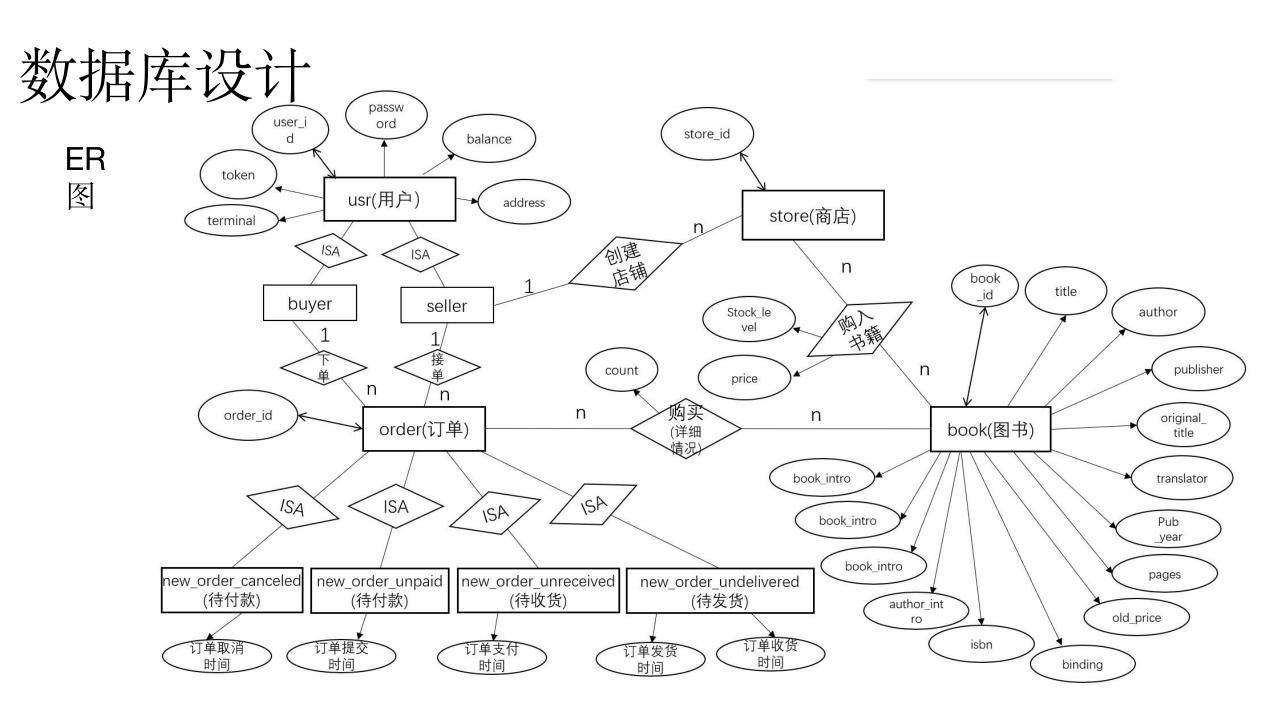
bookstore系统的设计与实现

成员: 池欣宁, 王文清, 何诗雨



数据库设计

导出的关系模型

用	户表(usr

user_id	password	balance	token	terminal	address
String	String	String	String	String	String

用户-商店表(user_store)

user_id	store_id
String	String

商店表(store)

store_id	book_ld	stock_level	price
String	String	Interger	Interger

订单总表(new_order_detail)

order_id	book_id	buyer_id	store_id	price	commit_time
String	String	String	String	Interger	DataTime

待付款订单(new_order_unpaid)

order_id	buyer_id	store_id	price	commit_time
String	String	String	Interger	DateTime

书籍(book)

book_id	title	author	***	picture
Interger	String	String	***	LargeBinary

待发货订单(new_order_undelivered)

order_id	buyer_id	store_id	price	purchase_time
String	String	String	Interger	DateTime

已取消订单(new_order_canceled)

0	order_id	buyer_id	store_id	price	cancel_time
	String	String	String	Interger	DateTime

待收货订单(new_order_unreceived)

order_id	buyer_id	store_id	price	send_time
String	String	String	Interger	DateTime

数据库设计

- new_order_detail分表设计
- 更贴合应用需求, 用户会频繁查询已发货订单, 待发货订单等



后端功能实现

采用orm形式

- 防止sql注入,保障安全性
- 同时实现事务处理

函数中包含两个事务的实现

--以add_book为例

- 实现两种版本
- ✓支持只上架图书
- ✓ 支持将书籍添加到book表中并上架图书(该版本可以不运行book.py导入数据,通过add_book函数插入书籍)
- self.commit()位置的思考:
- a. 第二个版本事务add_book包括添加图书,将书籍添加到商店这两步
- b. 在每一步做完后都需提交
- c. 如果两步结束后才commit, 就导致第一步的图书还没添加进去,就在做第二步的将书籍添加到商店,而因为store里面的book_id 必须存在在book表中

下单和支付的实现

下单

- 保证用户id和storeid存在
- 根据订单信息在store表中查找商户中是否存在对应书籍和足够的库存, 若满足则在store表中减少相应书籍的库存
- 向new_order_detail表插入订单信息(订单号,购买书籍信息,买家卖家信息
- 记录下单时间,将订单信息插入new_order_unpaid

性能分析

- store表k次根据主键查询, k次更新
- new_order_detail表k次插入(k为订单中购买的书本数) new_order_unpaid表一次插入

下单和支付的实现

支付

- 查看用户是否有该待付订单
- 比对用户密码,查询用户余额是否充足
- 若余额充足, 付款成功, 买家减少余额, 卖家增加余额
- 在new_order_unpaid表中删除对应的待付订单信息
- 记录当前时间,在待发货表new_order_undelivered表中加入订单信息和付款时间。

性能分析

- new_order_unpaid表一次根据主键order_id查询,一次删除
- user表两次根据主键user_id查询,两次更新(一次买家、一次卖家)new_order_undelivered 表一次插入。

后续功能——发货->收货

• 买家收货receive_book

功能实现:

- 1. 保证传入的参数user_id和order_id在数据库中存在
- 2.若订单存在,卖家存在且匹配,在待发货表 new_order_undelivered删除该订单,在待收货表 new_order_unreceived中添加该订单和发货时间。

性能分析:

usr表一次查询;

new_order_undelivered表一次查询,一次更新。new_order_unreceived表一次更新。

• 买家收货receive_book

功能实现:

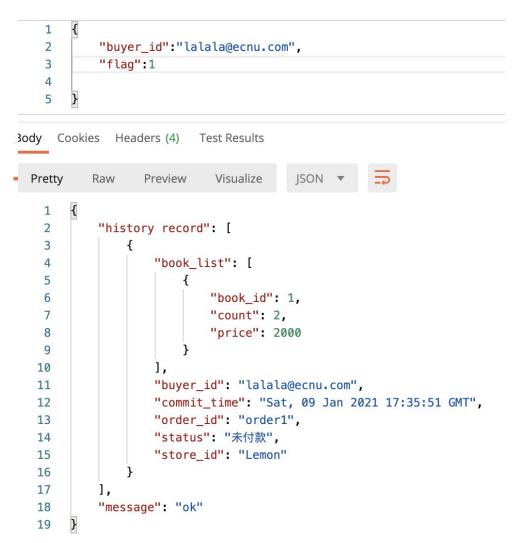
- 1. 保证传入的参数user_id和order_id在数据库中存在
- 2. 若订单存在,买家存在且匹配,在待收货表 new_order_unreceived中添加买家收货的时间。

