1. A copy of the output generated by running your program. When it receives a book, have your program print a message "bought book book_name ". When a client issues a query (lookup/search), having your program print the returned results in a nicely formatted manner.

./Run.sh

chenhaos-MacBook-Pro:src chenhaohuang$ ./Run.sh
Running catalog server on elnux2.cs.umass.edu
chenhaohuang@elnux2.cs.umass.edu's password:
Running frontend server on elnux1.cs.umass.edu
chenhaohuang@elnux1.cs.umass.edu's password:
Running order server on elnux3.cs.umass.edu
chenhaohuang@elnux3.cs.umass.edu's password:
Reset database
chenhaohuang@elnux1.cs.umass.edu's password:
test
Test 1: search
2 correct books found
Test 1 PASS
Test 2: search fail
Test 2 PASS
Test 3: lookup
Test 3 PASS
Test 4: buy one
How to get a good grade in 677 in 20 minutes a day---9
Test 4 PASS
Test 5: buy them all
out of stock
Test 5 PASS
Reset database
chenhaohuang@elnux1.cs.umass.edu's password:
Running client
Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit
1
What is the topic?
graduate scool
{"message":"no book under the topic is found"}
Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit
1
What is the topic?
graduate school
{"Xen and the Art of Surviving Graduate School":3,"Cooking for the Impatient Graduate Student":4}
Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit
2
What is the item number?
1
{"price":"19.9","name":"How to get a good grade in 677 in 20 minutes a day","topic":"distributed systems","id":1,"stock":10}
Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit
2
What is the item number?

2

{"price":"14.9","name":"RPCs for Dummies","topic":"distributed systems","id":2,"stock":10}

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

3

What is the item number?

1

You bought the book: How to get a good grade in 677 in 20 minutes a day, the stock is now 9

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

3

What is the item number?

1

You bought the book: How to get a good grade in 677 in 20 minutes a day, the stock is now 8

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

3

What is the item number?

1

You bought the book: How to get a good grade in 677 in 20 minutes a day, the stock is now 7

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

3

What is the item number?

1

You bought the book: How to get a good grade in 677 in 20 minutes a day, the stock is now 6

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

31

sorry I don't understand

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit

3

What is the item number?

1

You bought the book: How to get a good grade in 677 in 20 minutes a day, the stock is now 5

Welcome, what would you like to do? search, lookup, buy？type in or indicate by number 1,2,3 or quit