实验助手接口文档

最终都需要将IP地址换成服务IP地址

返回的数据以实际请求的为准

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 |

2015.11.20修改内容：

1. [根据输入的查询条件筛选实验说明书](#_3.26_根据输入的查询条件筛选实验说明书)：增加userID字段，用以过滤不允许下载的说明书部分

2. [根据实验二级分类获取实验说明书列表](#_3.10_根据实验二级分类获取实验说明书列表)：增加userID字段，用以过滤不允许下载的说明书部分

3. [同步说明书部分](#_3.29_同步说明书部分)：增加userID，expInstructionID字段，防止用户修改不属于自己的说明书

2015.11.23 修改内容：

1. [增加获取评论项接口](#_3.35_获取评论项)

2.[增加获取试剂详细信息接口](#_3.36_获取试剂详细信息)

2015.11.27 修改内容：

1. [增加导入省份和城市数据脚本](#_5.1_导入省份和城市数据)

2015.12.02 修改内容：

1. [BBS搜索主题](#_4.6_搜索BBS主题)：以分页的形式展示

2. [BBS获取主题下的评论列表](#_4.8_获取BBS主题下的评论列表)：返回的Json 格式中增加 parentReviewer字段

3. [设置当前用户的试剂](#_2.2_设置当前用户有的试剂)：修改接口逻辑

4. [获取周围用户](#_2.1_获取附近用户)：修改返回的json格式

2015.12.08 修改内容：

1. [修改获取评论项](#_3.35_获取评论项)

2. [修改对实验进行评论](#_3.18_对实验进行评论)

2015.12.09 修改内容：

1.[修改获取评论项](#_3.35_获取评论项)：考虑到后台没有说明书数据，需先上传

2015.12.11 修改内容：

1.修改数据库表结构：冗余一些字段（实验试剂表：LevelOneSortID，LevelTwoSortID，SupplierName；

实验耗材表：SupplierName；实验设备表：SupplierName）（可能会影响说明书下载或同步接口，若没有错误，请忽略。PS：同步接口必须要上传这几个字段）

2016.01.05 修改内容：

1. [检查版本](#_5.12_检查版本)

2. 下载工具链接：<http://172.18.1.55:8080/LabAssistant/tools/ProtocolTools.rar>

3. 修改 [推送试剂/试剂厂商等数据接口](#_3.33_推送试剂/试剂厂商等数据)

# 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：{"data":{"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 第三方登录

URL：http://172.18.1.55:8080/LabAssistant/thirdLogin

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| old\_token | 上一次第三方授权时的凭证，若是第一次授权，则为null |
| new\_token | 此次第三方授权时的凭证 |
| source | 注册来源， 1-微信，2-微博，3-QQ |

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

返回错误：{"code":"0","msg":"第三方登录失败"}

## 1.3 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 | 可选，手机号 |
| provinceID | 可选，省份 |
| cityID | 可选，城市 |
| collegeID | 可选，院校 |
| labName | 可选，实验室名称 |
| majorID | 可选，专业 |
| educationID | 可选，学历 |
| titleID | 可选，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 |
| iconName | 可选，用户头像名称 |
| IconStream | 可选，用户头像二进制流，经过BASE64编码后的字符串 |

返回成功：{"code":"1","msg":"操作成功！",”data”:””}

返回错误：{"code":"0","msg":具体的错误原因}

## 1.4 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”}

## 1.5 获取院校列表

URL：http://172.18.1.55:8080/LabAssistant/myInfo/colleges?provinceID=7728c681494b994701494b00aba50000&cityID=7828c681494b994701494b00aba51111

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| provinceID | **省份唯一标识** |
| cityID | **城市唯一标识** |

返回成功：

{"data":[{"collegeName":"浙江大学","collegeID":"8728c681494b994701494b00aba50000"},{"collegeName":"浙江工业大学","collegeID":"8728c681494b994701494b00aba51111"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| collegeName | 院校名称 |
| collegeID | 院校唯一标识 |

返回错误：{"code":"0","msg":” 获取院校列表失败”}

## 1.6 获取专业列表

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

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"majorID":"8928c681494b994701494b00aba50000","majorName":"软件工程"},{"majorID":"8928c681494b994701494b00aba51111","majorName":"信息管理"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| majorName | 专业名称 |
| majorID | 专业唯一标识 |