性能分析:

usr表一次查询;

new_order_unreceived表一次查询,一次更新。

特色功能--全类型历史订单查询



为支持不同的查询订单需求,函数接口中除buyer_id另增加flag。返回结果可显示下单/购买/收货等时间更符合实际业务要求。

支持查询:

- ✔ 用户所有订单
- ✔ 待付款订单
- ✓ 已付款待发货订单
- ✓ 已发货待收货订单
- ✓ 已收货订单
- ✓ 已取消订单

性能分析

- 查所有订单: new_order_detail表一次查询
- · 查询待付款订单: new_order_unpaid表一次查询,对应 new_order_detail表k次根据主键查询 (k为new_order_unpaid的 该用户待付记录数)

扩展功能--手动取消订单

功能实现:

- 1. 判断是否为待付款订单
- 2. 若是,在new_order_unpaid中删除对应订单
- 3. 判断是否为待发货订单
- 4. 确定订单未发货后,在usr表中更新买家余额增加该订单对应款项。
- 5. 在usr表中更新卖家余额减少该订单对应款项。
- 6. 在待发货表中删除对应记录。
- 7. 记录当前时间并将订单信息加入new_order_cancel表中。
- 8. 在store中将对应的书籍的库存加回。
- 9. 若不是上述两种情况, 返回无法取消订单

性能分析:

- new_order_unpaid表一次查询,一次删除, new_order_undelivered表一次查询, 一次删除
- new_order_cancel表一次插入, new_order_detail表一次查询
- store表k次更新 (k为购买书籍数) user表两次根据user_id主键查询,两次更新 (一次买家、一次卖家)。

扩展功能一自动取消订单

使用技术:

Redis键空间通知(过期回调)用户下单之后将订单id作为key,任意值作为值存入redis中,给这条数据设置过期时间,也就是订单超时的时间。

1, 下载安装redis

- 在redis文件中使用redis-server.exe redis.windows.conf启动redis
- 设置redis.windows.conf中的notify-keyspace-events "EX" (为了保证可以发出过期数据的数据) 我们会收到关键事件通知,在keyevent频道中,我们会收到key作为消息。
- 可使用redis-cli.exe --csv psubscribe '*' 测试服务是否打开

2, 在python中使用redis, 配置回调函数

注册回调函数来处理已发布的消息。消息处理程序只接受一个参数即消息。要使用消息处理程序订阅通道或模式,请将通道或模式名称作为关键字参数传递,其值为回调函数。当使用消息处理程序在通道或模式上读取消息时,将创建消息字典并将其传递给消息处理程序。在这种情况下,从get_message()返回None值,因为消息已经处理完毕。

```
D:\program\Redis>redis-server.exe redis.windows.conf
[16196] 12 Jan 23:13:24.990 # o000o0000000 Redis is starting o000o0000000
[16196] 12 Jan 23:13:24.991 # Redis version=5.0.10, bits=64, commit=1c047b68, modified=0, pid=16196, just started
[16196] 12 Jan 23:13:24.992 # Configuration loaded
                                        Redis 5.0.10 (1c047b68/0) 64 bit
                                        Running in standalone mode
                                        Port: 6379
                                        PID: 16196
                                             http://redis.io
                                                              D:\program\Redis>redis-cli.exe -h 127.0.0.1 -p 6379
[16196] 12 Jan 23:13:25.002 # Server initialized
                                                               127. 0. 0. 1:6379> set 1 1
[16196] 12 Jan 23:13:25.003 * DB loaded from disk: 0.001 second \overline{OK}
[16196] 12 Jan 23:13:25.004 * Ready to accept connections
                                                               127. 0. 0. 1:6379> get 1
                                                               127.0.0.1:6379> setex 1 1 123
                                                               127. 0. 0. 1:6379>
```

扩展功能—自动取消订单

功能实现:

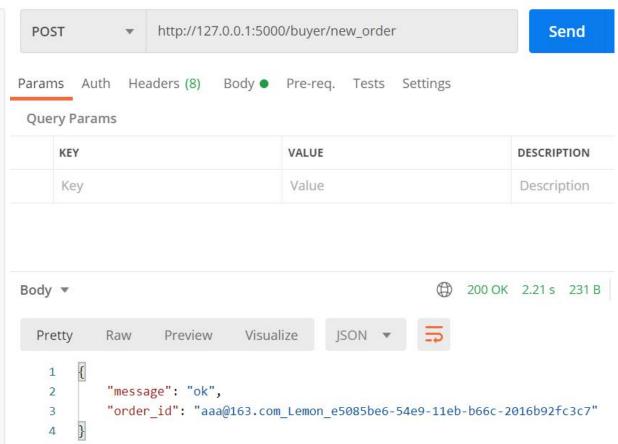
- 1. 在buyer()中的new_order函数中将订单号存入redis数据库中,并设置超时时间
- 2. 在回调函数auto_cancel_order中设置死循环,每当接收到一个过期数据,就将order_id解析出来。
- 3. 通过这个order_id判断能否找到未支付订单new_order_unpaid中的数据,
- 4. 如果存在,将其删除,在已取消订单new_order_canceled中添加该order和取消时间。
- 5. 如果不存在,说明该订单已被支付或者买家主动取消订单,则什么都不用处理。

性能分析:

- redis数据库一次更新(插入数据)。
- 当接收到数据时,对new_order_unpaid一次查找;
- 当数据存在,对new_order_unpaid一次更新;
- 对new_order_canceled—次更新;
- 对store进行k次更新, k为订单中图书的数量。

扩展功能一自动取消订单

```
#连接redis数据库
r=redis.StrictRedis(host='localhost',port=6379,db=0,decode_respon
ses=True)
# 创建pubsub对象,该对象订阅一个频道并侦听新消息:
pubsub=r.pubsub()
#收到消息的处理函数
 def event_hander(msg):
   # print('Handler',msg)
   order_id=str(msg['data'])
   print(order_id)
   #如果能找到订单,就删除未支付订单
   #添加到已删除订单中
   #将商店中的书籍书加回去
#订阅过期数据
pubsub.psubscribe(**{'__keyevent@0__:expired':event_hander})
#死循环, 当有数据过期时, 调用函数event_hander处理过期数据
while True:
   # print("监控超时订单")
   #获得事件信息,有结果就会回调函数
   message=pubsub.get_message()
   time.sleep(0.1)
```



D:\这学期\数据管理系统\大作业\项目\DB\be>python auto_cancel_order.py aaa@163.com_Lemon_e5085be6-54e9-11eb-b66c-2016b92fc3c7 <init_db.init_database.New_order_unpaid object at 0x00C11530> 订单己删除 订单已添加 count 1 订单已更新

