

## 第一章:概述及开发环境配置

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## 第一章:概述及开发环境配置

### 1.1.图书借阅系统概述

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该系统主要完成图书借阅用户登录模块、图书类别模块维护、馆藏图书模块维护、图书借阅模块信息维护、用户操作日志信息维护、用户模块信息维护、借阅数据分析模块查看等信息、该系统虽然是一个很老的课题项目，不过系统目前采用企业主流开发模式即前后端分离开发模式，后端采用java语言开发，B/S架构项目，使用mysql数据库作为数据存储、使用mybatisPlus作为数据持久层技术、使用springboot作为微服务整合框架、使用shiro作为用户认证鉴权、使用swagger技术作为前后端分离开发后端给前端提供的开发API、前端使用目前留下的VUE技术作为前端技术栈、使用饿了么团队研发的基于VUE研发的Element框架、该框架简洁、易用、企业主流，最重要的是通过本次课设项目给大家灌输目前企业开发流行的主流框架和主流开发模式-前后端分离开发，本次牵扯不到后端，主要强化前端Vue和Element

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### 1.2.图书借阅系统架构

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该系统参与架构:MySQL+MybatisPlus+Springboot+Shiro+Swagger+Element

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### 1.3.开发环境构建

1.3.1.node.js服务器安装 访问网址:<http://nodejs.cn/>



## 下载

最新版本: 16.13.1

点击下载



/\*\*以上下载完毕傻瓜式安装即可，不要选择盘符

1.3.2.hbuilder服务器安装、官网: <https://www.dcloud.io/>



1.3.3.mysql数据库安装 官网下载地址:  
<https://dev.mysql.com/downloads/windows/installer/8.0.html>

第一步，官网下载服务器如图

**General Availability (GA) Releases** Archives ⓘ

## MySQL Installer 8.0.27

Select Operating System:  
Microsoft Windows

Looking for previous GA versions?

<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-web-community-8.0.27.1.msi)	8.0.27	2.3M	<a href="#">Download</a>
<b>Windows (x86, 32-bit), MSI Installer</b> (mysql-installer-community-8.0.27.1.msi)	8.0.27	470.2M	<a href="#">Download</a>

MD5: 44b7f3e4c1bdcc641621cfaa31ea18f4 | [Signature](#)

MD5: 9b7af5c91139659b10b84b1ca357d08f | [Signature](#)

! We suggest that you use the [MD5 checksums](#) and [GnuPG signatures](#) to verify the integrity of the packages you download.

☒ mysql-installer-community-8.0.22.0.msi 双击安装

MySQL Installer  
Adding Community

Choosing a Setup Type  
Select Products and Features  
Installation  
Installation Complete

### Choosing a Setup Type

Please select the Setup Type that suits your use case.

- ☐ **Developer Default**  
Installs all products needed for MySQL development purposes.
- ☐ **Server only**  
Installs only the MySQL Server product.
- ☐ **Client only**  
Installs only the MySQL Client products, without a server.
- ☐ **Full**  
Installs all included MySQL products and features.
- ☒ **Custom**  
Manually select the products that should be installed on the system.

Setup Type Description  
Allows you to select exactly which products you would like to install. This also allows to pick other server versions and architectures (depending on your OS).

选中客户

点击下一步

Next > Cancel

# MySQL. Installer

Adding Community

Choosing a Setup Type

Select Products and Features

Installation

Product Configuration

Installation Complete

## Select Products and Features

Please select the products and features you would like to install on this machine.



Filter:

All Software, Current Bundle, Any

Edit

Available Products:

- MySQL Servers
  - MySQL Server
    - MySQL Server 8.0
      - MySQL Server 8.0.22 - X64

- Applications
- MySQL Connectors
- Documentation



Products/Features To Be Installed:

- MySQL Server 8.0.22 - X64

Published: N/A

Estimated Size: 527 MB

Release Notes: <http://dev.mysql.com/doc/relnotes/mysql/8.0/en/news-8-0-22.html>

&lt; Back

Next &gt;

Cancel

展开菜单，加入安装到右边如图，  
注意:第一次安装的话会让你安装C++的插件，点击安装即可，就会到上图所示

# MySQL. Installer

Adding Community

Choosing a Setup Type

Select Products and Features

Installation

Product Configuration

Installation Complete

## Installation

The following products will be installed.

Product	Status	Progress	Notes
MySQL Server 8.0.22	Installing	43%	

Show Details &gt;

&lt; Back

Execute

Cancel

点击执行，  
等待进度

# MySQL. Installer

Adding Community

Choosing a Setup Type

Select Products and Features


Installation

Product Configuration

Installation Complete

## Installation

The following products will be installed.

Product	Status	Progress	Notes
 MySQL Server 8.0.22	Complete		

Show Details >

< Back

点击下一步

Next >

Cancel

# MySQL. Installer

Adding Community

Choosing a Setup Type

Select Products and Features

Installation

Product Configuration

Installation Complete

## Product Configuration

We'll now walk through a configuration wizard for each of the following products.

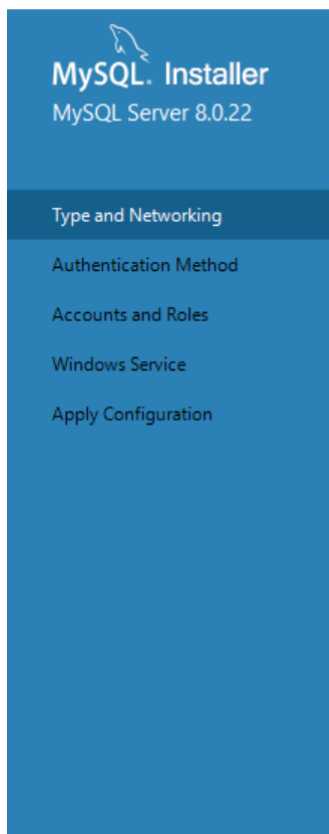
You can cancel at any point if you wish to leave this wizard without configuring all the products.

Product	Status
MySQL Server 8.0.22	Ready to configure

点击下一步

Next >

Cancel



## Type and Networking

### Server Configuration Type

Choose the correct server configuration type for this MySQL Server installation. This setting will define how much system resources are assigned to the MySQL Server instance.

Config Type: Development Computer

### Connectivity

Use the following controls to select how you would like to connect to this server.

- ☒ TCP/IP Port: 3306 X Protocol Port: 33060
- ☒ Open Windows Firewall ports for network access
- ☐ Named Pipe Pipe Name: MYSQL
- ☐ Shared Memory Memory Name: MYSQL

### Advanced Configuration

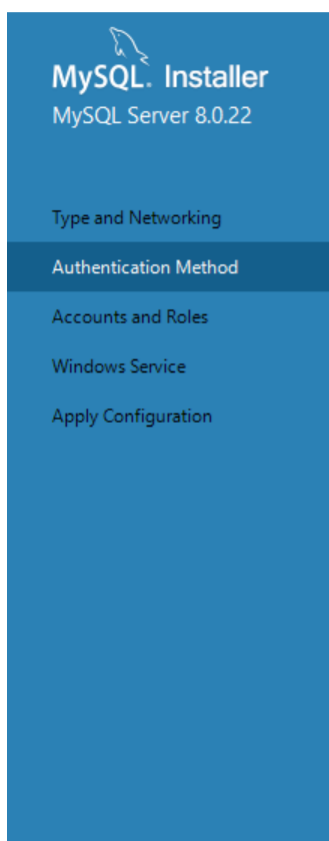
Select the check box below to get additional configuration pages where you can set advanced and logging options for this server instance.

- ☐ Show Advanced and Logging Options

点击下一步

Next >

Cancel



## Authentication Method

### ☐ Use Strong Password Encryption for Authentication (RECOMMENDED)

MySQL 8 supports a new authentication based on improved stronger SHA256-based password methods. It is recommended that all new MySQL Server installations use this method going forward.



Attention: This new authentication plugin on the server side requires new versions of connectors and clients which add support for this new 8.0 default authentication (caching\_sha2\_password authentication).

Currently MySQL 8.0 Connectors and community drivers which use libmysqlclient 8.0 support this new method. If clients and applications cannot be updated to support this new authentication method, the MySQL 8.0 Server can be configured to use the legacy MySQL Authentication Method below.

选中简单密码认证，切记

### ☒ Use Legacy Authentication Method (Retain MySQL 5.x Compatibility)

Using the old MySQL 5.x legacy authentication method should only be considered in the following cases:

- If applications cannot be updated to use MySQL 8 enabled Connectors and drivers.
- For cases where re-compilation of an existing application is not feasible.
- An updated, language specific connector or driver is not yet available.

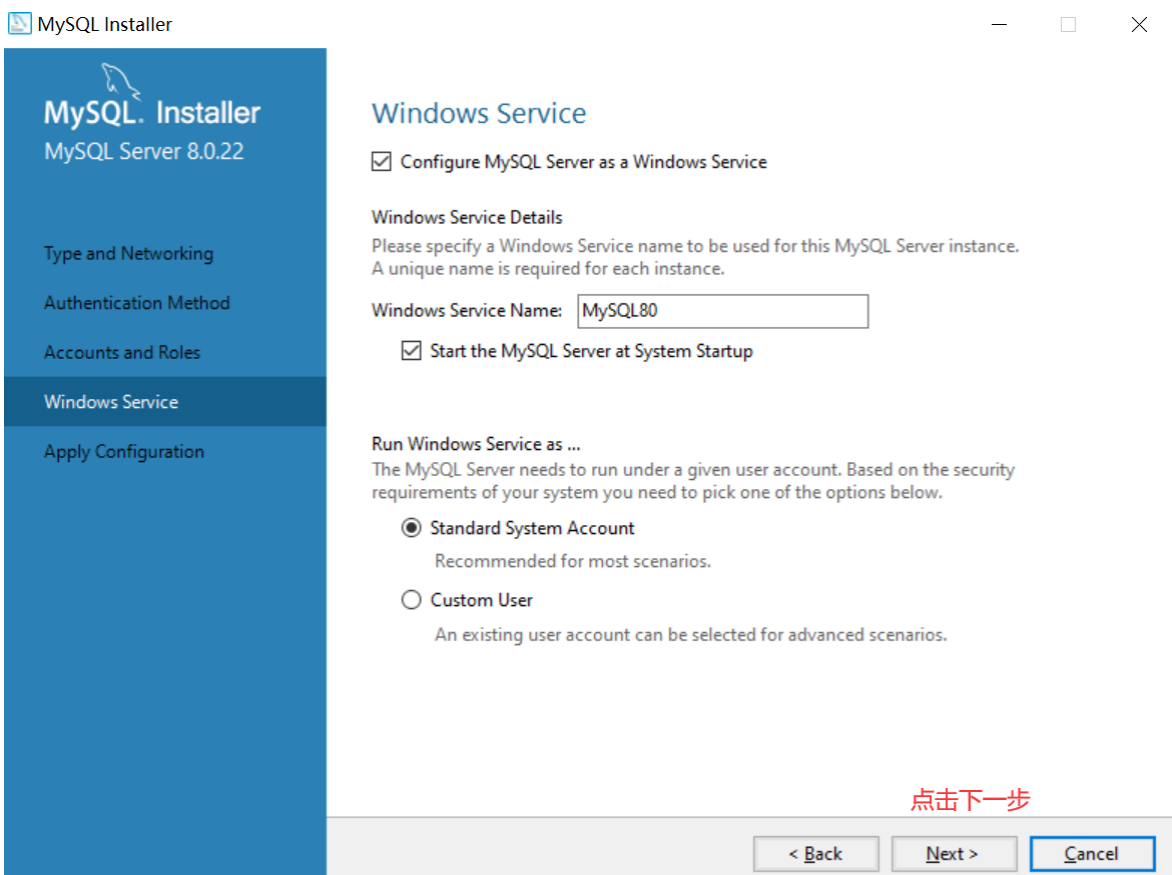
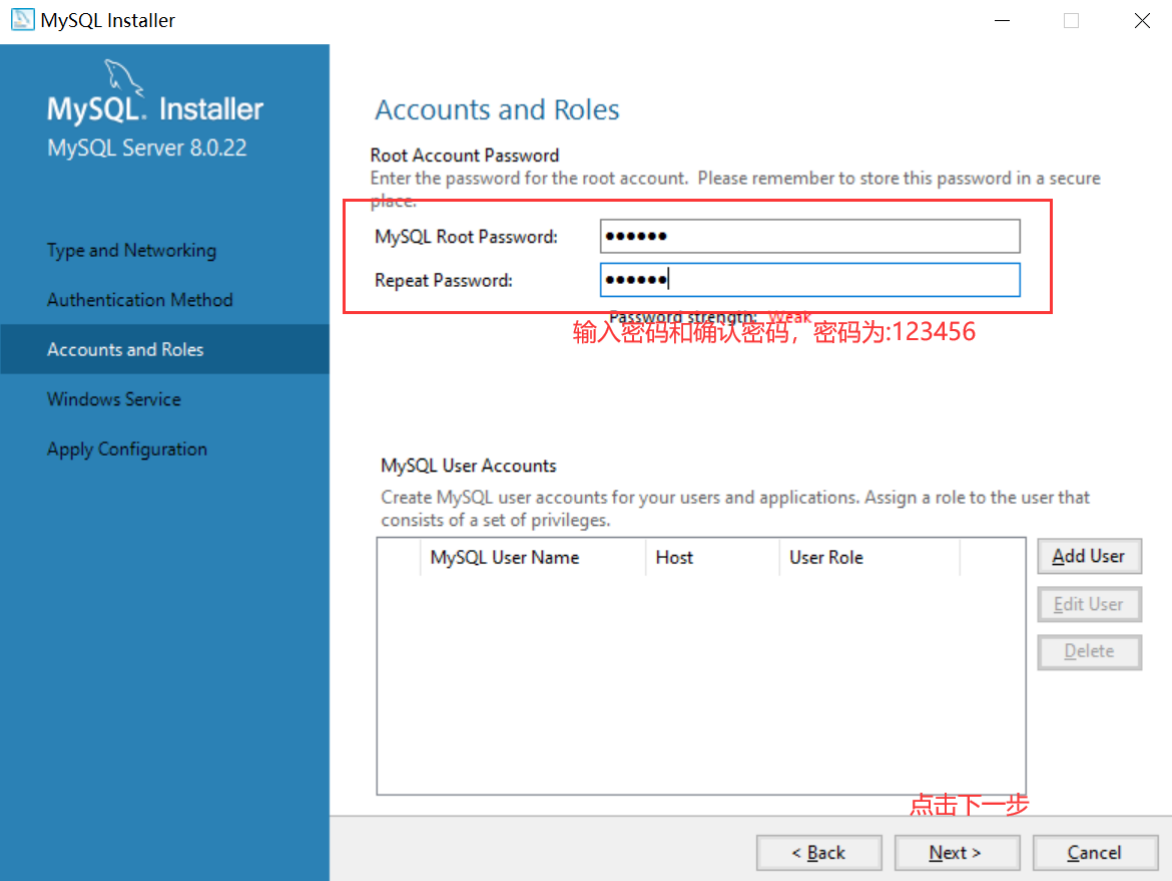
Security Guidance: When possible, we highly recommend taking needed steps towards upgrading your applications, libraries, and database servers to the new stronger authentication. This new method will significantly improve your security.