返回错误：{"code":"0","msg":” 获取专业列表失败”}

## 1.7 获取学历列表

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

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"educationID":"9428c681494b994701494b00aba50000","educationName":"大专"},{"educationID":"9428c681494b994701494b00aba51111","educationName":"本科"},{"educationID":"9428c681494b994701494b00aba52222","educationName":"硕士"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| educationName | 学历名称 |
| educationID | 学历唯一标识 |

返回错误：{"code":"0","msg":” 获取学历列表失败”}

## 1.8 获取职称列表

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

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"titleID":"9628c681494b994701494b00aba50000","titleName":"教授"},{"titleID":"9628c681494b994701494b00aba51111","titleName":"副教授"},{"titleID":"9628c681494b994701494b00aba52222","titleName":"讲师"},{"titleID":"9628c681494b994701494b00aba53333","titleName":"学生"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| titleName | 职称名称 |
| titleID | 职称唯一标识 |

返回错误：{"code":"0","msg":” 获取职称列表失败”}

# 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：{"data":{"userID":"4028c681494b994701494b99aba50000","distance":0.0,"longitude":"121.43700242034244","reagentName":"显色剂,包被稀释液,包被稀释液","latitude":"31.18441638587652","mapID":"2c9283f54fcf25eb014fcf2648530000","arounds":[{"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}]},"code":"1","msg":"操作成功！"}

### 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 |
| arounds | 周围用户数据 |

返回错误：{"code":"0","msg":"获取周围数据错误"}

## 2.2 设置当前用户有的试剂

URL：http://172.18.1.55:8080/LabAssistant/map/setReagents?userID=4028c681494b994701494b99aba50000&reagent=显色剂

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| userID | 用户唯一标识 |
| reagent | 试剂名 |

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":"设置试剂失败"}

# 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 |
| experimentDesc | 实验简介 |
| experimentTheory | 实验原理 |
| expPrepare | 实验准备（试剂/耗材/设备，每个都对应着供应商的数组，其中第一个为建议供应商） |
| 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 获取实验分类列表（for IOS）

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

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"expSubCategories":[{"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"}],"expCategoryName":"DNA实验技术"},{"expSubCategories":[{"expSubCategoryID":"24201826039496714","expSubCategoryName":"RNA原位杂交","expCategoryID":"24201826039496706"},{"expSubCategoryID":"24201826039496715","expSubCategoryName":"RNA的免疫沉淀","expCategoryID":"24201826039496706"},{"expSubCategoryID":"24201826039496716","expSubCategoryName":"引物延伸实验","expCategoryID":"24201826039496706"}],"expCategoryName":"RNA实验技术"}],"code":"1","msg":"操作成功！"}

### 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 |
| expSubCategoryID | 实验二级分类ID |
| expSubCategoryName | 实验二级分类名称 |

返回错误：{"code":"0","msg":"获取实验分类出错"}

## 3.10 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&userID=4028c681494b994701494b99aba50000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expSubCategoryID | 实验二级分类ID |
| **userID** | 用户唯一说明 |

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"}

## 3.11 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"}

## 3.12 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"}

## 3.13 删除实验计划

URL：http://172.18.1.55:8080/LabAssistant/lab/deleteMyExpPlan?myExpPlanID=8039c681494b994701494b99aba50000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| myExpPlanID | 实验计划唯一标识 |

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":"删除实验计划失败"}

## 3.14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"}

## 3.15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"}

## 3.16 获取实验评论列表

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewList?expInstructionID=4028c681494b994701494b99bab60000&lastExpReviewID=4045c791564b994701494b99aba50004&pageSize=5

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | 说明书唯一标识 |
| lastExpReviewID | 上一条评论的ID，若没有，则为Null |
| pageSize | 每次加载的条数 |

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"}

## 3.17 获取实验评论详细信息

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewDetail?expReviewID=4045c791564b994701494b99aba50000

### 请求参数

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

返回成功：

### {"data":{"reviewOpt":[{"expReviewOptName":"实验试剂","reviewOptScore":"4"}],"reviewInfo":"这是什么鬼"},"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 |
| reviewOpt**s** | 评论项（expReviewOptName：评论项名称；reviewOptScore：评论项得分） |

