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| 彩虹家园家庭作业服务系统 | 文档编号 | 产品版本 | 密级 |
|  |  | 机密 |
| 产品名称：彩虹家园系统 | | 共页 |

# 彩虹家园家庭作业服务系统

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| **日期** | **修订版本** | **修改描述** | **作者** |
| 2016-08-12 | V1.0 | 创建文档 |  |
| 2016-08-16 | V1.1 | 修改文档 |  |
| 2016-08-23 | V1.2 | 修改文档 |  |
| 2016-09-22 | V1.3 | 修改文档 |  |
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# 彩虹家园家庭作业服务系统

## 路径约定

**/homework/vx/xxx/yyy/**

**homework:** 表示家庭作业服务系统名称

**vx:** 表示接口版本号，方便以后升级，v1,v2….

**xxx:** 表示接口使用主体，可以为teacher，parent

**yyy:** 表示家庭作业任务资源 tasks solutions statistics

## 教师调用接口

### 布置作业任务

POST /**homework/v1/teacher/tasks/**

**请求体**

{

"content" : "宝贝讲一段故事,提交方式:视频形式提交",

"images" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"class\_name" : "小红花版",

"class\_id" : 1032681,

"teacher\_name" : "范冰冰",

"teacher\_id" : 123456,

"authority\_class\_ids" : [

1032681

]

}

**成功**

{

"code": 0,

"message": "publish success !",

"data": null

}

**失败**

{

"code": -1,

"message": "publish fail xxxx !",

"data": null

}

### 查看所有作业任务

GET /**homework/v1/teacher/tasks/？class\_id=xxxx&due\_time=yyyy**

**class\_id:表示班级ID**

**due\_time:截止时间**

**默认返回10个数据**

**以后可能添加别的查寻条件**

**成功**

{

"code": 0,

"message": "success !",

"data": [

{

"task\_id": 2,

"created\_at": "2016-08-23T18:21:31.234+08:00",

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

},

{

"task\_id": 3,

"created\_at": "2016-08-23T18:21:31.235+08:00",

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

}

]

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 查看作业任务

GET /**homework/v1/teacher/tasks/xxxx**

**xxxx为作业任务id**

**成功**

{

"code": 0,

"message": "success !",

"data": {

"task\_id": 2,

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"class\_name": "小红花版",

"class\_id": 1032681,

"teacher\_name": "范冰冰",

"teacher\_id": 123456,

"authority\_class\_ids": [

1032681

],

"created\_at": "2016-08-23T18:21:31.234+08:00",

"updated\_at": "2016-08-23T18:21:31.234+08:00"

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 删除作业任务

DELETE /**homework/v1/teacher/tasks/xxxx**

**xxxx为作业id**

**成功**

{

"code": 0,

"message": "DELETE success !",

"data": null

}

**失败**

{

"code": -1,

"message": "DELETE fail xxxx !",

"data": null

}

### 查看某个作业任务的所有完成方案

GET /**homework/v1/teacher/solutions/？task\_id=xxxx**

**xxxx为作业任务id**

**成功**

{

"code": 0,

"message": "GET OK",

"data": [

{

"solution\_id": 2,

"task\_id": 3,

"created\_at": "2016-08-24T13:29:12.633+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

},

{

"solution\_id": 1,

"task\_id": 3,

"created\_at": "2016-08-24T13:26:12.725+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

}

]

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 查看某个作业任务的某个完成方案

GET /**homework/v1/teacher/solutions/xxxx**

**xxxx为作业任务方案id**

**成功**

{

"code": 0,

"message": "GET OK",

"data": {

"solution\_id": 1,

"task\_id": 3,

"created\_at": "2016-08-24T13:26:12.725+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"praises": [

{

"role": "teacher",

"name": "张三",

"id": 123456

},

{

"role": "teacher",

"name": "李四",

"id": 123457

}

],

"comment": "宝贝GOOD",

"flowers": 5,

"class\_name": "小红花版",

"class\_id": 123456,

"parent\_name": "刘德华",

"parent\_id": 1234,

"child\_name": "刘向蕙",

"child\_id": 1234

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 添加或者修改某个家庭作业完成方案评论

PUT /**homework/v1/teacher/solutions/xxxx/comment**

**xxxx:为作业完成方案id**

**请求体**

{

"content" : "宝贝GOOD"

}

**成功**

{

"code": 0,

"message": "comment success !",

"data": null

}

**失败**

{

"code": -1,

"message": "comment fail xxxx !",

"data": null

}

### 添加或者修改某个家庭作业完成方案小红花

PUT /**homework/v1/teacher/solutions/xxxx/****flowers**

**xxxx:为作业完成方案id**

**请求体**

{

"number" : 5

}

**成功**

{

"code": 0,

"message": "UPDATE SUCCESS",

"data": null

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 点赞某个家庭作业完成方案

PUT /**homework/v1/teacher/solutions/xxxx/****praises**

**xxxx:为作业完成方案id**

**请求体**

{

"name" : "张三",

"id":123456,

"role":"teacher"