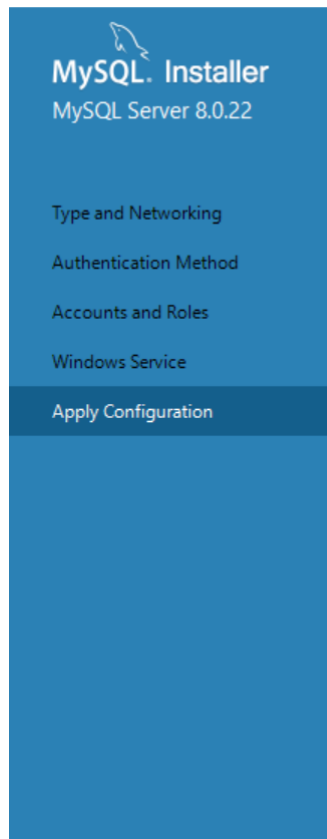
点击下一步

< Back

Next >

Cancel





## Apply Configuration

The configuration operation has completed.

Configuration Steps Log

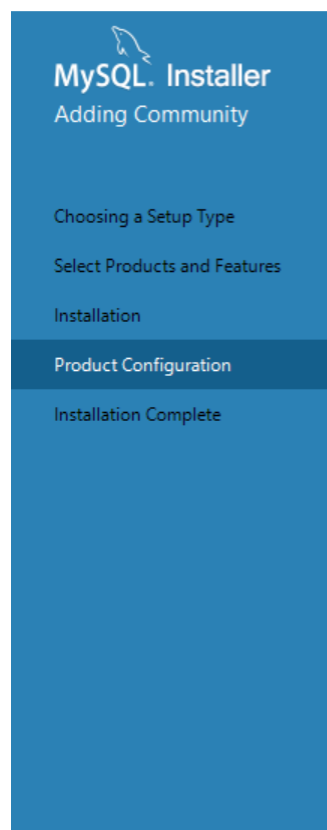
- ✓ Writing configuration file
- ✓ Updating Windows Firewall rules
- ✓ Adjusting Windows service
- ✓ Initializing database (may take a long time)
- ✓ Starting the server
- ✓ Applying security settings
- ✓ Updating the Start menu link

全是绿色对钩，表明配置成功安装，有一个错误，卸载重新安装

The configuration for MySQL Server 8.0.22 was successful.  
Click Finish to continue.

点击结束

Finish



## Product Configuration

We'll now walk through a configuration wizard for each of the following products.

You can cancel at any point if you wish to leave this wizard without configuring all the products.

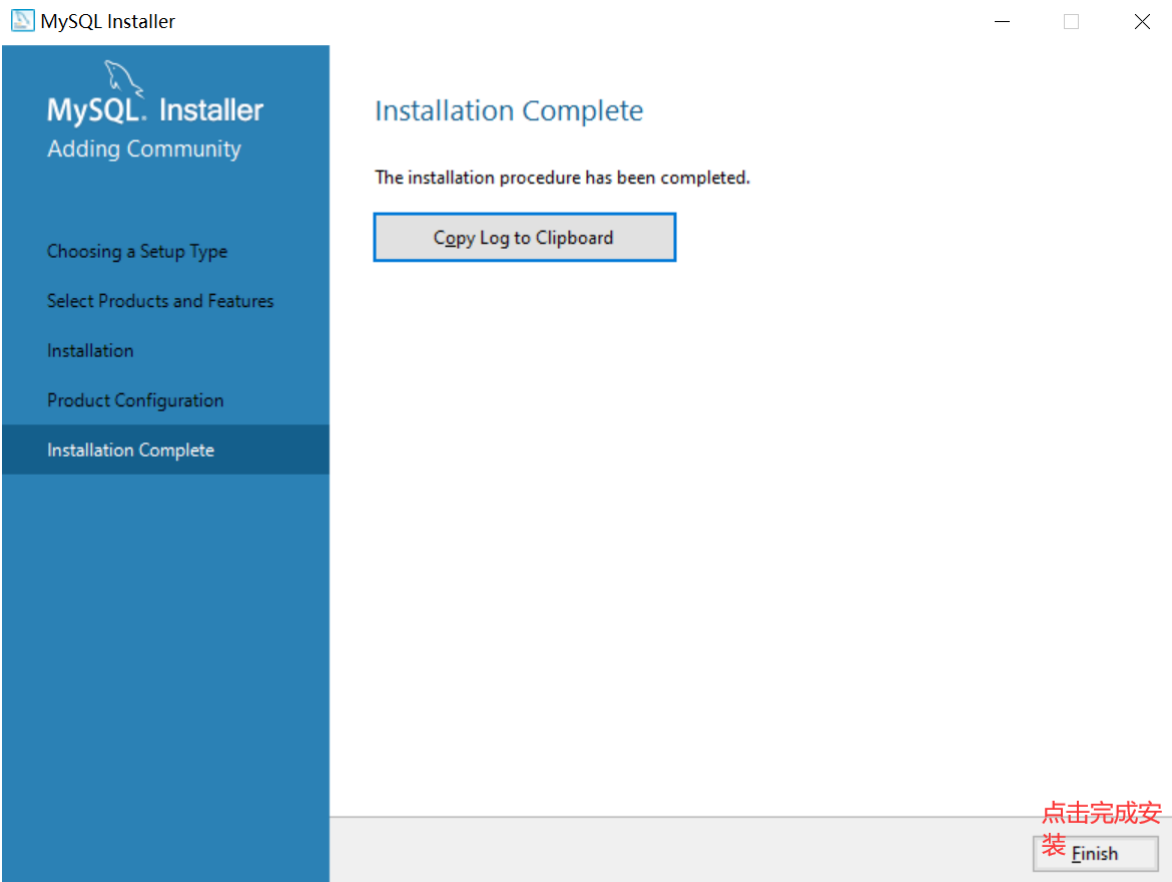
Product	Status
MySQL Server 8.0.22	Configuration complete.

点击下一步

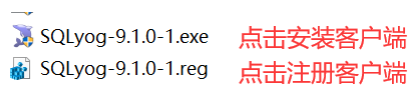
Next >

Cancel



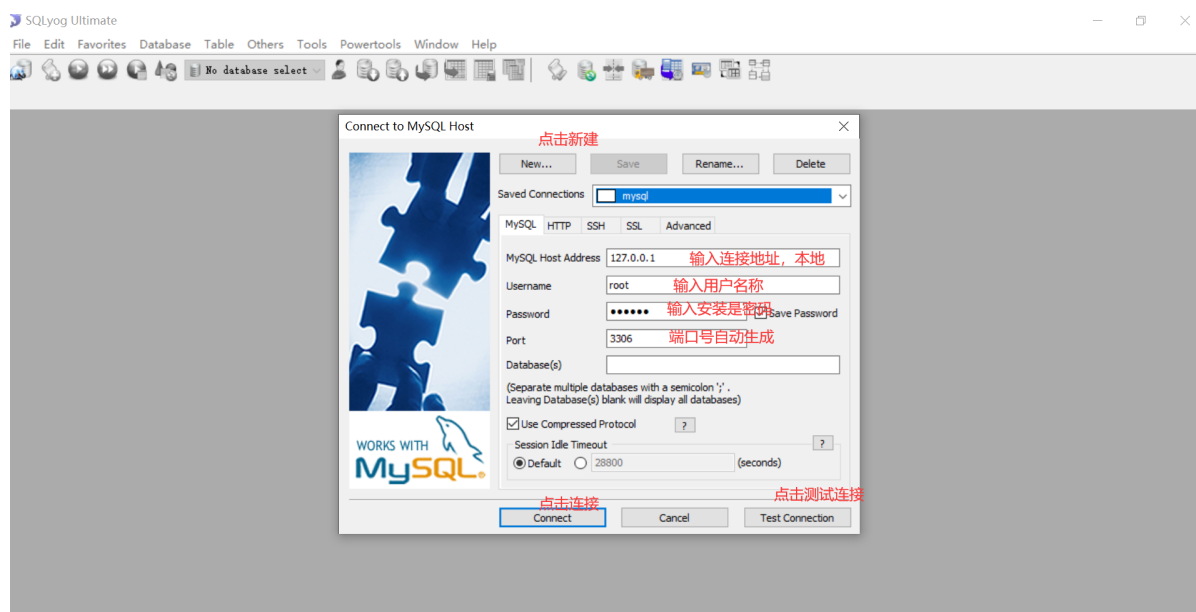


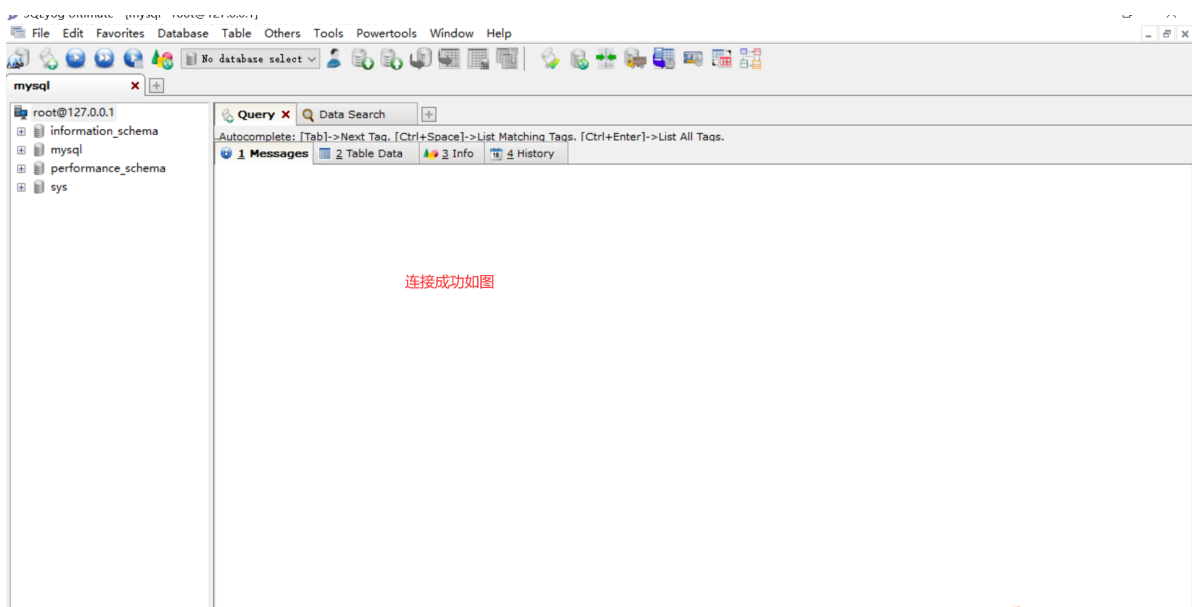
以上图为服务器端安装成功，接下来安装客户端如图



先安装在注册

客户端安装比较简单，点击执行文件傻瓜式安装，成功后弹出注册，点击注册文件安装即可，接下来客户端配置连接服务器如图：





```
#导入SQL脚本到数据库中
/*
SQLyog Ultimate v10.00 Beta1
MySQL - 8.0.23 : Database - book
*****
*/

/*!40101 SET NAMES utf8 */;

/*!40101 SET SQL_MODE='*/;

/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;
CREATE DATABASE /*!32312 IF NOT EXISTS*/ `book` /*!40100 DEFAULT CHARACTER SET utf8
COLLATE utf8_bin */ /*!80016 DEFAULT ENCRYPTION='N' */;

USE `book`;

/*Table structure for table `book` */

DROP TABLE IF EXISTS `book`;

CREATE TABLE `book` (
  `bid` int NOT NULL AUTO_INCREMENT,
  `cateid` int DEFAULT NULL,
  `bnum` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `bname` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `price` int DEFAULT NULL,
  `author` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `ddesc` text CHARACTER SET utf8 COLLATE utf8_bin,
  `quantity` int DEFAULT NULL,
  `deleted` int DEFAULT '0',
  `createtime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `modifytime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  PRIMARY KEY (`bid`),
  KEY `cateid` (`cateid`),
  CONSTRAINT `book_ibfk_1` FOREIGN KEY (`cateid`) REFERENCES `category` (`cateid`)
) ENGINE=InnoDB AUTO_INCREMENT=43 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;
```

```
/*Data for the table `book` */
```

