实验助手接口文档

最终都需要将IP地址换成服务IP地址

操作最终返回的数据格式：

|  |  |
| --- | --- |
|  | **说明** |
| code | 1：表示此次操作不存在异常，有可能返回空的数据  0：表示此次操作有误 |
| msg | 返回的消息 |
| data | 存放数据信息 |

# 1. 登录/注册模块

## 1.1 登录

URL：[http://172.18.1.55:8080/LabAssistant/login](http://172.18.0.55:8080/LabAssistant/login)；

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| nickName | 用户名 |
| pwd | 密码 |

返回成功：{"userID":"4028c681494b994701494b99aba50000","code":"1","msg":"操作成功！"}

返回错误：{"code":"0","msg":"用户名或密码错误"}

## 1.2 注册

URL：[http://172.18.1.55:8080/LabAssistant/register](http://172.18.0.55:8080/LabAssistant/register)；

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| nickName | 用户昵称 |
| pwd | 用户密码 |
| eMail | 邮箱 |
| telNo | 手机号 |
| provinceID | 省份 |
| cityID | 城市 |
| collegeID | 院校 |
| labName | 实验室名称 |
| majorID | 专业 |
| educationID | 学历 |
| titleID | 职称 |
| nState | 用户状态 0-正常，1-禁用 |
| nSource | 注册来源 0-注册，1-微信，2-微博，3-QQ |

返回成功：{"code":"1","msg":"操作成功！"}

返回错误：{"code":"0","msg":具体的错误原因}

## 1.3 获取省份和城市对应列表

URL：http://172.18.1.55:8080/LabAssistant/myInfo/provinceAndCity

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{

"data": [

{

"cities": [

{

"cityID": "7828c681494b994701494b00aba50000",

"provinceID": "7728c681494b994701494b00aba50000",

"cityName": "温州市"

},

{

"cityID": "7828c681494b994701494b00aba51111",

"provinceID": "7728c681494b994701494b00aba50000",

"cityName": "杭州市"

}

],

"provinceName": "浙江省"

},

{

"cities": [],

"provinceName": "上海市"

}

],

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| provinceName | 省份名称 |
| cityID | 城市唯一标识 |
| **provinceID** | 省份唯一标识 |
| **cityName** | 城市名 |

返回错误：{"code":"0","msg":” 获取省市对应列表失败”}

# 2. 地图模块

## 2.1 获取附近用户

URL：[http://172.18.1.55:8080/LabAssistant/map/around?userID=4028c681494b994701494b99aba50000&longitude=121.43700242034244&latitude=31.18441638587652](http://172.18.0.55:8080/LabAssistant/map/around?userID=4028c681494b994701494b99aba50000&longitude=121.43700242034244&latitude=31.18441638587652)

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | 用户登录时所获取的唯一标识 |
| **longitude** | 用户所在的经度 |
| **latitude** | 用户所在的纬度 |

返回成功：{"aroundUser":[{"mapID":"2c9283f54fcf29b3014fcf29cfdd0000","userID":"2c9283f54fcf29b3014fcf2a3f530001","longitude":"121.43760323516177","latitude":"31.18471009979488","reagentName":"洗涤液","distance":65.0},{"mapID":"2c9283f54fcf29b3014fcf2a915f0002","userID":"2c9283f54fcf29b3014fcf2abba70003","longitude":"121.4375174044733","latitude":"31.184416385875302","reagentName":"封闭液","distance":49.0},{"mapID":"2c9283f54fcf29b3014fcf2ac4bb0004","userID":"2c9283f54fcf29b3014fcf2b23e50005","longitude":"121.44498467437076","latitude":"31.189335973819038","reagentName":"显色剂","distance":936.0}]}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| mapID | 地图唯一标识 |
| userID | 用户唯一标识 |
| **longitude** | 用户所在的经度 |
| **latitude** | 用户所在的纬度 |
| reagentName | 试剂名称 |
| distance | 距离 |

返回错误：{"code":"0","msg":"获取周围数据错误"}

# 3.实验模块

## 3.1 加载已完成列表

URL: http://172.18.1.55:8080/LabAssistant/lab/getComplete?userID=4028c681494b994701494b99aba50000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | 用户登录时所获取的唯一标识 |