返回错误：{"code":"0","msg":"获取评论详细信息失败"}

## 3.18 对实验进行评论

URL：http://172.18.1.55:8080/LabAssistant/lab/responseReview

### 请求方法

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **reviewJson** | 说明书唯一标识（expInstructionID），用户唯一标识（reviewerID），评论的内容（reviewInfo），总评分（expScore），评论项（expReviewDetails） |

reviewJSON格式：

{

"expInstructionID" : "4028c681494b994701494b99bab60000",

"reviewerID" : "4028c681494b994701494b99aba50000",

"reviewInfo" : "这是什么鬼",

"expScore" : 2,

"expReviewDetails" :

[

{

"expReviewOptID":"37df9ad0810e11e5b78d002564e7234d",

"expReviewOptScore":3,

"expReviewDetailOfOpts":

[

{

"itemID" : …,

"itemName" : …

"itemScore" : …

"supplierID" : …

"desc" : …

}

]

},

{

" expReviewOptID":"8d9fa484810e11e5b78d002564e7234d",

" expReviewOptScore":4,

"expReviewDetailOfOpts":

[

{

"itemID" : …,

"itemName" : …

"itemScore" : …

"supplierID" : …

"desc" : …

}

]

},

{

" expReviewOptID":"92817d95810e11e5b78d002564e7234d",

" expReviewOptScore":2,

"expReviewDetailOfOpts":

[

{

"itemID" : …,

"itemName" : …

"itemScore" : …

"supplierID" : …

"desc" : …

}

]

}

]

}

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"}

## 3.19 判断是否已评论(已删除)

URL：http://172.18.1.55:8080/LabAssistant/lab/isReviewed?userID=4028c681494b994701494b99aba50000&myExpID=08b2f3522c1642d38f6cd52a1de68086

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| userID | 用户唯一标识 |
| myExpID | 我的实验唯一标识 |

返回成功：

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

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| isReviewed | **1:已评价 0：未评价** |

返回错误：{"code":"0","msg":"查询是否已评论失败"}

## 3.20 删除某条评论

URL：http://172.18.1.55:8080/LabAssistant/lab/deleteReview?expReviewID=4045c791564b994701494b99aba50000

### 请求参数

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

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":"删除评论失败"}

## 3.21 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"}

## 3.22 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"}

## 3.23 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"}

## 3.24 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"}

## 3.25 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"}

## 3.26 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&userID=4028c681494b994701494b99aba50000

### 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 |
| userID | 用户唯一标识 |

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"}

## 3.27 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"}

## 3.28 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”)，我的实验步骤附件表（“myExpProcessAttch”,其中图片二进制流为“imgStream“,须将二进制流采用BASE64编码成字符串）.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"}

## 3.29 同步说明书部分

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

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| json | 说明书相关的表:实验说明书主表（“expInstruction”），实验试剂表(“expReagent”)，实验耗材表(“expConsumable”)，实验设备表(“expEquipment”)，实验步骤表(“expStep”).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。 |
| allowDownload | 0-不允许下载，1-允许下载，2-share |
| userID | 用户唯一标识 |
| expInstructionID | 说明书唯一标识 |

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":"同步实验说明书失败"}

## 3.30 生成PDF

URL：http://172.18.1.55:8080/LabAssistant/pdf

### 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”)，我的实验步骤附件表（“myExpProcessAttch”,其中图片二进制流为“imgStream“,须将二进制流采用BASE64编码成字符串）.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。 |
| myExpID | 我的实验唯一标识 |
| userID | 用户唯一标识 |

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":"生成PDF出错"}或

{"code":"2","msg":"实验未评论"}

## 3.31 获取PDF列表

URL：http://172.18.1.55:8080/LabAssistant/pdf/pdfList

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"myExpID":"955EE2BFCB354ED9BCD644FF99F4E0E2","pdfName":"ELISA检测血清TNF-a浓度2015.10.30 16:45:09"},{"myExpID":"D2B58A30CBCB4050938CCED4D31EE197","pdfName":"ELISA检测血清TNF-a浓度2015.10.30 16:51:58"},{"myExpID":"0e54c601bd554cc5a7242d1c92556bc5","pdfName":"ELISA检测血清TNF-a浓度2015.11.03 16:18:56"},{"myExpID":"de4cdc3837b34506be1b4f4e09750567","pdfName":"ELISA检测血清TNF-a浓度2015.11.03 16:59:08"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| myExpID | **我的实验唯一标识** |
| pdfName | **Pdf名** |