insert into

```
`book`(`bid`,`cateid`,`bnum`,`bname`,`price`,`author`,`ddesc`,`quantity`,`deleted`,`createtime`,`modifytime`) values (1,2,'BN1001','《红楼梦》',99,'曹雪芹','《红楼梦》，中国古代章回体长篇小说，中国古典四大名著之一，一般认为是清代作家曹雪芹所著。小说以贾、史、王、薛四大家族的兴衰为背景，以富贵公子贾宝玉为视角，以贾宝玉与林黛玉、薛宝钗的爱情婚姻悲剧为主线，描绘了一批举止见识出于须眉之上的闺阁佳人的人生百态，展现了真正的人性美和悲剧美，可以说是一部从各个角度展现女性美以及中国古代社会世态百相的史诗性著作。',943,0,NULL,'2021-10-08 22:10:00'),(2,1,'BN1002','《我这一辈子》',55,'老舍','《我这一辈子》是老舍先生创作于1937年抗战前夕的一部著名的中篇小说。描写了一个旧时代普通巡警的坎坷一生。1937年7月1日载于《文学》第9卷第1号。《我这一辈子》是老舍第一个创作黄金时期的压轴作品，格外具有挺拔于时代的进步气息',998,0,NULL,'2021-10-08 21:02:34'),(3,1,'BN1003','《平凡的世界》',59,'路遥','《平凡的世界》是中国作家路遥创作的一部全景式地表现中国当代城乡社会生活的百万字长篇小说。全书共三部。1986年12月首次出版。\\n该书以中国70年代中期到80年代中期十年间为背景，通过复杂的矛盾纠葛，以孙少安和孙少平两兄弟为中心，刻画了当时社会各阶层众多普通人的形象；劳动与爱情、挫折与追求、痛苦与欢乐、日常生活与巨大社会冲突纷繁地交织在一起，深刻地展示了普通人在大时代历史进程中所走过的艰难曲折的道路',15,0,NULL,'2021-10-08 21:14:41'),(4,1,'BN1004','《梦里花落知多少》',29,'郭敬明','《梦里花落知多少》是当代作家郭敬明创作的一部长篇小说。小说以北京、上海等大都市为背景，讲述了几个年轻人的爱情故事，故事情节曲折，语言幽默生动，大量的引入口语与通俗幽默的比喻。 [1] \\n主人公是一些即将走出校门的大学生，在成长的过程中，友情、爱情都在经历着蜕变。小说一经出版便在市场上取得重大成功，销量上成为2004年全国文学类畅销书第一名。',9,0,'2021-06-25 11:15:37','2021-10-08 17:55:06'),(7,1,'BN1005','《我在未来等你》',39,'刘桐','如果见到17岁的自己，你会对他/她说些什么？和他/她一起做些什么？\\r\\n\\r\\n每个人肯定有不同的答案，但对于37岁的郝回归来说，见到17岁的自己，他做的第一件事就是告诉对方未来的样子，并希望通过这样的方式改变曾经的自己，去弥补遗憾。如果有机会，甚至想重过一遍人生。但事情真的会按照他想象的方向发展吗？这就是《我在未来等你》要讲述的故事。',10,0,NULL,'2021-10-08 15:56:07'),(9,1,'BN1006','《那些年我们一起追过的女孩》',35,'九把刀','这是一部关于青春爱情的小说',99,0,'2021-09-14 19:17:09',NULL),(10,19,'BN1007','《营造法》',50,'梁思成、林徽因','建筑类书籍',100,0,'2021-09-14 19:37:19','2021-09-29 09:48:37'),(11,1,'BN1008','《鬼吹灯2》',69,'天下霸唱2','《鬼吹灯》是天下霸唱创作的系列小说，《鬼吹灯》最早连载于2006年的天涯论坛，而后被起点中文网获得连载版权，同年9月《鬼吹灯之精绝古城》出版成书。《鬼吹灯》的故事情节围绕一本家传的秘书残卷展开，讲述了胡八一、王胖子和Shirley杨三位当代摸金校尉',98,0,NULL,NULL),(12,1,'BN1010','《盗墓笔记》',49,'南派三叔','《盗墓笔记》是南派三叔所著的盗墓题材小说，讲述吴邪、张起灵、吴三省等人进入古墓探险的故事',99,0,NULL,NULL),(13,1,'BN1010','《盗墓笔记1》',49,'南派三叔','《盗墓笔记1》是南派三叔所著的盗墓题材小说，讲述吴邪、张起灵、吴三省等人进入古墓探险的故事',100,0,NULL,NULL),(18,3,'BN2001','《操作系统》',56,'孟庆昌','《操作系统》是2009年11月1日电子工业出版社出版的高等教育教材，作者是孟庆昌、牛欣源。\\n本书可作为大学本科及专科计算机专业教材或考研参考书，也可作为计算机工作者的自学用书。',250,0,'2021-10-11 09:18:30','2021-10-14 14:42:52'),(19,3,'BN2005','《Java从入门到精通》',59,'国家863中部软件孵化器','《Java从入门到精通》是人民邮电出版社于 2010年出版的图书，由国家863中部软件孵化器主编。以零基础讲解为宗旨，深入浅出地讲解Java的各项技术及实战技能。本书从初学者角度出发，通过通俗易懂的语言、丰富多彩的实例，详细介绍了使用Java语言进行程序开发应该掌握的各方面技术。全书共分28章，包括：初识Java，熟悉Eclipse开发工具，Java 语言基础，流程控制，字符串，数组，类和对象，包装类，数字处理类，接口、继承与多态，类的高级特性，异常处理，Swing程序设计，集合类，I/O输入输出，反射，枚举类型与泛型，多线程，网络通信，数据库操作，Swing表格组件，Swing树组件，Swing其他高级组件，高级布局管理器，高级事件处理，AWT绘图与音频播放，打印技术和企业进销存管理系统等。所有知识都结合具体实例进行介绍，涉及的程序代码给出了详细的注释，可以使读者轻松领会Java程序开发的精髓，快速提高开发技能。',99,0,'2021-10-11 16:49:43','2021-10-11 16:57:08'),(20,1,'BN2800','《第七天》',35,'余华','该小说•用荒诞的笔触和意象讲述了一个普通人死后的七日见闻：讲述了现实的真实与荒诞；讲述了生命的幸福和苦难；讲述了眼泪的丰富和宽广；讲述了比恨更绝望比死更冷酷的存在。',10,0,NULL,'2021-10-14 14:43:32'),(21,1,'BN2801','《许三观卖血记》',49,'余华','小说讲述了许三观靠着卖血渡过了人生的一个个难关，战胜了命运强加给他的惊涛骇浪，而当他老了，知道自己的血再也没有人要时，精神却崩溃了。它以博大的温情描绘了磨难中的人生，以激烈的故事形式表达了人在面对厄运时求生的欲望',30,0,NULL,'2021-10-14 14:44:32'),(22,1,'BN1090','《骆驼祥子》',30,'老舍','描述了20世纪20年代军阀混战时期人力车夫的悲惨命运。祥子是旧社会劳苦大众的代表人物。',20,0,NULL,'2021-10-14 14:44:44'),(23,1,'BN1054','《四世同堂》',109,'老舍','这是一部表现抗战北平沦陷区普通民众生活与抗战的长篇小说，全书共三部。该书以北平小羊圈胡同为背景，通过复杂的矛盾纠葛，以胡同内的祁家为主，钱家、冠家以及其他居民为辅，刻画了当时社会各阶层众多普通人的形象；反抗与顺从的选择，国家与个人的选择种种艰难的选择纷繁地交织在一起，深刻地展示了普通人在大时代历史进程中所走过的艰难曲折的道路。',15,0,NULL,'2021-10-14 14:44:57'),(24,1,'BN2040','《冬与狮》',26,'兰晓龙',NULL,10,0,NULL,NULL),(25,1,'BN2043','《天堂旅行团》',29,'张嘉佳','睽违三年，继《全世界》《云边》之后，张嘉佳2021全新长篇小说力作。希望这本书能照亮那些在黑夜中走路的人，这世界不停开花，我想放进你心里一朵。',8,0,NULL,'2021-10-14 14:45:16'),(26,44,'BN2045','《汤姆叔叔的小屋》',30,'斯托夫人','这部小说是19世纪最畅销的小说（以及第二畅销的书，仅次于最畅销的书《圣经》），并被认为是刺激1850年代废奴主义兴起的一大原因。在它发表的头一年里，在美国本土便销售出了三十万册。《汤姆叔叔的小屋》对美国社会的影响是如此巨大，以致在南北战争爆发的初期，当林肯接见斯托夫人时，曾说到：“你就是那位引发了一场大战的小妇人。”后来，这句话为众多作家竞相引
```

用。',15,0,NULL,'2021-10-14 14:45:57'),(27,4,'BN2046','《张宇基础三十讲》',90,'张宇','考研数学复习一般分为基础阶段、强化阶段和冲刺阶段,其主体及重点在于强化阶段。在这个阶段考生首先要用相对集中的时间做大量的题目训练,在练习之后考生应做好总结工作,对经典型、针对性、预测性的题目多加分析,由此本书应运而生。本书以考研命题所使用的所有题目源头为依据,精心挑选和编制了数百道题目。利于考生在复习过程中开拓思路,练习分析问题,解决问题的能力。本书内容包括高等数学(微积分)、线性代数、概率论与数理统计,题目类型有选择题、填空题、解答题构成。',10,0,NULL,'2021-10-14 14:46:10'),(28,46,'BN2047','《逻辑推理新趣题》',100,'(美)萨默斯','解答这些趣题的一般方法是:在每道趣题末尾提出的问题中,陈述了要寻找的对象所必须满足的一个条件。例如,“四支棒球队中的哪一支球队——野猫队、红猫队、美洲狮队,还是家猫队夺得了锦标?”就是把“夺得了锦标”规定为一个条件。题目中的线索也或明或暗地规定着各个“可疑分子”所必须满足的条件。“侦探”要做的事,是发现全部的条件,然后判定哪一个——而且是唯一的一个——“可疑分子”能够满足问题中陈述的条件。\\n趣题按易后难的原则顺序排列,因此如果一位读者从第一道趣题开始,循序而进,你会发现自己居然有能力解决那些对他来说原本难得无法解决的趣题。为了给钻进死胡同的读者提供帮助,每道趣题都附有“提示”——倒排在书页底部——用意是将读者的思路引向正确的方向。',20,0,NULL,'2021-10-14 14:46:21'),(29,48,'BN2007','《黑猫警长》',18,'熊大','儿童',200,0,'2021-10-14 16:04:27','2021-10-14 16:06:08'),(30,48,'BN2101','《给男孩的情绪管理绘本》',45,'乐凡,段张取艺','男孩被人欺负了,该不该还手?男孩哭、胆小,是不是不够男子汉?男孩说“不想当哥哥”,怎么办?.....真实的身边事,真正贴近中国孩子的生活,给每个家有男孩的家长,让家长真正理解男孩,让男孩自在成长不压抑!',10,0,'2021-10-16 19:05:45',NULL),(31,48,'BN2102','《学会管自己(歪歪兔独立成长童话)》',64,'陈梦敏','让孩子快乐入学、轻松学习,养成不马虎、不拖拉、不找借口.....的好习惯,独立品格、学习能力、社会适应三方面应对小学新环境的文学启蒙桥梁书童话故事。',10,0,'2021-10-16 19:07:08',NULL),(32,48,'BN2003','《安徒生童话全集》',119,'安徒生','丹麦驻华大使为本题序;著名翻译家任溶溶先生权威翻译;获得丹麦女王专项经费捐赠;丹麦欧登塞市博物馆、丹麦皇家图书馆倾情提供图片;收录安徒生手迹、剪纸、手稿影印、线描作品、创作年表等丰富资料经典儿童文学',12,0,'2021-10-16 19:07:55',NULL),(33,48,'BN2004','《我会照顾我的牙》',120,'[日]楠章子','中日儿童牙医联合审读推荐科普绘本,给0-6岁儿童和家长科学、实用的口腔护理方案。让孩子了解龋齿是怎么形成的,学会正确的刷牙方式,缓解和消除看牙医时的恐惧,学会保护自己的牙齿,预防龋齿',5,0,'2021-10-16 19:08:54',NULL),(34,19,'BN2105','《建筑类型学(第三版)》',34,'汪丽君','本教材以西方当代建筑类型学理论及其设计方法为研究对象,宽泛地论证了这种学说的历史、文化和地域背景,把西方诸多带有类型学色彩的建筑师融为一体并加以分析比较,从而阐明建筑类型学的深刻含义及普遍的适应性。尤其是它对建筑形态的影响进行了系统的研究,从理论分析和实践考察的双重视角,对当代西方建筑类型学理论及其设计方法在建筑形态上的影响进行细致的梳理,并对其具体表现特征和美学价值取向进行深入探讨,以期发掘它在建筑形态构成上的某些规律性的东西。并联系我国当前城市建设中存在的一些问题和建筑设计创作的具体情况,为学生提供有益的启示与借鉴的新思路,从而引导他们树立理性思考的设计观念,以推动整体设计水平的提升。',5,0,'2021-10-16 19:10:32',NULL),(35,19,'BN2106','《建筑类专业员工职业素养读本》',12,'吴佳南,吴立威','建筑类专业员工职业素养读本'基于建筑类行业的特点和建筑专业相关岗位的任职要求,从基本职业素养、职业的认知、职业道德素养、职业能力素养、法律素养5个方面,介绍建筑专业人员应该具备的职业素养。《建筑类专业员工职业素养读本/职业素质养成教育系列教材》的内容力求体现“以就业为导向,以能力为本位”的精神,列举的案例丰富生动,撰写的内容浅显易懂,可读性及应用性强,能够有效提升建筑专业学生的职业素养,增强建筑专业学生的岗位适应能力,为建筑专业学生的职业生涯可持续发展奠定良好的基础。',5,0,'2021-10-16 19:12:06',NULL),(36,3,'BN2107','《深入理解计算机系统》',92,'卡内基','本书将操作系统、编译原理、计算机体系结构等课程知识连接并融会贯通。',10,0,'2021-10-16 19:16:10',NULL),(37,3,'BN2108','《计算机网络与通信基础》',49,'谢雨飞、田启川','计算机网络技术的发展,促进了我国信息化的发展。信息化是当今世界经济社会发展的重要因素,是我国实现现代化、工业化的关键性的一环。《计算机网络与通信基础》着眼于实际应用,具有鲜明特点,依据且不限于专业规范,分别从基本概念、专业技能素质和专业综合素质三个方面突出本课程所要具备的知识和能力;注重计算机网络与通信技术与专业结合的紧密性,为进一步深入学习研究智能化和信息化技术提供相关的知识基础。',20,0,'2021-10-16 19:17:57',NULL),(38,3,'BN2109','《计算机组成原理(第3版)》',35,'唐朔飞','本书是“十二五”普通高等教育本科\*规划教材。本书第1版被列为“面向21世纪课程教材”,是教育部高等学校计算机科学与技术教学指导委员会组织编写的“体系结构—组成原理—微机技术”系列教材之一,是2005年国家精品课程主讲教材,于2002年获普通高等学校优秀教材二等奖。全书共分为4篇,第1篇(第1、2章)介绍计算机的基本组成、发展及应用;第2篇(第3~5章)介绍系统总线、存储器(包括主存储器?高速缓冲存储器和辅助存储器)和输入输出系统;第3篇(第6~8章)介绍CPU的特性、结构和功能,包括计算机的算术逻辑单元、指令系统、指令流水、RISC技术及中断系统;第4篇(第9、10章)介绍控制单元的功能和设计,包括时序系统以及采用组合逻辑和微程序设计控制单元的设计思想与实现措施。每章后均附有思考题与习题。本书概念清楚,通俗易懂,书中举例力求与当代计算机技术相结合,可作为高等学校计算机专业教材,也可作为其他科技人员的参考书。',20,0,'2021-10-16 19:19:24',NULL),(39,3,'BN2110','《计算机是怎样跑起来的》',45,'[日]矢泽久雄','《计算机是怎样跑起来的》倡导在计算机迅速发展、技术不断革新的今天,回归到计算机的基础知识上。通过探究计算机的本质,提升工程师对计算机的兴趣,在面对复杂的\*\*新技术时,能够迅速掌握其要点并灵活运用。\\n《计算机是怎样跑起来的》以图配文,以计算机的三大原则为开端、相继介绍了计算机的结构、手工汇编、程序流程、算法、数据结构、面向对象编程、数据库、TCP IP 网络、数据加密、XML、计算机系统开发以及SE 的相关知识。本书适合计算机爱好者和相关从业人员阅读。\\n《计算机是怎样跑起来的》图文并茂,通俗易懂,非常适合计算机爱好者和相关从业人员阅读。',20,0,'2021-10-16 19:20:21',NULL),(40,3,'BN2111','《计算机图形学——几何体数据结构》',82,'[美]埃尔马·拉格迪普','本书详细阐述了与计算机图形学中几何体数据结构相关的基本解决方案,主要包括四叉树和八叉树、正交视窗和穿刺查询、BSP树、包围体分层结构、距离场、



