**/operatemongo/operate**

（post）

**Params**

collectionname：

* 类型：字符串
* 默认值：无
* 描述：collection 名称

opratetype：

* 类型：字符串
* 默认值：无
* 描述：insertOne,insertMany,query,modify,delete

operateJson:

* 类型：json
* 默认值：无
* 描述：操作传入的json

operateJsonAppend (可选):

* 类型：json
* 默认值：null
* 描述：操作传入的第二个json，用于modify中修改成的部分或者query中的查询条件

查询条件json说明：

{

skip: 10,//mongo里面的skip (可选) 默认为null

limit: 10,// mongo里面的limit (可选) 默认为null

csort:{"\_id": -1} // 参照mongodb的sort （1或-1）

}

## 示例代码

**insertOne :**

var ***oprateJson =***{  
 **"devName"**: **"test"**, *//设备名称* **"devType"**: **"pac"**, *//设备类型* **"devPro"**: { *//设备属性* **ast**: **"123"**, *//送风温度* **sdh**: **"23"**, *//送风湿度* **rat**: **"123"**, *//回风温度* **rah**: **"123"**, *//回风湿度* **ht**: **"123"**, *//加热温度* **curCC**: **"22"**, *//当前冷量* **maxCC**: **"22"**, *//最大冷量* **fans**: **"-1"**, *//风机转数* **maxNOR**: **"22"**, *//最大转数* **wvod**: **"-1"**, *//水阀开度* **wf**: **"22"**, *//水流量* **ope**: **"22"**, *//运行效率* **powercons**: **"22"**, *//功耗* **hstate**: **"22"**, *//加湿器状态* **openstate**: **"22"** *//开关机状态* }  
  
}

**$**.post(**"/operatemongo/operate"**, { **"collectionname"**: **"devices"**,**"opratetype"**:**"insertOne"**,**'operateJson'**:***oprateJson*** },  
 **function**(result){  
  **console.log(JSON.stringify(result)**

);  
  
 }, **"json"**);

result：

* 类型：JSON 对象
* 内部字段：data 返回的数据，status 返回的操作结果(1为成功，0为失败(失败暂时没有测试到返回))

**{"data":[{"devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"},"\_id":"5987f9d301aafd159ccfde37"}],"status":1}**

**insertMany:**

**var *oprateJson*** = [{  
 **"devName"**: **"test"**, *//设备名称* **"devType"**: **"pac"**, *//设备类型* **"devPro"**: { *//设备属性* **ast**: **"123"**, *//送风温度* **sdh**: **"23"**, *//送风湿度* **rat**: **"123"**, *//回风温度* **rah**: **"123"**, *//回风湿度* **ht**: **"123"**, *//加热温度* **curCC**: **"22"**, *//当前冷量* **maxCC**: **"22"**, *//最大冷量* **fans**: **"-1"**, *//风机转数* **maxNOR**: **"22"**, *//最大转数* **wvod**: **"-1"**, *//水阀开度* **wf**: **"22"**, *//水流量* **ope**: **"22"**, *//运行效率* **powercons**: **"22"**, *//功耗* **hstate**: **"22"**, *//加湿器状态* **openstate**: **"22"** *//开关机状态* }  
  
},  
 {  
 **"devName"**: **"test"**, *//设备名称* **"devType"**: **"pac"**, *//设备类型* **"devPro"**: { *//设备属性* **ast**: **"123"**, *//送风温度* **sdh**: **"23"**, *//送风湿度* **rat**: **"123"**, *//回风温度* **rah**: **"123"**, *//回风湿度* **ht**: **"123"**, *//加热温度* **curCC**: **"22"**, *//当前冷量* **maxCC**: **"22"**, *//最大冷量* **fans**: **"-1"**, *//风机转数* **maxNOR**: **"22"**, *//最大转数* **wvod**: **"-1"**, *//水阀开度* **wf**: **"22"**, *//水流量* **ope**: **"22"**, *//运行效率* **powercons**: **"22"**, *//功耗* **hstate**: **"22"**, *//加湿器状态* **openstate**: **"22"** *//开关机状态* }  
  
 }];

