**[考试管理系统]-[试卷管理系统]-前后端接口文档**

**版本号：**

# 修订记录

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| **版本号** | **修改内容** | **修改人** | **修改时间** |
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# 接口列表

## 生成试卷

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| --- | --- | --- | --- |
| **生成试卷接口** | | | |
| **调用地址** | /paper-manage/examPapers | | |
| **调用方式** | POST | | |
| **请求参数** | | | |
| **参数名** | **类型** | **说明** | **必选项** |
| **Header参数** | | | |
| **参数名** | **类型** | **说明** | **必选项** |
| Accept-Charset | string | xxxxx | N |
| Accept-Language | string | xxxxx | N |
| **Body参数（Json）** | | | |
| **字段名** | **类型** | **说明** | 必选项 |
| examId | Integer | 试卷id | Y |  |
| List<examStructs>examStructs | list | 生成题目规则 | Y |  |
| ipaddr | String | 考试人IP地址 | Y |  |
| paperName | String | 试卷名称 |  |  |
| paperOwnerId | Interger | 考试人id |  |  |
| subjectDbId | Number | 题库id |  |  |
| **Body参数（Json）示例** | | | |
| {"examId":10000,  "examStructs":[{"id":7,"colExamId":10000,"colSubjectType":1,"colSubjectCount":20,"colSubjectPoint":5,"colDifficultLevel":2},{"id":10,"colExamId":10000,"colSubjectType":1,"colSubjectCount":20,"colSubjectPoint":4,"colDifficultLevel":1},{"id":8,"colExamId":10000,"colSubjectType":0,"colSubjectCount":5,"colSubjectPoint":4,"colDifficultLevel":1},{"id":13,"colExamId":10000,"colSubjectType":0,"colSubjectCount":5,"colSubjectPoint":5,"colDifficultLevel":2}],  "ipaddr":"127.0.0.1",  "paperName":"信息安全考试",  "paperOwnerId":1,  "subjectDbId":30} | | | |
| **返回结果（Json）** | | | |
| **字段名** | **类型** | **说明** | |
| singleSubjects | 数组 | 单选题 | |
| multiSubjects | 数组 | 多选题 | |
| **返回结果（Json）示例** | | | |
| {  "paperId": 85,  "singleSubjects": [  {  "id": 351,  "subjectContent": "研发3ODC场地内可以部署打印机。9jik699",  "subjectItems": [  {  "id": 523,  "subjectId": 351,  "optionContent": "对",  "optionOrder": 1  },  {  "id": 524,  "subjectId": 351,  "optionContent": "错",  "optionOrder": 2  }  ],  "answer": null  },  {  "id": 348,  "subjectContent": "研发2ODC场地内可以部署打印机。9jik699",  "subjectItems": [  {  "id": 513,  "subjectId": 348,  "optionContent": "对",  "optionOrder": 1  },  {  "id": 514,  "subjectId": 348,  "optionContent": "错",  "optionOrder": 2  }  ],  "answer": null  },  {  "id": 345,  "subjectContent": "研发1ODC场地内可以部署打印机。9jik699",  "subjectItems": [  {  "id": 503,  "subjectId": 345,  "optionContent": "对",  "optionOrder": 1  },  {  "id": 504,  "subjectId": 345,  "optionContent": "错",  "optionOrder": 2  }  ],  "answer": null  },  {  "id": 291,  "subjectContent": "研发ODC场地内可以部署打印机。9jik699",  "subjectItems": [  {  "id": 463,  "subjectId": 291,  "optionContent": "对",  "optionOrder": 1  },  {  "id": 464,  "subjectId": 291,  "optionContent": "错",  "optionOrder": 2  }  ],  "answer": null  },  {  "id": 354,  "subjectContent": "研发4ODC场地内可以部署打印机。9jik699",  "subjectItems": [  {  "id": 533,  "subjectId": 354,  "optionContent": "对",  "optionOrder": 1  },  {  "id": 534,  "subjectId": 354,  "optionContent": "错",  "optionOrder": 2  }  ],  "answer": null  },  {  "id": 349,  "subjectContent": "小王2周末准备加班，女朋友提出想参观一下他的办公9环境，于是小王去申请办理研发工作区临时通行证。通行证可以办下来吗？