返回成功：

{"data":[{"experimentName":"ELISA检测血清TNF-b浓度","myExpID":"4039c681494b994701494b99aba51237","expState":"2","expInstructionID":"4028c681494b994701494b99bab61111"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| myExpID | 实验唯一标识 |
| expInstructionID | 说明书唯一标识 |
| experimentName | 实验名称 |
| expState | 实验所处的状态实验状态，0-进行中，1-暂停中，2-已完成，3-已生成报告 |

返回错误：{"code":"0","msg":"获取已完成实验列表出错"}

## 3.2 加载正在进行实验列表

URL: http://172.18.1.55:8080/LabAssistant/lab/getDoing?userID=4028c681494b994701494b99aba50000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | 用户登录时所获取的唯一标识 |

返回成功：

{"data":[{"experimentName":"ELISA检测血清TNF-a浓度","myExpID":"4039c681494b994701494b99aba51236","expState":"0","expInstructionID":"4028c681494b994701494b99bab60000"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| myExpID | 实验唯一标识 |
| expInstructionID | 说明书唯一标识 |
| experimentName | 实验名称 |
| expState | 实验所处的状态，0-进行中，1-暂停中，2-已完成，3-已生成报告 |

返回错误：{"code":"0","msg":"获取正在进行的实验列表出错"}

## 3.3 获取实验或说明书下所有的实验步骤

URL: [http://172.18.1.55:8080/LabAssistant/lab/getAllProcessExceptComplete?userID=4028c681494b994701494b99aba50000&myExpID=4039c681494b994701494b99aba51236&expInstructionID=4028c681494b994701494b99bab60000&expState=1](http://172.18.0.55:8080/LabAssistant/lab/getAllProcessExceptComplete?userID=4028c681494b994701494b99aba50000&myExpID=4039c681494b994701494b99aba51236&expInstructionID=4028c681494b994701494b99bab60000&expState=1)

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | 用户登录时所获取的唯一标识 |
| **myExpID** | 实验唯一标识 |
| expInstructionID | 说明书唯一标识 |
| expState | 实验所处的状态 |

返回成功：

{"data":{"experimentName":"ELISA检测血清TNF-a浓度","steps":[{"stepNum":"1","stepDesc":"用包被缓冲液溶解抗原，使抗原浓度为10-20 μg/ml，加100 μl/孔，4℃放置"},{"stepNum":"2","stepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡"},{"stepNum":"3","stepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡"},{"stepNum":"4","stepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡"},{"stepNum":"5","stepDesc":"每孔加入150 μl 1％ BSA 37℃封闭1 小时"},{"stepNum":"6","stepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡"}]},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| experimentName | 实验名称 |
| steps | 实验步骤 |

返回错误：{"code":"0","msg":"获取实验下所有步骤出错"}

## 3.4 获取热门说明书

URL：http://172.18.1.55:8080/LabAssistant/lab/getHotInstructions?returnLimit=2

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| returnLimit | 可选，限制返回的条数，默认10条 |

返回成功：

{"data":[{"expInstructionID":"4028c681494b994701494b99bab61111","experimentName":"ELISA检测血清TNF-b浓度","downloadCount":20,"reviewCount":0,"nDaysAgo":"2天"},{"expInstructionID":"4028c681494b994701494b99bab60000","experimentName":"ELISA检测血清TNF-a浓度","downloadCount":7,"reviewCount":0,"nDaysAgo":"2天"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | 说明书唯一标识 |
| experimentName | 说明书名称 |
| downloadCount | 下载量 |
| reviewCount | 评论量 |
| nDaysAgo | N天前创建的 |

返回错误：{"code":"0","msg":"无法获取热门说明书"}

## 3.5 获取说明书下的详细信息

URL：http://172.18.1.55:8080/LabAssistant/lab/getInstructionDetail?userID=4028c681494b994701494b99aba50000&expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |
| expInstructionID | 说明书唯一标识 |

