

Database Project



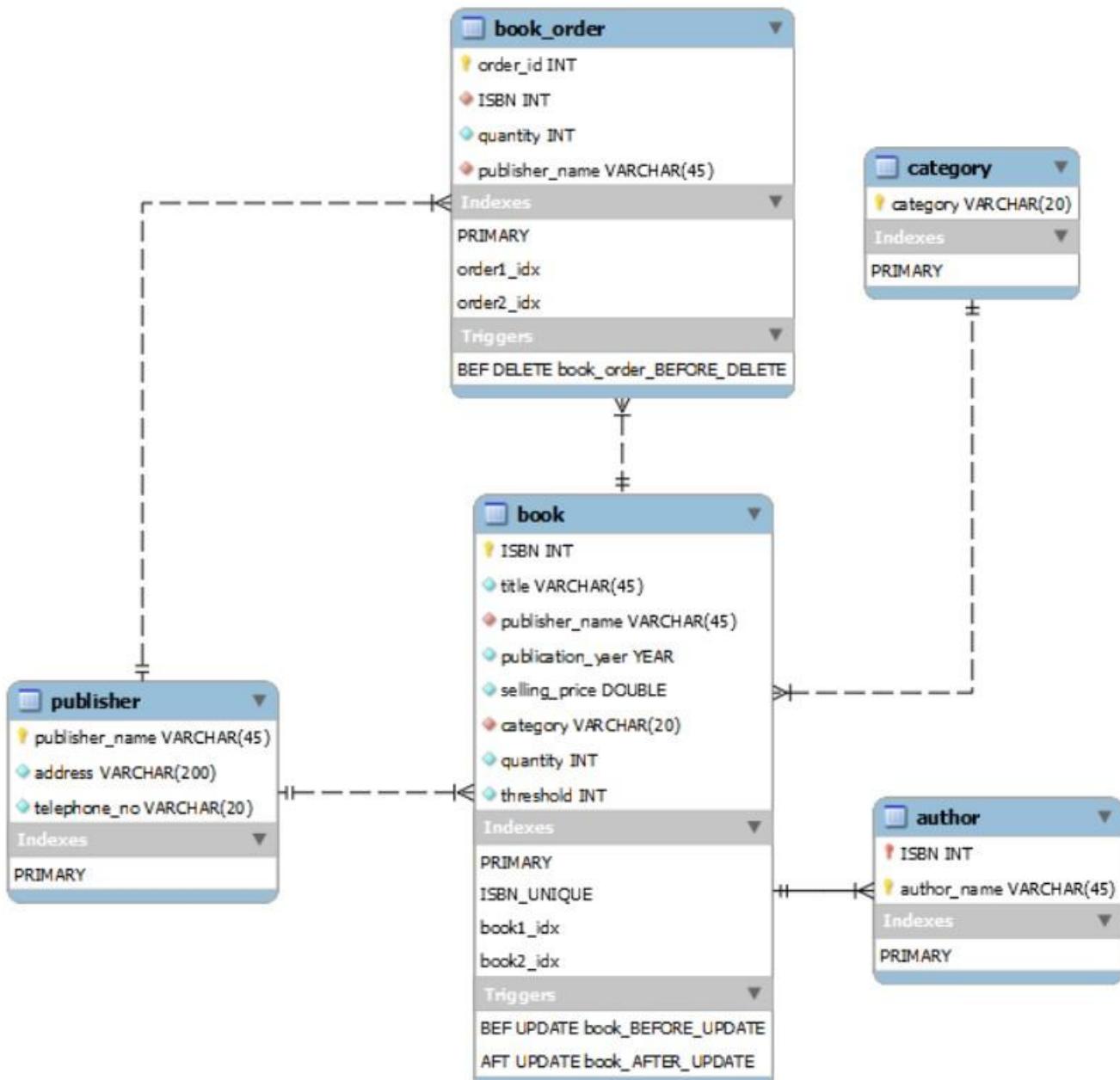
Order Processing System

Team Members

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Part 1

ERD



Tables

-Book



-Book_Order



-Author



-Category



-Publisher



Procedures



Sample Runs Code

```

insert into Category values ("Science");
insert into Category values ("Art");
insert into Category values ("Religion");
insert into Category values ("History");
insert into Category values ("Geography");

insert into Publisher values ("Bantam Books", "alex", "1286415");
insert into Publisher values ("Unknown", "alex", "1286415");
insert into Publisher values ("OXFORD", "alex", "1286415");

insert into Book values (0, "A Brief History Of Time", "Bantam Books", "1999", 29.0, "Science", 20, 5);
insert into Book values (1, "A Short History of Nearly Everything", "OXFORD", "2003", 39.0, "Science", 25, 5);
insert into Book values (2, "English Dictionary", "OXFORD", "2011", 37.0, "ART", 22, 5);
insert into Book values (3, "The Art of War", "Unknown", "1999", 38.0, "ART", 23, 5);
insert into Book values (4, "1984", "Unknown", "2003", 39.0, "History", 24, 5);
insert into Book values (5, "The New", "Unknown", "2011", 39.5, "Geography", 21, 5);

insert into Author values(0, "Aya");
insert into Author values(1, "Ahmed");
insert into Author values(2, "Pancee");
insert into Author values(3, "Farah");
insert into Author values(4, "Samer");
insert into Author values(5, "Khames");
insert into Author values(5, "Mohamed");
insert into Author values(5, "Basel");
insert into Author values(2, "Murad");

```

Output

	publisher_name	address	telephone_no		category		ISBN	author_name
▶	Bantam Books	alex	1286415		Art		0	Aya
	OXFORD	alex	1286415		Geography		1	Ahmed
	Unknown	alex	1286415		History		2	Murad
					Religion		2	Pancee
					Science		3	Farah
							4	Samer
							5	Basel
							5	Khames
							5	Mohamed

	ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
▶	0	A Brief History Of Time	Bantam Books	1999	29	Science	20	5
	1	A Short History of Nearly Everything	OXFORD	2003	39	Science	25	5
	2	English Dictionary	OXFORD	2011	37	ART	22	5
	3	The Art of War	Unknown	1999	38	ART	23	5
	4	1984	Unknown	2003	39	History	24	5
	5	The New	Unknown	2011	39.5	Geography	21	5

Code

```
update book set quantity = 0 where ISBN = 0;
```

Output

	ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
▶	0	A Brief History Of Time	Bantam Books	1999	29	Science	0	5
	1	A Short History of Nearly Everything	OXFORD	2003	39	Science	25	5
	2	English Dictionary	OXFORD	2011	37	ART	22	5