看欧69",  "subjectItems": [  {  "id": 515,  "subjectId": 349,  "optionContent": "可以，因为是周末，办公室里人较少，不会打扰到别人的工作。",  "optionOrder": 1  },  {  "id": 516,  "subjectId": 349,  "optionContent": "跟领导申请过，获得批准就可以。",  "optionOrder": 2  },  {  "id": 517,  "subjectId": 349,  "optionContent": "女朋友要也是华为员工才可以。",  "optionOrder": 4  },  {  "id": 518,  "subjectId": 349,  "optionContent": "非工作目的不允许申请研发工作区临时通行证。",  "optionOrder": 8  }  ],  "answer": null  },  {  "id": 346,  "subjectContent": "小王1周末准备加班，女朋友提出想参观一下他的办公9环境，于是小王去申请办理研发工作区临时通行证。通行证可以办下来吗？看欧69",  "subjectItems": [  {  "id": 505,  "subjectId": 346,  "optionContent": "可以，因为是周末，办公室里人较少，不会打扰到别人的工作。",  "optionOrder": 1  },  {  "id": 506,  "subjectId": 346,  "optionContent": "跟领导申请过，获得批准就可以。",  "optionOrder": 2  },  {  "id": 507,  "subjectId": 346,  "optionContent": "女朋友要也是华为员工才可以。",  "optionOrder": 4  },  {  "id": 508,  "subjectId": 346,  "optionContent": "非工作目的不允许申请研发工作区临时通行证。",  "optionOrder": 8  }  ],  "answer": null  },  {  "id": 355,  "subjectContent": "小王4周末准备加班，女朋友提出想参观一下他的办公9环境，于是小王去申请办理研发工作区临时通行证。通行证可以办下来吗？看欧69",  "subjectItems": [  {  "id": 535,  "subjectId": 355,  "optionContent": "可以，因为是周末，办公室里人较少，不会打扰到别人的工作。",  "optionOrder": 1  },  {  "id": 536,  "subjectId": 355,  "optionContent": "跟领导申请过，获得批准就可以。",  "optionOrder": 2  },  {  "id": 537,  "subjectId": 355,  "optionContent": "女朋友要也是华为员工才可以。",  "optionOrder": 4  },  {  "id": 538,  "subjectId": 355,  "optionContent": "非工作目的不允许申请研发工作区临时通行证。",  "optionOrder": 8  }  ],  "answer": null  },  {  "id": 352,  "subjectContent": "小王3周末准备加班，女朋友提出想参观一下他的办公9环境，于是小王去申请办理研发工作区临时通行证。通行证可以办下来吗？看欧69",  "subjectItems": [  {  "id": 525,  "subjectId": 352,  "optionContent": "可以，因为是周末，办公室里人较少，不会打扰到别人的工作。",  "optionOrder": 1  },  {  "id": 526,  "subjectId": 352,  "optionContent": "跟领导申请过，获得批准就可以。",  "optionOrder": 2  },  {  "id": 527,  "subjectId": 352,  "optionContent": "女朋友要也是华为员工才可以。",  "optionOrder": 4  },  {  "id": 528,  "subjectId": 352,  "optionContent": "非工作目的不允许申请研发工作区临时通行证。",  "optionOrder": 8  }  ],  "answer": null  },  {  "id": 292,  "subjectContent": "小王周末准备加班，女朋友提出想参观一下他的办公9环境，于是小王去申请办理研发工作区临时通行证。通行证可以办下来吗？看欧69",  "subjectItems": [  {  "id": 465,  "subjectId": 292,  "optionContent": "可以，因为是周末，办公室里人较少，不会打扰到别人的工作。",  "optionOrder": 1  },  {  "id": 466,  "subjectId": 292,  "optionContent": "跟领导申请过，获得批准就可以。",  "optionOrder": 2  },  {  "id": 467,  "subjectId": 292,  "optionContent": "女朋友要也是华为员工才可以。",  "optionOrder": 4  },  {  "id": 468,  "subjectId": 292,  "optionContent": "非工作目的不允许申请研发工作区临时通行证。",  "optionOrder": 8  }  ],  "answer": null  }  ],  "multiSubjects": [  {  "id": 350,  "subjectContent": "公司2存储设备出研发ODC场地时，如下哪些处理方式9可以安全996消除存储设备中承载的公司信息资产？",  "subjectItems": [  {  "id": 519,  "subjectId": 350,  "optionContent": "对存储设备进行高级格式化",  "optionOrder": 1  },  {  "id": 520,  "subjectId": 350,  "optionContent": "对存储设备进行低级格式化",  "optionOrder": 2  },  {  "id": 521,  "subjectId": 350,  "optionContent": "对存储设备进行物理销毁",  "optionOrder": 4  },  {  "id": 522,  "subjectId": 350,  "optionContent": "对存储设备进行消磁",  "optionOrder": 8  }  ],  "answer": null  },  {  "id": 293,  "subjectContent": "公司存储设备出研发ODC场地时，如下哪些处理方式9可以安全996消除存储设备中承载的公司信息资产？",  "subjectItems": [  {  "id": 469,  "subjectId": 293,  "optionContent": "对存储设备进行高级格式化",  "optionOrder": 1  },  {  "id": 470,  "subjectId": 293,  "optionContent": "对存储设备进行低级格式化",  "optionOrder": 2  },  {  "id": 471,  "subjectId": 293,  "optionContent": "对存储设备进行物理销毁",  "optionOrder": 4  },  {  "id": 472,  "subjectId": 293,  "optionContent": "对存储设备进行消磁",  "optionOrder": 8  }  ],  "answer": null  }  ]  } | | | |

