>
      <ul class="dropdown-menu">
        <li class="header">你有4个邮件</li>
        <li>
          <!-- inner menu: contains the actual data -->
          <ul class="menu">
            <li>
              <!-- start message -->
              <a href="#">
                <div class="pull-left">
                  
                </div>
                <h4>
                  系统消息
                  <small><i class="fa fa-clock-o"></i> 5 分钟前
</small>
                </h4>
                <p>欢迎登录系统?</p>
              </a>
            </li>
            <!-- end message -->
            <li>
              <a href="#">
                <div class="pull-left">
                  
                </div>
                <h4>
                  团队消息
                  <small><i class="fa fa-clock-o"></i> 2 小时前
</small>
                </h4>
                <p>你有新的任务了</p>
              </a>
            </li>
            <li>
              <a href="#">
                <div class="pull-left">
                  
    </div>
    <h4>
        Developers
        <small><i class="fa fa-clock-o"></i>
Today</small>
    </h4>
    <p>Why not buy a new awesome theme?</p>
</a>
</li>
<li>
    <a href="#">
        <div class="pull-left">
            
        </div>
        <h4>
            Sales Department
            <small><i class="fa fa-clock-o"></i>
Yesterday</small>
        </h4>
        <p>Why not buy a new awesome theme?</p>
    </a>
</li>
<li>
    <a href="#">
        <div class="pull-left">
            
        </div>
        <h4>
            Reviewers
            <small><i class="fa fa-clock-o"></i> 2
days</small>
        </h4>
        <p>Why not buy a new awesome theme?</p>
    </a>
</li>
</ul>
</li>
<li class="footer"><a href="#">See All Messages</a></li>
</ul>
</li>
<!-- Notifications: style can be found in dropdown.less -->
<li class="dropdown notifications-menu">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
        <i class="fa fa-bell-o"></i>
        <span class="label label-warning">10</span>
    </a>
    <ul class="dropdown-menu">
        <li class="header">你有10个新消息</li>
        <li>
            <!-- inner menu: contains the actual data -->

```



```

        <ul class="menu">
            <li>
                <a href="#">
                    <i class="fa fa-users text-aqua"></i> 5 new members
joined today

                </a>
            </li>
            <li>
                <a href="#">
                    <i class="fa fa-warning text-yellow"></i> Very long
description here that

                    may not
                    fit into the page and may cause design problems
                </a>
            </li>
            <li>
                <a href="#">
                    <i class="fa fa-users text-red"></i> 5 new members
joined

                </a>
            </li>
            <li>
                <a href="#">
                    <i class="fa fa-shopping-cart text-green"></i> 25
sales made

                </a>
            </li>
            <li>
                <a href="#">
                    <i class="fa fa-user text-red"></i> You changed your
username

                </a>
            </li>
        </ul>
    </li>
    <li class="footer"><a href="#">View all</a></li>
</ul>
</li>
<!-- Tasks: style can be found in dropdown.less -->
<li class="dropdown tasks-menu">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
        <i class="fa fa-flag-o"></i>
        <span class="label label-danger">9</span>
    </a>
    <ul class="dropdown-menu">
        <li class="header">你有9个新任务</li>
        <li>
            <!-- inner menu: contains the actual data -->
            <ul class="menu">
                <li>
                    <!-- Task item -->
                    <a href="#">

                        <h3>

```



```

        Design some buttons
        <small class="pull-right">20%</small>
    </h3>
    <div class="progress xs">
        <div class="progress-bar progress-bar-aqua"

style="width: 20%"

        role="progressbar" aria-valuenow="20" aria-

valuemin="0"

        aria-valuemax="100">
        <span class="sr-only">20% Complete</span>
    </div>
    </div>
</a>
</li>
<!-- end task item -->
<li>
    <!-- Task item -->
    <a href="#">
        <h3>
            Create a nice theme
            <small class="pull-right">40%</small>
        </h3>
        <div class="progress xs">
            <div class="progress-bar progress-bar-green"

style="width: 40%"

            role="progressbar" aria-valuenow="20" aria-

valuemin="0"

            aria-valuemax="100">
            <span class="sr-only">40% Complete</span>
        </div>
        </div>
    </a>
</li>
<!-- end task item -->
<li>
    <!-- Task item -->
    <a href="#">
        <h3>
            Some task I need to do
            <small class="pull-right">60%</small>
        </h3>
        <div class="progress xs">
            <div class="progress-bar progress-bar-red"

style="width: 60%"

            role="progressbar" aria-valuenow="20" aria-

valuemin="0"

            aria-valuemax="100">
            <span class="sr-only">60% Complete</span>
        </div>
        </div>
    </a>
</li>