**$**.post(**"/operatemongo/operate"**, { **"collectionname": "devices**

**"**,**"opratetype"**:**"insertMany"**,**'operateJson'**:***oprateJson*** },  
 **function**(result){  
  **console.log(JSON.stringify(result)**);  
 }, **"json"**);

result：

* 类型：JSON 对象
* 内部字段：data 返回的数据，status 返回的操作结果(1为成功，0为失败(失败暂时没有测试到返回))

**{"data":[{"devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"},"\_id":"598817354b62c12ef0adcc7b"},{"devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"},"\_id":"598817354b62c12ef0adcc7c"}],"status":1}**

**query：**

**var *oprateJson* = {};  
  
  
*$*.post("/operatemongo/operate", {  
 "collectionname": "devices",  
 "opratetype": "query",  
 'operateJson': *oprateJson*,  
 'operateJsonAppend': {  
 skip:3,  
 limit:3,  
 csort:{"\_id":1}  
 }  
  
 },  
 function (data) {  
 console.log(*JSON*.stringify(data));  
  
 }, "json");**

result：

* 类型：JSON 对象
* 内部字段：data 返回的数据，status 返回的操作结果(1为成功，0为失败(失败暂时没有测试到返回))

**{"data":[{"\_id":"5987f3a3e5b204042c4b3e53","devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"}},{"\_id":"5987f3df3654fe077448856b","devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"}},{"\_id":"5987f3fae4f23c21a8c3f147","devName":"test","devType":"pac","devPro":{"ast":"123","sdh":"23","rat":"123","rah":"123","ht":"123","curCC":"22","maxCC":"22","fans":"-1","maxNOR":"22","wvod":"-1","wf":"22","ope":"22","powercons":"22","hstate":"22","openstate":"22"}}],"status":1}**

**queryLenght:**

**var *oprateJson* = {'devType':"pac"};  
  
  
 *$*.post("/operatemongo/operate", {  
 "collectionname": "devices",  
 "opratetype": "queryLength",  
 'operateJson': *oprateJson* },  
 function (data) {  
 console.log(*JSON*.stringify(data));  
  
 }, "json");**

result：

* 类型：JSON 对象
* 内部字段：length返回的数据长度

**{"length":6}**

**modify：**

***//多条or单条更新  
var oprateJson = { "devType" : "pac"};  
var oprateJsonAppend={$set:{ "devName" : "test222", "devType" : "pac","devPro":{ss:33,dd:44},newData:"15"}}***

**说明：oprateJson为条件过滤，oprateJsonAppend为需要修改的地方，**

**嵌套类的如"devPro":{ss:33,dd:44}，不可修改局部，修改就是把devPro的下级全部修改，newData:"15"这种没有存在于原来的document中的对象，会插入进去**

***$.post("/operatemongo/operate", { "collectionname": "devices","opratetype":"modify",'operateJson':oprateJson ,'operateJsonAppend':oprateJsonAppend},  
 function(result){  
 console.log(JSON.stringify(result)  
 );  
 }, "json");***

result：

* 类型：JSON 对象
* 内部字段：**n代表满足条件的数据，nModified代表更新了的数目（原有数据和修改数据一致的话不会修改数据，nModified就为0，一般会等于n），ok代表状态，1为成功**
* 不适用于通过ObjectId做修改的方法，objectid的方法参见**/operatemongo/objectid/operate**

**{"n":34,"nModified":0,"ok":1}**

**delete：**

**说明：oprateJson为条件过滤，**

**var *oprateJson*** = { **"devType"** : **"pac2"**};  
  
***$***.post(**"/operatemongo/operate"**, { **"collectionname"**: **"devices"**,**"opratetype"**:**"delete"**,**'operateJson'**:***oprateJson***},  
 **function**(result){  
 **console**.log(***JSON***.stringify(result)  
 );  
 }, **"json"**);

result：

* 类型：JSON 对象
* 内部字段：**n代表满足条件的数据， ok代表状态，1为成功**

不适用于通过ObjectId做删除的方法，objectid的方法参见**/operatemongo/objectid/operate**

* **{"n":1,"ok":1}**

**关于datatables的serverside方式post请求格式**

**原始请求url**

**/queryDataForTables/:collection/:opratekey/:opratevalue/:searchTextArr**

**Params**

collection：

* 类型：字符串
* 默认值：无
* 描述：collection 名称

opratekey：

* 类型：字符串
* 默认值：无
* 描述：和opratevalue组成{ opratekey :opratevalue}查询条件json

请参看mongodb的find说明，设计仓促，暂时只支持单项查询{key:value }，不支持{key:value,key1:value1}的方式，待后续改进

opratevalue:

* 类型：字符串
* 默认值：无
* 描述：操作传入的json的一部分，见opratekey

searchTextArr :

* 类型：字符串
* 默认值：null
* 描述：描述用来匹配datatables的search框的列名，用-分开，

如果只有一个列名需要匹配，则不用-，例如**devName-devType**

**代表，devName和devType两个key需要和search框中的检索条件吻合**

**例子：**

**/operatemongo/queryDataForTables/devices/devType/pac/devName-devType**

***$*(*document*).ready(function () {  
 *$*('#example').dataTable({  
 "processing": true,  
 "serverSide": true,  
 "ajax": {"url": "/operatemongo/queryDataForTables/devices/devType/pac/devName-devType", "type": "POST"},  
 "columns": [  
 { "data": "devName" },  
 { "data": "devType" },  
 { "data": "devPro.ast" },  
 { "data": "devPro.sdh" },  
 { "data": "devPro.rat" }  
 ]  
 });  
});**

**关于适用ObjectId去修改删除和查询的方法(post)**

**Params**

collectionname：

* 类型：字符串
* 默认值：无
* 描述：collection 名称

opratetype：

* 类型：字符串
* 默认值：无
* 描述：insertOne,insertMany,query,modify,delete

operateJson:

* 类型：json
* 默认值：无
* 描述：操作传入的json

operateJsonAppend (可选):

* 类型：json
* 默认值：null
* 描述：操作传入的第二个json，用于modify中修改成的部分

**查询：（opratetype：queryByObjectId）**

**var *oprateJson*** = { **"\_id"** : **"5987f3fae4f23c21a8c3f147"**};  
  
  
***$***.post(**"/operatemongo/objectid/operate"**, { **"collectionname"**: **"devices"**,**"opratetype"**:**"queryByObjectId"**,**'operateJson'**:***oprateJson***},  
 **function**(result){  
 **console**.log(***JSON***.stringify(result)  
 );  
 }, **"json"**);

**result：**

**{"data":[{"\_id":"5987f3fae4f23c21a8c3f147","devName":"test222","devType":"pac","devPro":{"ss":"33","dd":"44"},"devName222":"test222","newData":"15"}],"status":1}**

**修改：（opratetype：modifyByObjectId）**

**var *oprateJson*** = { **"\_id"** : **"5987f3fae4f23c21a8c3f147"**};  
  
**var *oprateJsonAppend***={**$set**:{ **"devName"** : **"test"**, **"devType"** : **"pactype"**,**"devPro"**:{**ss**:22,**dd**:11},**newData**:**"18"**}}  
  
***$***.post(**"/operatemongo/objectid/operate"**, { **"collectionname"**: **"devices"**,**"opratetype"**:**"modifyByObjectId"**,**'operateJson'**:***oprateJson*** ,**'operateJsonAppend'**:***oprateJsonAppend***},  
 **function**(result){  
 **console**.log(***JSON***.stringify(result)  
 );  
 }, **"json"**);

**result:**

**{"n":1,"nModified":1,"ok":1}**

**var *oprateJson*** = { **"\_id"** : **"5987f3fae4f23c21a8c3f147"**};  
***$***.post(**"/operatemongo/objectid/operate"**, { **"collectionname"**: **"devices"**,**"opratetype"**:**"deleteByObjectId"**,**'operateJson'**:***oprateJson***},  
 **function**(result){  
 **console**.log(***JSON***.stringify(result)  
 );  
 }, **"json"**);

**result:**

**删除：（opratetype：deleteByObjectId）**

**{"n":1,"ok":1}**