Voronoi图、几何接近图形、运动数据结构、退化和鲁棒性，以及几何数据结构的动态化等内容。此外，本书还提供了相应的示例，以帮助读者进一步理解相关方案的实现过程。 本书适合作为高等院校计算机及相关专业的教材和教学参考书，也可作为相关开发人员的自学教材和参考手册。',15,0,'2021-10-16 19:21:16',NULL),  
(41,3,'BN2113','《计算机应用基础（第3版）》',40,'张超、王剑云、陈宗民、叶文','本书共分为5章，分别介绍计算机基础知识、计算机硬件系统、计算机软件、多媒体技术、计算机网络、信息安全，另附有一篇故事性的计算机发展史作为附加阅读材料； 每章均包含大量练习，读者通过练习可快速掌握和巩固相关的知识。 本书配有专门的实验指导，全部为上机实验，案例典型、内容新颖、概念准确、通俗易懂、实用性强。 本书可作为高等院校计算机应用基础指导教材，也可作为广大计算机爱好者的自学教材或参考用书。',10,0,'2021-10-16 19:22:35',NULL),  
(42,3,'BN8000','操作系统',150,'去去去','不好使大高回报',1000,1,'2021-10-17 10:01:15','2021-10-17 10:01:36');

```
/*Table structure for table `borrow` */
```

```
DROP TABLE IF EXISTS `borrow`;
```

```
CREATE TABLE `borrow` (  
  `boid` int NOT NULL AUTO_INCREMENT,  
  `sid` int DEFAULT NULL,  
  `bid` int DEFAULT NULL,  
  `otime` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `itime` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `quantity` int DEFAULT NULL,  
  `deleted` int DEFAULT '0',  
  `uid` int DEFAULT NULL,  
  `stat` int DEFAULT '0' COMMENT '0已借出、1已归还',  
  PRIMARY KEY (`boid`),  
  KEY `sid` (`sid`),  
  KEY `bid` (`bid`),  
  KEY `uid` (`uid`),  
  CONSTRAINT `borrow_ibfk_1` FOREIGN KEY (`sid`) REFERENCES `student` (`sid`),  
  CONSTRAINT `borrow_ibfk_2` FOREIGN KEY (`bid`) REFERENCES `book` (`bid`),  
  CONSTRAINT `borrow_ibfk_3` FOREIGN KEY (`uid`) REFERENCES `users` (`uid`)  
) ENGINE=InnoDB AUTO_INCREMENT=78 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;
```

```
/*Data for the table `borrow` */
```

```
insert into  
`borrow`(`boid`,`sid`,`bid`,`otime`,`itime`,`quantity`,`deleted`,`uid`,`stat`) values  
(56,1,3,'2021-09-15 19:44:17','2021-10-09 14:39:25',2,0,1,1),(57,2,7,'2021-09-15  
20:10:10','2021-10-08 22:03:24',1,0,1,1),(58,1,1,'2021-09-15 21:02:45','2021-09-15  
21:04:44',1,0,1,1),(59,1,2,'2021-09-15 21:04:40','2021-09-15 21:04:45',1,0,1,1),  
(60,2,2,'2021-09-29 09:49:55','2021-09-29 09:58:32',2,0,1,1),(61,2,3,'2021-09-29  
14:41:21','2021-10-09 11:09:28',1,0,1,1),(62,4,9,'2021-10-08 22:45:07','',1,0,NULL,0),  
(63,4,3,'2021-10-09 14:44:30','',1,0,NULL,0),(64,4,4,'2021-10-09  
14:44:46','',1,0,NULL,0),(65,1,12,'2021-10-09 14:44:55','',1,0,NULL,0),(66,6,12,'2021-  
10-09 14:45:14','2021-10-12 21:14:08',1,0,NULL,1),(67,6,1,'2021-10-09  
14:45:36','',1,0,NULL,0),(68,8,4,'2021-10-09 14:46:24','2021-10-09  
14:46:39',1,0,NULL,1),(69,6,11,'2021-10-11 09:07:40','',2,0,NULL,0),(70,4,19,'2021-10-  
11 17:11:40','2021-10-11 17:24:14',2,0,NULL,1),(71,6,4,'2021-10-12 21:06:10','2021-10-  
09 14:39:25',1,0,1,0),(72,2,12,'2021-10-13 20:47:03','2021-10-13 20:47:17',2,0,NULL,1),  
(73,2,7,'2021-10-14 15:57:41','2021-10-14 15:58:57',5,0,NULL,1),(74,8,1,'2021-10-16  
15:41:26','',2,0,NULL,0),(75,13,1,'2021-10-16 19:31:53','',5,0,NULL,0),(76,2,41,'2021-  
10-16 19:35:45','',5,0,NULL,0),(77,3,1,'2021-10-17 10:16:32','2021-10-17  
10:17:03',2,0,NULL,1);
```

```
/*Table structure for table `category` */
```

```
DROP TABLE IF EXISTS `category`;
```

```
CREATE TABLE `category` (  
  `cateid` int NOT NULL AUTO_INCREMENT,
```

```

`catename` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
`deleted` int DEFAULT '0',
`createtime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
`modifytime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
PRIMARY KEY (`cateid`)
) ENGINE=InnoDB AUTO_INCREMENT=51 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;

/*Data for the table `category` */

insert into `category`(`cateid`,`catename`,`deleted`,`createtime`,`modifytime`) values
(1,'近代小说类',0,NULL,'2021-10-12 10:06:10'),(2,'古典小说类',0,NULL,'2021-10-05
19:57:47'),(3,'计算机类',0,NULL,NULL),(4,'考研类',0,'2021-06-25 10:55:42','2021-09-27
10:46:47'),(15,'奇幻类',1,NULL,'2021-09-02 11:53:59'),(19,'建筑类',0,'2021-09-14
19:30:03',NULL),(36,'文学类',1,'2021-09-29 10:51:21',NULL),(43,'历史类',0,'2021-10-05
19:14:49',NULL),(44,'外国小说类',0,'2021-10-05 19:15:29',NULL),(45,'英语类',1,'2021-10-05
19:30:42',NULL),(46,'逻辑类',0,NULL,NULL),(47,'儿童类',1,'2021-10-14 16:01:36',NULL),
(48,'儿童类',0,'2021-10-14 16:02:37',NULL),(49,'英文类',1,'2021-10-16 15:40:37',NULL),
(50,'科幻类',1,'2021-10-17 09:59:43','2021-10-17 10:00:07');

/*Table structure for table `logs` */

DROP TABLE IF EXISTS `logs`;

CREATE TABLE `logs` (
  `operid` int NOT NULL AUTO_INCREMENT,
  `sid` int DEFAULT NULL,
  `uid` int DEFAULT NULL,
  `opertime` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `opername` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `ip` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,
  `methods` text CHARACTER SET utf8 COLLATE utf8_bin,
  `ddesc` text CHARACTER SET utf8 COLLATE utf8_bin,
  PRIMARY KEY (`operid`),
  KEY `sid` (`sid`),
  KEY `uid` (`uid`),
  CONSTRAINT `logs_ibfk_1` FOREIGN KEY (`sid`) REFERENCES `student` (`sid`),
  CONSTRAINT `logs_ibfk_2` FOREIGN KEY (`uid`) REFERENCES `users` (`uid`)
) ENGINE=InnoDB AUTO_INCREMENT=225 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;

/*Data for the table `logs` */

```

```
insert into `logs`(`operid`,`sid`,`uid`,`opertime`,`opername`,`ip`,`methods`,`ddesc`)
values (2,NULL,NULL,'2021-06-24
14:47:18','admin','127.0.0.1','com.xls.app.controller.UsersController.changeStats','更改
用户状态'),(3,NULL,NULL,'2021-06-24
14:48:53','admin','127.0.0.1','com.xls.app.controller.UsersController.save','添加用户信
息'),(4,NULL,NULL,'2021-06-24 14:56:38','张
飞','127.0.0.1','com.xls.app.controller.UsersController.changeStats','更改用户状态'),
(5,NULL,NULL,'2021-06-24 14:56:49','张
飞','127.0.0.1','com.xls.app.controller.UsersController.changeStats','更改用户状态'),
(6,NULL,NULL,'2021-06-25 09:08:08','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(7,NULL,NULL,'2021-06-25 09:13:45','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(8,NULL,NULL,'2021-06-25 09:15:50','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(9,NULL,NULL,'2021-06-25 09:16:43','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(10,NULL,NULL,'2021-06-25 09:17:20','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(11,NULL,NULL,'2021-06-25 09:18:59','张
飞','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(12,NULL,NULL,'2021-06-25
09:22:43','admin','127.0.0.1','com.xls.app.controller.UsersController.changeStats','更改
用户状态'),(13,NULL,NULL,'2021-06-25 09:23:01','李
逵','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(14,NULL,NULL,'2021-06-25 09:23:39','李
逵','127.0.0.1','com.xls.app.controller.BorrowController.borrowBook','添加借书信息'),
(15,NULL,NULL,'2021-06-25
09:56:43','admin','127.0.0.1','com.xls.app.controller.UsersController.update','更新用户信
息'),(16,NULL,NULL,'2021-06-25
09:57:25','admin','127.0.0.1','com.xls.app.controller.UsersController.update','更新用户信
息'),(17,NULL,NULL,'2021-06-25 10:51:03','张
飞','127.0.0.1','com.xls.app.controller.CategoryController.save','图书类别信息添加操作'),
(18,NULL,NULL,'2021-06-25 10:54:20','张
飞','127.0.0.1','com.xls.app.controller.CategoryController.save','图书类别信息添加操作'),
(19,NULL,NULL,'2021-06-25 10:55:42','张
飞','127.0.0.1','com.xls.app.controller.CategoryController.save','图书类别信息添加操作'),
(20,NULL,NULL,'2021-06-25 10:56:49','张
飞','127.0.0.1','com.xls.app.controller.CategoryController.update','图书类别信息更新操作'),
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录'),(70,NULL,NULL,'2021-09-15 21:04:29','张
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(74,NULL,NULL,'2021-09-15 21:04:44','张  
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(83,NULL,NULL,'2021-09-29 09:48:38','张  
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书信息'),(84,NULL,NULL,'2021-09-29 09:49:25','张  
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书信息'),(102,NULL,NULL,'2021-09-29 09:58:25','张

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类别信息'),(162,NULL,NULL,'2021-09-29 10:46:25','张  
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飞','0:0:0:0:0:0:0:1','com.book.app.controller.CategoryController.findPager','分页查询图书类别信息'),(171,NULL,NULL,'2021-09-29 10:53:59','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(172,NULL,NULL,'2021-09-29 10:54:30','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.save','添加学生信息'),(173,NULL,NULL,'2021-09-29 10:54:30','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(174,NULL,NULL,'2021-09-29 11:02:35','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(175,NULL,NULL,'2021-09-29 11:02:59','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(176,NULL,NULL,'2021-09-29 11:03:06','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(177,NULL,NULL,'2021-09-29 11:05:46','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(178,NULL,NULL,'2021-09-29 11:06:05','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(179,NULL,NULL,'2021-09-29 11:06:54','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.UsersController.findPager','用户分页查询信息'),(180,NULL,NULL,'2021-09-29 11:07:03','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(181,NULL,NULL,'2021-09-29 11:07:13','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(182,NULL,NULL,'2021-09-29 11:08:57','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(183,NULL,NULL,'2021-09-29 11:09:08','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(184,NULL,NULL,'2021-09-29 11:11:54','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(185,NULL,NULL,'2021-09-29 11:12:23','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(186,NULL,NULL,'2021-09-29 11:14:05','张

飞','127.0.0.1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(187,NULL,NULL,'2021-09-29 11:14:13','张

飞','127.0.0.1','com.book.app.controller.StudentController.update','更新学生信息'),(188,NULL,NULL,'2021-09-29 11:15:34','张

飞','127.0.0.1','com.book.app.controller.StudentController.update','更新学生信息'),(189,NULL,NULL,'2021-09-29 11:17:57','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(190,NULL,NULL,'2021-09-29 11:18:10','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.update','更新学生信息'),(191,NULL,NULL,'2021-09-29 11:18:18','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(192,NULL,NULL,'2021-09-29 11:21:34','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.findPager','分页查询学生信息'),(193,NULL,NULL,'2021-09-29 11:21:38','张

飞','0:0:0:0:0:0:0:1','com.book.app.controller.StudentController.removeBatch','批量删除学

生信息'), (194, NULL, NULL, '2021-09-29 11:21:38', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findPager', '分页查询学生信息'), (195, NULL, NULL, '2021-09-29 11:22:01', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.save', '添加学生信息'), (196, NULL, NULL, '2021-09-29 11:22:01', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findPager', '分页查询学生信息'), (197, NULL, NULL, '2021-09-29 11:22:09', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (198, NULL, NULL, '2021-09-29 11:23:06', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (199, NULL, NULL, '2021-09-29 11:23:06', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (200, NULL, NULL, '2021-09-29 11:28:12', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (201, NULL, NULL, '2021-09-29 11:28:12', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (202, NULL, NULL, '2021-09-29 14:41:08', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (203, NULL, NULL, '2021-09-29 14:41:12', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (204, NULL, NULL, '2021-09-29 14:41:12', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (205, NULL, NULL, '2021-09-29 14:41:21', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.borrowBook', '添加借阅信息'), (206, NULL, NULL, '2021-09-29 14:41:21', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (207, NULL, NULL, '2021-10-05 22:20:46', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.UsersController.findPager', '用户分页查询信息'), (208, NULL, NULL, '2021-10-05 22:39:19', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findPager', '分页查询馆藏图书信息'), (209, NULL, NULL, '2021-10-05 22:39:20', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.CategoryController.findPager', '分页查询图书类别信息'), (210, NULL, NULL, '2021-10-05 22:39:21', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (211, NULL, NULL, '2021-10-06 16:26:16', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findPager', '分页查询学生信息'), (212, NULL, NULL, '2021-10-06 18:20:50', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findPager', '分页查询馆藏图书信息'), (213, NULL, NULL, '2021-10-08 16:33:45', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (214, NULL, NULL, '2021-10-08 21:54:29', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (215, NULL, NULL, '2021-10-08 22:00:18', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.CategoryController.findPager', '分页查询图书类别信息'), (216, NULL, NULL, '2021-10-08 22:01:17', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (217, NULL, NULL, '2021-10-08 22:01:17', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (218, NULL, NULL, '2021-10-08 22:03:24', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.backBook', '归还图书'), (219, NULL, NULL, '2021-10-08 22:03:24', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BorrowController.findPager', '分页查询借阅信息'), (220, NULL, NULL, '2021-10-08 22:21:33', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (221, NULL, NULL, '2021-10-08 22:21:33', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (222, NULL, NULL, '2021-10-08 22:31:08', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.BookController.findAll', '查询所有馆藏图书信息, 初始化借阅页面下拉列表'), (223, NULL, NULL, '2021-10-08 22:31:08', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (224, NULL, NULL, '2021-10-08 22:53:50', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表'), (224, NULL, NULL, '2021-10-08 22:53:50', '张飞', '0:0:0:0:0:0:0:1', 'com.book.app.controller.StudentController.findAll', '查询所有读者信息, 初始化下拉列表')