搜索

● 实现功能:

用户可以通过关键字搜索,参数化的搜索方式;如搜索范围包括,题目,标签,作者,简介。

- > 支持全书库搜索和当前店铺搜索。
- > 支持分页显示结果
- 功能实现目标:

尽量避免搜索速度过慢而用户难以忍受的问题,时空代价trade-off

- 后端实现:
- 1. searchDB表的设计与构建
- 2. 全文索引
- 3.分词
- 4. 分页查询

基本表结构实现1.0

Basic-Tables

seach_author:

search_id	author	book_id		
	2 美西 3 西尔	原有Bc	ook表直接搜索,	4w+数据即
	o DW		引也会存在过慢	

search_tags:

search_id	tags	book_id
	1 传记	1
	2 纳什	1

search title:

search_id	title	book_id
	1 美丽心灵	1
	2 三毛流浪记全集	2 · · ·

search_book_intro

search_id		book_intro	book_id	
	1	投资	847	
	2	投资者	847	

搜索功能实现1.0版本:

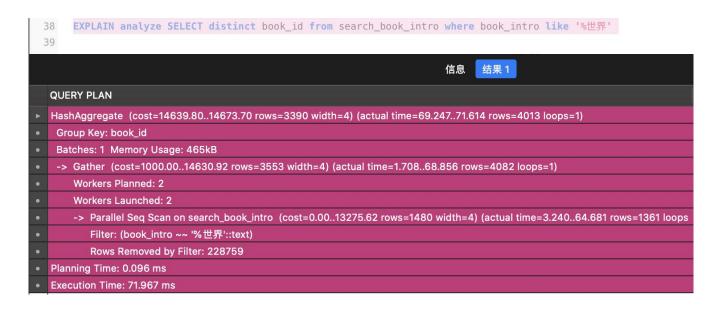
- 拆分4张字段基本表
- 在author/tags/title/book_intro字 段做B-tree索引

搜索功能实现(1) like关键字模糊查询--B-treeIndex

- SELECT * from search_book_author where author like '%杨红%';
- 模糊查询的缺点:
- 当用户输入字段前后部分都是`%`, 尤其是相当于搜索`%s`(后缀匹配)时, 我们建立在主键上默认的B树索引即失去了范围查询中的效率优势。
- 以在70w条数据中的全局搜索为例子:



■ EXPLAIN ANALYZE DINSTINCT book_id FROM search_book_intro WHERE book_intro like '世界%';



搜索功能实现(1) like关键字模糊查询--B-treeIndex

3 EXPLAIN ANALYSE SELECT * FROM book where book intro like '%生活%';

信息

结果 1

QUERY PLAN

Seq Scan on book (cost=0.00..7324.74 rows=6069 width=1324) (actual time=1.645..928.123 rows=7910 loops=1)

Filter: (book_intro ~~ '%生活%'::text)

Rows Removed by Filter: 32090

Planning Time: 48.168 ms Execution Time: 936.401 ms

SELECT * FROM book WHERE book_intro like '生活%'

QUERY PLAN

Seq Scan on book (cost=0.00..7324.74 rows=4 width=1324) (actual time=0.476..42.866 rows=30 loops=1)

Filter: (book_intro ~~ '生活%'::text)

I Rows Removed by Filter: 39970

Planning Time: 0.293 ms Execution Time: 42.905 ms

SELECT * FROM book WHERE book intro like '%生活'

QUERY PLAN

Seq Scan on book (cost=0.00..7324.74 rows=4 width=1324) (actual time=159.069..159.069 rows=0 loops=1)

Filter: (book_intro ~~ '%生活'::text)
Rows Removed by Filter: 40000

Planning Time: 0.657 ms Execution Time: 159.089 ms

可以很明显的看出,无论是前缀匹配还是后缀匹配中,即使是在book_intro字段建立了索引,这个执行时间也很可怕。是用户难以忍受的。

- EXPLAIN ANALYZE
 DINSTINCT book_id FROM
 search_book_intro WHERE
 book_intro like '%生活%'/'%
 生活'/'生活%'
- 可以很明显的看出,无论是前 缀匹配还是后缀匹配中,即使 是在book_intro字段建立了索引, 这个执行时间也很可怕。是用 户难以忍受的。

搜索功能实现(2) 从like到GIN-index: PSQLTEXT全文搜索

- to_tsvector()和to_tsquery()函数
- 函数原理=》
- PSQLTEXT

全文搜索功能 搜索的支持需 要中文分词的 实现! 1. to_tsvector实际上把语句转换成了tsvector(文档格式-包含文档值和角标)

如:

```
SELECT * FROM to_tsvector('parser_name',TEXT)

Input:SELECT * FROM to_tsvector('parser_name','小明今天去上学')

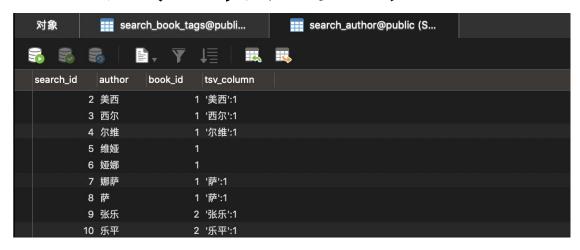
Output:'上学': 3 '去': 2 '小明': 1
```

通过output,我们可以看到"上学"对应位置3,"小明"对应语句的位置1,我们记住这种格式就行,后续会用到。

2. to_tsquery(), 实际上就是一个传递的参数格式,可以搭配中文分词规则,把一句话拆成多个词传递过去 Input:SELECT * FROM to_tsvector('parser_name','小明今天去上学')
Output:'上学'& '去'& '小明'

3. 结合 to_tsvector()和 to_tsquery(),即可完成本次数据库的关键字全文搜索功能。

基本表结构实现2.0



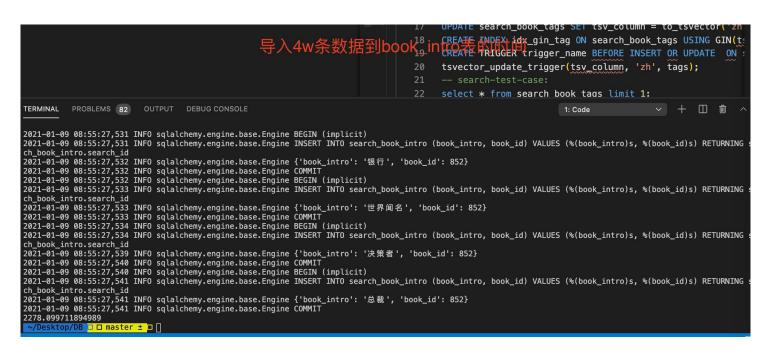
search_id		title	book_id	ĺ	tsv_column
	1	美丽心灵		1	'心灵':2 '美丽':1
	2	三毛流浪证		2	'三毛':1 '全集':3 '流浪记':2
	3	黑色棉花日		3	'棉花':2 '田':3 '黑色':1
	4	中国历代学		4	'中国':1 '历代':2 '年号':3 '考':4
3	5	袁氏当国		5	'国':3 '当':2 '袁氏':1
3	6	一个狗娘家		6	'养':3 '娘':2 '狗':1 '自白':4
	7	新唐书全二		7	'书':3 '全':4 '唐':2 '新':1
	8	第二次世界		8	'全':3 '回忆录':2 '第二次世界大战':1
	9	学习的革命		9	'学习':1 '革命':2