	3	The Art of War	Unknown	1999	38	ART	23	5
	4	1984	Unknown	2003	39	History	24	5
	5	The New	Unknown	2011	39.5	Geography	21	5

	order_id	ISBN	quantity	publisher_name
▶	2	0	5	Bantam Books

Code

```
delete from book_order where order_id = 2;
```

Output

	ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
▶	0	A Brief History Of Time	Bantam Books	1999	29	Science	5	5
	1	A Short History of Nearly Everything	OXFORD	2003	39	Science	25	5
	2	English Dictionary	OXFORD	2011	37	ART	22	5
	3	The Art of War	Unknown	1999	38	ART	23	5
	4	1984	Unknown	2003	39	History	24	5
	5	The New	Unknown	2011	39.5	Geography	21	5

	order_id	ISBN	quantity	publisher_name
*	NULL	NULL	NULL	NULL

Code

```
update book set quantity = -1 where ISBN = 1;
```

Output

✖ 139 02:50:40 update book set quantity = -1 ... Error Code: 1643. Can't be updated, negative values have been entered

Code

```
call search_by_isbn(0);
call search_by_title("A Brief History Of Time");
call search_by_cat("ART");
call search_by_author("Murad");
call search_by_publisher("OXFORD");
call get_book_authors(2);
```

Output

ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
0	A Brief History Of Time	Bantam Books	1999	29	Science	5	5
ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
0	A Brief History Of Time	Bantam Books	1999	29	Science	5	5
ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
2	English Dictionary	OXFORD	2011	37	ART	22	5
3	The Art of War	Unknown	1999	38	ART	23	5
ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
2	English Dictionary	OXFORD	2011	37	ART	22	5
ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
1	A Short History of Nearly Everything	OXFORD	2003	39	Science	25	5
2	English Dictionary	OXFORD	2011	37	ART	22	5
author_name							
►	Murad						
	Pancee						

Code

```
call add_book(6, "New Book", "OXFORD", "1999", 30.95, "Geography", 21, 5, "Aya");
call add_author(6, "Pancee");
call add_author(6, "Farah");
call get_book_authors(6);
```

Output

ISBN	title	publisher_name	publication_yaer	selling_price	category	quantity	threshold
0	A Brief History Of Time	Bantam Books	1999	29	Science	5	5
1	A Short History of Nearly Everything	OXFORD	2003	39	Science	25	5
2	English Dictionary	OXFORD	2011	37	ART	22	5
3	The Art of War	Unknown	1999	38	ART	23	5
4	1984	Unknown	2003	39	History	24	5
5	The New	Unknown	2011	39.5	Geography	21	5
6	New Book	OXFORD	1999	30.95	Geography	21	5
author_name							
►	Aya						
	Farah						
	Pancee						

DDL Scripts & ERD & Procedures

You can find any results or scripts related to this part [here](#)