<!-- end task item -->

```



```

        <li>
            <!-- Task item -->
            <a href="#">
                <h3>
                    Make beautiful transitions
                    <small class="pull-right">80%</small>
                </h3>
                <div class="progress xs">
                    <div class="progress-bar progress-bar-yellow"
style="width: 80%"
                    role="progressbar" aria-valuenow="20" aria-
valuemin="0"
                    aria-valuemax="100">
                        <span class="sr-only">80% Complete</span>
                    </div>
                </div>
            </a>
        </li>
        <!-- end task item -->
    </ul>
</li>
<li class="footer">
    <a href="#">View all tasks</a>
</li>
</ul>
</li>
<!-- User Account: style can be found in dropdown.less -->
<li class="dropdown user user-menu">
    <a href="#" class="dropdown-toggle" data-toggle="dropdown">
        
        <span class="hidden-xs">张猿猿</span>
    </a>
    <ul class="dropdown-menu">
        <!-- User image -->
        <li class="user-header">
            
            <p>
                张猿猿 - 数据管理员
                <small>最后登录 11:20AM</small>
            </p>
        </li>

        <!-- Menu Footer-->
        <li class="user-footer">
            <div class="pull-left">
                <a href="#" class="btn btn-default btn-flat">修改密码</a>
            </div>
            <div class="pull-right">
                <a href="#" class="btn btn-default btn-flat">注销</a>
            </div>
        </li>
    </ul>
</li>

```



```
        </li>
      </ul>
    </li>

    </ul>
  </div>
</nav>
</header>
<!-- 页面头部 -->

<!-- 导航侧栏 -->
<aside class="main-sidebar">
  <!-- sidebar: style can be found in sidebar.less -->
  <section class="sidebar">
    <!-- Sidebar user panel -->
    <div class="user-panel">
      <div class="pull-left image">
        
      </div>
      <div class="pull-left info">
        <p>张猿猿</p>
        <a href="#"><i class="fa fa-circle text-success"></i> 在线</a>
      </div>
    </div>
    <!-- search form -->
    <!--<form action="#" method="get" class="sidebar-form">
    <div class="input-group">
      <input type="text" name="q" class="form-control" placeholder="搜索...">
      <span class="input-group-btn">
        <button type="submit" name="search" id="search-btn" class="btn btn-flat"><i
class="fa fa-search"></i>
      </button>
    </span>
    </div>
  </form>-->
  <!-- /.search form -->

  <!-- sidebar menu: : style can be found in sidebar.less -->
  <ul class="sidebar-menu">
    <li class="header">菜单</li>

    <li id="admin-index"><a href="all-admin-index.html"><i class="fa fa-dashboard">
</i> <span>首页</span></a>
    </li>

    <!-- 菜单 -->

    <li class="treeview">
      <a href="#">

      <i class="fa fa-folder"></i> <span>用户管理</span>
    </li>
  </ul>
</aside>
```



```
<span class="pull-right-container">
  <i class="fa fa-angle-left pull-right"></i>
</span>
</a>
<ul class="treeview-menu">

  <li id="admin-login">
    <a href="all-admin-login.html">
      <i class="fa fa-circle-o"></i> 查询所有用户
    </a>
  </li>

</ul>
</li>

<!-- 菜单 -->
</ul>
</section>
<!-- /.sidebar -->
</aside>
<!-- 导航侧栏 -->

<!-- 内容区域 -->
<!-- @@master = admin-layout.html-->
<!-- @block = content -->

<div class="content-wrapper">

  <!-- 内容头部 -->
  <section class="content-header">
    <h1>
      数据管理
    </h1>
    <small>数据列表</small>
  </section>
  <ol class="breadcrumb">
    <li><a href="#"><i class="fa fa-dashboard"></i> 首页</a></li>
    <li><a href="#">数据管理</a></li>
    <li class="active">数据列表</li>
  </ol>
  <!-- 内容头部 -->

