

Brennan's Bookstore

Application overview:

I have made a database representing an online bookstore used by students. With books costing more than ever and many being unable to afford them, students should be able to sell their old books to the next wave of students taking their class at heavily discounted prices. This way, students get more money than they would from the school (40 dollars instead of 5) and students can purchase books for much less (40 dollars instead of 250). Students will use the website to peruse the book options available or search for a book based on its genre, and add it to their cart. When they purchase a book it removes it from the database. Students who are trying to sell their book will put up a listing until someone chooses their book.

Database Overview:

Book – This entity represents any given book that will be stored in the system and is considered “for sale by owner”. It has the following attributes –

- Id: This value is automatically assigned to each book when recorded into the database. It is a primary key and auto increments with each submission.
- Title: This value is a string which is a max of 200 characters. It cannot be blank and must be filled out in order to submit the book into the database. It represents the title of the book.
- Topic: This value is a string which is a max of 100 characters. It cannot be blank and must be filled out in order to submit the book into the database. It represents the topic of the book or what field of study it relates to, such as “Math”, “Biology” or “Computer Science”.
- Seller: this value is a string which is a max of 200 characters. It cannot be blank and is automatically filled out when the user submits a book to the site. **This is a foreign key to username from “User”.**
- sellLocation: this value is a string which is a max of 300 characters. It is automatically filled based on the seller’s location and **is a foreign key to LocationID in the Place entity**
- Price: Int value that represents the price of the book.

Author – This entity represents book authors so that students may learn more about their work.

- Id: This value is automatically assigned to each book when recorded into the database. It is a primary key and auto increments with each submission.
- Name: This value is a string which is a max of 100 characters. It cannot be blank and must be filled out in order to submit the author into the database.
- Info: This value is a string which is a max of 600 characters. It may be blank. It describes information about the author. It has functionality to be filled out by users eventually but in my actual implementation I left it blank and do not fill it out.

BookAuth – This is simply a handler for the many to many relationship between author and book. Since a many-many relationship is not required for this project I decided to lay the framework for it but in actual implementation is 1 to 1. If I want to expand on this project further in the future I could easily display it in many to many form however.

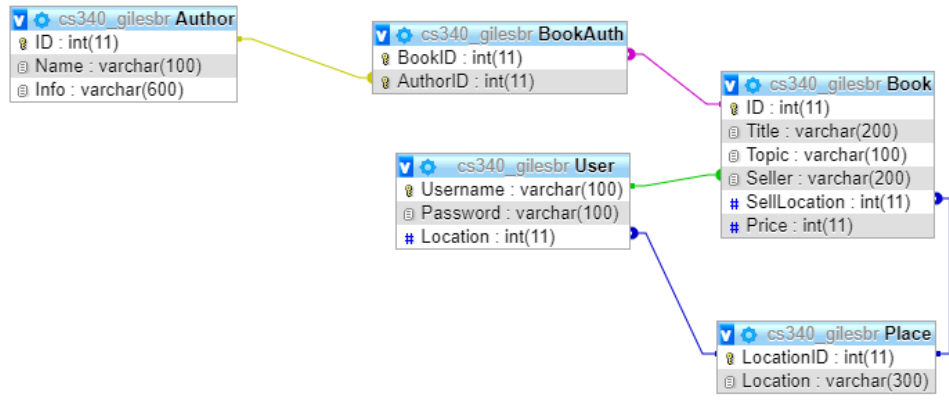
- bookId – The book ID, **foreign key to ID in Book.**
- AuthorID – The author ID, **foreign key to id in Author**

User – this entity represents the user currently logged in.

- userName: This value is a string which is a max of 100 characters. It cannot be blank and must be filled out in order to access the site. This is the primary key.
- Password: This value is a string which is a max of 100 characters. It cannot be blank and must be filled out in order to access the site.
- Location: This value is a string which is a max of 200 characters. It cannot be blank and must be filled out in order to access the site. It should be chosen from a drop down menu on site. It represents the location that the user lives so that students can see if the books that a user offers are local or need to be shipped a distance. **Foreign key to locationID in the place entity.**

Place – this entity represents a hub of users so that users can prioritize trading books locally instead of having to pay shipping fees.