返回成功：

{"data":{"expInstructionID":"4028c681494b994701494b99bab60000","experimentName":"ELISA检测血清TNF-a浓度","supplierName":"海尔","productNum":"hhd","instructState":"未下载","experimentDesc":"我也不知道","experimentTheory":"还是不知道","steps":[{"expStepID":"4028c681494b994701494b99bab70000","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":1,"expStepDesc":"用包被缓冲液溶解抗原，使抗原浓度为10-20 μg/ml，加100 μl/孔，4℃放置","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70001","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":2,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70002","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":3,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70003","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":4,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70004","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":5,"expStepDesc":"每孔加入150 μl 1％ BSA 37℃封闭1 小时","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70005","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":6,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0}]},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | 说明书唯一标识 |
| experimentName | 说明书名称 |
| supplierName | 供应商名称—厂商（在返回的字段中和provideUser就存在一个，即若说明书是厂商提供的返回supplierName，若说明书是个人提供的返回provideUser） |
| provideUser | 提供者—个人 |
| productNum | 货号 |
| instructState | 说明书的状态 下载，未下载 |
| experimentDesc | 实验简介 |
| experimentTheory | 实验原理 |
| steps | 实验步骤 |

返回错误：{"code":"0","msg":"获取说明书详细信息出错"}

## 3.6 下载实验说明书

URL：http://172.18.1.55:8080/LabAssistant/lab/downloadInstruction?userID=4028c681494b994701494b99aba50000&expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |
| expInstructionID | 说明书唯一标识 |

返回成功：就是将实验说明书主表，实验试剂表，实验耗材表，实验设备表，实验详细流程表中相关记录的所有字段返回

{"data":{"expInstructionMain":{"expInstructionID":"4028c681494b994701494b99bab60000","experimentName":"ELISA检测血清TNF-a浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd","expCategoryID":"1","expSubCategoryID":"11","createDate":1442332800000,"expVersion":1,"allowDownload":1,"filterStr":"","reviewCount":0,"downloadCount":8},"expProcess":[{"expStepID":"4028c681494b994701494b99bab70000","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":1,"expStepDesc":"用包被缓冲液溶解抗原，使抗原浓度为10-20 μg/ml，加100 μl/孔，4℃放置","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70001","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":2,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70002","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":3,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70003","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":4,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70004","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":5,"expStepDesc":"每孔加入150 μl 1％ BSA 37℃封闭1 小时","expStepTime":10.0},{"expStepID":"4028c681494b994701494b99bab70005","expInstructionID":"4028c681494b994701494b99bab60000","stepNum":6,"expStepDesc":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","expStepTime":10.0}],"expReagent":[{"expReagentID":"4028c681494b994701494b99aba50000","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"111","reagentName":"洗涤液","reagentCommonName":"洗涤液","reagentSpec":"洗涤液","useAmount":50,"createMethod":"洗涤液"},{"expReagentID":"4028c681494b994701494b99aba50001","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"112","reagentName":"洗涤液1","reagentCommonName":"洗涤液1","reagentSpec":"洗涤液1","useAmount":500,"createMethod":"洗涤液1"},{"expReagentID":"4028c681494b994701494b99aba50002","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"113","reagentName":"洗涤液2","reagentCommonName":"洗涤液2","reagentSpec":"洗涤液2","useAmount":60,"createMethod":"洗涤液2"}],"expConsumable":[{"expConsumableID":"4028c791494b994701494b99aba50000","expInstructionID":"4028c681494b994701494b99bab60000","consumableID":"111","consumableType":"96T","consumableCount":2,"consumableFactory":"不知道"}],"expEquipment":[{"expEquipmentID":"4028c791564b994701494b99aba50000","expInstructionID":"4028c681494b994701494b99bab60000","equipmentID":"222","equipmentName":"4℃冰箱","equipmentFactory":"海尔"},{"expEquipmentID":"4028c791564b994701494b99aba50001","expInstructionID":"4028c681494b994701494b99bab60000","equipmentID":"223","equipmentName":"恒温培养箱","equipmentFactory":"上海一恒"},{"expEquipmentID":"4028c791564b994701494b99aba50002","expInstructionID":"4028c681494b994701494b99bab60000","equipmentID":"224","equipmentName":"酶标仪","equipmentFactory":"Tecan 200"}]},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionMain | 对应实验说明书主表中的记录 |
| expProcess | 对应实验详细流程表中的记录 |
| expReagent | 对应实验试剂表中的记录 |
| expEquipment | 对应实验设备表中的记录 |
| expConsumable | 对应实验耗材表中的记录 |