返回错误：{"code":"0","msg":"获取PDF列表失败"}

## 3.32 下载PDF

URL：http://172.18.1.55:8080/LabAssistant/pdf/downloadPdf?myExpID=0e54c601bd554cc5a7242d1c92556bc5

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **myExpID** | **我的实验唯一标识** |

返回成功：

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

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| pdfPath | **Pdf路径** |

返回错误：{"code":"0","msg":"下载PDF失败"}

## 3.33 推送试剂/试剂厂商等数据

URL：http://172.18.1.55:8080/LabAssistant/sync/pullCommon?date=2015-10-01 14:23:56

### 请求方式

Get

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **date** | **可选，格式**2015-10-01 14:23:56 |

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** |
| **current** | **时间节点** |

返回错误：{"code":"0","msg":"推送失败"}

## 3.34 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"}

## 3.35 获取评论项

URL：http://172.18.1.55:8080/LabAssistant/lab/reviewOptional

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **expInstructionJson** | 说明书格式，详见[同步说明书](#_3.29_同步说明书部分)，以下几个字段，详见同步说明书 |
| **expInstructionID** | 说明书ID |
| **userID** | 用户ID |
| **allowDownload** | 0-不允许下载，1-允许下载，2-share |

返回成功：

{"data":[{"expReviewOptName":"实验试剂","expReviewDetailOfOpts":[{"supplierID":"4037d681494b994701494b99aba50002","itemName":"Anti-Ras","itemID":"4028c681494b994701494b99aba50000"},{"supplierID":"4037d681494b994701494b99aba50003","itemName":"植物激素","itemID":"4028c681494b994701494b99aba50001"},{"supplierID":"4037d681494b994701494b99aba50002","itemName":"单克隆抗体","itemID":"4028c681494b994701494b99aba50002"},{"supplierID":"4037d681494b994701494b99aba50004","itemName":"羊抗人胱抑素C","itemID":"96269999219408977"}],"expReviewOptID":"37df9ad0810e11e5b78d002564e7234d"},{"expReviewOptName":"实验耗材","expReviewDetailOfOpts":[{"supplierID":"4037d681494b994701494b99aba10003","itemName":"50ul枪头","itemID":"0b211cbf6e5711e5bc1f002564e7234d"},{"supplierID":"4037d681494b994701494b99aba10005","itemName":"BD细胞培养瓶","itemID":"1249c2f56e5711e5bc1f002564e7234d"},{"supplierID":"4037d681494b994701494b99aba10002","itemName":"1000µl微量吸头","itemID":"4028c791494b994701494b99aba50000"}],"expReviewOptID":"8d9fa484810e11e5b78d002564e7234d"},{"expReviewOptName":"实验仪器","expReviewDetailOfOpts":[{"supplierID":"","itemName":"漩涡混合器","itemID":"4028c791564b994701494b99aba50000"},{"supplierID":"","itemName":"推拉模式注射泵","itemID":"4028c791564b994701494b99aba50001"},{"supplierID":"","itemName":"进口冻干机用真空泵","itemID":"4028c791564b994701494b99aba50002"}],"expReviewOptID":"92817d95810e11e5b78d002564e7234d"},{"expReviewOptName":"实验步骤","expReviewDetailOfOpts":[{"supplierID":"","itemName":"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","itemID":"4028c681494b994701494b99bab70000"},{"supplierID":"","itemName":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","itemID":"4028c681494b994701494b99bab70001"},{"supplierID":"","itemName":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","itemID":"4028c681494b994701494b99bab70002"},{"supplierID":"","itemName":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","itemID":"4028c681494b994701494b99bab70003"},{"supplierID":"","itemName":"每孔加入150 μl 1％ BSA 37℃封闭1 小时","itemID":"4028c681494b994701494b99bab70004"},{"supplierID":"","itemName":"弃去液体后，在吸水纸拍干，每孔加入300μl PBST 洗涤，振荡","itemID":"4028c681494b994701494b99bab70005"}],"expReviewOptID":"973d5126810e11e5b78d002564e7234d"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| expReviewOptID | **评论项ID** |
| expReviewOptName | **评论项名** |
| expReviewDetailOfOpt | **评论项下的展开项** |