```
飞','0:0:0:0:0:0:1','com.book.app.controller.BorrowController.findPager','分页查询借阅信息');
```

```
/*Table structure for table `student` */
```

```
DROP TABLE IF EXISTS `student`;
```

```
CREATE TABLE `student` (  
  `sid` int NOT NULL AUTO_INCREMENT,  
  `snum` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `sname` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `specialty` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `sex` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `tel` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `deleted` int DEFAULT '0',  
  `createtime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `modifytime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  PRIMARY KEY (`sid`)  
) ENGINE=InnoDB AUTO_INCREMENT=17 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;
```

```
/*Data for the table `student` */
```

```
insert into  
`student`(`sid`,`snum`,`sname`,`specialty`,`sex`,`tel`,`deleted`,`createtime`,`modifytime`) values (1,'20181001','王婧莹','软件工程','女','13474186689',0,NULL,NULL),  
(2,'20181002','冯茹意','软件工程','女','13456565566',0,NULL,NULL),(3,'20181003','王湛','软件工程','女','15078787788',0,NULL,NULL),(4,'20181004','汪洋华','软件工程','女','18765655566',0,NULL,NULL),(5,'20181005','曹雨欣','软件工程','女','18145567878',0,NULL,NULL),(6,'20181206','邓易帆','软件工程','女','13358588855',0,NULL,NULL),(8,'20181009','王冰侠','软件工程','男','13556565787',0,NULL,NULL),(9,'20181010','王冰侠','软件工程','男','13576678998',1,NULL,NULL),(10,'20181018','崔柯欣','软件工程','男','13556568989',1,NULL,NULL),(11,'20182015','张宇佳','软件工程','女','15099997878',0,NULL,NULL),(12,'20181023','崔柯欣','软件工程','女','134582080',1,NULL,NULL),(13,'20181023','崔柯欣','软件工程','女','13689767878',0,NULL,NULL),(14,'20189999','王婧莹1','软件工程','男','13474189892',1,NULL,NULL),(15,'20181019','赵云','大数据','女','134*****',0,NULL,NULL),(16,'20181019','邓啥的','计科','女','176478934789',1,NULL,NULL);
```

```
/*Table structure for table `users` */
```

```
DROP TABLE IF EXISTS `users`;
```

```
CREATE TABLE `users` (  
  `uid` int NOT NULL AUTO_INCREMENT,  
  `password` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT '000000',  
  `uname` varchar(50) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `images` text CHARACTER SET utf8 COLLATE utf8_bin,  
  `stats` int DEFAULT '0' COMMENT '0表示启用、1禁用状态',  
  `deleted` int DEFAULT '0',  
  `createtime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  `modifytime` varchar(30) CHARACTER SET utf8 COLLATE utf8_bin DEFAULT NULL,  
  PRIMARY KEY (`uid`)  
) ENGINE=InnoDB AUTO_INCREMENT=11 DEFAULT CHARSET=utf8 COLLATE=utf8_bin;
```

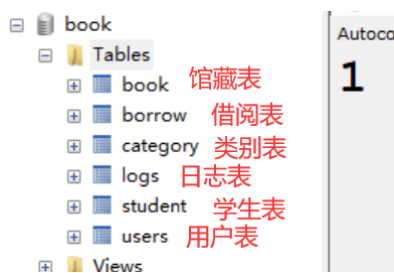
```
/*Data for the table `users` */
```

```

insert into
`users`(`uid`,`password`,`uname`,`images`,`stats`,`deleted`,`createtime`,`modifytime`)
values (1,'000000','张
飞','https://img1.baidu.com/it/u=3960132582,584653904&fm=15&fmt=auto&gp=0.jpg',0,0,NULL,
'2021-10-06 17:45:57'),(2,'000000','李
逵','https://img2.baidu.com/it/u=661539886,3900694712&fm=26&fmt=auto&gp=0.jpg',0,0,NULL,
'2021-10-13 20:49:32'),(4,'123456','刘
备','https://img1.baidu.com/it/u=3960132582,584653904&fm=15&fmt=auto&gp=0.jpg',0,0,'2021
-06-24 09:27:02','2021-06-24 09:38:04'),(5,'111111','赢
政','https://img1.baidu.com/it/u=2179921797,2025214210&fm=26&fmt=auto&gp=0.jpg',0,0,'202
1-06-24 14:48:53','2021-06-25 09:56:43'),(8,'000000','王
莹','https://img2.baidu.com/it/u=661539886,3900694712&fm=26&fmt=auto&gp=0.jpg',0,0,'2021
-10-15 09:32:47','2021-10-13 20:49:32'),(9,'000000','王
湛','https://img1.baidu.com/it/u=3960132582,584653904&fm=15&fmt=auto&gp=0.jpg',0,1,'2021
-10-17 08:39:40','2021-10-06 17:45:57'),(10,'123456','王
湛','https://img1.baidu.com/it/u=3960132582,584653904&fm=15&fmt=auto&gp=0.jpg',0,1,'2021
-10-17 10:04:57','2021-10-06 17:45:57');

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

```



成功了、结束

#### 1.4.vue文件组成

```

<!-- 模板区:编写UI标签,切记该标签中只能有一个根标签,单文件规定的、否则报错 -->
<template>

</template>
<!-- 行为区,编写的是和后端进行交互的js代码,vue代码 -->
<script>
  export default {
    data() { //对象定义属性区
      return {

      }
    },
    methods: { //用户自定义方法区

    },
    created() { //生命周期函数、浏览器渲染时执行该函数代码

    }

  }
</script>
<!-- 样式区-->

```

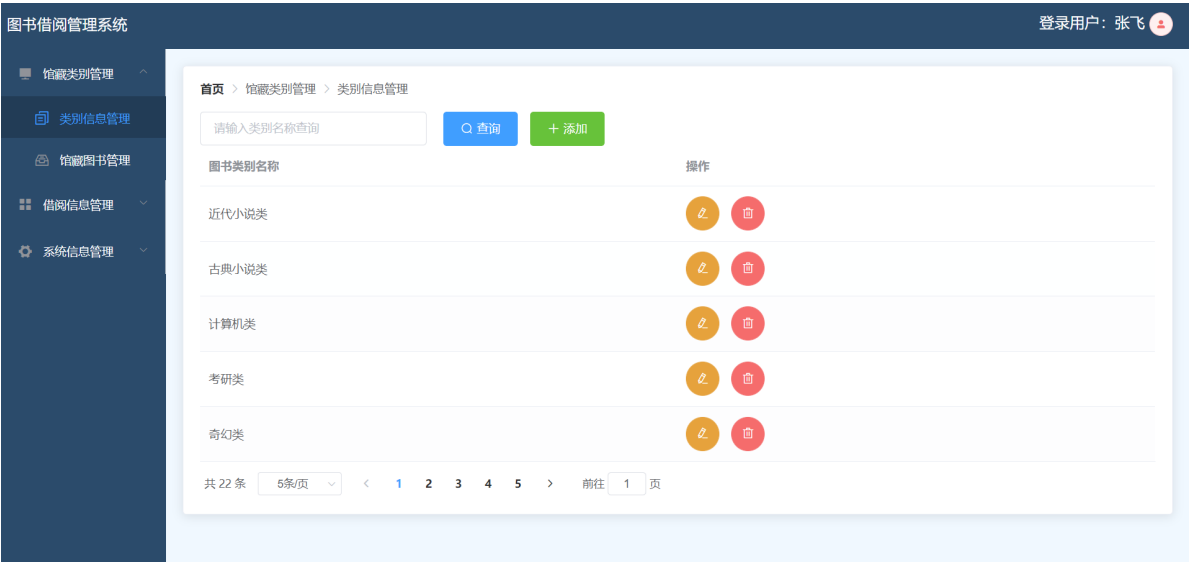
```
<style scoped>

</style>
```

第二章：图书借阅前端各个模块开发

2.1.图书借阅图书类别模块开发

2.1.1图书类别模块效果图



```
<!-- 2.1.2. 图书类别模块代码： -->
<template>
  <!-- 定义卡片组件 -->
  <el-card>
    <!-- 面包屑组件 -->
    <el-breadcrumb separator-class="el-icon-arrow-right">
      <el-breadcrumb-item :to="{ path: '/welcome' }">首页</el-breadcrumb-item>
      <el-breadcrumb-item>馆藏类别管理</el-breadcrumb-item>
      <el-breadcrumb-item>类别信息管理</el-breadcrumb-item>
    </el-breadcrumb>
    <!-- 表格工具栏-条件查询 -->
    <el-row :gutter="20">
      <el-col :span="6">
        <el-input v-model="cname" @clear="findPager()" clearable placeholder="请输入类别名称查询"></el-input>
      </el-col>
      <el-col :span="6">
        <el-button @click="findPager()" icon="el-icon-search" type="primary">查询</el-button>
        <el-button icon="el-icon-plus" @click="openAddDialog()" type="success">添加</el-button>
      </el-col>
    </el-row>
    <!-- 定义表格组件 -->
    <el-table :data="tableData" style="width: 100%">
      <el-table-column prop="catename" label="图书类别名称">
      </el-table-column>
      <el-table-column label="操作">
```



```

<!-- 表格中添加工具栏 ,slot-scope作用域插槽-->
<template slot-scope="scope">
  <el-tooltip content="点击修改" placement="left">
    <el-button type="warning" @click="openEditDialog(scope)" icon="el-icon-
edit" circle></el-button>
  </el-tooltip>
  <el-tooltip content="点击删除" placement="right">
    <el-button type="danger" @click="remove(scope)" icon="el-icon-delete"
circle></el-button>
  </el-tooltip>
</template>
</el-table-column>
</el-table>
<!-- 分页组件定义 -->
<el-pagination @size-change="handleSizeChange" @current-
change="handleCurrentChange" :current-page="pager.page"
:page-sizes="[5, 15, 20, 30]" :page-size="pager.limit" layout="total, sizes,
prev, pager, next, jumper"
:total="pager.total">
</el-pagination>

<!-- 添加对话框定义 -->
<el-dialog title="添加类别信息" :close-on-click-modal="false"
:visible.sync="dialogFormVisible">
  <el-form :rules="rules" :model="category" ref="category">
    <el-form-item prop="catename">
      <el-input v-model="category.catename" placeholder="请输入类别名称"></el-input>
    </el-form-item>
  </el-form>
  <div slot="footer" class="dialog-footer">
    <el-button @click="dialogFormVisible = false">取 消</el-button>
    <el-button type="primary" @click="save">保存</el-button>
  </div>
</el-dialog>

<!-- 修改对话框定义 -->
<el-dialog title="修改类别信息" :close-on-click-modal="false"
:visible.sync="dialogFormEditVisible">
  <el-form :rules="rules" :model="category" ref="category">
    <el-form-item prop="catename">
      <el-input v-model="category.catename"></el-input>
    </el-form-item>
  </el-form>
  <div slot="footer" class="dialog-footer">
    <el-button @click="dialogFormEditVisible = false">取 消</el-button>
    <el-button type="primary" @click="update">保存</el-button>
  </div>
</el-dialog>
</el-card>
</template>
<!-- 行为区, 编写的是和后端进行交互的js代码, vue代码 -->
<script>
export default {
  data() { //该属性中放置用户定义的变量, 类似与类的属性定义
    return {
      rules: { //定义表单输入的验证规则
        catename: [{
          required: true,
          message: '请输入类别名称',
          trigger: 'blur'
        }]
      }
    }
  }
}

```

```

    ]
  },
  dialogFormEditVisible: false, //显示修改对话框标记
  dialogFormVisible: false, //显示对话框对话框标记
  category: { //添加或者修改时将数据封装成对象
    cateid: 0,
    catename: ''
  },
  pager: { //封装的分页参数
    page: 1, //分页起始数据
    limit: 5, //每页显示最大条数
    total: 0 //统计分页记录数
  },
  cname: '', //定义条件查询接收值的变量
  tableData: [] //定义表格中填充的数据，该数据要从后端服务中获取
}
},
methods: { //该标签中编写的是用户自定义的javascript方法
  openEditDialog(scope) {
    this.category = scope.row; //填充修改对话框表单值
    //填充表单数据
    this.dialogFormEditVisible = !this.dialogFormEditVisible; //打开修改对话框
  },
  update() { //修改方法
    this.$refs['category'].validate(valid=>{
      if(valid){
        this.$http.post('http://127.0.0.1/category/update', this.category)
          .then(res => {
            if (res.data.code == 200) {
              this.$message({
                message: res.data.message,
                type: 'success'
              })
              this.findPager();
              this.dialogFormEditVisible = !this.dialogFormEditVisible //关闭修改对话框
            }
          }).catch(err => {
            this.$message.error('错了哦，网络出现异常');
          })
      }
    })
  },
  openAddDialog() { //打开添加对话框
    this.dialogFormVisible = !this.dialogFormVisible //打开或者关闭对话框
  },
  save() {
    this.$refs['category'].validate(valid=>{
      if(valid){
        this.$http.post('http://127.0.0.1/category/save', this.category)
          .then(res => {
            if (res.data.code == 200) {
              this.$message({
                message: res.data.message,
                type: 'success'
              })
              this.findPager();
              this.dialogFormVisible = !this.dialogFormVisible //关闭添加对话框
            }
          }).catch(err => {

```