  <!-- 正文区域 -->
  <section class="content">

    <!-- .box-body -->
    <div class="box box-primary">
      <div class="box-header with-border">
        <h3 class="box-title">列表</h3>
      </div>

      <div class="box-body">
```




```

<!-- 数据表格 -->
<div class="table-box">

    <!--工具栏-->
    <div class="pull-left">
        <div class="form-group form-inline">
            <div class="btn-group">
                <button type="button" class="btn btn-default" title="新建">

<div class="fa fa-file-o"></div> 新建
            </button>
            <button type="button" class="btn btn-default" title="删除">

<div class="fa fa-trash-o"></div> 删除
            </button>
            <button type="button" class="btn btn-default" title="开启">

<div class="fa fa-check"></div> 开启
            </button>
            <button type="button" class="btn btn-default" title="屏蔽">

<div class="fa fa-ban"></div> 屏蔽
            </button>
            <button type="button" class="btn btn-default" title="刷新">

<div class="fa fa-refresh"></div> 刷新
            </button>
        </div>
    </div>
    <div class="box-tools pull-right">
        <div class="has-feedback">
            <input type="text" class="form-control input-sm" placeholder="搜索">

            <span class="glyphicon glyphicon-search form-control-feedback">
        </span>
        </div>
    </div>
    <!--工具栏/-->

    <!--数据列表-->
    <table id="dataList" class="table table-bordered table-striped table-
hover dataTable">
        <thead>
            <tr>
                <th class="" style="padding-right:0px;">
                    <input id="selall" type="checkbox" class="icheckbox_square-
blue">

                </th>
                <th class="sorting_asc">ID</th>
                <th class="sorting_desc">用户名</th>
                <th class="sorting_asc sorting_asc_disabled">密码</th>

                <th class="sorting_desc sorting_desc_disabled">性别</th>

```



```

        <th class="sorting">年龄</th>
        <th class="text-center sorting">邮箱</th>
        <th class="text-center">操作</th>
    </tr>
</thead>
<tbody>

<tr v-for="u in userList">
    <td><input name="ids" type="checkbox"></td>
    <td>{{u.id}}</td>
    <td>{{u.username}}</td>
    <td>{{u.password}}</td>
    <td>{{u.sex}}</td>
    <td>{{u.age}}</td>
    <td class="text-center">{{u.email}}</td>
    <td class="text-center">
        <button type="button" class="btn bg-olive btn-xs">详情
    </button>

        <button type="button" class="btn bg-olive btn-xs"
@click="findById(u.id)">编辑</button>
    </td>
</tr>

</tbody>
<!-- 模态窗口 -->
<div class="tab-pane" id="tab-model">

    <div id="myModal" class="modal modal-primary" role="dialog">
        <div class="modal-dialog modal-lg">
            <div class="modal-content">
                <div class="modal-header">
                    <button type="button" class="close" data-
dismiss="modal" aria-label="Close">
                        <span aria-hidden="true">&times;</span>
                    </button>

                    <h4 class="modal-title">用户信息</h4>
                </div>
                <div class="modal-body">

                    <div class="box-body">
                        <div class="form-horizontal">

                            <div class="form-group">
                                <label class="col-sm-2 control-
label">用户名:</label>

                                <div class="col-sm-5">
                                    <input type="text" class="form-
control" v-model="user.username">

                                </div>
                            </div>

                        </div>

                    </div>
                </div>
            </div>
        </div>
    </div>

```



```
label">密码:</label>

control" v-model="user.password">

label">性别:</label>

control" v-model="user.sex">

label">年龄:</label>

control" v-model="user.age">

label">邮箱:</label>

control" v-model="user.email">

</div>
<div class="modal-footer">
  <button type="button" class="btn btn-outline"
data-dismiss="modal">关闭</button>
  <button type="button" class="btn btn-outline"
data-dismiss="modal" @click="update">修改</button>
</div>
</div>
<!-- /.modal-content -->
</div>

<!-- /.modal-dialog -->
</div>
<!-- /.modal -->
</div>
<!-- 模态窗口/-->
</table>
<!-- 数据列表/-->
```