返回错误：{"code":"0","msg":"下载说明书出错"}

## 3.7 获取实验一级分类列表

URL：http://172.18.1.55:8080/LabAssistant/expCategory/allExpCategory

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
|  |  |
|  |  |

返回成功：

{"msg":"操作成功！","data":[{"expCategoryID":"24201826039496705","expCategoryName":"DNA实验技术"},{"expCategoryID":"24201826039496706","expCategoryName":"RNA实验技术"},{"expCategoryID":"24201826039496707","expCategoryName":"感受态细胞的制备及其转化"},{"expCategoryID":"24201826039496708","expCategoryName":"PCR技术"},{"expCategoryID":"24201826039496709","expCategoryName":"蛋白质技术"}],"code":"1"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expCategoryID | 实验一级分类ID |
| expCategoryName | 实验一级分类名称 |

返回错误：{"code":"0","msg":"获取实验一级分类出错"}

## 3.8 获取实验二级分类列表

URL：http://172.18.1.55:8080/LabAssistant/expCategory/getSubCategoryByPID?expCategoryID=24201826039496705

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expCategoryID | 实验一级分类ID |
|  |  |

返回成功：

{"msg":"操作成功！","data":[{"expSubCategoryID":"24201826039496710","expSubCategoryName":"DNA蛋白相互作用","expCategoryID":"24201826039496705"},{"expSubCategoryID":"24201826039496711","expSubCategoryName":"DNA原位杂交技术","expCategoryID":"24201826039496705"},{"expSubCategoryID":"24201826039496712","expSubCategoryName":"DNA基础知识","expCategoryID":"24201826039496705"},{"expSubCategoryID":"24201826039496713","expSubCategoryName":"DNA测序","expCategoryID":"24201826039496705"}],"code":"1"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expSubCategoryID | 实验二级分类ID |
| expSubCategoryName | 实验二级分类名称 |
| expCategoryID | 实验一级分类ID |

返回错误：{"code":"0","msg":"获取实验二级分类出错"}

## 3.9 根据实验二级分类获取实验说明书列表

URL：http://172.18.1.55:8080/LabAssistant/lab/getInstructionsBySubCategoryID?expSubCategoryID=24201826039496710

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expSubCategoryID | 实验二级分类ID |
|  |  |

返回成功：

{"msg":"操作成功！","data":[{"expInstructionID":"4028c681494b994701494b99bab60000","experimentName":"ELISA检测血清TNF-a浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd","expCategoryID":"24201826039496705","expSubCategoryID":"24201826039496710","createDate":1442332800000,"expVersion":1,"allowDownload":1,"filterStr":"","reviewCount":0,"downloadCount":0},{"expInstructionID":"4028c681494b994701494b99bab61111","experimentName":"ELISA检测血清TNF-b浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd","expCategoryID":"24201826039496705","expSubCategoryID":"24201826039496710","createDate":1442332800000,"expVersion":1,"allowDownload":1,"filterStr":"","reviewCount":0,"downloadCount":20}],"code":"1"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | 实验说明书ID |
| experimentName | 实验说明书名称 |
| experimentDesc | 实验说明书描述 |
| experimentTheory | 实验说明书原理 |
| provideUser | 作者 |
| supplierID | 供应商ID |
| supplierName | 供应商名称 |
| productNum | 货号 |
| expSubCategoryID | 实验二级分类ID |
| expCategoryID | 实验一级分类ID |
| createDate | 创建日期 |
| expVersion | 版本号 |
| allowDownload | 是否允许下载，0-否，1-是 |
| filterStr | 组合查找字段 |
| reviewCount | 评论数 |
| downloadCount | 下载数 |

返回错误：{"code":"0","msg":"获取实验列表出错"}

## 3.10 获取实验计划列表

URL：http://172.18.1.55:8080/LabAssistant/lab/getMyExpPlan?userID=4028c681494b994701494b99aba50000&date=2015-09-21

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| userID | 用户唯一标识 |
| **date** | 查询的日期，格式2015-09-21 |

返回成功：

{"data":[{"experimentName":"我也不知道","expInstructionID":"4028c681494b994701494b99bab60000"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | 实验说明书ID |
| experimentName | 实验说明书名称 |

返回错误：{"code":"0","msg":"获取实验计划失败"}

## 3.11 设置实验计划

URL：http://172.18.1.55:8080/LabAssistant/lab/setMyExpPlan?userID=4028c681494b994701494b99aba50000&date=2015-10-08&expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| userID | 用户唯一标识 |
| expInstructionID | 说明书唯一字段 |
| experimentName | 可选字段，说明书名称 |
| **date** | 计划的日期，格式2015-09-21 |