搜索功能实现2.0版本:

- 在4个基本表的表结构的基础上,执行 SQL语句调整表的结构,构建tsv_column 列,并在tsv_column上构建GIN——index 支持全文索引查询,tsv_column存储的是 分好词的相应字段的ts_vertor结果。
- ALTER TABLE search_author ADD COLUMN tsv column tsvector;
- UPDATE search_author SET tsv_column = to_tsvector('zh', coalesce(author,''));
- CREATE INDEX idx_gin_author ON search_author USING GIN(tsv_column);
- CREATE TRIGGER trigger_name BEFORE INSERT OR UPDATE ON search_book_intro FOR EACH ROW EXECUTE PROCEDURE
- tsvector_update_trigger(tsv_column, 'zh', book intro);

搜索功能实现(3) GIN-index构建的依赖-中文分词

- 在搜索系统中,分词很大的影响了了搜索系统的召回率和准确率, 以及基础table表的纯粹空间消耗。
- 1. 分词粒度? =>针对不同的字段有不同的分词方式
- 2. postgresql数据库内分词(边查边分) or 数据库外程序分词? =>数据库外程序+PSQL内分词结果存储
- 3. 搜索效率和存储的trade-off



搜索功能实现(3) GIN-index构建的依赖-

外部程序的详细中文分词方式

最后的分词方式:

2-gram+存储作者姓和全称字段(如果全称字段被zh-parser自动分割,也仍然无法提高召回)

Search_book_intro

因为book_intro都是大量的文本,通过对文本提取关键词的方式进行分割,提取关键词的方法有很多,有TF-IDF,TextRank等。

Search_tags

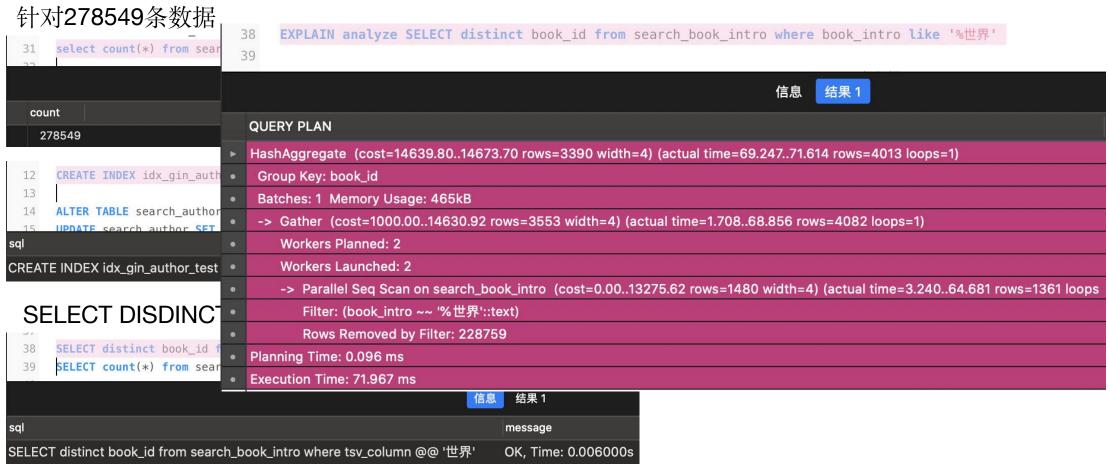
tags是已提取好的标签,直接把tags拆开插入的修改后的表中。

Search_title

title字段和author字段都是短文本,他们最显著的区别是,姓名字段的字与字之间没有明显强烈的上下文关系,如杨红樱三个字与《一个狗娘养的自白》这个标题相比,显然是标题的字与字之间更具有上下文的关系,所以在search_title部分我没有采用形如search_author一样的粒度划分,而是直接采用了zh-parser本身分词功能对与search_title表格的修改。

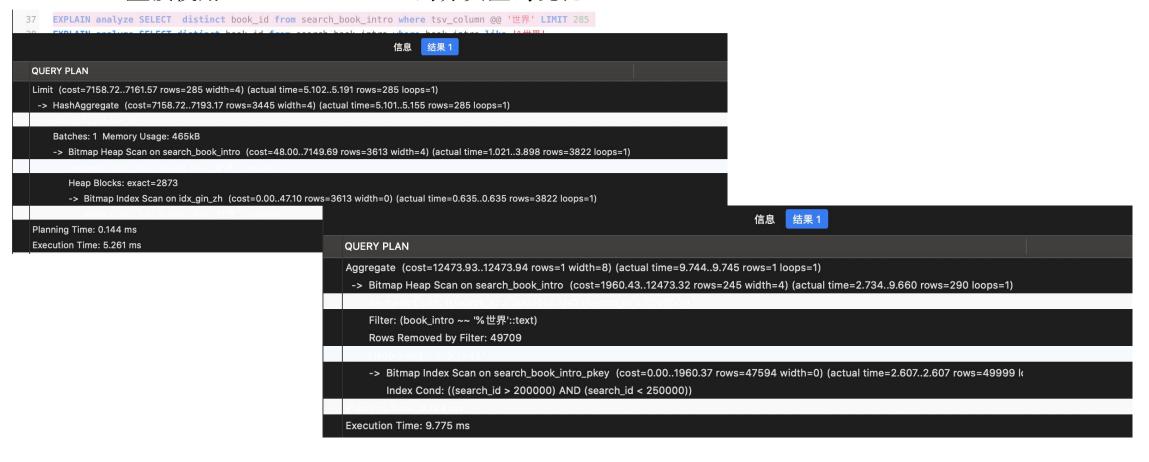
搜索功能实现(2 & 3) 最终的搜索功能

• GIN-INDEX构建时间仍在可接受的范围内:



搜索功能实现(4)分页查询

- select * from user limit 10000,10; =》这种分页查询机制,每次都会从数据库第一条记录开始扫描,越往后查询越慢,而且查询的数据越多,也会拖慢总查询速度。
- 优化这种传统分页查询机制的方式
 - 引入search-id的分页查询优化
 - 直接使用GIN INDEX+LIMIT的分页查询优化



搜索功能实现(5) 后端代码

•逻辑上来讲,一家书店拥有的书的数量,跟整个全站搜索库里的书的数量相比是很少的,没有额外进行建表的必要。

- 所以,在SQL查询语句确定了以后,后端实现的逻辑如下:
- 1. 首先获得book_db库中符合全局搜索的`book_id`
- 2. 对于全局搜索直接返回
- 3. 对于本店搜索,则使用子查询,搜索本店和全局检索出的 `book_id`重复的部分。