返回错误：{"code":"0","msg":"获取评论项失败"}

## 3.36 获取试剂详细信息

URL：http://172.18.1.55:8080/LabAssistant/lab/expReagentDetail?reagentID=0eb9cf476e4c11e5bc1f002564e7234d&expInstructionID=4028c681494b994701494b99bab60000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| expInstructionID | **说明书ID** |
| reagentID | **试剂ID** |

返回成功：

{"data":{"productNo":"","chemicalName":"","memo":"","casNo":"","originPlace":"","levelOne":"抗体","agents":"","levelTwo":"信号分子抗体","specification":"","reagentName":"Anti-Ras","supplier":"试剂供应商二"},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| productNo | **货号** |
| chemicalName | **化学名** |
| memo | **说明** |
| casNo | **CAS号码** |
| originPlace | **产地** |
| levelOne | **一级分类** |
| levelTwo | **二级分类** |
| agents | **生产商** |
| specification | **规格** |
| reagentName | **试剂名称** |
| supplier | **供应商** |

返回错误：{"code":"0","msg":"获取试剂详细信息出错"}

# 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BBS模块

URL：http://172.18.1.55:8080/LabAssistant/bbs/modules

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"moduleID":"476283f54fcf25eb014fcf2648530000","moduleName":"模块一","moduleImgPath":"","allowShow":1},{"moduleID":"476283f54fcf29b3014fcf29cfdd0000","moduleName":"模块二","moduleImgPath":"","allowShow":1},{"moduleID":"476283f54fcf29b3014fcf2a915f0002","moduleName":"模块三","moduleImgPath":"","allowShow":1},{"moduleID":"476283f54fcf29b3014fcf2ac4bb0004","moduleName":"模块四","moduleImgPath":"","allowShow":1}],"code":"1","msg":"操作成功！"}

## 4.3 获取BBS主题

URL：http://172.18.1.55:8080/LabAssistant/bbs/topics?moduleID=476283f54fcf25eb014fcf2648530000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **moduleID** | **BBS模块唯一标识** |

返回成功：

{"data":[{"createDateTime":"2015-10-13","topicCreator":"admin","reviewCount":55,"topicID":"477283f54fcf25eb014fcf2648530000","topicName":"xxx植物1"},{"createDateTime":"2015-10-13","topicCreator":"admin","reviewCount":27,"topicID":"477283f54fcf29b3014fcf29cfdd0000","topicName":"xxx植物2"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| topicID | **主题唯一标识** |
| topicName | **主题名称** |
| topicCreator | **主题创建者** |
| reviewCount | **评论数** |
| createDateTime | **主题创建时间** |

返回错误：{"code":"0","msg":"获取BBS主题失败"}

## 4.4 搜索BBS主题

URL：http://172.18.1.55:8080/LabAssistant/bbs/searchTopics?moduleID=476283f54fcf25eb014fcf2648530000&searchString=植物&lastTopicID=477283f54fcf29b3014fcf29cfdd0000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **moduleID** | **BBS模块唯一标识** |
| searchString | **查询条件** |
| lastTopicID | **可选，显示的最后一条的TopicID，当搜索时，可为空或为null，当查看更多时，就是最后一条Topic 的ID** |

返回成功：

{"data":[{"createDateTime":"2015-10-13","topicCreator":"admin","reviewCount":55,"topicID":"477283f54fcf25eb014fcf2648530000","topicName":"xxx植物1"},{"createDateTime":"2015-10-13","topicCreator":"admin","reviewCount":27,"topicID":"477283f54fcf29b3014fcf29cfdd0000","topicName":"xxx植物2"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| topicID | **主题唯一标识** |
| topicName | **主题名称** |
| topicCreator | **主题创建者** |
| reviewCount | **评论数** |
| createDateTime | **主题创建时间** |