- LocationID: This value is automatically assigned to each location when recorded into the database. It is a primary key and auto increments with each submission. Locations are added by admins.
- Location: this value is a string which is a max of 300 characters. It identifies the location that any book trading hub is based upon.



Current server:

classmysql

Recent Favorites

New

cs340_gilesbr

New

Author

Book

BookAuth

Place

User

information_schema

BrowseStructureSQLSearchInsertExportImportOperations

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

IDNameInfo

Edit

Copy

Delete

7JK Rowlingno info given yet

Edit

Copy

Delete

8bobbyno info given yet

Edit

Copy

Delete

9fredno info given yet

Edit

Copy

Delete

10Harold Grundlesnakno info given yet

Edit

Copy

Delete

11Larry Kingno info given yet

Edit

Copy

Delete

12Grad Student with no credentialsno info given yet

Edit

Copy

Delete

13testauthorno info given yet

Edit

Copy

Delete

14Billy Esquireno info given yet

Edit

Copy

Delete

15Freddy Mercuryno info given yet

Edit

Copy

Delete

16Brennan Gilesno info given yet

Edit

Copy

Delete

17Brennan Gilesno info given yet

Edit

Copy

Delete

18Broseph Broheimno info given yet

Edit

Copy

Delete

19Lizardman Larryno info given yet

Edit

Copy

Delete

20Chuck Norrisno info given yet

Edit

Copy

Delete

21Lonely Housewife

Edit

Copy

Delete

22Lonely Housewife

Edit

Copy

Delete

23Hotlineblingno info given yet

Edit

Copy

Delete

24hotlineblingno info given yet

Edit

Copy

Delete

25Drakeno info given yet

Edit

Copy

Delete

26Drakeno info given yet

Edit

Copy

Delete

27devilno info given yet

Edit

Copy

Delete

28no info given yet

Edit

Copy

Delete

29devilno info given yet

Check all

With selected: EditCopyDeleteExport

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Current server:

classmysql

Recent Favorites

New

cs340_gilesbr

New

Author

Book

BookAuth

Place

User

information_schema

Showing rows 0 - 12 (13 total, Query took 0.0004 seconds.)

SELECT * FROM `Book`

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

← T →

IDTitleTopicSellerSellLocationPrice

☐

Edit

Copy

Delete

21

Harry Potter

fantasy

brennan

1

43

☐

Edit

Copy

Delete

23

test

Science

brennan

1

5

☐

Edit

Copy

Delete

24

Life of Pie

Cooking

sarah

2

101

☐

Edit

Copy

Delete

25

Bob Barker. unsung hero

fiction

sarah

2

333

☐

Edit

Copy

Delete

26

Required Textbook

Math

sarah

2

500

☐

Edit

Copy

Delete

28

TA Test 1

Science

forTA

1

20

☐

Edit

Copy

Delete

29

TA Test 2

Music

forTA

1

99

☐

Edit

Copy

Delete

31

TA Test 3

How to build a website

forTA

1

1

☐

Edit

Copy

Delete

32

Big Book Bro

Lifting 101

BookSeller99

3

42

☐

Edit

Copy

Delete

33

Godzilla Attacks

Drama

BookSeller99

3

99

☐

Edit

Copy

Delete

34

How to Be Fun

Life Improvement

FunGuy

2

15

☐

Edit

Copy

Delete

40

How to Dance like a BOSS 2: The Dance-pocalypse

Life Improvement

drake

3

150

☐

Edit

Copy

Delete

43

human centipede

satan

Chivo

3

666

↑

☐ Check all

With selected: EditCopyDeleteExport

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

phpMyAdmin

Current server:
classmysql

Recent Favorites

New

cs340_gilesbr

New

Author

Book

BookAuth

Place

User

information_schema

Server: classmysql:3306 » Database: cs340_gilesbr » Table: BookAuth

BrowseStructureSQLSearchInsertExportImportOperationsTracking

Showing rows 0 - 12 (13 total, Query took 0.0007 seconds.)

