

Ajax 封装

问题: 发送一次请求代码过多,发送多次就会请求代码冗余重复

解决方案:将请求代码封装到函数中,发请求时调用函数即可

```
如下:
ajax({
  type: 'get',
  url:'http://www.example.com',
  success:function(data){
    console.log(data)
  }
})
1. 简单封装
function ajax (options) {
  var xhr = new XMLHttpRequest()
  xhr.open(options.type,options.url)
  xhr.send()
  xhr.onreadystatechange = function(){
     if (xhr.readyState==4 && xhr.status==200){
            options.success(xhr.responseText)
        }
```

2. 请求参数

因为 get 请求与 post 请求传递参数不同,因此我们根据不同的请求方式修改代码

```
function ajax (options) {
  var xhr = new XMLHttpRequest()
  var parmas = ''
  for(var atr in options.data){
    params += atr + '=' + options.data[atr] + '&'
  }
  params = params.substr(0,params.length-1) // 去掉最后一个&
  if (options.type == 'get'){
    options.url = options.url + '?' + params
  }
  xhr.open(options.type,options.url)
  if (options.type == 'post'){
        xhr.setRequestHeader('Content-Type','application/x-www-form-url
encoded')
        xhr.send(params)
```





```
}else{
    xhr.send()
 xhr.onreadystatechange = function(){
     if (xhr.readyState==4 && xhr.status==200){
           options.success(xhr.responseText)
        }
 }
3. 请求失败处理
function ajax (options) {
 var xhr = new XMLHttpRequest()
 var parmas = ''
 for(var atr in options.data){
   params += atr + '=' + options.data['atr'] + '&'
  }
  params = params.substr(0,params.length-1) // 去掉最后一个&
 if (options.type == 'get'){
   options.url = options.url + '?' + params
  }
 xhr.open(options.type,options.url)
  if (options.type == 'post'){
       xhr.setRequestHeader('Content-Type', 'application/x-www-form-url
encoded')
      xhr.send(params)
  }else{
    xhr.send()
  }
 xhr.onreadystatechange = function(){
     if (xhr.readyState==4 && xhr.status==200){
           options.success(xhr.responseText,xhr)
        }else{
       options.error(xhr.responseText,xhr)
 }
}
4. 返回数据的处理
function ajax (options) {
 var xhr = new XMLHttpRequest()
 var parmas = ''
 for(var atr in options.data){
   params += atr + '=' + options.data['atr'] + '&'
  }
```





```
params = params.substr(0,params.length-1) // 去掉最后一个&
  if (options.type == 'get'){
    options.url = options.url + '?' + params
  xhr.open(options.type,options.url)
  if (options.type == 'post'){
        xhr.setRequestHeader('Content-Type', 'application/x-www-form-url
encoded')
     xhr.send(params)
  }else{
    xhr.send()
  xhr.onreadystatechange = function(){
     if (xhr.readyState==4 && xhr.status==200){
        var contentType = xhr.getResponseHeader('Content-Type')
        if (contentType.includes('application/json')){
            respText = JSON.parse(xhr.responseText)
            options.success(respText)
            options.success(xhr.responseText)
        }else{
       options.error(xhr.responseText,xhr)
 }
}
5. 是否异步
function ajax (options) {
  var xhr = new XMLHttpRequest()
  var parmas = ''
  for(var atr in options.data){
    params += atr + '=' + options.data['atr'] + '&'
  }
  params = params.substr(0,params.length-1) // 去掉最后一个&
  if (options.type == 'get'){
    options.url = options.url + '?' + params
  xhr.open(options.type,options.url,options.async)
  if (options.type == 'post'){
        xhr.setRequestHeader('Content-Type', 'application/x-www-form-url
encoded')
      xhr.send(params)
  }else{
     xhr.send()
```



```
xhr.onreadystatechange = function(){
     if (xhr.readyState==4 && xhr.status==200){
       var contentType = xhr.getResponseHeader('Content-Type')
        if (contentType.includes('application/json')){
            respText = JSON.parse(xhr.responseText)
           options.success(respText)
        }else{
           options.success(xhr.responseText)
        }else{
       options.error(xhr.responseText,xhr)
 }
6. 设置默认
function ajax (options) {
 var defaults ={
   type: 'get',
   url:'',
   async:true,
   data:{}
   success:function(data){
   error:function(data,xhr){
    }
 Object.assign(defaults,options)
 var xhr = new XMLHttpRequest()
 var parmas = ''
  for(var atr in defaults.data){
   params += atr + '=' + defaults.data['atr'] + '&'
  }
  params = params.substr(0,params.length-1) // 去掉最后一个&
  if (defaults.type == 'get'){
   defaults.url = defaults.url + '?' + params
 xhr.open(defaults.type,defaults.url)
  if (defaults.type == 'post'){
        xhr.setRequestHeader('Content-Type', 'application/x-www-form-url
encoded')
     xhr.send(params)
  }else{
     xhr.send()
  }
 xhr.onreadystatechange = function(){
                                  in Fig.
```



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```
if (xhr.readyState==4 && xhr.status==200){
    var contentType = xhr.getResponseHeader('Content-Type')
    if (contentType.includes('application/json')){
        respText = JSON.parse(xhr.responseText)
        defaults.success(respText)
    }else{
        defaults.success(xhr.responseText)
    }
    }else{
        defaults.error(xhr.responseText,xhr)
    }
}
```