## 2．提交试卷

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **题库查询接口(根据题库id)** | | | | | | |
| **调用地址** | /paper-manage / submitExamPaper | | | | | |
| **调用方式** | PUT | | | | | |
| **请求参数** | | | | | | |
| **参数名** | **类型** | | **说明** | | | **必选项** |
| **Header参数** | | | | | | |
| **参数名** | **类型** | | **说明** | | | **必选项** |
| **Body参数（Json）** | | | | | | |
| **字段名** | **类型** | | **说明** | | | 必选项 |
| **Body参数（Json）示例** | | | | | | |
| **answers** | | **数组** | | **提交答案** |  | |
| **beginTime** | | **Number** | | **考试开始时间** |  | |
| **endTime** | | **Number** | | **考试结束时间** |  | |
| **examPaperId** | | **Number** | | **试卷id** |  | |
| **ownerId** | | **Number** | | **考试人** |  | |
|  | |  | |  |  | |
| {"answers":  [{"subjectId":114,"submitAnswer":14},  {"subjectId":110,"submitAnswer":14},  {"subjectId":109,"submitAnswer":14},  {"subjectId":111,"submitAnswer":14}],  "beginTime":201802036212,  "endTime":201802036212,  "examPaperId":21,  "ownerId":0} | | | | | | |
| **返回结果（Json）** | | | | | | |
| **字段名** | **类型** | | **说明** | | | |
| **返回结果（Json）示例** | | | | | | |
| **{**  **"resultCode": "0",**  **"resultDesc": "成功"**  **}** | | | | | | |

# 备注

## REST 简介

REST 是一个术语的缩写，Representational State Transfer，中文直译「表征状态转移」，这是个很拗口的词。不要强行理解，直接看怎么做，等对实施细节有一些了解后，再来看名字会有更深刻的理解。**REST 是一套风格约定，RESTful 是它的形容词形式；比如一套实现了 REST 风格的接口，可以称之为 RESTful 接口。**

## REST 对请求的约定

REST 描述了HTTP层里客户端和服务器端的数据交互规则。客户端通过向服务器端发送HTTP请求，接收服务器的响应，完成一次HTTP交互。这个交互过程中，REST架构约定两个重要方面就是HTTP请求的所采用方法，以及请求的链接。

在请求层面，REST 规范可以简单粗暴抽象成以下两个规则：

* **请求 API 的 URL 表示用来定位资源；**
* **请求的 METHOD 表示对这个资源进行的操作；**

以下表格举例说明

|  |  |  |
| --- | --- | --- |
| **请求方式** | **Url** | **功能** |
| **GET** | /accounts | 列出所有用户 |
| **POST** | /accounts | 新建用户 |
| **GET** | /accounts/ID | 获取指定用户的详细信息 |
| **PUT** | /accounts/ID | 更新指定用户信息 |
| **PATCH** |
| **DELETE** | /accounts/ID | 删除指定用户 |