测试结果

pytest: 共计50个test case, 全部测试通过!

```
chixinning@mymac
                                           > / master ± > bash script/test.sh
                                                   platform darwin -- Python 3.8.6, pytest-6.1.1, py-1.9.0, pluggy-0.13.1 -- /usr/local/opt/python@3.8/bin/python3.8
cachedir: .pytest_cache
rootdir: /Users/chixinning/Desktop/Bookstore/DB
collecting ... frontend begin test
 * Serving Flask app "be.serve" (lazy loading)
 * Environment: production
 * Debug mode: off
2021-01-10 13:12:42,068 [Thread-1 ] [INFO ] * Running on http://127.0.0.1:5000/ (Press CTRL+C to quit)
collected 50 items
fe/test/test_add_book.py::TestAddBook::test_ok PASSED
                                                                                                                                                      [ 2%]
fe/test/test_add_book.py::TestAddBook::test_error_non_exist_store_id PASSED
                                                                                                                                                       4%]
fe/test/test_add_book.py::TestAddBook::test_error_exist_book_id PASSED
                                                                                                                                                       6%]
                                                                                                                                                       8%]
fe/test/test_add_book.py::TestAddBook::test_error_non_exist_user_id PASSED
fe/test/test_add_funds.py::TestAddFunds::test_ok PASSED
                                                                                                                                                      [ 10%]
fe/test/test_add_funds.py::TestAddFunds::test_error_user_id PASSED
                                                                                                                                                      [ 12%]
fe/test/test_add_funds.py::TestAddFunds::test_error_password PASSED
                                                                                                                                                      [ 14%]
fe/test/test_add_stock_level.py::TestAddStockLevel::test_error_user_id PASSED
                                                                                                                                                      [ 16%]
fe/test/test_add_stock_level.py::TestAddStockLevel::test_error_store_id PASSED
                                                                                                                                                      [ 18%]
fe/test/test_add_stock_level.py::TestAddStockLevel::test_error_book_id PASSED
                                                                                                                                                      [ 20%]
                                                                                                                                                      [ 22%]
fe/test/test_add_stock_level.py::TestAddStockLevel::test_ok PASSED
fe/test/test_bench.py::test_bench PASSED
                                                                                                                                                      [ 24%]
fe/test/test_cancel.py::Test_cancel::test_ok_paid PASSED
                                                                                                                                                      [ 26%]
fe/test/test_cancel.py::Test_cancel::test_false_buyer PASSED
                                                                                                                                                      [ 28%]
fe/test/test_cancel.py::Test_cancel::test_ok_unpay PASSED
                                                                                                                                                      [ 30%]
fe/test/test_cancel.py::Test_cancel::test_cannot_cancel_order PASSED
                                                                                                                                                      [ 32%]
                                                                                                                                                      [ 34%]
fe/test/test_create_store.py::TestCreateStore::test_ok PASSED
fe/test/test_create_store.py::TestCreateStore::test_error_exist_store_id PASSED
                                                                                                                                                      [ 36%]
fe/test/test_deliver_book.py::TestDeliverBook::test_ok PASSED
                                                                                                                                                      [ 38%]
fe/test/test_deliver_book.py::TestDeliverBook::test_authorization_error PASSED
                                                                                                                                                      [ 40%]
fe/test/test_deliver_book.py::TestDeliverBook::test_order_error PASSED
                                                                                                                                                      [ 42%]
fe/test/test_login.py::TestLogin::test_ok PASSED
                                                                                                                                                      [ 44%]
fe/test/test_login.py::TestLogin::test_error_user_id PASSED
                                                                                                                                                      [ 46%]
fe/test/test_login.py::TestLogin::test_error_password PASSED
                                                                                                                                                      [ 48%]
                                                                                                                                                      [ 50%]
fe/test/test_new_order.py::TestNewOrder::test_non_exist_book_id PASSED
                                                                                                                                                      [ 52%]
fe/test/test_new_order.py::TestNewOrder::test_low_stock_level PASSED
fe/test/test_new_order.py::TestNewOrder::test_ok PASSED
                                                                                                                                                      [ 54%]
fe/test/test_new_order.py::TestNewOrder::test_non_exist_user_id PASSED
                                                                                                                                                      [ 56%]
fe/test/test_new_order.py::TestNewOrder::test_non_exist_store_id PASSED
                                                                                                                                                      [ 58%]
fe/test/test_password.py::TestPassword::test_ok PASSED
                                                                                                                                                      [ 60%]
fe/test/test_password.py::TestPassword::test_error_password PASSED
                                                                                                                                                      [ 62%]
                                                                                                                                                      [ 64%]
fe/test/test_password.py::TestPassword::test_error_user_id PASSED
fe/test/test_payment.py::TestPayment::test_ok PASSED
                                                                                                                                                      [ 66%]
fe/test/test_payment.py::TestPayment::test_authorization_error PASSED
                                                                                                                                                      [ 68%]
fe/test/test_payment.py::TestPayment::test_not_suff_funds PASSED
                                                                                                                                                      [ 70%]
fe/test/test_payment.py::TestPayment::test_repeat_pay PASSED
                                                                                                                                                      [ 72%]
                                                                                                                                                      [ 74%]
fe/test/test_receive_book.py::TestReceiveBook::test_ok PASSED
fe/test/test_receive_book.py::TestReceiveBook::test_authorization_error PASSED
                                                                                                                                                      [ 76%]
fe/test/test_receive_book.py::TestReceiveBook::test_order_error PASSED
                                                                                                                                                      [ 78%]
fe/test/test_register.py::TestRegister::test_register_ok PASSED
                                                                                                                                                      [ 80%]
fe/test/test_register.py::TestRegister::test_unregister_ok PASSED
                                                                                                                                                      [ 82%]
fe/test/test_register.py::TestRegister::test_unregister_error_authorization PASSED
                                                                                                                                                      [ 84%]
fe/test/test_register.py::TestRegister::test_register_error_exist_user_id PASSED
                                                                                                                                                      [ 86%]
                                                                                                                                                      [ 88%]
fe/test/test_search_functions.py::TestSearchFunctions::test_ok_author PASSED
fe/test/test_search_functions.py::TestSearchFunctions::test_non_store_id_err PASSED
                                                                                                                                                      [ 90%]
fe/test/test_search_functions.py::TestSearchFunctions::test_no_such_book_in_DB_err2 PASSED
                                                                                                                                                      [ 92%]
                                                                                                                                                      [ 94%]
fe/test/test_search_functions.py::TestSearchFunctions::test_no_such_book_instore_err PASSED
fe/test/test_search_history_status.py::Test_search_history_status::test_ok PASSED
                                                                                                                                                      [ 96%]
fe/test/test_search_history_status.py::Test_search_history_status::test_false_buyer PASSED
                                                                                                                                                      [ 98%]
fe/test/test_search_history_status.py::Test_search_history_status::test_no_record_buyer PASSED
                                                                                                                                                      [100%]
```