SELECT * FROM `BookAuth`

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

BookID

AuthorID

Edit

Copy

Delete

21

7

Edit

Copy

Delete

23

9

Edit

Copy

Delete

24

10

Edit

Copy

Delete

25

11

Edit

Copy

Delete

26

12

Edit

Copy

Delete

28

14

Edit

Copy

Delete

29

15

Edit

Copy

Delete

31

17

Edit

Copy

Delete

32

18

Edit

Copy

Delete

33

19

Edit

Copy

Delete

34

20

Edit

Copy

Delete

40

26

Edit

Copy

Delete

43

29

Check all

With selected: EditCopyDeleteExport

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

PrintCopy to clipboardExportDisplay chartCreate view

Bookmark this SQL query

Label:

Let every user access this bookmark

phpMyAdmin

Current server: classmysql

Recent Favorites

- New
- cs340_gilesbr
 - New
 - Author
 - Book
 - BookAuth
 - Place
 - User
- information_schema

Server: classmysql:3306 Database: cs340_gilesbr Table: Place

Browse Structure SQL Search Insert Export Import Operations Tracking Triggers

Showing rows 0 - 2 (3 total, Query took 0.0004 seconds.)

```
SELECT * FROM `Place`
```

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

+ Options

		LocationID	Location
<input type="checkbox"/>	Edit Copy Delete	1	Corvallis
<input type="checkbox"/>	Edit Copy Delete	2	Portland
<input type="checkbox"/>	Edit Copy Delete	3	Hollywood

Check all | With selected: Edit Copy Delete Export

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

Label: ☐ Let every user access this bookmark

Final Project Submission

tools.engr.oregonstate.edu / cla

https://tools.engr.oregonstate.edu/phpMyAdmin/sql.php?server=5&db=cs340_gilesbr&table=User&pos=0

phpMyAdmin

Current server: classmysql

Recent Favorites

New

cs340_gilesbr

New

Author

Book

BookAuth

Place

User

information_schema

Server: classmysql:3306 Database: cs340_gilesbr Table: User

Browse

Structure

SQL

Search

Insert

Export

Import

Operations

Tracking

Triggers

Showing rows 0 - 10 (11 total, Query took 0.0006 seconds.)

SELECT * FROM `User`

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

+ Options

Username

Password

Location

Edit

Copy

Delete

Ashleylynn26

\$2y\$10\$nfTmo2SrZ0oRoT7qW5I9o.Zw/c4JB/DAKIRGh72OZFT...

2

Edit

Copy

Delete

bigbuttmcgee

\$2y\$10\$QQCf8PENLL6HtNuVh8O9KeOB4rMqUP.Pt5wQlqzTYFk...

1

Edit

Copy

Delete

BookSeller99

\$2y\$10\$YwHSJz7QB6TL4tpNE2oYXul84OIDsw6jrqsFLRTNld...

3

Edit

Copy

Delete

Brennan

\$2y\$10\$XukVstjpd8O9u7a3QZRIYuv/Gxso7pV2vOpgg2h/Af4...

1

Edit

Copy

Delete

Chivo

\$2y\$10\$fkku8tER3edexscP0GkuXOXAJul7RkfIVagFU7b7sqX...

3

Edit

Copy

Delete

Drake

\$2y\$10\$ChPOCSbyMZxN/ftdFrX0G.BEFvwCauyHnObxbBj4Bkp...

3

Edit

Copy

Delete

forTA

\$2y\$10\$WwWkBg2px/aMlesRLazZO09Wfd0sQ8kOZU..K61aY2k...

2

Edit

Copy

Delete

FunGuy

\$2y\$10\$mjH.I6V..EgOfgK0u89rnuh5MGVSfK33icqhOO3prXL...

2

Edit

Copy

Delete

meghasin

\$2y\$10\$CZvsQLI7uT8qR.uy0BwRmuJoaQZpG2arDybLPUHIKR2...

1

Edit

Copy

Delete

Sarah

\$2y\$10\$hK.SO9Klxiz6MnA4OYrZq.6L1pj7x4LQ98kzxJSbYr2...

2

Edit

Copy

Delete

Tgiles

\$2y\$10\$W3J8LSmzCVDkaMX2kc7jbeBD9EwsvSKqd.oPHRBtN2M...