```

        this.$message.error('错了哦，网络出现异常');
    })

    }
  })
},
remove(scope) {
  this.$http.post('http://127.0.0.1/category/remove?cateid=' + scope.row.cateid)
    .then(res => {
      if (res.data.code == 200) {
        this.$message({
          message: res.data.message,
          type: 'success'
        })
        this.findPager();
      }
    })
    .catch(err => {
      this.$message.error('错了哦，网络出现异常');
    })
},
handleSizeChange(val) { //改变每页显示的条数
  console.log(`每页 ${val} 条`);
  this.pager.limit = val
  this.findPager() //再次调用分页查询让数据更新
},
handleCurrentChange(val) { //改变当前是第几页
  console.log(`当前页: ${val}`);
  this.pager.page = val;
  this.findPager() //再次调用分页查询让数据更新
},
findPager() {
  this.$http.get('http://127.0.0.1/category/findPager', {
    params: {
      page: this.pager.page, //分页起始数据
      limit: this.pager.limit, //每页显示条数
      cname: this.cname //条件查询cname
    }
  }).then(res => {
    console.info(res);
    this.tableData = res.data.data.data;
    this.pager.total = res.data.data.count; //获得分页统计数
    this.pager.page = res.data.data.page;

  }).catch(err => {
    this.$message.error('错了哦，网络出现异常');
  })

}
},
created() {
  this.findPager(); //调用上面的用户自定义方法，使用this关键字即可
}

}
</script>
<!-- 标签放置的样式CSS -->
<style scoped>
  .el-pagination {
    margin-top: 10px;
  }

```

```
.el-breadcrumb {
  margin-bottom: 20px;
}
</style>
```

## 2.2.图书借阅馆藏图书模块开发

### 2.2.1图书类别模块效果图



<!-- 2.2.2.馆藏图书模块代码：-->

<!-- 该标签主要编写前端网页代码，网页标签在template模板中只能有一个根标签 -->

<template>

<!-- 定义卡片组件 -->

<el-card>

<!-- 面包屑组件 -->

<el-breadcrumb separator-class="el-icon-arrow-right">

<el-breadcrumb-item :to="{ path: '/welcome' }">首页</el-breadcrumb-item>

<el-breadcrumb-item>馆藏图书管理</el-breadcrumb-item>

<el-breadcrumb-item>馆藏信息管理</el-breadcrumb-item>

</el-breadcrumb>

<!-- 表格工具栏-条件查询 -->

<el-row :gutter="20">

<el-col :span="6">

<el-input v-model="bnum" @clear="findPager()" clearable placeholder="请输入图书编号查询"></el-input>

</el-col>

<el-col :span="6">

<el-input v-model="bname" @clear="findPager()" clearable placeholder="请输入图书称查询"></el-input>

</el-col>

<el-col :span="6">

<el-button @click="findPager()" icon="el-icon-search" type="primary">查询</el-button>

<el-button icon="el-icon-plus" @click="openAddDialog()" type="success">添加</el-button>

</el-col>

</el-row>

<!-- 定义表格组件 -->

<el-table :data="tableData" style="width: 100%">

```

<el-table-column type="expand">
  <template slot-scope="scope">
    简介: {{scope.row.ddesc}}
  </template>

</el-table-column>
<el-table-column prop="bnum" label="架号">
</el-table-column>
<el-table-column prop="bname" label="图书名称">
  <template slot-scope="scope">
    <el-popover trigger="hover" placement="top">
      <p>简介: {{ scope.row.ddesc }}</p>
      <div slot="reference" class="name-wrapper">
        <el-tag size="medium">{{ scope.row.bname }}</el-tag>
      </div>
    </el-popover>
  </template>
</el-table-column>
<el-table-column prop="author" label="作者">
</el-table-column>
<el-table-column prop="price" label="单价">
</el-table-column>
<el-table-column prop="quantity" label="馆藏数量">
</el-table-column>
<el-table-column prop="catename" label="类别名称">
</el-table-column>
<el-table-column label="操作">
  <!-- 表格中添加工具栏 ,slot-scope作用域插槽-->
  <template slot-scope="scope">
    <el-tooltip content="点击修改" placement="left">
      <el-button type="warning" @click="openEditDialog(scope)" icon="el-icon-edit" circle></el-button>
    </el-tooltip>
    <el-tooltip content="点击删除" placement="right">
      <el-button type="danger" @click="remove(scope)" icon="el-icon-delete" circle></el-button>
    </el-tooltip>
  </template>
</el-table-column>
</el-table>

<!-- 分页组件定义 -->
<el-pagination @size-change="handleSizeChange" @current-change="handleCurrentChange" :current-page="pager.page"
  :page-sizes="[5, 15, 20, 30]" :page-size="pager.limit" layout="total, sizes, prev, pager, next, jumper"
  :total="pager.total">
</el-pagination>

<!-- 添加对话框定义 -->
<el-dialog title="添加馆藏图书" :visible.sync="dialogFormVisible">
  <el-form :rules="rules" :model="book" ref="book">
    <el-form-item prop="bnum">
      <el-input v-model="book.bnum" placeholder="请输入图书编号"></el-input>
    </el-form-item>
    <el-form-item prop="bname">
      <el-input v-model="book.bname" placeholder="请输入图书名称"></el-input>
    </el-form-item>
    <el-form-item prop="price">
      <el-input v-model="book.price" placeholder="请输入单价"></el-input>
    </el-form-item>
    <el-form-item prop="author">

```

```

        <el-input v-model="book.author" placeholder="请输入作者"></el-input>
      </el-form-item>
      <el-form-item prop="quantity">
        <el-input v-model="book.quantity" placeholder="请输入图书馆藏数量"></el-input>
      </el-form-item>
      <el-form-item prop="ddesc">
        <el-input type="textarea" v-model="book.ddesc" placeholder="请输入图书简介">
      </el-input>
    </el-form-item>
    <el-form-item>
      <el-select v-model="book.cateid" placeholder="请选择">
        <el-option
          v-for="category in lists"
          :key="category.cateid"
          :label="category.catename"
          :value="category.cateid">
        </el-option>
      </el-select>
    </el-form-item>
  </el-form>
  <div slot="footer" class="dialog-footer">
    <el-button @click="dialogFormVisible = false">取 消</el-button>
    <el-button type="primary" @click="save">保存</el-button>
  </div>
</el-dialog>

<!-- 修改对话框定义 -->
<el-dialog title="修改类别信息" :visible.sync="dialogFormEditVisible">
  <el-form :rules="rules" :model="book" ref="book">
    <el-form-item prop="bnum">
      <el-input v-model="book.bnum" placeholder="请输入图书编号"></el-input>
    </el-form-item>
    <el-form-item prop="bname">
      <el-input v-model="book.bname" placeholder="请输入图书名称"></el-input>
    </el-form-item>
    <el-form-item prop="price">
      <el-input v-model="book.price" placeholder="请输入单价"></el-input>
    </el-form-item>
    <el-form-item prop="author">
      <el-input v-model="book.author" placeholder="请输入作者"></el-input>
    </el-form-item>
    <el-form-item prop="quantity">
      <el-input v-model="book.quantity" placeholder="请输入图书馆藏数量"></el-input>
    </el-form-item>
    <el-form-item prop="ddesc">
      <el-input type="textarea" v-model="book.ddesc" placeholder="请输入图书简介"></el-
input>
    </el-form-item>
    <el-form-item>
      <el-select v-model="book.cateid" placeholder="请选择">
        <el-option
          v-for="category in lists"
          :key="category.cateid"
          :label="category.catename"
          :value="category.cateid">
        </el-option>
      </el-select>
    </el-form-item>
  </el-form>
  <div slot="footer" class="dialog-footer">
    <el-button @click="dialogFormEditVisible = false">取 消</el-button>

```

```

        <el-button type="primary" @click="update">保存</el-button>
      </div>
    </el-dialog>
  </el-card>
</template>
<!-- 行为区，编写的是和后端进行交互的js代码，vue代码 -->
<script>
export default {
  data() { //该属性中放置用户定义的变量，类似与类的属性定义
    return {
      rules: { //定义添加或者修改图书时的验证规则
        bnum: [{
          required: true,
          message: '请输入图书编号',
          trigger: 'blur'
        }],
        bname: [{
          required: true,
          message: '请输入图书名称',
          trigger: 'blur'
        }],
        price: [{
          required: true,
          message: '请输入图书价格',
          trigger: 'blur'
        }],
        author: [{
          required: true,
          message: '请输入作者',
          trigger: 'blur'
        }],
        ddesc: [{
          required: true,
          message: '请输入图书简介',
          trigger: 'blur'
        }],
        quantity: [{
          required: true,
          message: '请输入馆藏数量',
          trigger: 'blur'
        }]
      },
      dialogFormEditVisible: false, //显示修改对话框标记
      dialogFormVisible: false, //显示对话框对话框标记
      book: { //封装图书对象，添加或者修改时要使用，因为添加或者修改传递到后台是以对象形式传递的
        bid: 0,
        bname: '',
        bnum: '',
        price: '',
        author: '',
        quantity: '',
        cateid: '',
        ddesc: ''
      },
      pager: { //封装的分页参数
        page: 1, //分页起始数据
        limit: 5, //每页显示最大条数
        total: 0 //统计分页记录数
      },
      bname: '', //定义条件查询接收值的变量
      bnum: '', //定义条件查询接收值的变量

```

```

        tableData: [], //定义表格中填充的数据, 该数据要从后端服务中获取
        lists: [] //图书类别所有信息放到该数组中, 初始化类别添加时下拉列表
    },
    methods: { //该标签中编写的是用户自定义的javascript方法
        findAll() { //该方法是返回所有图书类别信息, 初始化添加或者修改对话框中下拉列表
            this.$http.get('http://127.0.0.1/category/findAll')
                .then(res => {
                    this.lists = res.data.data; //查询所有类别信息赋给lists数组
                }).catch(err => {
                    this.$message.error('错了哦, 网络出现异常');
                })
        },
        openEditDialog(scope) {
            this.book = scope.row; //填充修改对话框表单值
            //填充表单数据
            this.dialogFormEditVisible = !this.dialogFormEditVisible; //打开修改对话框
        },
        update() { //修改方法
            this.$http.post('http://127.0.0.1/book/update', this.book)
                .then(res => {
                    if (res.data.code == 200) {
                        this.$message({
                            message: res.data.message,
                            type: 'success'
                        })
                        this.findPager();
                        this.dialogFormEditVisible = !this.dialogFormEditVisible //关闭修改对话框
                    }
                })
                .catch(err => {
                    this.$message.error('错了哦, 网络出现异常');
                })
        },
        openAddDialog() { //打开添加对话框
            this.dialogFormVisible = !this.dialogFormVisible //打开或者关闭对话框
        },
        save() {
            this.$refs['book'].validate(valid => {
                if (valid) {
                    this.$http.post('http://127.0.0.1/book/save', this.book)
                        .then(res => {
                            if (res.data.code == 200) {
                                this.$message({
                                    message: res.data.message,
                                    type: 'success'
                                })
                                this.findPager();
                                this.dialogFormVisible = !this.dialogFormVisible //关闭添加对话框
                            }
                        }).catch(err => {
                            this.$message.error('错了哦, 网络出现异常');
                        })
                }
            })
        },
        remove(scope) {
            this.$http.post('http://127.0.0.1/book/remove?bid=' + scope.row.bid)
                .then(res => {

```



```

        if (res.data.code == 200) {
            this.$message({
                message: res.data.message,
                type: 'success'
            })
            this.findPager();
        }
    })
    .catch(err => {
        this.$message.error('错了哦，网络出现异常');
    })
},
handleSizeChange(val) { //改变每页显示的条数
    console.log(`每页 ${val} 条`);
    this.pager.limit = val
    this.findPager() //再次调用分页查询让数据更新
},
handleCurrentChange(val) { //改变当前是第几页
    console.log(`当前页: ${val}`);
    this.pager.page = val;
    this.findPager() //再次调用分页查询让数据更新
},
findPager() {
    this.$http.get('http://127.0.0.1/book/findPager', {
        params: {
            page: this.pager.page, //分页起始数据
            limit: this.pager.limit, //每页显示条数
            bname: this.bname, //条件查询bname
            bnum: this.bnum //条件查询bname
        }
    }).then(res => {
        this.tableData = res.data.data.data;
        this.pager.total = res.data.data.count; //获得分页统计数
        this.pager.page = res.data.data.page;

    }).catch(err => {
        this.$message.error('错了哦，网络出现异常');
    })
}

},
created() {
    this.findPager(); //调用上面的用户自定义方法，使用this关键字即可
    this.findAll();
}

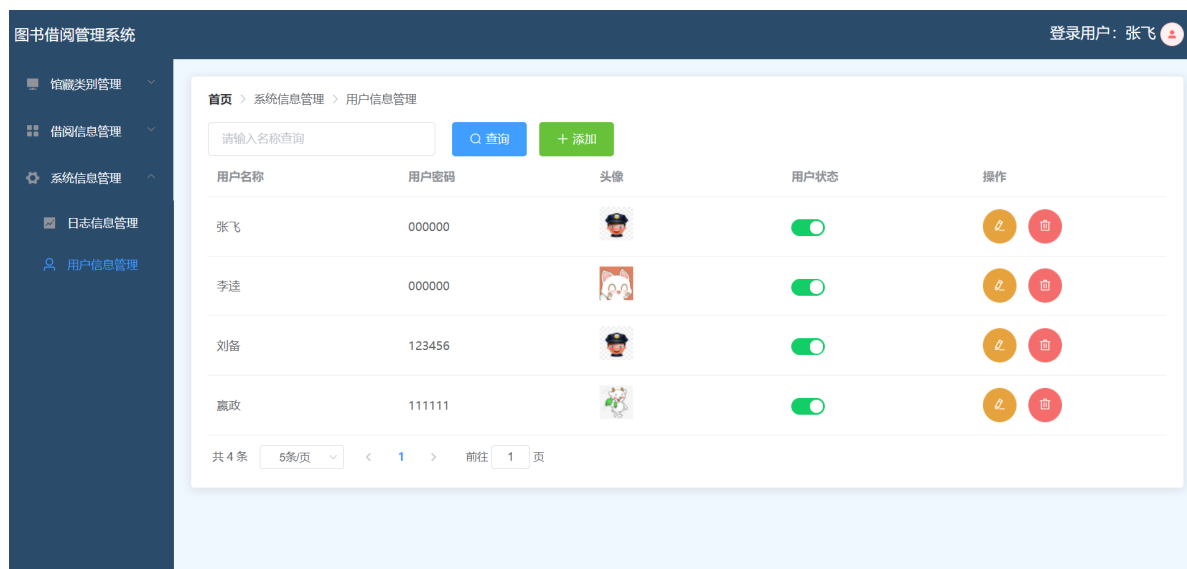
}
</script>
<!-- 改标签放置的样式CSS -->
<style scoped>
    .el-pagination {
        margin-top: 10px;
    }

