JSON学习笔记

概述

- JSON: JavaScript 对象表示法: js object Notation
- JSON 是存储和交换文本信息的语法, 类似 xml
- Json 比 xml 更小、更快、更易解析
- 可以使用 JavaScript 直接编写

```
var jsonObj = {
          "name":"edwin",
          "age":"21",
          "school":"NJU"
}
alert(jsonObj.name);
alert(jsonObj.age);
alert(jsonObj.school);
```

与xml

类似 xml:

相同之处:

- Json 是纯文本
- 具有自我描述性
- 具有层级结构
- 可以通过 js 进行解析
- 数据可以通过 Ajax 进行传输

不同之处:

- 没有结束标签
- 更短更简洁
- 读写速度快
- 使用内建的就 js 函数 eval()解析
- 使用数组
- 不使用保留字

语法规则

● 数据在 name/value 键值对中

"firstName" : "John"

- 数据有逗号分隔
- 花括号{}保存对象
- 方括号[]保存数组

Json 值:6 种

Json 值可以是:

- 1. 数字:整数、浮点
- 2. 字符串: 使用双引号
- 3. 逻辑值: true false
- 4. 数组:[]
- 5. 对象: {}
- 6. null

json 数组

在 JavaScript 中使用数组:

Var name =[{ }, { }]

也是可以修改数据的

employees[0].lastName = "Jobs";

Json 文件

- json 文件: .json
- MIME 类型: "application/json"

MIME(Multipurpose Internet Mail Extensions)多用途互联网邮件扩展类型

Eval()

由于 json 语法是 JS 语法的子集, JS 的 eval 函数可以将 json 文本转化 为 JS 对象。

注意点:必须报 json 文本包围在括号之中:

Var jsonText = "(" + json + ")";

然后在传递给 eval 函数:

Var jsObj = eval(jsonText);

注意: json 存在安全隐患,使用 json 解析器更加安全。

示例

问题探究

```
▼ Object i
    Name: "Edwin"

▼ Wife: Array(2)
    ▶ 0: {name: "A"}
    ▶ 1: {Name: "B"}
    length: 2
    ▶ __proto__: Array(0)
    ▶ __proto__: Object
```

```
Unchecked runtime.lastError: The message port closed before a response was received.
                                                                                                                                                                                                                                                                                                          userMovieBuy.js:29
     ▼[] 6
         0: {id: 10, description: "again", name: "edwin", targetAmount: 5, discouptAmount: 1, ...}
1: {id: 10, description: "again", name: Console log(orderInfo.couptons);
2: {id: 10, description: "again", name: "edwin", targetAmount: 5, discouptAmount: 1, ...}
2: {id: 10, description: "again", name: "edwin", targetAmount: 5, discouptAmount: 1, ...}
2: {id: 10, description: "again", name: "edwin", targetAmount: 5, discouptAmount: 1, ...}
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2: {id: 10, description: "again", name: "edwin", targetAmount: 1, ...}
2: {id: 10, description: "again", name: "edwin", targetAmount: 1, ...}
2: {id: 10, description: "again", name: "edwin", targetAmount: 1, ...}
2: {id: 10, description: 1, ...}
2: {id: 10, descri
                                                                                                                                                                                                                                                                                                          userMovieBuy.js:29
     ▶ {ticketVOList: Array(1), total: 41, coupons: Array(0), activities: Array(1)}
                                                                                                                                                                                                                                                                                                          userMovieBuy.js:29
     ▶ (3) [{...}, {...}, {...}]
                                                                                                                                                                                                                                                                                                          userMovieBuy.js:26
 🖟 📶 | Elements Console Sources Network Performance » 🔞 1 | 🕻 🗙
 Styles Event Listeners DOM Breakpoints Properties Accessibility
 Console What's New
                                                              Request blocking Network conditions
▶ ⊘ top
                                                               ▼ | ⊙ | Filter
                                                                                                                                  Default levels ▼
                                                                                               ☐ Log XMLHttpRequests
Hide network
☐ Preserve log

✓ Eager evaluation

Selected context only
                                                                                                   Autocomplete from history

✓ Group similar

                                                                                                                                                                                                                             console.log(json);
     ▶ {Dogs: Array(2), Cat: {...}} --
                                                                                                                                                                                                                             console.log(json.Dogs.length)
                                                                                                                                                                                                       console.log(json.Cat.length)
     undefined
◎ Unchecked runtime.lastError: The <u>Json有数据但是Array为0.htm...9vcb262losdbc9vh7:1</u>
   message port
                                    打印ison: 中途添加的cat也在其中。
                                    但是访问cat.length是却发现Cat并没有被解析为json数据。没有length属性
```