1

Check all

With selected: Edit Copy Delete Export

Show all

Number of rows: 25

Filter rows: Search this table

Sort by key: None

Query results operations

Print

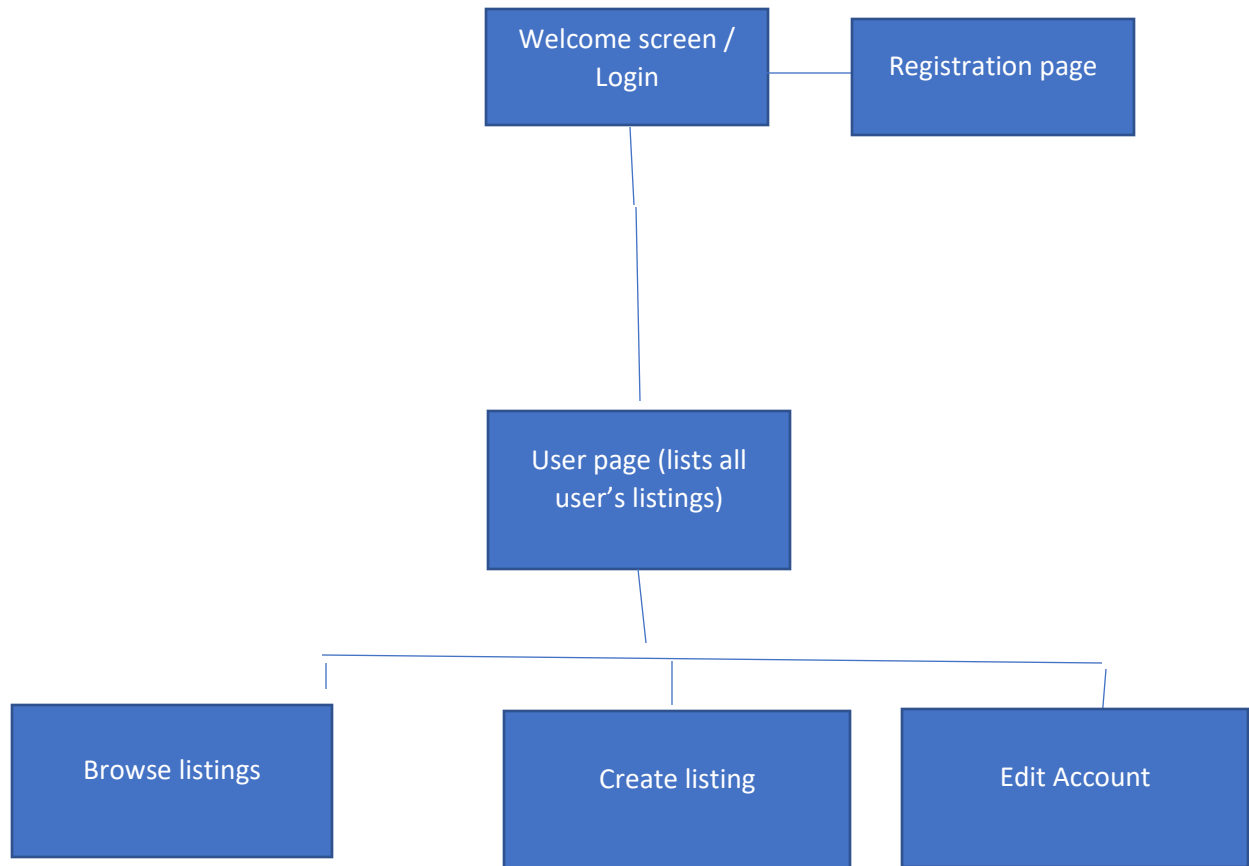
Copy to clipboard

Export

Display chart

Create view

Bookmark this SQL query



Page specific site designs are shown in reverse order – scroll to bottom to see login page and work your way up if you get confused.

Browse Listings

Create Listing

Edit Account

Edit Account

info

New Password:

New Location:

☐

Corvallis

☐

Portland

☐

Hollywood

SUBMIT

Browse Listings

Create Listing

Edit Account

Create Listing

Title	<input type="text"/>
Author	<input type="text"/>
Topic	<input type="text"/>
Price	<input type="text"/>

SUBMIT

Browse Listings

Create Listing

Edit Account

[illegible]

Browse Listings

Create Listing

Edit Account

User page

My Listings

[illegible]

Registration screen

Registration

Username

Password

Corvallis

Portland

Hollywood

SUBMIT

REGISTER

Welcome Screen

Welcome To Brennan's Books, a place where you can sell your textbooks for more and buy them for less! Take the greedy middlemen out of the equation and save some money for the weekends by signing up below.

LOGIN

Username

Password

SUBMIT

REGISTER