返回成功：

{

"data": "",

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"设置实验计划失败"}

## 3.12设置每步实验步骤备注

URL：http://172.18.1.55:8080/LabAssistant/lab/perProcessMemo?myExpID=4039c681494b994701494b99aba51236&expStepID=4028c681494b994701494b00bab62222&processMemo=fffff

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| myExpID | 实验唯一标识 |
| expStepID | 每步实验步骤唯一标识 |
| processMemo | 备注信息 |

返回成功：

{"data":"","code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"设置实验步骤备注失败"}

## 3.13获取每步实验步骤备注

URL：http://172.18.1.55:8080/LabAssistant/lab/getPerProcessMemo?myExpID=4039c681494b994701494b99aba51236&expStepID=4028c681494b994701494b00bab62222

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| myExpID | 实验唯一标识 |
| expStepID | 每步实验步骤唯一标识 |

返回成功：

{"data":{"processMemo":"fffff","expStepID":"4028c681494b994701494b00bab62222"},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expStepID | 每步实验步骤唯一标识 |
| processMemo | 备注信息 |

返回错误：{"code":"0","msg":"获取实验步骤备注失败"}

## 3.14 获取实验评论列表

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewList?expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |

返回成功：

{"data":[{"reviewInfo":"这到底是什么鬼","nickName":"admin","reviewDate":"2015-09-22"},{"reviewInfo":"这到底是什么鬼","nickName":"admin","reviewDate":"2015-09-22"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| reviewInfo | 评论内容 |
| nickName | 评论者 |
| reviewDate | 评论日期 |

返回错误：{"code":"0","msg":"获取评论列表失败"}

## 3.15 对实验进行评论

URL：[http://172.18.1.55:8080/LabAssistant/lab/responseReview?expInstructionID=4028c681494b994701494b99bab60000&reviewerID=4028c681494b994701494b99aba50000&reviewInfo](http://172.18.0.55:8080/LabAssistant/lab/responseReview?expInstructionID=4028c681494b994701494b99bab60000&reviewerID=4028c681494b994701494b99aba50000&reviewInfo)=这是什么鬼&expScore=2

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |
| reviewerID | 用户唯一标识 |
| reviewInfo | 评论的内容 |
| expScore | 总评分 |

返回成功：

{"data":"","code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"对实验进行评论失败"}

## 3.16 对评论点赞同

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewAgree?expReviewID=4045c791564b994701494b99aba50001

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expReviewID | 评论唯一标识 |

返回成功：

{"data":{"agreeCount":7},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| agreeCount | **赞同数** |

返回错误：{"code":"0","msg":"点赞同失败"}

## 3.17 对评论点不赞同

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewDisagree?expReviewID=4045c791564b994701494b99aba50001

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expReviewID | 评论唯一标识 |

返回成功：

{"data":{"disagreeCount":1},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| disagreeCount | **不赞同数** |

返回错误：{"code":"0","msg":"点不赞同失败"}

## 3.18 获取实验所需的试剂

URL：http://172.18.1.55:8080/LabAssistant/lab/allReagents?expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |

返回成功：

{"data":[{"expReagentID":"4028c681494b994701494b99aba50000","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"111","reagentName":"洗涤液","reagentCommonName":"洗涤液","reagentSpec":"洗涤液","useAmount":50,"createMethod":"洗涤液"},{"expReagentID":"4028c681494b994701494b99aba50001","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"112","reagentName":"洗涤液1","reagentCommonName":"洗涤液1","reagentSpec":"洗涤液1","useAmount":500,"createMethod":"洗涤液1"},{"expReagentID":"4028c681494b994701494b99aba50002","expInstructionID":"4028c681494b994701494b99bab60000","reagentID":"113","reagentName":"洗涤液2","reagentCommonName":"洗涤液2","reagentSpec":"洗涤液2","useAmount":60,"createMethod":"洗涤液2"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | **说明书唯一标识** |
| reagentID | **试剂唯一标识** |
| reagentName | **试剂名称** |
| reagentCommonName | **试剂通用名称** |
| reagentSpec | **规格** |
| useAmount | **单次用量** |
| createMethod | **配置方法** |