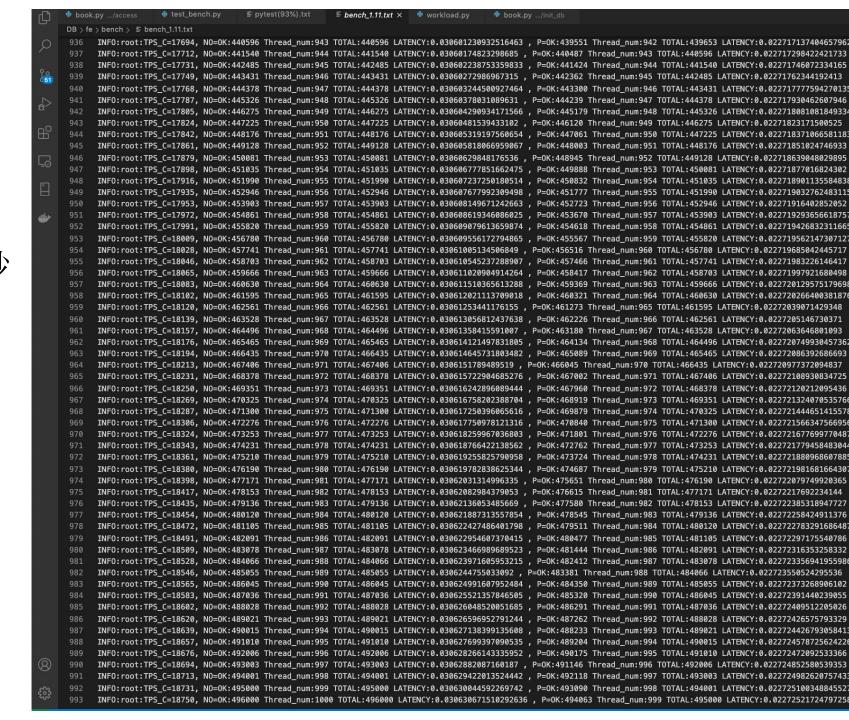
覆盖率

覆盖率93%

Seb_initpy	2	OB >	≡ pytest(93%).txt					
be/_initpy	be/_initpy		Name	Stmts	Miss	Branch	BrPart	Cover
be/modell/j.initpy	be/modell/_initpy							
be/modell/_initpy	be/modell/_initpy							100%
6 be/model1/buyer.py	6 be/modell/buyer.py			8	8	2	0	0%
7 be/model1/db_conn.py 30 6 0 100% 8 be/model1/reror.py 23 3 0 0 87% 9 be/model1/rscler.py 95 16 30 4 79% 10 be/model1/rscler.py 27 4 0 0 85% 11 be/model1/rscr.py 37 1 2 1 95% 12 be/serve.py 37 1 2 1 95% 12 be/viewl/loure.py 42 0 0 100% 14 be/viewl/seller.py 39 0 0 100% 15 be/viewl/seller.py 39 0 0 100% 16 be/viewl/seller.py 39 0 0 100% 16 be/viewl/seller.py 39 0 0 0 100% 17 fe/access/eller.py 31 0 0 100% 100% 100% 100% 100%	7 be/model1/db_conn.py 30 6 0 1008 8 be/model1/reror.py 23 3 0 0 879 9 be/model1/rseller.py 95 16 30 4 798 10 be/model1/user.py 27 4 0 0 854 11 be/model1/user.py 129 24 38 6 778 12 be/serve.py 37 1 2 1 954 12 be/serve.py 37 1 2 1 954 14 be/viewl/auth.py 42 0 0 0 1004 15 be/viewl/buyer.py 82 13 2 856 16 be/viewl/seller.py 39 0 0 1004 16 be/viewl/seller.py 39 0 0 1004 17 fe/access/eller.py 31 0 0 1004 18 fe/cacess/book.py		be/model1/initpy	0	0	0	0	100%
8 be/modell/seller.py 95 16 30 4 79% 9 be/modell/store.py 95 16 30 4 79% 10 be/modell/store.py 27 4 0 0 85% 11 be/modell/user.py 129 24 38 6 77% 12 be/serve.py 37 1 2 1 95% 13 be/viewl/_initpy 0 0 0 0 0 100% 14 be/viewl/auth.py 42 0 0 0 100% 15 be/viewl/puyer.py 82 13 2 0 85% 16 be/viewl/seller.py 39 0 0 0 100% 17 fe/_initpy 0 0 0 0 0 100% 18 fe/access/_initpy 0 0 0 0 0 100% 19 fe/access/book.py 70 1 12 2 96% 19 fe/access/book.py 70 1 12 2 96% 10 fe/access/buyer.py 61 0 2 0 100% 10 fe/access/new_buyer.py 8 0 0 0 100% 11 fe/access/seller.py 8 0 0 0 100% 12 fe/access/seller.py 8 0 0 0 100% 13 fe/access/seller.py 8 0 0 0 100% 14 fe/access/seller.py 8 0 0 0 100% 15 fe/bench/_initpy 0 0 0 0 0 100% 16 fe/bench/session.py 47 0 1 12 2 96% 17 fe/bench/session.py 47 0 1 100% 18 fe/bench/session.py 47 0 1 100% 19 fe/bench/session.py 47 0 12 1 98% 19 fe/bench/session.py 47 0 12 1 98% 10 fe/bench/session.py 47 0 12 1 98% 11 0 0 0 100% 12 fe/bench/session.py 47 0 12 1 98% 13 fe/test/fest_add_book.py 36 0 10 0 100% 14 fe/test/fest_add_stock_level.py 39 0 10 0 100% 15 fe/test/test_add_stock_level.py 39 0 10 0 100% 16 fe/test/test_add_stock_level.py 49 0 2 0 100% 17 fe/test/test_cancel.py 49 0 2 0 100% 18 fe/test/test_cancel.py 49 0 2 0 100% 19 fe/test/test_password.py 40 0 0 0 100% 19 fe/test/test_password.py 41 1 1 97% 10 fe/test/test_password.py 42 1 1 1 97% 11 fe/test/test_password.py 43 0 0 0 100% 11 fe/test/test_password.py 44 0 0 0 0 0 100% 11 fe/test/test_password.py 45 1 4 1 97% 12 fe/test/test_password.py 46 1 4 1 97% 13 fe/test/test_password.py 47 0 1 1 4 1 97% 14 fe/test/test_password.py 50 0 0 100% 15 fe/test/test_password.py 50 0 0 100% 16 fe/test/t	8 be/modell/seler.py 95 16 30 4 799 10 be/modell/store.py 95 16 30 4 799 11 be/modell/store.py 27 4 0 0 854 11 be/modell/user.py 129 24 38 6 778 12 be/serve.py 37 1 2 1 958 13 be/viewl/_initpy 0 0 0 0 0 1008 15 be/viewl/_initpy 82 13 2 0 858 16 be/viewl/seller.py 39 0 0 0 1008 17 fe/_initpy 0 0 0 0 0 1008 18 fe/access/_initpy 0 0 0 0 0 1008 19 fe/access/_initpy 0 0 0 0 0 1008 19 fe/access/book.py 70 1 12 2 968 21 fe/access/book.py 70 1 12 2 968 22 fe/access/lowe_buyer.py 8 0 0 0 0 1008 23 fe/access/lowe_buyer.py 8 0 0 0 0 1008 24 fe/access/seller.py 8 0 0 0 1008 25 fe/bench/_initpy 0 0 0 0 0 0 1008 26 fe/bench/_initpy 0 0 0 0 0 0 1008 27 fe/bench/session.py 13 0 0 0 1008 28 fe/bench/session.py 13 0 0 0 1008 29 fe/bench/session.py 13 0 0 0 1008 20 fe/bench/session.py 17 0 1 12 2 968 21 fe/bench/session.py 17 0 0 0 0 0 1008 22 fe/bench/session.py 17 0 0 0 0 0 1008 23 fe/bench/session.py 17 0 0 0 0 0 1008 24 fe/bench/session.py 17 0 0 0 0 0 1008 25 fe/bench/session.py 17 0 0 0 0 0 1008 26 fe/bench/session.py 17 0 0 0 0 1008 27 fe/bench/session.py 17 0 0 0 0 1008 28 fe/bench/session.py 17 0 0 0 0 1008 29 fe/conf.py 11 0 0 0 1008 30 fe/test/test_add_book.py 36 0 10 0 1008 31 fe/test/test_add_stock_level.py 39 0 10 0 1008 32 fe/test/test_add_stock_level.py 39 0 10 0 1008 33 fe/test/test_add_stock_level.py 39 0 10 0 1008 34 fe/test/test_add_stock_level.py 39 0 10 0 1008 35 fe/test/test_cancel.py 49 0 2 0 1008 36 fe/test/test_cancel.py 49 0 2 0 1008 37 fe/test/test_ads.pode.py 64 1 4 1 978 38 fe/test/test_ads.pode.py 66 1 4 1 978 49 fe/test/test_password.py 60 1 4 1 978 40 fe/test/test_password.py 60 1 4 1 978 41 fe/test/test_password.py 60 1 4 1 978 42 fe/test/test_password.py 60 1 4 1 978 43 fe/test/test_password.py 60 1 4 1 978 44 fe/test/test_password.py 60 1 1008 45 fe/test/test_password.py 60 1 4 1 978 46 fe/test/test_password.py 60 1 1008 47 fe/test/test_password.py 60 1 1008 48 fe/test/test_password.py 60 1 1008 49 fe/test/test_password.py 60 1 1008 40 fe/test/test_password.py 60 1 1008 40			281	27	102	12	88%