```
<!--工具栏-->
<div class="pull-left">
  <div class="form-group form-inline">
    <div class="btn-group">
      <button type="button" class="btn btn-default" title="新建">
        <i class="fa fa-file-o"></i> 新建
      </button>
      <button type="button" class="btn btn-default" title="删除">
        <i class="fa fa-trash-o"></i> 删除
      </button>
      <button type="button" class="btn btn-default" title="开启">
        <i class="fa fa-check"></i> 开启
      </button>
      <button type="button" class="btn btn-default" title="屏蔽">
        <i class="fa fa-ban"></i> 屏蔽
      </button>
      <button type="button" class="btn btn-default" title="刷新">
        <i class="fa fa-refresh"></i> 刷新
      </button>
    </div>
  </div>
</div>
<div class="box-tools pull-right">
  <div class="has-feedback">
    <input type="text" class="form-control input-sm" placeholder="搜索">
    <span class="glyphicon glyphicon-search form-control-feedback">
  </span>
  </div>
</div>
<!--工具栏/-->

</div>
<!-- 数据表格 /-->

</div>
<!-- /.box-body -->

<!-- .box-footer-->
<div class="box-footer">
  <div class="pull-left">
    <div class="form-group form-inline">
      总共2 页, 共14 条数据。 每页
      <select class="form-control">

        <option>1</option>
```



```
        <option>2</option>
        <option>3</option>
        <option>4</option>
        <option>5</option>
    </select> 条
</div>
</div>

<div class="box-tools pull-right">
    <ul class="pagination">
        <li>
            <a href="#" aria-label="Previous">首页</a>
        </li>
        <li><a href="#">上一页</a></li>
        <li><a href="#">1</a></li>
        <li><a href="#">2</a></li>
        <li><a href="#">3</a></li>
        <li><a href="#">4</a></li>
        <li><a href="#">5</a></li>
        <li><a href="#">下一页</a></li>
        <li>
            <a href="#" aria-label="Next">尾页</a>
        </li>
    </ul>
</div>

</div>
<!-- /.box-footer-->

</div>

</section>
<!-- 正文区域 /-->

</div>
<!-- @@close -->
<!-- 内容区域 /-->

<!-- 底部导航 -->
<footer class="main-footer">
    <div class="pull-right hidden-xs">
        <b>Version</b> 1.0.8
    </div>
    <strong>Copyright &copy; 2014-2017 <a href="http://www.itcast.cn">研究院研发部</a>.
</strong> All rights reserved.
</footer>
<!-- 底部导航 /-->