Part 2

Indices

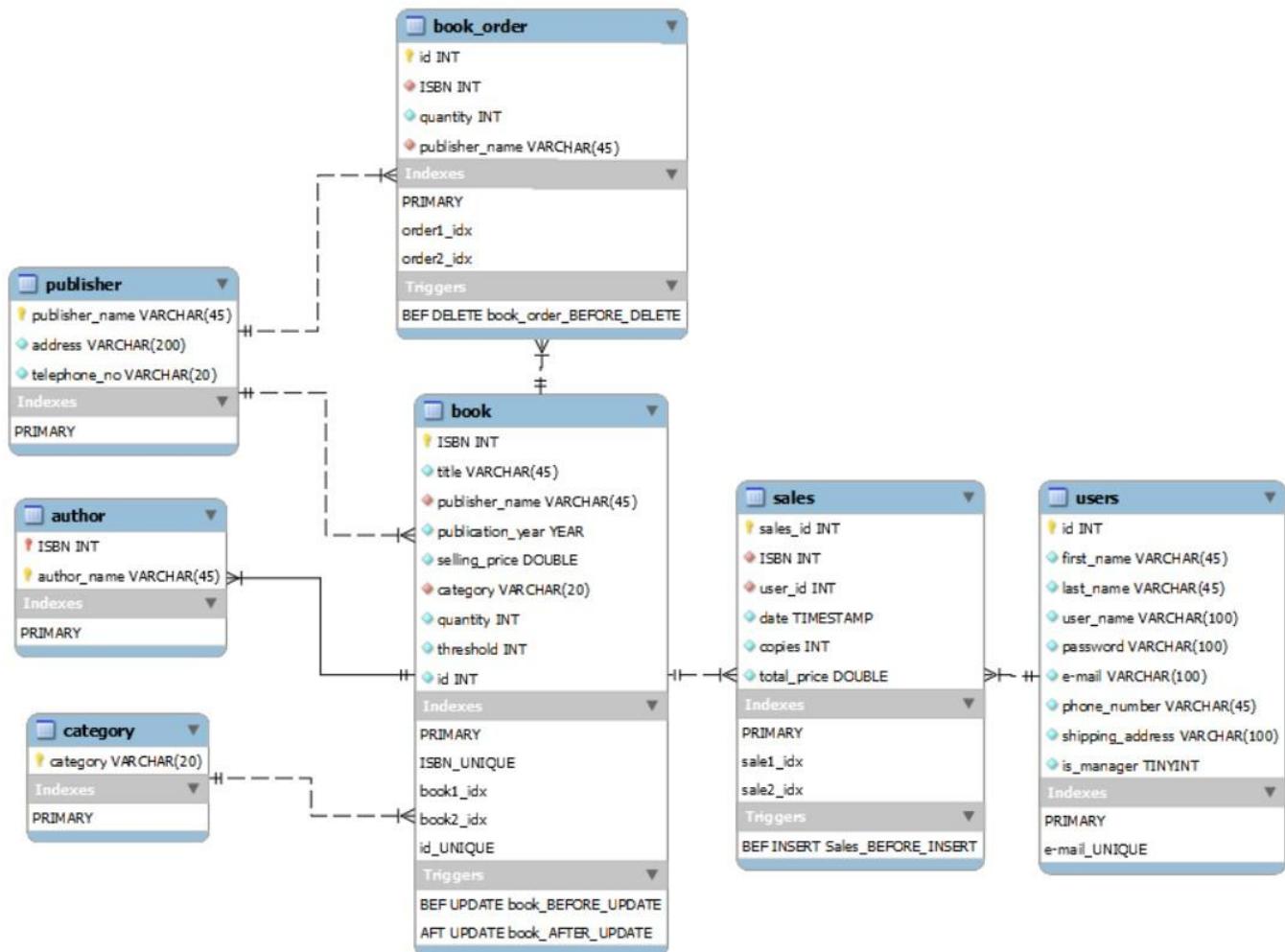
Book Relation

- Category : Index to support quick search for the books of same category by Clustering them.
- Publisher : Index to support quick search for the books of same category.

