数据库设计：

1. user：id 用户名 电子邮件 电话 密码 标识权限的东西？（管理员，用户）
2. 收货地址：与user对应，包括名称，电话，地址
3. book：id书名 类别 国籍 作者 图片 销量 价格 简介
4. 购物车（与用户绑定的子关系（未付款））：包括商品信息（书名，图片），单价，数量
   1. 评论（与书名绑定的子关系）：日期 内容 用户名
5. 订单 （与用户绑定的子关系（已付款））：包括商品信息（书名，图片）单价，数量，状态（已发货，未发货，已签收）

接口：

1. 用户登录验证帐号密码

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | success | unsuccess | exception |
| post | 192.168.202.155:8081/user/login?username=1&password=4 | {  "data": {  "userid": 1,  "username": "1",  "password": "2",  "email": null,  "tel": null  },  "state": 200  } | {  "state": 404  } | {  "state": 500  } |

1. 用户注册验证用户名是否存在

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | valid | invalid | exception |
| post | 192.168.202.155:8081/user/validName?username=1 | {  "state": 200  } | {  "state": 404  } | {  "state": 500  } |

1. 注册用户

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/user/register?username=hello&password=www  用户名 密码 必需字段，其他非必需 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 获取所有书单

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| GET | 192.168.202.155:8081/book/listAll | {  "data": [  {  "bookid": 1,  "bookname": "Html网页",  "category": "网页设计",  "country": null,  "author": "网",  "pic": null,  "sale": null,  "price": null,  "introduce": null,  "num": 0  },  {  "bookid": 2,  "bookname": "Html1",  "category": null,  "country": null,  "author": "湛广奕",  "pic": null,  "sale": null,  "price": null,  "introduce": null,  "num": 0  }  ],  "state": 200  }  无书籍返回  {  "data": [],  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 根据书名或者作者获取书单

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/book/seo?str=网页 | {"data":[{"bookid":3,"bookname":"Html网页","category":"网页设计","country":null,"author":null,"pic":null,"sale":null,"price":null,"introduce":null,"num":0},{"bookid":4,"bookname":"html","category":"网页设计","country":null,"author":"网页","pic":null,"sale":null,"price":null,"introduce":null,"num":0}],"state":200} | {  "state": 500  } | {  "state": 500  } |

1. 给出书的id 修改书的对应信息

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/book/update?bookid=3&country=中国  bookid 必需字段 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 获取书对应的评论

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 没结果 | exception |
| post | 192.168.202.155:8081/comment/list?bookid=1  bookid 必需字段 | {  "data": [  {  "userid": 1,  "bookid": 1,  "ctime": "2018-04-02T13:10:48.000+0000",  "comments": "好好"  }  ],  "state": 200  } | {  "data": [],  "state": 200  } | {  "state": 500  } |

1. 获取用户的收货地址

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 没结果 | exception |
| post | 192.168.202.155:8081/address/list?userid=1  userid必需 | {  "data": [  {  "addid": 1,  "userid": 1,  "name": "一夕间",  "tel": "",  "address": ""  }  ],  "state": 200  } | {  "data": [],  "state": 200  } | {  "state": 500  } |

1. 增加用户的收货地址

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsuccess | exception |
| post | 192.168.202.155:8081/address/add?userid=2&name=大佬  userid name 必需字段 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 删除用户的收货地址

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsuccess | exception |
| post | 192.168.202.155:8081/address/delete?addid=2 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 获取用户对应的购物车列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsuccess | exception |
| post | 192.168.202.155:8081/cart/list?userid=1 | {  "data": [  {  "bookid": 3,  "bookname": null,  "category": null,  "country": "中国",  "author": null,  "pic": null,  "sale": null,  "price": null,  "introduce": null,  "num": 1,  "cartid": 1  },  {  "bookid": 4,  "bookname": "html",  "category": "网页设计",  "country": null,  "author": "网页",  "pic": null,  "sale": null,  "price": null,  "introduce": null,  "num": 1,  "cartid": 2  }  ],  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 删除用户的购物车某项

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsuccess | exception |
| post | 192.168.202.155:8081/cart/delete?cartid=1 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 获取用户对应的订单列表

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 无结果 | exception |
| post | 192.168.202.155:8081/order/list?userid=1 | {  "data": [  {  "orderid": 1,  "userid": 0,  "bookid": 3,  "ordertime": "2018-03-01T09:00:00.000+0000",  "shippingState": 0,  "num": 2,  "bookname": null,  "category": null,  "country": "中国",  "author": null,  "pic": null,  "sale": null,  "price": null,  "introduce": null  },  {  "orderid": 2,  "userid": 0,  "bookid": 4,  "ordertime": "2018-03-01T09:00:00.000+0000",  "shippingState": 0,  "num": 3,  "bookname": "html",  "category": "网页设计",  "country": null,  "author": "网页",  "pic": null,  "sale": null,  "price": null,  "introduce": null  }  ],  "state": 200  } | {  "data": [],  "state": 200  } | {  "state": 500  } |

1. 获取用户所有的信息

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 无结果 | exception |
| post | 192.168.202.155:8081/user/listall | {  "data": [  {  "userid": 1,  "username": "1",  "password": "2",  "email": null,  "tel": null  },  {  "userid": 2,  "username": "hello",  "password": "111",  "email": null,  "tel": null  }  ],  "state": 200  } | {  "data": [],  "state": 200  } | {  "state": 500  } |

1. 根据用户名获取用户

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 无结果 | exception |
| post | 192.168.202.155:8081/user/info?username=1 | {  "data": {  "userid": 1,  "username": "1",  "password": "2",  "email": null,  "tel": null  },  "state": 200  } | {  "data": null,  "state": 200  } | {  "state": 500  } |

1. 根据订单号获取订单

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | 无结果 | exception |
| post | 192.168.202.155:8081/order/info?orderid=1 | {  "data": [  {  "orderid": 1,  "userid": 0,  "bookid": 3,  "ordertime": "2018-03-01T09:00:00.000+0000",  "shippingState": 0,  "num": 2,  "bookname": null,  "category": null,  "country": "中国",  "author": null,  "pic": null,  "sale": null,  "price": null,  "introduce": null  }  ],  "state": 200  } | {  "data": [],  "state": 200  } | {  "state": 500  } |

1. 在订单内书本进行评论

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/comment/add?userid=1&bookid=2&comments=评论内容 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 添加购物车

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/cart/addtoCart?userid=1&bookid=3&num=1 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 修改购物车数目

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/cart/addnum?userid=1&bookid=3&num=4&cartid=7 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |

1. 下单

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| type | url | sucess | unsucess | exception |
| post | 192.168.202.155:8081/order/add?userid=1&bookid=3&num=4&cartid=7 | {  "state": 200  } | {  "state": 500  } | {  "state": 500  } |