</div>

<script src="/vuejsDemo/plugins/jquery/jquery-2.2.3.min.js"></script>
```



```
<script src="/vuejsDemo/plugins/jqueryUI/jquery-ui.min.js"></script>
<script>
    $.widget.bridge('uibutton', $.ui.button);
</script>
<script src="/vuejsDemo/plugins/bootstrap/js/bootstrap.min.js"></script>
<script src="/vuejsDemo/plugins/raphael/raphael-min.js"></script>
<script src="/vuejsDemo/plugins/morris/morris.min.js"></script>
<script src="/vuejsDemo/plugins/sparkline/jquery.sparkline.min.js"></script>
<script src="/vuejsDemo/plugins/jvectormap/jquery-jvectormap-1.2.2.min.js"></script>
<script src="/vuejsDemo/plugins/jvectormap/jquery-jvectormap-world-mill-en.js"></script>
<script src="/vuejsDemo/plugins/knob/jquery.knob.js"></script>
<script src="/vuejsDemo/plugins/daterangepicker/moment.min.js"></script>
<script src="/vuejsDemo/plugins/daterangepicker/daterangepicker.js"></script>
<script src="/vuejsDemo/plugins/daterangepicker/daterangepicker.zh-CN.js"></script>
<script src="/vuejsDemo/plugins/datePicker/bootstrap-datepicker.js"></script>
<script src="/vuejsDemo/plugins/datePicker/locales/bootstrap-datepicker.zh-CN.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-wysihtml5/bootstrap3-wysihtml5.all.min.js"></script>
<script src="/vuejsDemo/plugins/slimScroll/jquery.slimscroll.min.js"></script>
<script src="/vuejsDemo/plugins/fastclick/fastclick.js"></script>
<script src="/vuejsDemo/plugins/iCheck/ichack.min.js"></script>
<script src="/vuejsDemo/plugins/adminLTE/js/app.min.js"></script>
<script src="/vuejsDemo/plugins/treeTable/jquery.treetable.js"></script>
<script src="/vuejsDemo/plugins/select2/select2.full.min.js"></script>
<script src="/vuejsDemo/plugins/colorpicker/bootstrap-colorpicker.min.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-wysihtml5/bootstrap-wysihtml5.zh-CN.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-markdown/js/bootstrap-markdown.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-markdown/locale/bootstrap-markdown.zh.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-markdown/js/markdown.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-markdown/js/to-markdown.js"></script>
<script src="/vuejsDemo/plugins/ckeditor/ckeditor.js"></script>
<script src="/vuejsDemo/plugins/input-mask/jquery.inputmask.js"></script>
<script src="/vuejsDemo/plugins/input-mask/jquery.inputmask.date.extensions.js"></script>
<script src="/vuejsDemo/plugins/input-mask/jquery.inputmask.extensions.js"></script>
<script src="/vuejsDemo/plugins/datatables/jquery.dataTables.min.js"></script>
<script src="/vuejsDemo/plugins/datatables/dataTables.bootstrap.min.js"></script>
<script src="/vuejsDemo/plugins/chartjs/Chart.min.js"></script>
<script src="/vuejsDemo/plugins/flot/jquery.flot.min.js"></script>
<script src="/vuejsDemo/plugins/flot/jquery.flot.resize.min.js"></script>
<script src="/vuejsDemo/plugins/flot/jquery.flot.pie.min.js"></script>
<script src="/vuejsDemo/plugins/flot/jquery.flot.categories.min.js"></script>
<script src="/vuejsDemo/plugins/ionslider/ion.rangeSlider.min.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-slider/bootstrap-slider.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-datetimepicker/bootstrap-datetimepicker.js"></script>
<script src="/vuejsDemo/plugins/bootstrap-datetimepicker/locales/bootstrap-datetimepicker.zh-CN.js"></script>
<script src="/vuejsDemo/js/vuejs-2.5.16.js"></script>
<script src="/vuejsDemo/js/axios-0.18.0.js"></script>
<script src="/vuejsDemo/js/user.js"></script>
<script>
    $(document).ready(function () {
        // 选择框
        $(".select2").select2();
    });
</script>
```



```
// WYSIHTML5编辑器
$(".textarea").wysihtml5({
  locale: 'zh-CN'
});

// 设置激活菜单
function setSidebarActive(tagUri) {
  var liObj = $("#" + tagUri);
  if (liObj.length > 0) {
    liObj.parent().parent().addClass("active");
    liObj.addClass("active");
  }
}

$(document).ready(function () {

  // 激活导航位置
  setSidebarActive("admin-datalist");

  // 列表按钮
  $("#dataList td input[type='checkbox']").iCheck({
    checkboxClass: 'icheckbox_square-blue',
    increaseArea: '20%'
  });

  // 全选操作
  $("#selall").click(function () {
    var clicks = $(this).is(':checked');
    if (!clicks) {
      $("#dataList td input[type='checkbox']").iCheck("uncheck");
    } else {
      $("#dataList td input[type='checkbox']").iCheck("check");
    }
    $(this).data("clicks", !clicks);
  });
});
</script>
</body>

</html>
```

5.4.2 user.js页面

```
var vue = new Vue({
  el: "#app",
  data: {
    user: {id:"",username:"aaa",password:"",age:"",sex:"",email:""},
    userList: []
  }
});
```



```
    },
    methods: {
      findAll: function () {
        var _this = this;
        axios.get("/vuejsDemo/user/findAll.do").then(function (response) {
          _this.userList = response.data;
          console.log(_this.userList);
        }).catch(function (err) {
          console.log(err);
        });
      },
      findById: function (userid) {
        var _this = this;
        axios.get("/vuejsDemo/user/findById.do", {
          params: {
            id: userid
          }
        }).then(function (response) {
          _this.user = response.data;
          $('#myModal').modal("show");
        }).catch(function (err) {
        });
      },
      update: function (user) {
        var _this = this;
        axios.post("/vuejsDemo/user/update.do", _this.user).then(function (response) {
          _this.findAll();
        }).catch(function (err) {
        });
      }
    },
    created(){
      this.findAll();
    }
  });
});
```