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

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	

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": [
```

11rt

```
{
    "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

```json
{
  "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

```json
{
    "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
        }
    ]
}
```