}

**成功**

{

"code": 0,

"message": "success !",

"data": null

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 获取某个家庭作业完成方案整体评论

GET /**homework/v1/teacher/statistics/xxxx**

**xxxx:为作业完成方案id**

**成功**

{

"code": 0,

"message": "success !",

"data": {

"statistic\_id": "xxxx"

"task\_id": "xxxx",

"comment": "作业完成的xxxx",

"all\_child" :[

{

"child\_id": 1234

"child\_name": "刘向蕙"

"solution\_id": 123

"finished": true

"praise\_number": 3

},

{

"child\_id": 1235

"child\_name": "小宝贝"

"solution\_id": 1235

"finished": true

"praise\_number": 6

},

{

"child\_id": 1234

"child\_name": "张小三"

"solution\_id": 0

"finished": false

"praise\_number": 0

},

{

"child\_id": 1235

"child\_name": "李小四"

"solution\_id": 0

"finished": false

"praise\_number": 0

}

]

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 添加某个家庭作业完成方案整体评论

PUT /**homework/v1/teacher/statistics/yyyy/comment**

**yyyy:为作业完成方案id**

**请求体**

{

"comment": "作业完成的怎么样"

}

**成功**

{

"code": 0,

"message": "success !",

"data": null

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

## 家长调用接口

### 查看某个班级所有作业任务

GET /**homework/v1/parent/tasks/？class\_id=xxxx&****due\_time=yyyy&user\_id=zzzz**

**class\_id:表示班级ID**

**due\_time:截止时间**

**user\_id:小孩ID，用于查看小孩是否完成作业**

**默认返回10个数据**

**以后可能添加别的查寻条件**

**成功**

{

"code": 0,

"message": "success !",

"data": [

{

"task\_id": 2,

"created\_at": "2016-08-23T18:21:31.234+08:00",

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

"finished": true

},

{

"task\_id": 3,

"created\_at": "2016-08-23T18:21:31.235+08:00",

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

"finished": true

}

]

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 查看作业任务

GET /**homework/v1/parent/tasks/xxxx**

**xxxx为作业任务id**

**成功**

{

"code": 0,

"message": "success !",

"data": {

"task\_id": 2,

"content": "宝贝讲一段故事,提交方式:视频形式提交",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"class\_name": "小红花版",

"class\_id": 1032681,

"teacher\_name": "范冰冰",

"teacher\_id": 123456,

"authority\_class\_ids": [

1032681

],

"created\_at": "2016-08-23T18:21:31.234+08:00",

"updated\_at": "2016-08-23T18:21:31.234+08:00"

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 提交作业方案

POST /**homework/v1/parent/solutions/**

**请求体**

{

"task\_id" : 3,

"content" : "宝贝讲一段故事",

"images" : ["http://xx.xx.xx/xxx","http://yy.yy.yy/yyy"],

"videos" : ["rtmp://xx.xx.xx/xxx","rtmp://yy.yy.yy/yyy"],

"audios" : ["http://xx.xx.xx/xxx","http://yy.yy.yy/yyy"],

"class\_name": "小红花版",

"class\_id": 123456,

"parent\_name": "刘德华",

"parent\_id": 1234,

"child\_name": "刘向蕙",

"child\_id": 1234

}

**成功**

{

"code": 0,

"message": "commit success !",

"data": null

}

**失败**

{

"code": -1,

"message": "commit fail xxxx !",

"data": null

}

### 查看某个作业任务的所有完成方案

GET /**homework/v1/parent/solutions/？****task\_id=xxxx**

**task\_id为作业任务id**

**成功**

{

"code": 0,

"message": "GET OK",

"data": [

{

"solution\_id": 2,

"task\_id": 3,

"created\_at": "2016-08-24T13:29:12.633+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

},

{

"solution\_id": 1,

"task\_id": 3,

"created\_at": "2016-08-24T13:26:12.725+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

]

}

]

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 查看某个作业任务的某个完成方案

GET /**homework/v1/parent/solutions/xxxx**

**xxxx为作业任务方案id**

**成功**

{

"code": 0,

"message": "GET OK",

"data": {

"solution\_id": 1,

"task\_id": 3,

"created\_at": "2016-08-24T13:26:12.725+08:00",

"content": "宝贝讲一段故事",

"images": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos": [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios": [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"praises": [