返回错误：{"code":"0","msg":"搜索BBS主题失败"}

## 4.5 发布BBS主题

URL：<http://172.18.1.55:8080/LabAssistant/bbs/releaseTopic>

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **moduleID** | **BBS模块唯一标识** |
| topicName | **主题名称** |
| topicDetail | **主题内容** |
| topicCreatorID | **创建者ID** |

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":"发布BBS主题失败"}

## 4.6 获取BBS主题下的评论列表

URL：http://172.18.1.55:8080/LabAssistant/bbs/reviews?topicID=477283f54fcf25eb014fcf2648530000

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **topicID** | **BBS主题唯一标识** |

返回成功：

{"data":{"topic":{"topicDetail":"xxx植物1xxx植物1xxx植物1","topicID":"477283f54fcf25eb014fcf2648530000"},"reviews":[{"reviewID":"473283f54fcf25eb014fcf2648530000","reviewDateTime":"2015-10-13 00:00:00","reviewer":"admin","reviewDetail":"xxx朱武xxx朱武xxx朱武","parentReviewID":""},{"reviewID":"473283f54fcf29b3014fcf29cfdd0000","reviewDateTime":"2015-10-13 00:00:00","reviewer":"admin","reviewDetail":"xxx朱武xxx朱武xxx朱武","parentReviewID":""}]},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| topicID | **BBS主题唯一标识** |
| topicDetail | **主题详细内容** |
| reviewID | **BBS评论唯一标识** |
| reviewDateTime | **评论时间** |
| reviewer | **评论者** |
| reviewDetail | **评论详细内容** |
| parentReviewID | **回复的是哪条评论** |
| parentReviewer | **回复对象，是用户名不是ID** |

返回错误：{"code":"0","msg":"获取BBS主题下的评论列表失败"}

## 4.7 回复某条评论

URL：http://172.18.1.55:8080/LabAssistant/bbs/responseReview?topicID=2c9281b75060696601506069823d0000&reviewerID=4028c681494b994701494b99aba50000&reviewDetail=xxxx植物7xxxx植物7xxxx植物9&parentReviewID=2c9281b75064d806015064dc140f0001

### 请求方式

Post

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **topicID** | **BBS主题唯一标识** |
| reviewerID | **评论者ID** |
| reviewDetail | **评论的内容** |
| parentReviewID | **可选，对某条评论做出评论，若为空，则对主题做出评论** |

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":"回复某评论失败"}

# 5.我的

## 5.1 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"}

## 5.2 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** |
| iconStream | **可选，头像的二进制流，BASE64编码** |

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":"邮箱已被占用"}或

返回错误：{"code":"0","msg":"手机号已被使用"}

## 5.3 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"}

## 5.4 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"}

## 5.5 获取用户头像

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

### 请求参数

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

返回成功：

{

"data": {

"nickName": "admin",

"icon": "",

},

"code": "1",

"msg": "操作成功！"

}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| icon | **头像url** |
| nickName | **用户名** |

返回错误：{"code":"0","msg":"获取用户头像失败"}

## 5.6 获取试剂一级分类

URL：http://172.18.1.55:8080/LabAssistant/create/levelOne

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"levelOneSortID":"06995ee56e4911e5bc1f002564e7234d","levelOneSortName":"ELISA试剂盒"},{"levelOneSortID":"114866376e4911e5bc1f002564e7234d","levelOneSortName":"蛋白质/抗原/多肽"},{"levelOneSortID":"16b538446e4911e5bc1f002564e7234d","levelOneSortName":"蛋白检测"},{"levelOneSortID":"25f8065c6e4911e5bc1f002564e7234d","levelOneSortName":"蛋白分析"},{"levelOneSortID":"2f9a87666e4911e5bc1f002564e7234d","levelOneSortName":"蛋白纯化"},{"levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","levelOneSortName":"抗体"},{"levelOneSortID":"e1336fd96e4811e5bc1f002564e7234d","levelOneSortName":"化学试剂"},{"levelOneSortID":"f6ea71896e4811e5bc1f002564e7234d","levelOneSortName":"生物化学"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| levelOneSortID | **试剂一级分类ID** |
| levelOneSortName | **试剂一级分类名称** |