9 be/modell/seller.py 95 16 30 4 79% 10 be/modell/store.py 27 4 0 0 885% 12 be/modell/user.py 129 24 38 6 77% 12 be/serve.py 37 1 2 1 95% 13 be/viewl/_initpy 0 0 0 0 0 0 100% 14 be/viewl/auth.py 42 0 0 0 100% 15 be/viewl/buyler.py 82 13 2 0 85% 16 be/viewl/seller.py 39 0 0 0 0 100% 17 fe/_initpy 0 0 0 0 0 0 100% 17 fe/_initpy 0 0 0 0 0 0 100% 18 fe/access/_initpy 0 0 0 0 0 0 100% 19 fe/access/buyler.py 31 0 0 0 0 0 100% 19 fe/access/buyler.py 31 0 0 0 100% 19 fe/access/buyler.py 61 0 2 0 100% 19 fe/access/buyler.py 8 0 0 0 0 100% 19 fe/access/buyler.py 8 0 0 0 100% 19 fe/access/lew_buyler.py 8 0 0 0 0 100% 19 fe/access/lew_buyler.py 8 0 0 0 100% 19 fe/access/lew_seller.py 8 0 0 0 100% 19 fe/access/lew_seller.py 8 0 0 0 100% 19 fe/access/seller.py 10 0 0 0 0 100% 19 fe/access/seller.py 11 0 0 0 100% 19 fe/bench/run.py 13 0 6 0 100% 19 fe/bench/workload.py 125 1 22 2 98% 19 fe/bench/workload.py 125 1 22 2 98% 19 fe/conf.py 11 0 0 0 100% 19 fe/conftest.py 17 0 0 0 100% 19 fe/conftest.py 17 0 0 0 100% 19 fe/test/test_addfunds.py 125 1 22 2 98% 19 fe/test/test_add_stock_level.py 39 0 10 0 100% 19 fe/test/test_level.py 28 0 0 0 100% 19 fe/test/test_level.py 39 0 10 0 100% 19 fe/test/test_level.py 30 0 0 0 00% 19 fe/test/test_level.py 30 0 0 0 0 00% 10	9 be/modell/seller.py 95 16 30 4 798 10 be/modell/store.py 27 4 0 0 885 11 be/modell/user.py 129 24 38 6 758 12 be/serve.py 37 1 2 1 958 13 be/viewl/_initpy 0 0 0 0 0 0 1008 14 be/viewl/auth.py 42 0 0 0 1008 15 be/viewl/buyer.py 82 13 2 0 858 16 be/viewl/seller.py 39 0 0 0 0 1008 17 fe/_initpy 0 0 0 0 0 0 1008 18 fe/access/_initpy 0 0 0 0 0 0 1008 19 fe/access/auth.py 31 0 0 1008 20 fe/access/buyer.py 31 0 0 0 1008 21 fe/access/buyer.py 61 0 2 0 1008 22 fe/access/hew_buyer.py 8 0 0 0 0 1008 23 fe/access/new_seller.py 8 0 0 0 1008 24 fe/access/seller.py 8 0 0 0 1008 25 fe/bench/_initpy 0 0 0 0 0 1008 26 fe/bench/_initpy 0 0 0 0 0 1008 27 fe/bench/session.py 13 0 0 0 1008 28 fe/bench/workload.py 125 1 22 2 988 29 fe/conf.py 11 0 0 0 1008 30 fe/conftest.py 17 0 0 0 1008 31 fe/test/test_add_book.py 36 0 10 0 1008 32 fe/test/test_add_book.py 36 0 10 0 1008 33 fe/test/test_add_stock_level.py 39 0 10 0 1008 34 fe/test/test_add_stock_level.py 39 0 10 0 1008 35 fe/test/test_add_stock_level.py 39 0 10 0 1008 36 fe/test/test_add_stock_level.py 39 0 10 0 1008 37 fe/test/test_add_stock_level.py 39 0 10 0 1008 38 fe/test/test_encel.py 49 0 2 0 1008 39 fe/test/test_encel.py 49 0 2 0 1008 30 fe/test/test_add_stock_level.py 39 0 10 0 1008 36 fe/test/test_encel.py 49 0 2 0 1008 37 fe/test/test_add_stock_level.py 39 0 10 0 1008 38 fe/test/test_encel.py 49 0 2 0 1008 39 fe/test/test_encel.py 49 0 2 0 1008 40 fe/test/test_login.py 28 0 0 0 1008 41 fe/test/test_password.py 28 0 0 0 1008 42 fe/test/test_password.py 33 0 0 0 1008 43 fe/test/test_password.py 35 0 0 0 1008 44 fe/test/test_password.py 35 0 0 0 1008 45 fe/test/test_password.py 35 0 0 0 1008 46 fe/test/test_password.py 35 0 0 0 1008 47 fe/test/test_search_functions.py 50 0 0 1008 47 fe/test/test_search_functions.py 50 0 0 1008 48 fe/test/test_search_functions.py 50 0 0 1008 47 fe/test/test_search_functions.py 50 0 0 1008 47 fe/test/test_search_functions.py 50 0 0 1008 47 fe/test/test_search_fistory_status.py 76 0 8 0 1008		be/model1/db_conn.py	30	0	6	0	100%
10 be/modell/store.py 27 4 0 8 584 11 be/modell/user.py 129 24 38 6 774 12 be/serve.py 37 1 2 1 954 13 be/viewl/initpy 0 0 0 0 100% 14 be/viewl/buyer.py 82 13 2 0 85% 16 be/viewl/buyer.py 39 0 0 0 100% 15 be/viewl/buyer.py 82 13 2 0 85% 16 be/viewl/buyer.py 80 0 0 0 100% 17 fe/_access/inewler.py 0 0 0 0 100% 18 fe/access/book.py 70 1 12 2 96% 19 fe/access/book.py 70 1 12 2 96% 16 fe/access/how_seller.py 8 0 0 100% 21 fe/access/how_seller.py 37 0 0 100% 25 </td <td>10 be/modell/store.py</td> <td></td> <td></td> <td>23</td> <td>3</td> <td>0</td> <td>0</td> <td>87%</td>	10 be/modell/store.py			23	3	0	0	87%
11 be/modell/user.py 129 24 38 6 77% 12 be/serve.py 37 1 2 1 95% 13 be/viewl/_initpy 0 0 0 0 0 0 100% 15 be/viewl/buyer.py 82 13 2 0 85% 16 be/viewl/seller.py 39 0 0 0 100% 17 fe/_initpy 0 0 0 0 0 0 100% 18 fe/access/_initpy 0 0 0 0 0 0 100% 19 fe/access/_unitpy 10 0 0 0 0 0 100% 10 fe/access/book.py 10 1 12 2 96% 11 0 2 0 100% 12 fe/access/new_buyer.py 13 0 0 0 100% 15 fe/access/new_seller.py 16 1 0 2 0 100% 17 fe/access/new_seller.py 18 0 0 0 100% 19 fe/access/new_seller.py 19 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	11 be/modell/user.py 129 24 38 6 778 12 be/serve.py 37 1 2 1 958 13 be/viewl/_initpy 0 0 0 0 0 0 1008 14 be/viewl/auth.py 42 0 0 0 1008 15 be/viewl/buyer.py 82 13 2 0 858 16 be/viewl/seller.py 39 0 0 0 1008 17 fe/initpy 0 0 0 0 0 0 1008 18 fe/access/_initpy 0 0 0 0 0 0 1008 19 fe/access/book.py 70 1 12 2 968 21 fe/access/new_buyer.py 8 0 0 0 1008 22 fe/access/new_buyer.py 8 0 0 0 1008 24 fe/access/new_seller.py 8 0 0 0 1008 25 fe/bench/_initpy 0 0 0 0 0 0 1008 26 fe/bench/_initpy 17 0 0 0 0 0 0 000 27 fe/bench/session.py 28 fe/bench/session.py 29 fe/conftest.py 10 0 0 0 0 0 0 000 20 fe/conftest.py 11 0 0 0 0 0 000 21 fe/test/test_add_book.py 22 fe/test/test_add_funds.py 23 fe/test/test_add_stock_level.py 24 fe/test/test_add_stock_level.py 25 fe/test/test_add_stock_level.py 26 fe/test/test_create_store.py 27 fe/test/test_bench.py 28 fe/test/test_login.py 29 fe/test/test_pench.py 30 fe/test/test_create_store.py 31 fe/test/test_pench.py 32 fe/test/test_login.py 33 fe/test/test_payment.py 44 fe/test/test_payment.py 45 fe/test/test_payment.py 46 fe/test/test_search_functions.py 57 fe/test/test_payment.py 58 fe/test/test_search_functions.py 59 fe/test/test_search_functions.py 50 fe/test/test_search_functions.py 51 fe/test/test_search_functions.py 52 fe/test/test_search_functions.py 53 fe/test/test_search_functions.py 54 fe/test/test_search_functions.py 55 fe/test/test_search_functions.py 56 fe/test/test_search_functions.py 57 fe/test/test_search_functions.py 58 fe/test/test_search_functions.py 59 fe/test/test_search_functions.py 50 fe/test/test_search_functions.py 51 fe/test/test_search_functions.py 52 fe/test/test_search_functions.py 53 fe/test/test_search_functions.py 56 fe/test/test_search_functions.py 57 fe/test/test_search_functions.py 58 fe/test/test_search_functions.py 59 fe/test/test_search_functions.py 50 fe/test/test_search_functions.py 51 fe/test/test_search_functions.py 52 fe/test/test_search_functions.py 53 fe/test/test_search_functions.py 55 fe/test/test_search_functions.py 56 fe/test/te		be/model1/seller.py	95	16	30	4	79%
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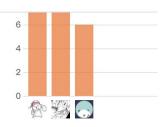
吞吐量&延迟