返回错误：{"code":"0","msg":"获取实验所有试剂出错"}

## 3.19 获取实验试剂及对应的厂商

URL：http://172.18.1.55:8080/LabAssistant/lab/reagentAndSupplier?expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |

返回成功：

{"data":[{"supplierName":["海尔"],"reagentName":"洗涤液2"},{"supplierName":["海尔"],"reagentName":"洗涤液2"},{"supplierName":["海尔"],"reagentName":"洗涤液2"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| reagentName | **试剂名称** |
| supplierName | **对应的厂商** |

返回错误：{"code":"0","msg":"获取实验试剂及对应的提供商出错"}

## 3.20 获取实验试剂及对应的用量

URL：http://172.18.1.55:8080/LabAssistant/lab/perAmount?expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |

返回成功：

{"data":[{"reagentName":"洗涤液2","useAmount":60},{"reagentName":"洗涤液2","useAmount":60},{"reagentName":"洗涤液2","useAmount":60}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| reagentName | **试剂名称** |
| useAmount | **对应的用量** |

返回错误：{"code":"0","msg":"获取实验试剂及对应的用量出错"}

## 3.21 根据输入的查询条件筛选实验说明书

URL：http://172.18.1.55:8080/LabAssistant/lab/getInstructionsByFilter?filterStr=海尔

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| filterStr | 查询条件，可以是实验名称、供应商名称、货号、作者名 |

返回成功：

{"msg":"操作成功！","data":[{"expInstructionID":"4028c681494b994701494b99bab60000","experimentName":"ELISA检测血清TNF-a浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd1","expCategoryID":"24201826039496705","expSubCategoryID":"24201826039496710","createDate":"2015-09-16 00:00:00","expVersion":1,"allowDownload":1,"filterStr":"|海尔|hhd1|","reviewCount":0,"downloadCount":15},{"expInstructionID":"4028c681494b994701494b99bab61111","experimentName":"ELISA检测血清TNF-b浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"jimmie","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd1","expCategoryID":"24201826039496705","expSubCategoryID":"24201826039496710","createDate":"2015-09-16 00:00:00","expVersion":1,"allowDownload":1,"filterStr":"|海尔|hhd1|jimmie|","reviewCount":0,"downloadCount":33},{"expInstructionID":"4028c681494b994701494b99bab62222","experimentName":"ELISA检测血清TNF-c浓度","experimentDesc":"我也不知道","experimentTheory":"还是不知道","provideUser":"","supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","productNum":"hhd2","expCategoryID":"24201826039496706","expSubCategoryID":"24201826039496714","createDate":"2015-09-16 00:00:00","expVersion":1,"allowDownload":1,"filterStr":"|海尔|hhd2|","reviewCount":0,"downloadCount":8}],"code":"1"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expInstructionID | 实验说明书ID |
| experimentName | 实验说明书名称 |
| experimentDesc | 实验说明书描述 |
| experimentTheory | 实验说明书原理 |
| provideUser | 作者 |
| supplierID | 供应商ID |
| supplierName | 供应商名称 |
| productNum | 货号 |
| expSubCategoryID | 实验二级分类ID |
| expCategoryID | 实验一级分类ID |
| createDate | 创建日期 |
| expVersion | 版本号 |
| allowDownload | 是否允许下载，0-否，1-是 |
| filterStr | 组合查找字段 |
| reviewCount | 评论数 |
| downloadCount | 下载数 |

返回错误：{"code":"0","msg":"获取实验列表出错"}

## 3.22 上传每步实验步骤所拍的照片

URL：[http://172.18.1.55:8080/LabAssistant/upload/perExpProcessImgs](http://172.18.0.55:8080/LabAssistant/upload/perExpProcessImgs)

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| myExpID | 实验唯一标识 |
| expStepID | 实验步骤唯一标识 |
| file | File类型，上传的图片 |

返回成功：

{"data":[{"imgUrl":"http://172.18.1.55:8080/LabAssistant/upload/images/20150925/1443147355701.png","myExpProcessAttchID":"2c9280b7500243c10150024909220000"},{"imgUrl":"http://172.18.1.55:8080/LabAssistant/upload/images/20150925/1443147352934.png","myExpProcessAttchID":"2c9280b7500243c10150024909680001"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| myExpProcessAttchID | 图片唯一标识 |
| imgUrl | 图片路径 |

