13-3 JavaScript 資料模組設



JavaScript資料模組



JavaScript物件

JavaScrip Array

JSON陣列與物件模組

```
//JS物件

//產生一個員工物件

var employees={
    empid:1,
    empName:'張三豐',
    address:'台北市富新南路',
    phone:'02-12345678',
    country:countryValue, //使用Global變數內容
    information:function(){
        alert('姓名:'+this.empName+' 地址:'+this.address);
    }
}
```

```
//JS陣列
var names=[
       id:1,
       name:'張無忌'
       id:2,
       name:'張三封'
       id:3,
       name:'張翠珊'
```

```
//JSON Array
var jsonNames=[
    "id":1,
    "name":'張無忌'
   "id":2,
    "name":'張三封'
},
    "id":3,
    "name":'張翠珊'
```



Spring MVC後端查詢結果List物件轉換成Client Side JS Array



採用JdbcTemplate進行國家別查詢結果集合物件

使用Thymeleaf th:指令遷入JsonString為前端JS Array

後端查詢產生前端JS資料模組架構

```
String message=null;
List<Customer> customers=jdbcTemplate.query(sql,
        BeanPropertyRowMapper.newInstance(Customer.class),
       new Object[] {country});
Gson gson=new Gson();
String customersJson=qson.toJson(customers);
```



Spring MVC後端查詢結果List物件轉換成Client Side JS Array



使用Thymeleaf指令

<script th:inline= "javascript" ...

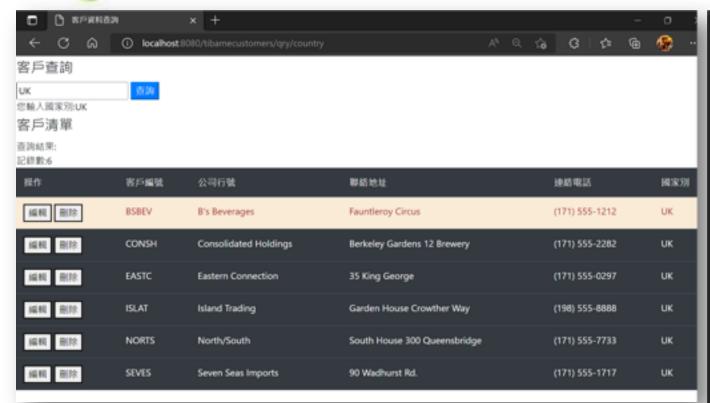
var data=/*[[\${data}]]*/ []

```
<script th:inline="javascript">
    //stobal變數 嵌入thymeleaf 運算變數內容 變成JavaScript在網頁中的敘述
    var country=/*[[${country}]]*/ ''
    var message=/*[[${message}]]*/ ''
    //Json String raw data變成JavaScript array
    var data=/*[[${data}]]*/ []
```



執行階段動態產生JS Array Demo





```
▶ <style>...</style>
▼ <script>
           //global變數 崁入thymeleaf 運算變數內容 變成JavaScript在網頁中的敘述
           var country="UK"
           var message=null
           //Json String raw data變成JavaScript array
           var data="[{\"customerId\":\"BSBEV\",\"companyName\":\"B\\u0027s
   Beverages\",\"address\":\"Fauntleroy Circus\",\"phone\":\"(171) 555-
   1212\",\"country\":\"UK\"},
   {\"customerId\":\"CONSH\",\"companyName\":\"Consolidated
   Holdings\",\"address\":\"Berkeley Gardens 12 Brewery\",\"phone\":\"(171) 559
   2282\",\"country\":\"UK\"},{\"customerId\":\"EASTC\",\"companyName\":\"Easter
   Connection\",\"address\":\"35 King George\",\"phone\":\"(171) 555-
   0297\",\"country\":\"UK\"},{\"customerId\":\"ISLAT\",\"companyName\":\"Island
   Trading\",\"address\":\"Garden House Crowther Way\",\"phone\":\"(198) 555-
   8888\",\"country\":\"UK\"},
   {\"customerId\":\"NORTS\",\"companyName\":\"North\/South\",\"address\":\"Sout
   House 300 Queensbridge\",\"phone\":\"(171) 555-7733\",\"country\":\"UK\"},
   {\"customerId\":\"SEVES\",\"companyName\":\"Seven Seas Imports\",\"address\"
   Wadhurst Rd.\",\"phone\":\"(171) 555-1717\",\"country\":\"UK\"}]"
           //更新客戶服務位址
   updateService="http:\/\/localhost:8080\/tibamecustomers\/update\/rawdata"
```

//刪除客戶服務位址



總結:13-3 JavaScript資料模組設計

瞭解瞭後端產生前端JS資料模組之後,下一個章節我們進入到前端MVVM軟體工程,看看如何快速渲染前端UI。