返回错误：{"code":"0","msg":"获取试剂一级分类失败"}

## 5.6 获取试剂二级分类

URL：http://172.18.1.55:8080/LabAssistant/create/levelTwo?levelOneID=06995ee56e4911e5bc1f002564e7234d

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **levelOneID** | **试剂一级分类ID** |

返回成功：

{"data":[{"levelTwoSortID":"02efcf8b6e4a11e5bc1f002564e7234d","levelTwoSortName":"人ELISA试剂盒","levelOneSortID":"06995ee56e4911e5bc1f002564e7234d"},{"levelTwoSortID":"0892e5056e4a11e5bc1f002564e7234d","levelTwoSortName":"小鼠ELISA试剂盒","levelOneSortID":"06995ee56e4911e5bc1f002564e7234d"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| levelOneSortID | **试剂一级分类ID** |
| levelTwoSortID | **试剂二级分类ID** |
| levelTwoSortName | **试剂二级分类名称** |

返回错误：{"code":"0","msg":"获取试剂二级分类失败"}

## 5.7 获取试剂

URL：http://172.18.1.55:8080/LabAssistant/create/getReagents?levelOneID=b828bf3f6e4811e5bc1f002564e7234d&levelTwoID=49a48f986e4911e5bc1f002564e7234d

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **levelOneID** | **试剂一级分类ID** |
| levelTwoID | **试剂二级分类ID** |

返回成功：

{"data":[{"reagentName":"植物激素","reagentID":"0d647dee6e4b11e5bc1f002564e7234d"},{"reagentName":"Anti-Ras","reagentID":"0eb9cf476e4c11e5bc1f002564e7234d"},{"reagentName":"HDAC-3 Antibody","reagentID":"0ec0a1406e4c11e5bc1f002564e7234d"},{"reagentName":"UCALLM 抗体","reagentID":"cee1ee8f6e4a11e5bc1f002564e7234d"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| reagentID | **试剂ID** |
| reagentName | **试剂名称** |

返回错误：{"code":"0","msg":"获取试剂失败"}

## 5.8 获取耗材

URL：http://172.18.1.55:8080/LabAssistant/create/getConsumables

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"consumableID":"578aea5e6e5211e5bc1f002564e7234d","consumableName":"50ul枪头"},{"consumableID":"579205006e5211e5bc1f002564e7234d","consumableName":"watson顶级吸头"},{"consumableID":"57986d3a6e5211e5bc1f002564e7234d","consumableName":"0.2ml透明96孔PCR板"},{"consumableID":"579ee2d26e5211e5bc1f002564e7234d","consumableName":"DropArray 96"},{"consumableID":"57a2d41a6e5211e5bc1f002564e7234d","consumableName":"BD细胞培养瓶"},{"consumableID":"57a7833a6e5211e5bc1f002564e7234d","consumableName":"细胞培养转瓶"},{"consumableID":"92bf98916e5111e5bc1f002564e7234d","consumableName":"1000µl微量吸头"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| consumableID | **耗材ID** |
| consumableName | **耗材名称** |

返回错误：{"code":"0","msg":"获取耗材失败"}

## 5.9 获取设备

URL：http://172.18.1.55:8080/LabAssistant/create/getEquipments

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":[{"equipmentName":"漩涡混合器","equipmentID":"ef1ec2556e5311e5bc1f002564e7234d"},{"equipmentName":"推拉模式注射泵","equipmentID":"ef257ac26e5311e5bc1f002564e7234d"},{"equipmentName":"AH-2010新型药剂型高压均质机","equipmentID":"ef2903d66e5311e5bc1f002564e7234d"},{"equipmentName":"进口冻干机用真空泵","equipmentID":"ef2f778f6e5311e5bc1f002564e7234d"},{"equipmentName":"三目体式显微镜","equipmentID":"ef33683d6e5311e5bc1f002564e7234d"},{"equipmentName":"小型玻片离心机","equipmentID":"ef3735566e5311e5bc1f002564e7234d"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| equipmentID | **设备ID** |
| equipmentName | **设备名称** |