返回错误：{"code":"0","msg":"上传图片失败"}

## 3.23 同步实验部分

URL：http://172.18.1.55:8080/LabAssistant/sync/pushMyExp

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| json | 我的实验相关的表:我的实验主表（“myExp”），我的实验试剂表(“myExpReagent”)，我的实验耗材表(“myExpConsumable”)，我的实验设备表(“myExpEquipment”)，我的实验步骤表(“myExpProcess”)，我的实验计划表(“myExpPlan”)，我的实验步骤附件表（这张表通过图片上传的接口来实现同步）.PS json格式同下载说明书的json格式。表后括号内为json格式内请求的字段。 |

返回成功：

{"data":"","code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"同步我的实验失败"}

## 3.24 推送试剂/试剂厂商等数据

URL：http://172.18.1.55:8080/LabAssistant/sync/pullCommon

### 请求方式

Get

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":{"consumableMap":[],"consumable":[],"reagent":[{"reagentID":"111","reagentName":"洗涤液","reagentCommonName":"洗涤液","levelOneSortID":"11","levelTwoSortID":"1","originPlace":"","productNo":"","agents":"","specification":"","price":20,"chemicalName":"","casNo":"","arrivalDate":"2016-09-10","memo":""},{"reagentID":"112","reagentName":"洗涤液1","reagentCommonName":"洗涤液1","levelOneSortID":"11","levelTwoSortID":"1","originPlace":"","productNo":"","agents":"","specification":"","price":20,"chemicalName":"","casNo":"","arrivalDate":"2016-09-10","memo":""},{"reagentID":"113","reagentName":"洗涤液2","reagentCommonName":"洗涤液2","levelOneSortID":"11","levelTwoSortID":"1","originPlace":"","productNo":"","agents":"","specification":"","price":20,"chemicalName":"","casNo":"","arrivalDate":"2016-09-10","memo":""}],"equipmentMap":[],"equipment":[],"reagentMap":[{"reagentMapID":"4028c681494b994701494b00aba50000","reagentID":"111","supplierID":"4037d681494b994701494b99aba50000","isSuggestion":0},{"reagentMapID":"4028c681494b994701494b00aba51111","reagentID":"112","supplierID":"4037d681494b994701494b99aba50000","isSuggestion":0},{"reagentMapID":"4028c681494b994701494b00aba52222","reagentID":"113","supplierID":"4037d681494b994701494b99aba50000","isSuggestion":0}],"supplier":[{"supplierID":"4037d681494b994701494b99aba50000","supplierName":"海尔","supplierType":0,"contacts":"Li","telNo":"18000000000","mobilePhone":"18000000000","eMail":"","address":""}]},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| **reagent** | **对应试剂表** |
| **reagentMap** | **对应试剂厂商表** |
| **equipment** | **对应设备表** |
| **equipmentMap** | **对应设备厂商表** |
| **consumable** | **对应耗材表** |
| **consumableMap** | **对应耗材厂商表** |
| **supplier** | **对应厂商表** |

返回错误：{"code":"0","msg":"推送失败"}

## 3.24 推送全部数据

URL：http://172.18.1.55:8080/LabAssistant/sync/pullAllDatas?userID=4028c681494b994701494b99aba50000

### 请求方式

Get

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |

返回成功：

数据太多，不粘帖了

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| **expInstructions** | **结构跟**[**下载说明书**](#_3.6_下载实验说明书)**类似** |
| **myExps** | **结构跟[我的实验部分](#_返回字段说明)类似** |
| **myExpPlan** | **对应我的实验计划表** |

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| **myExpProcess** | **对应我的实验步骤表** |
| **myExpEquipment** | **对应我的实验设备表** |
| **myExpProcessAttch** | **对应我的实验步骤附件表** |
| **myExpConsumable** | **对应我的实验耗材表** |
| **myExpReagent** | **对应我的实验试剂表** |
| **myExp** | **对应我的实验主表** |