    .el-breadcrumb {
        margin-bottom: 20px;
    }
</style>

```

## 2.3.图书借阅用户模块开发

### 2.3.1. 图书借阅模块用户开发效果图



<!--2.3.2. 图书借阅模块用户模块代码 -->

<template>

<!-- 定义卡片组件 -->

<el-card>

<!-- 面包屑组件 -->

<el-breadcrumb separator-class="el-icon-arrow-right">

<el-breadcrumb-item :to="{ path: '/welcome' }">首页</el-breadcrumb-item>

<el-breadcrumb-item>系统信息管理</el-breadcrumb-item>

<el-breadcrumb-item>用户信息管理</el-breadcrumb-item>

</el-breadcrumb>

<!-- 表格工具栏-条件查询 -->

<el-row :gutter="20">

<el-col :span="6">

<el-input v-model="uname" @clear="findPager()" clearable placeholder="请输入名称查询"></el-input>

</el-col>

<el-col :span="6">

<el-button @click="findPager()" icon="el-icon-search" type="primary">查询</el-button>

<el-button icon="el-icon-plus" @click="openAddDialog()" type="success">添加</el-button>

</el-col>

</el-row>

<!-- 定义表格组件 -->

<el-table :data="tableData" style="width: 100%">

<el-table-column prop="uname" label="用户名称">

</el-table-column>

<el-table-column prop="password" label="用户密码">

</el-table-column>

<el-table-column prop="images" label="头像">

<template slot-scope="scope">



</template>

```

    </el-table-column>
    <el-table-column prop="stats" label="用户状态">
      <template slot-scope="scope">
        <el-switch v-model="scope.row.stats" :active-value="0" :inactive-value="1"
active-color="#13ce66"
inactive-color="#ff4949" @change="changStates(scope.row)">
          </el-switch>
        </template>
      </el-table-column>
      <el-table-column label="操作">
        <!-- 表格中添加工具栏 ,slot-scope作用域插槽-->
        <template slot-scope="scope">
          <el-tooltip content="点击修改" placement="left">
            <el-button type="warning" @click="openEditDialog(scope)" icon="el-icon-
edit" circle></el-button>
          </el-tooltip>
          <el-tooltip content="点击删除" placement="right">
            <el-button type="danger" @click="remove(scope)" icon="el-icon-delete"
circle></el-button>
          </el-tooltip>
        </template>
      </el-table-column>
    </el-table>
    <!-- 分页组件定义 -->
    <el-pagination @size-change="handleSizeChange" @current-
change="handleCurrentChange" :current-page="pager.page"
:page-sizes="[5, 15, 20, 30]" :page-size="pager.limit" layout="total, sizes,
prev, pager, next, jumper"
:total="pager.total">
    </el-pagination>

    <!-- 添加对话框定义 -->
    <el-dialog title="添加用户信息" :close-on-click-modal="false"
:visible.sync="dialogFormVisible">
      <el-form :rules="rules" :model="user" ref="user">
        <el-form-item prop="uname">
          <el-input v-model="user.uname" placeholder="请输入用户名称"></el-input>
        </el-form-item>
        <el-form-item prop="password">
          <el-input type="password" v-model="user.password" placeholder="请输入密码">
        </el-input>
        </el-form-item>
        <el-form-item prop="images">
          <el-input v-model="user.images" placeholder="请输入用户头像地址"></el-input>
        </el-form-item>
      </el-form>
      <div slot="footer" class="dialog-footer">
        <el-button @click="dialogFormVisible = false">取 消</el-button>
        <el-button type="primary" @click="save">保存</el-button>
      </div>
    </el-dialog>

    <!-- 修改对话框定义 -->
    <el-dialog title="修改用户信息" :close-on-click-modal="false"
:visible.sync="dialogFormEditVisible">
      <el-form :rules="rules" :model="user" ref="user">
        <el-form-item prop="uname">
          <el-input v-model="user.uname" placeholder="请输入用户名称"></el-input>
        </el-form-item>
        <el-form-item prop="password">

```

```

        <el-input type="password" v-model="user.password" placeholder="请输入密码">
    </el-input>
    </el-form-item>
    <el-form-item prop="images">
        <el-input v-model="user.images" placeholder="请输入用户头像地址"></el-input>
    </el-form-item>
</el-form>
<div slot="footer" class="dialog-footer">
    <el-button @click="dialogFormEditVisible = false">取 消</el-button>
    <el-button type="primary" @click="update">保存</el-button>
</div>
</el-dialog>
</el-card>
</template>
<!-- 行为区，编写的是和后端进行交互的js代码，vue代码 -->
<script>
    export default {
        data() { //该属性中放置用户定义的变量，类似与类的属性定义
            return {
                rules: { //定义用户信息验证规则
                    uname: [{
                        required: true,
                        message: '请输入用户名称',
                        trigger: 'blur'
                    }],
                    password: [{
                        required: true,
                        message: '请输入密码',
                        trigger: 'blur'
                    }],
                    images: [{
                        required: true,
                        message: '请输入用户头像地址',
                        trigger: 'blur'
                    }]
                },
                dialogFormEditVisible: false, //显示修改对话框标记
                dialogFormVisible: false, //显示对话框对话框标记
                category: { //添加或者修改时将数据封装成对象
                    cateid: 0,
                    catename: ''
                },
                user: {
                    uid: 0,
                    uname: '',
                    password: '',
                    images: '',
                    stats: ''
                },
                pager: { //封装的分页参数
                    page: 1, //分页起始数据
                    limit: 5, //每页显示最大条数
                    total: 0 //统计分页记录数
                },
                uname: '', //定义条件查询接收值的变量
                tableData: [] //定义表格中填充的数据，该数据要从后端服务中获取
            }
        },
        methods: { //该标签中编写的是用户自定义的javascript方法
            changStates(row) {
                this.user = row;
            }
        }
    }

```

```

        this.$http.post('http://127.0.0.1/user/changeStats', this.user)
        .then(res => {
            if (res.data.code == 200) {
                this.$message({
                    message: res.data.message,
                    type: 'success'
                })
                this.findPager();
            }
        })
        .catch(err => {
            this.$message.error('错了哦，网络出现异常');
        })
    },
    openEditDialog(scope) {
        this.user = scope.row; //填充修改对话框表单值
        //填充表单数据
        this.dialogFormEditVisible = !this.dialogFormEditVisible; //打开修改对话框
    },
    update() { //修改方法
        this.$refs['user'].validate(valid => {
            if (valid) {
                this.$http.post('http://127.0.0.1/user/update', this.user)
                .then(res => {
                    if (res.data.code == 200) {
                        this.$message({
                            message: res.data.message,
                            type: 'success'
                        })
                        this.findPager();
                        this.dialogFormEditVisible = !this.dialogFormEditVisible //关闭修改对话框
                    }
                })
                .catch(err => {
                    this.$message.error('错了哦，网络出现异常');
                })
            }
        })
    },
    openAddDialog() { //打开添加对话框
        this.dialogFormVisible = !this.dialogFormVisible //打开或者关闭对话框
    },
    save() {
        this.$refs['user'].validate(valid => {
            if (valid) {
                this.$http.post('http://127.0.0.1/user/save', this.user)
                .then(res => {
                    if (res.data.code == 200) {
                        this.$message({
                            message: res.data.message,
                            type: 'success'
                        })
                        this.findPager();
                        this.dialogFormVisible = !this.dialogFormVisible //关闭添加对话框
                    }
                })
                .catch(err => {
                    this.$message.error('错了哦，网络出现异常');
                })
            }
        })
    }
}

```

```

    })

    },
    remove(scope) {
      this.$http.post('http://127.0.0.1/user/remove?uid=' + scope.row.uid)
        .then(res => {
          if (res.data.code == 200) {
            this.$message({
              message: res.data.message,
              type: 'success'
            })
            this.findPager();
          }
        })
        .catch(err => {
          this.$message.error('错了哦，网络出现异常');
        })
    },
    handleSizeChange(val) { //改变每页显示的条数
      this.pager.limit = val
      this.findPager() //再次调用分页查询让数据更新
    },
    handleCurrentChange(val) { //改变当前是第几页
      this.pager.page = val;
      this.findPager() //再次调用分页查询让数据更新
    },
    findPager() {
      this.$http.get('http://127.0.0.1/user/findPager', {
        params: {
          page: this.pager.page, //分页起始数据
          limit: this.pager.limit, //每页显示条数
          uname: this.uname //条件查询uname
        }
      }).then(res => {
        this.tableData = res.data.data.data;
        this.pager.total = res.data.data.count; //获得分页统计数
        this.pager.page = res.data.data.page;

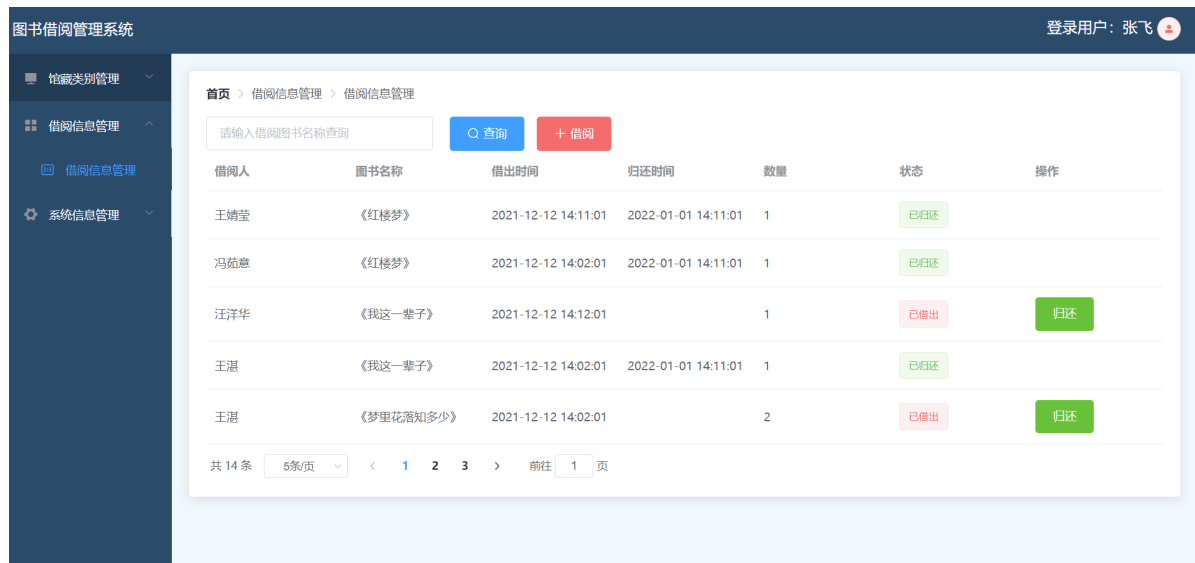
      }).catch(err => {
        this.$message.error('错了哦，网络出现异常');
      })
    }
  },
  created() {
    this.findPager(); //调用上面的用户自定义方法，使用this关键字即可
  }
}
</script>
<!-- 改标签放置的样式CSS -->
<style scoped>
  .el-pagination {
    margin-top: 10px;
  }

  .el-breadcrumb {
    margin-bottom: 20px;
  }
</style>

```

## 2.4.图书借阅模块开发

### 2.4.1. 图书借阅模块效果图



<!--2.4.2. 图书借阅模块代码 -->

<template>

<!-- 定义卡片组件 -->

<el-card>

<!-- 面包屑组件 -->

<el-breadcrumb separator-class="el-icon-arrow-right">

<el-breadcrumb-item :to="{ path: '/welcome' }">首页</el-breadcrumb-item>

<el-breadcrumb-item>借阅信息管理</el-breadcrumb-item>

<el-breadcrumb-item>借阅信息管理</el-breadcrumb-item>

</el-breadcrumb>

<!-- 表格工具栏-条件查询 -->

<el-row :gutter="20">

<el-col :span="6">

<el-input v-model="bname" @clear="findPager()" clearable placeholder="请输入借阅图书名称查询"></el-input>

</el-col>

<el-col :span="6">

<el-button @click="findPager()" icon="el-icon-search" type="primary">查询</el-button>

<el-button icon="el-icon-plus" @click="openAddDialog()" type="danger">借阅</el-button>

</el-col>

</el-row>

<!-- 定义表格组件 -->

<el-table :data="tableData" style="width: 100%">

<el-table-column prop="sname" label="借阅人">

</el-table-column>

<el-table-column prop="bname" label="图书名称">

</el-table-column>

<el-table-column prop="otime" label="借出时间">

</el-table-column>

<el-table-column prop="itime" label="归还时间">

</el-table-column>

<el-table-column prop="quantity" label="数量">

</el-table-column>

<el-table-column prop="stat" label="状态">

```

        <template slot-scope="scope">
            <el-tag type="success" v-show="scope.row.stat==1">已归还</el-tag>
            <el-tag type="danger" v-show="scope.row.stat==0">已借出</el-tag>
        </template>
    </el-table-column>
    <el-table-column label="操作">
        <!-- 表格中添加工具栏 ,slot-scope作用域插槽-->
        <template slot-scope="scope">
            <el-button type="success" v-show="scope.row.stat==0"
@click="backBook(scope.row)">归还</el-button>