返回错误：{"code":"0","msg":"获取设备失败"}

## 5.10 获取供应商

URL：http://172.18.1.55:8080/LabAssistant/create/getSuppliers?id=0d647dee6e4b11e5bc1f002564e7234d&mark=1

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **id** | **试剂ID或耗材ID或设备ID** |
| mark | **1: 试剂接口；2：耗材接口；3：设备接口** |

返回成功：

{"data":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"},{"supplierID":"4037d681494b994701494b99aba50003","supplierName":"试剂供应商三"}],"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| supplierID | **供应商ID** |
| supplierName | **供应商名称** |

返回错误：{"code":"0","msg":"获取供应商失败"}

## 5.11 搜索试剂/耗材/设备

URL：http://172.18.1.55:8080/LabAssistant/create/search?name=单克隆抗体&mark=1

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |
| **name** | **试剂名称或耗材名称或设备名称** |
| mark | **1: 试剂接口；2：耗材接口；3：设备接口** |

返回成功：（试剂/耗材/设备返回的json格式是不同的）

{"data":[{"levelTwoSortName":"信号分子抗体","reagentName":"Anti-Ras","levelTwoSortID":"49a48f986e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"信号分子抗体","reagentName":"HDAC-3 Antibody","levelTwoSortID":"49a48f986e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"结构蛋白抗体","reagentName":"GAPDH抗体","levelTwoSortID":"7dcfcdf16e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"结构蛋白抗体","reagentName":"羊抗人白蛋白（Alb）抗血清","levelTwoSortID":"7dcfcdf16e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"膜受体抗体","reagentName":"Anti-PLA2R1","levelTwoSortID":"8356815d6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"膜受体抗体","reagentName":"抗鼠RANKL","levelTwoSortID":"8356815d6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"合成降解蛋白抗体","reagentName":"HHV-4 BSLF2 Antibody","levelTwoSortID":"8800c20e6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50003","supplierName":"试剂供应商三"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"裂解液对照","reagentName":"FITC \*\* anti-Interleukin 7","levelTwoSortID":"8ca5057e6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50003","supplierName":"试剂供应商三"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"裂解液对照","reagentName":"GPR85 Over-expression Lysate","levelTwoSortID":"8ca5057e6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50005","supplierName":"试剂供应商五"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"裂解液对照","reagentName":"LHX4 Over-expression Lysate","levelTwoSortID":"8ca5057e6e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50003","supplierName":"试剂供应商三"},{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"}],"levelOneSortName":"抗体"},{"levelTwoSortName":"信号分子抗体","reagentName":"UCALLM 抗体","levelTwoSortID":"49a48f986e4911e5bc1f002564e7234d","levelOneSortID":"b828bf3f6e4811e5bc1f002564e7234d","suppliers":[{"supplierID":"4037d681494b994701494b99aba50003","supplierName":"试剂供应商三"},{"supplierID":"4037d681494b994701494b99aba50001","supplierName":"试剂供应商一"},{"supplierID":"4037d681494b994701494b99aba50002","supplierName":"试剂供应商二"},{"supplierID":"4037d681494b994701494b99aba50004","supplierName":"试剂供应商四"}],"levelOneSortName":"抗体"}],"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":"搜索失败"}

## 5.12 检查版本

URL：http://172.18.1.55:8080/LabAssistant/common/checkVersion

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：

{"data":{"content":"2016.01.05修改内容\n1.美化界面\n2.增加计时器\n","url":"http://172.18.1.55:8080/LabAssistant\\apk\\20160105\\ExperimentDogAphone.apk","version":"1"},"code":"1","msg":"操作成功！"}

### 返回字段说明

|  |  |
| --- | --- |
| **返回值字段** | **字段说明** |
| content | **更新说明** |
| url | **Apk链接** |
| version | **版本号** |

返回错误：{"code":"0","msg":"检查版本失败"}

# 6. 脚本模块

## 5.1 导入省份和城市数据

URL：http://172.18.1.55:8080/LabAssistant/script/city

### 请求参数

|  |  |
| --- | --- |
|  | **说明** |

返回成功：{"data":””,"code":"1","msg":"操作成功！"}

返回错误：{"code":"0","msg":"导入省份城市数据失败"}