返回错误：{"code":"0","msg":"推送失败"}

# 4.学术圈

## 4.1 抓取网站数据

URL：http://172.18.1.55:8080/LabAssistant/grabNews

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"content":"ERS 会议福利 ：呼吸领域书籍全部限免","url":"http://chest.dxy.cn/article/141817"},{"content":"心肌炎诊治面面观","url":"http://heart.dxy.cn/article/138326"},{"content":"集齐丁香园微信公众号 「丁香紫」手机免费拿！","url":"http://heart.dxy.cn/article/141133"},{"content":"互联网时代的文献学习（普外推书番外篇）","url":"http://surg.dxy.cn/article/141494"},{"content":"互联网重塑大脑?","url":"http://ihealth.dxy.cn/article/22763?trace"},{"content":"招招制敌：搞定 TAVI 术中并发症","url":"http://heart.dxy.cn/article/141652"},{"content":"单孔腹腔镜肚脐切口缝合","url":"http://surg.dxy.cn/article/141074"},{"content":"消化内科升级大牛必读书籍之内镜篇","url":"http://gi.dxy.cn/article/141527"},{"content":"消化频道学霸必读","url":"http://gi.dxy.cn/article/96761?trace"},{"content":"你不知道的事：SGLT2 抑制剂或可促胰高血糖素分泌","url":"http://endo.dxy.cn/article/140629"},{"content":"压疮的预防及护理误区","url":"http://nurs.dxy.cn/article/140902"},{"content":"NICE 指南摘要：褥疮的预防与处理","url":"http://endo.dxy.cn/article/75876?trace"},{"content":"急性胰腺炎罕见病因：胰管蛔虫症","url":"http://gi.dxy.cn/article/140679"},{"content":"婴儿胃壁积气 1 例","url":"http://pediatr.dxy.cn/article/140647"},{"content":"ESC2015：胡大一教授谈双心医学","url":"http://meeting.dxy.cn/specials/esc2015/article/140052"},{"content":"ESC2015：周玉杰教授谈 PCI 治疗","url":"http://meeting.dxy.cn/specials/esc2015/article/139772"},{"content":"ESC 讨论来自中国的顽固性心绞痛病例","url":"http://heart.dxy.cn/article/139686"},{"content":"心脏破裂——心肌梗死的噩梦","url":"http://heart.dxy.cn/article/138729"},{"content":"经硬脊膜性脊髓疝","url":"http://radiol.dxy.cn/article/139062"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| url | **新闻的URL** |
| content | **新闻的标题** |

返回错误：{"code":"0","msg":"获取新闻列表失败"}

## 4.2 获取我的个人基本信息（可能还有导师信息）

URL：http://172.18.1.55:8080/LabAssistant/myInfo/basic?userID=4028c681494b994701494b99aba50000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |

返回成功：

{

"data": {

"email": "12345678@qq.com",

"nickName": "admin",

"college": "",

"province": "",

"education": "",

"telNo": "",

"major": "",

"city": ""

},

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| email | **邮箱** |
| nickName | **用户名** |
| college | **院校（包括院校id和院校名）** |
| province | **省份（类同）** |
| education | **学历（类同）** |
| telNo | **手机号码** |
| major | **专业（类同）** |
| city | **城市（类同）** |

返回错误：{"code":"0","msg":"获取个人基本信息失败"}

## 4.3 修改个人基本信息（可能还有导师信息）

这个接口不允许修改用户名和密码

URL：http://172.18.1.55:8080/LabAssistant/myInfo/edit

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |
| **eMail** | **可选，邮箱** |
| **telNo** | **可选，手机号** |
| collegeID | **可选，院校唯一标识** |
| provinceID | **可选，省份唯一标识** |
| educationID | **可选，学历唯一标识** |
| majorID | **可选，专业唯一标识** |
| cityID | **可选，城市唯一标识** |

返回成功：

{

"data": "",

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"邮箱已被占用"}或

返回错误：{"code":"0","msg":"手机号已被使用"}

## 4.4 修改个人密码

URL：http://172.18.1.55:8080/LabAssistant/myInfo/changePwd

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **userID** | **用户唯一标识** |
| **oldPwd** | **原始密码** |
| **newPwd** | **新的密码** |

返回成功：

{

"data": "",

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"修改密码失败"}

## 4.5 忘记密码

URL：http://172.18.1.55:8080/labassistant/findPwd

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **eMail** | **用户注册时填写的邮箱** |

返回成功：

{

"data": "",

"code": "1",

"msg": "操作成功！"

}

会给用户的邮箱发送一封允许修改密码的邮件。

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |

返回错误：{"code":"0","msg":"发送邮件失败"}