{

"role": "teacher",

"name": "张三",

"id": 123456

},

{

"role": "teacher",

"name": "李四",

"id": 123457

}

],

"comment": "宝贝GOOD",

"flowers": 5,

"class\_name": "小红花版",

"class\_id": 123456,

"parent\_name": "刘德华",

"parent\_id": 1234,

"child\_name": "刘向蕙",

"child\_id": 1234

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

### 修改自己已经提交作业方案

PUT /**homework/v1/parent/solutions/xxxx**

**xxxx:为作业完成方案id**

**请求体**

{

"content" : "宝贝讲一段故事",

"images" : ["http://xx.xx.xx/xxx","http://yy.yy.yy/yyy"],

"videos" : ["rtmp://xx.xx.xx/xxx","rtmp://yy.yy.yy/yyy"],

"audios" : ["http://xx.xx.xx/xxx","http://yy.yy.yy/yyy"],

"class\_name": "小红花版",

"class\_id": 123456,

"parent\_name": "刘德华",

"parent\_id": 1234,

"child\_name": "刘向蕙",

"child\_id": 1234

}

**成功**

{

"code": 0,

"message": "comment success !",

"data": null

}

**失败**

{

"code": -1,

"message": "comment fail xxxx !",

"data": null

}

### 点赞某个家庭作业完成方案评论

PUT /**homework/v1/parent/solutions/xxxx/praises**

**xxxx:为作业完成方案id**

**请求体**

{

"name": "赵本山",

"id": 12345,

"role": "parent"

}

**成功**

{

"code": 0,

"message": "praise success !",

"data": null

}

**失败**

{

"code": -1,

"message": "praise fail xxxx !",

"data": null

}

### 获取某个家庭作业完成方案整体评论

GET /**homework/v1/parent/****statistics/xxxx**

**xxxx:为作业完成方案id**

**成功**

{

"code": 0,

"message": "success !",

"data": {

"statistic\_id": "xxxx"

"task\_id": "xxxx",

"comment": "作业完成的xxxx",

"all\_child" :[

{

"child\_id": 1234

"child\_name": "刘向蕙"

"solution\_id": 123

"finished": true

"praise\_number": 3

},

{

"child\_id": 1235

"child\_name": "小宝贝"

"solution\_id": 1235

"finished": true

"praise\_number": 6

},

{

"child\_id": 1234

"child\_name": "张小三"

"solution\_id": 0

"finished": false

"praise\_number": 0

},

{

"child\_id": 1235

"child\_name": "李小四"

"solution\_id": 0

"finished": false

"praise\_number": 0

}

]

}

}

**失败**

{

"code": -1,

"message": "fail xxxx !",

"data": null

}

## 系统模型

老师布置家庭作业

### 模型名称Task

{

"\_id" : ObjectId("57bd2c6eda8c530e29d8ddde"),

"task\_id" : 5,

"content" : "宝贝讲一段故事,提交方式:视频形式提交",

"images" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"audios" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"class\_name" : "小红花版",

"class\_id" : 0,

"teacher\_name" : "范冰冰",

"teacher\_id" : 0,

"authority\_class\_ids" : [

1032681

],

"status" : 0,

"created\_at" : ISODate("2016-08-24T05:11:10.682Z"),

"updated\_at" : ISODate("2016-08-24T05:11:10.682Z")

}

家长提交家庭作业

### 模型名称solution

{

"\_id" : ObjectId("57bd30a8da8c530e29d8dde0"),

"solution\_id" : 2,

"task\_id" : 3,

"created\_at" : ISODate("2016-08-24T05:29:12.633Z"),

"content" : "宝贝讲一段故事",

"images" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"videos" : [

"rtmp://xx.xx.xx/xxx",

"rtmp://yy.yy.yy/yyy"

],

"audios" : [

"http://xx.xx.xx/xxx",

"http://yy.yy.yy/yyy"

],

"praises" : [ ],

"comment" : "",

"flowers" : 0,

"class\_name" : "小红花版",

"class\_id" : 123457,

"parent\_name" : "张三",

"parent\_id" : 1238,

"child\_name" : "张小三",

"child\_id" : 1236

}

老师布置家庭作业的统计

### 模型名称statistic

{

"\_id" : ObjectId("57bcf703da39343c65b88aef"),

"statistic\_id" : 2,

"task\_id" : 3,

"comment" : "",

"all\_child" : [

{

"child\_id" : 39602,

"child\_name" : "张慧妹",

"finished" : false

},

{

"child\_id" : 39563,

"child\_name" : "刘德华",

"finished" : false

},

{

"child\_id" : 40099,

"child\_name" : "许小小",

"finished" : false

},

{

"child\_id" : 40147,

"child\_name" : "呵呵",

"finished" : false

}

]

}