            </template>
        </el-table-column>
    </el-table>
    <!-- 分页组件定义 -->
    <el-pagination @size-change="handleSizeChange" @current-
change="handleCurrentChange" :current-page="pager.page"
:page-sizes="[5, 15, 20, 30]" :page-size="pager.limit" layout="total, sizes,
prev, pager, next, jumper"
:total="pager.total">
    </el-pagination>
</el-card>
</template>
<!-- 行为区, 编写的是和后端进行交互的js代码, vue代码 -->
<script>
export default {
  data() { //该属性中放置用户定义的变量, 类似与类的属性定义
    return {
      rules: { //定义表单输入的验证规则
        catename: [{
          required: true,
          message: '请输入类别名称',
          trigger: 'blur'
        }]
      },
      dialogFormEditVisible: false, //显示修改对话框标记
      dialogFormVisible: false, //显示对话框对话框标记
      borrow: { //添加或者修改时将数据封装成对象
        boid: 0,
        stat: ''
      },
      bname: '', //根据图书名称查询
      pager: { //封装的分页参数
        page: 1, //分页起始数据
        limit: 5, //每页显示最大条数
        total: 0 //统计分页记录数
      },
      cname: '', //定义条件查询接收值的变量
      tableData: [] //定义表格中填充的数据, 该数据要从后端服务中获取
    }
  },
  methods: { //该标签中编写的是用户自定义的javascript方法
    backBook(row) { //还书方法
      this.borrow = row;
      this.$http.post('http://127.0.0.1/borrow/backBook', this.borrow).then(res => {
        if (res.data.code == 200) {
          this.$message({
            message: res.data.message,
            type: 'success'
          })
        }
        this.findPager();
      })
    }
  }
}

```



```

    }
  })

  },
  openEditDialog(scope) {
    this.category = scope.row; //填充修改对话框表单值
    //填充表单数据
    this.dialogFormEditVisible = !this.dialogFormEditVisible; //打开修改对话框
  },
  update() { //修改方法
    this.$refs['category'].validate(valid => {
      if (valid) {
        this.$http.post('http://127.0.0.1/category/update', this.category)
          .then(res => {
            if (res.data.code == 200) {
              this.$message({
                message: res.data.message,
                type: 'success'
              })
              this.findPager();
              this.dialogFormEditVisible = !this.dialogFormEditVisible //关闭修改对话框
            }
          }).catch(err => {
            this.$message.error('错了哦，网络出现异常');
          })
      }
    })

  })

  },
  openAddDialog() { //打开添加对话框
    this.dialogFormVisible = !this.dialogFormVisible //打开或者关闭对话框
  },
  save() {
    this.$refs['category'].validate(valid => {
      if (valid) {
        this.$http.post('http://127.0.0.1/category/save', this.category)
          .then(res => {
            if (res.data.code == 200) {
              this.$message({
                message: res.data.message,
                type: 'success'
              })
              this.findPager();
              this.dialogFormVisible = !this.dialogFormVisible //关闭添加对话框
            }
          }).catch(err => {
            this.$message.error('错了哦，网络出现异常');
          })
      }
    })

  })

  },
  remove(scope) {
    this.$http.post('http://127.0.0.1/category/remove?cateid=' + scope.row.cateid)
      .then(res => {
        if (res.data.code == 200) {
          this.$message({
            message: res.data.message,
            type: 'success'
          })
        }
      })
  }
}

```

```

        })
        this.findPager();
    }
})
.catch(err => {
    this.$message.error('错了哦，网络出现异常');
})
},
handleSizeChange(val) { //改变每页显示的条数
    console.log(`每页 ${val} 条`);
    this.pager.limit = val
    this.findPager() //再次调用分页查询让数据更新
},
handleCurrentChange(val) { //改变当前是第几页
    console.log(`当前页: ${val}`);
    this.pager.page = val;
    this.findPager() //再次调用分页查询让数据更新
},
findPager() {
    this.$http.get('http://127.0.0.1/borrow/findPager', {
        params: {
            page: this.pager.page, //分页起始数据
            limit: this.pager.limit, //每页显示条数
            bname: this.bname //条件查询bname
        }
    }).then(res => {
        console.info(res);
        this.tableData = res.data.data.data;
        this.pager.total = res.data.data.count; //获得分页统计数
        this.pager.page = res.data.data.page;

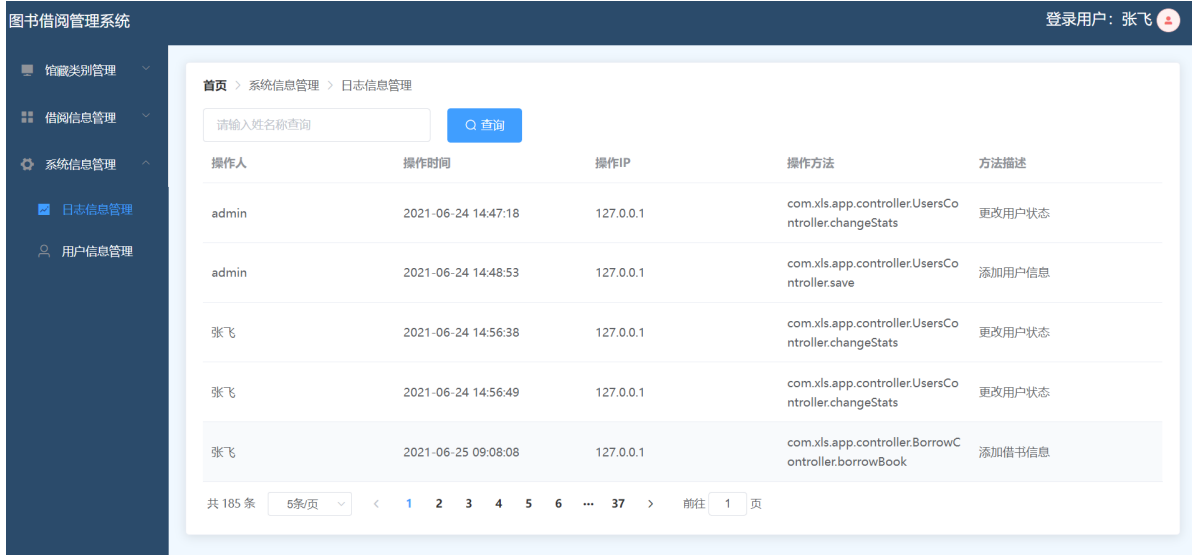
    }).catch(err => {
        this.$message.error('错了哦，网络出现异常');
    })
    }
},
created() {
    this.findPager(); //调用上面的用户自定义方法，使用this关键字即可
}
}
</script>
<!-- 改标签放置的样式CSS -->
<style scoped>
    .el-pagination {
        margin-top: 10px;
    }

    .el-breadcrumb {
        margin-bottom: 20px;
    }
</style>

```

## 2.5.图书借阅日志模块开发

### 2.5.1图书借阅日志模块效果图



<!-- 2.5.2图书借阅日志模块代码 -->

<template>

<!-- 定义卡片组件 -->

<el-card>

<!-- 面包屑组件 -->

<el-breadcrumb separator-class="el-icon-arrow-right">

<el-breadcrumb-item :to="{ path: '/welcome' }">首页</el-breadcrumb-item>

<el-breadcrumb-item>系统信息管理</el-breadcrumb-item>

<el-breadcrumb-item>日志信息管理</el-breadcrumb-item>

</el-breadcrumb>

<!-- 表格工具栏-条件查询 -->

<el-row :gutter="20">

<el-col :span="6">

<el-input v-model="opername" @clear="findPager()" clearable placeholder="请输入姓名查询"></el-input>

</el-col>

<el-col :span="6">

<el-button @click="findPager()" icon="el-icon-search" type="primary">查询</el-button>

</el-col>

</el-row>

<!-- 定义表格组件 -->

<el-table :data="tableData" style="width: 100%">

<el-table-column prop="opername" label="操作人">

</el-table-column>

<el-table-column prop="opertime" label="操作时间">

</el-table-column>

<el-table-column prop="ip" label="操作IP">

</el-table-column>

<el-table-column prop="methods" label="操作方法">

</el-table-column>

<el-table-column prop="ddesc" label="方法描述">

</el-table-column>

</el-table>

<!-- 分页组件定义 -->

<el-pagination @size-change="handleSizeChange" @current-change="handleCurrentChange" :current-page="pager.page"

:page-sizes="[5, 15, 20, 30]" :page-size="pager.limit" layout="total, sizes, prev, pager, next, jumper"

:total="pager.total">

</el-pagination>

</el-card>

</template>

```

<!-- 行为区，编写的是和后端进行交互的js代码，vue代码 -->
<script>
  export default {
    data() { //该属性中放置用户定义的变量，类似与类的属性定义
      return {
        pager: { //封装的分页参数
          page: 1, //分页起始数据
          limit: 5, //每页显示最大条数
          total: 0 //统计分页记录数
        },
        opername: '', //定义条件查询接收值的变量
        tableData: [] //定义表格中填充的数据，该数据要从后端服务中获取
      }
    },
    methods: { //该标签中编写的是用户自定义的javascript方法

      handleSizeChange(val) { //改变每页显示的条数
        console.log(`每页 ${val} 条`);
        this.pager.limit = val
        this.findPager() //再次调用分页查询让数据更新
      },
      handleCurrentChange(val) { //改变当前是第几页
        console.log(`当前页: ${val}`);
        this.pager.page = val;
        this.findPager() //再次调用分页查询让数据更新
      },
      findPager() {
        this.$http.get('http://127.0.0.1/logs/findPager', {
          params: {
            page: this.pager.page, //分页起始数据
            limit: this.pager.limit, //每页显示条数
            cname: this.cname //条件查询cname
          }
        }).then(res => {
          console.info(res);
          this.tableData = res.data.data.data;
          this.pager.total = res.data.data.count; //获得分页统计数
          this.pager.page = res.data.data.page;

        }).catch(err => {
          this.$message.error('错了哦，网络出现异常');
        })

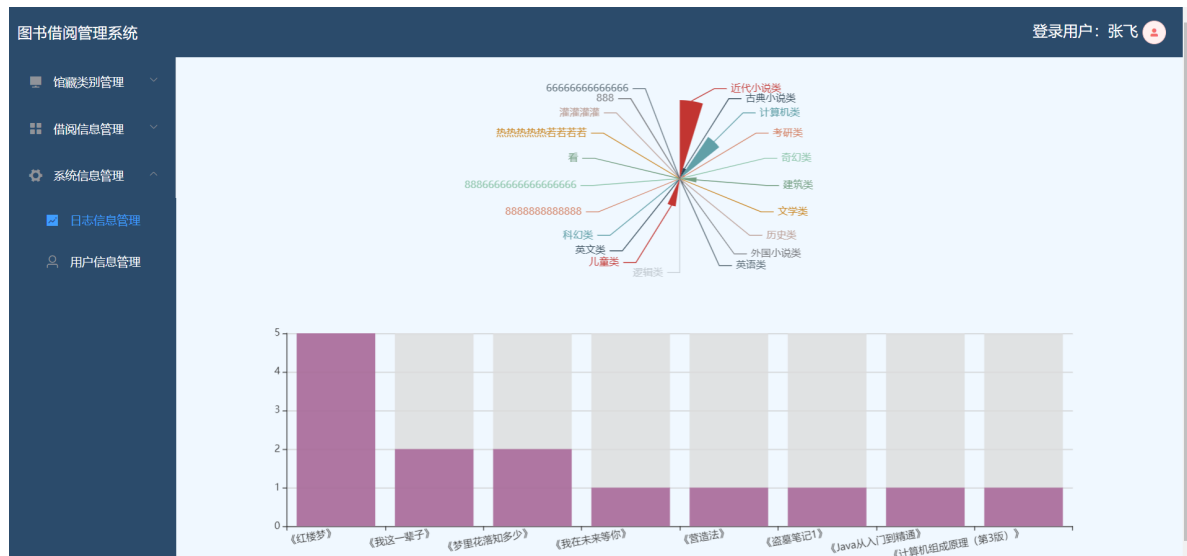
      }
    },
    created() {
      this.findPager(); //调用上面的用户自定义方法，使用this关键字即可
    }
  }
</script>
<!-- 改标签放置的样式CSS -->
<style scoped>
  .el-pagination {
    margin-top: 10px;
  }

  .el-breadcrumb {
    margin-bottom: 20px;
  }
</style>

```

## 2.6.图书借阅数据分析开发

### 2.6.1. 图书借阅数据分析效果图



### 2.6.1. 图书借阅数据分析代码

```
<template>
  <el-row :gutter="10">
    <div id="main" style="width: auto;height:250px;"></div>
    <div id="main2" style="width: auto;height:350px;"></div>
  </el-row>
</template>

<script>
export default {
  data() {
    return {
      xdata: [],
      ydata: [],
      data: [],
      list: []
    }
  },
  methods: {
    showEcharts() {
      this.$http.get('http://localhost/borrow/getBorrowCounter')
        .then(res => {
          console.info(res);
          var array = res.data.data;
          for (var i in array) {
            this.xdata.push(array[i].bname);
            this.ydata.push(array[i].counter);
          }

          var myEcharts2 = this.$echarts.init(document.getElementById("main2"));
          myEcharts2.setOption({
            xAxis: {
              axisLabel: {
                interval: 0,
                rotate: 10
              },
              type: 'category',
              data: this.xdata
            },
            yAxis: {
              type: 'value'
            },
            series: {
              type: 'bar'
            }
          });
        })
    }
  }
}
```

```

        yAxis: {
          type: 'value'
        },
        series: [{
          data: this.ydata,
          type: 'bar',
          showBackground: true,
          backgroundStyle: {
            color: 'rgba(220, 220, 220, 0.8)'
          },
          itemStyle: {
            color: "rgba(140, 41, 115, 0.58)"
          }
        }]
      })
    })
  }.catch(e => {})
},
showRose() {
  this.$http.get('http://localhost/category/getCateBook')
    .then(res => {
      // console.info(res);
      this.list = res.data.data;
      console.info(this.list);
      this.list.forEach(item => {
        console.info(item);
        var obj = {
          name: item['catename'],
          value: item['counter']
        }
        console.info(obj);
        console.info(this.data);
        this.data.push(obj);
        console.info(this.data);
      })
      var myEcharts = this.$echarts.init(document.getElementById("main"));
      myEcharts.setOption({
        series: [{
          type: 'pie',
          data: this.data,
          roseType: 'area'
        }]
      })
    }).catch(e => {})
}

},
mounted() {
  this.showEcharts();
  this.showRose();
}
}
</script>

<style>
</style>

```