mac测试吞吐量达18750笔/秒 平均下单延迟0.03秒 平均付款延迟0.022秒



开发流程

Excluding merges, **3 authors** have pushed **20 commits** to master and **20 commits** to all branches. On master, **0 files** have changed and there have been **0 additions** and **0 deletions**.



№ 9 Pull requests merged by 2 people

add auto cancel

#13 merged 2 hours ago

▶ 数据库增加cancel表 history cancel对应修改

#12 merged 2 days ago

- add_book的加书功能删除 需运行book.py加书 book属性增加picture 目前覆盖率90%
 #11 merged 2 days ago
 #31 merged 2 days ago
 #31 merged 2 days ago
 #32 merged 2 days ago
 #32 merged 2 days ago
 #33 merged 2 days ago
 #34 merged 2 days ago
 #35 merged 2 days ago
 #3
- ♣ add_book search_history完善 优化数据库结构 #10 merged 3 days ago
- ♣ 手动取消订单 search history 完善add_book用户输入price 接口
 #9 merged 3 days ago
- 冷 add deliver and receive book

#8 merged 4 days ago

➢ ORM完善基础功能全部测试通过

#7 merged 4 days ago

冷 orm

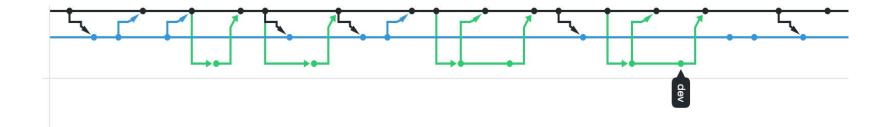
#6 merged 4 days ago

፟ test完善

#5 merged 5 days ago

- 版本控制
- 测试驱动开发
- 应用驱动优化(表结构的修改与完善)
 如:在new_order_detail中新增buyer_id/store_id,
 新增用户订单canel表





感谢聆听

成员: 池欣宁, 王文清, 何诗雨