Sales

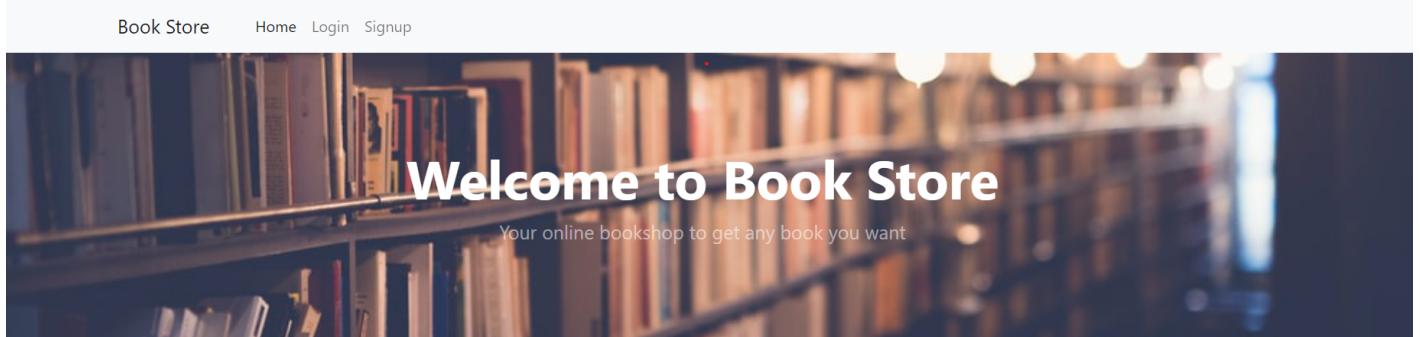
- User Id : Index to support quick search for all the orders confirmed and successfully done by the same user to be used in determining the top 5 customers who purchase the most purchase amount in descending order for the last three months of the same book.
- ISBN : Index to support quick search for all the orders confirmed and successfully done for the same book to be used in determining the total sales for books in the previous month and the top 10 selling books for the last three months.

EER Model



Sample Runs

Welcome Page



Sign up

The sign-up form is titled "Create New Account". It contains fields for First Name, Last Name, Username, E-mail, Password, Confirmation Password, Phone Number, and Shipping Address. Each field has a placeholder text and a corresponding input field. A "Create Account" button is located at the bottom of the form. The background of the form is a blurred image of bookshelves and hanging lights.

Book Store Home Login Signup

Create New Account

First Name:

Last Name:

Username:

E-mail:

Password:

Confirmation Password:

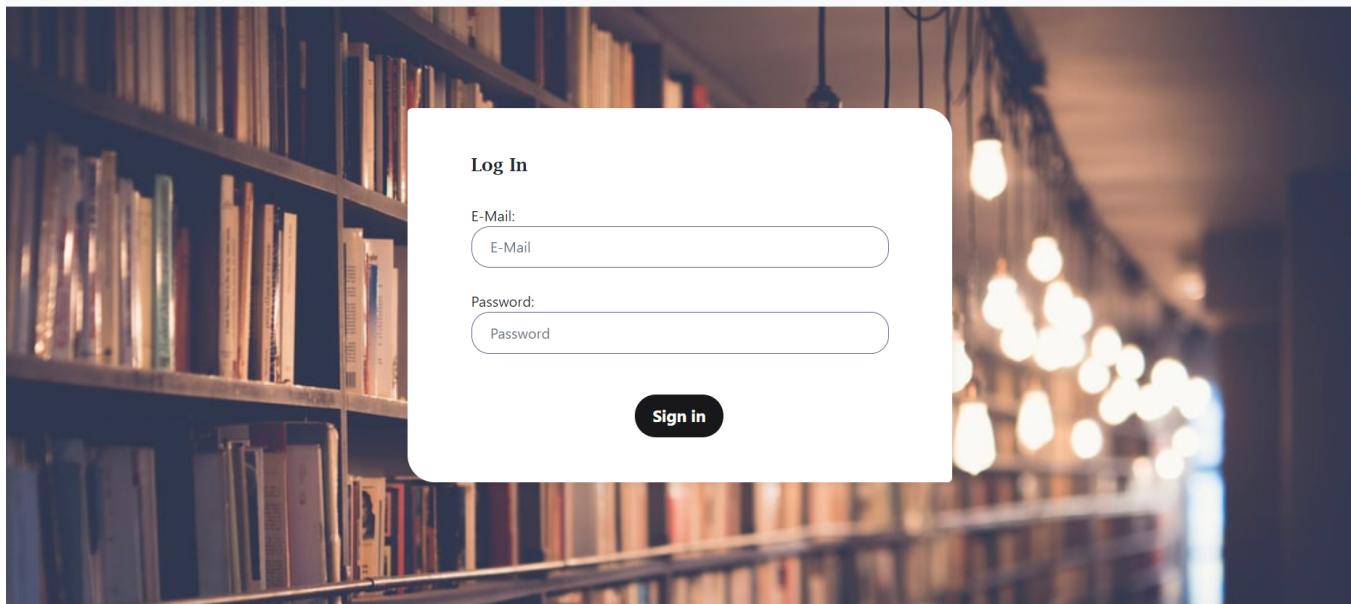
Phone Number:

Shipping Address:

Create Account

Sign In

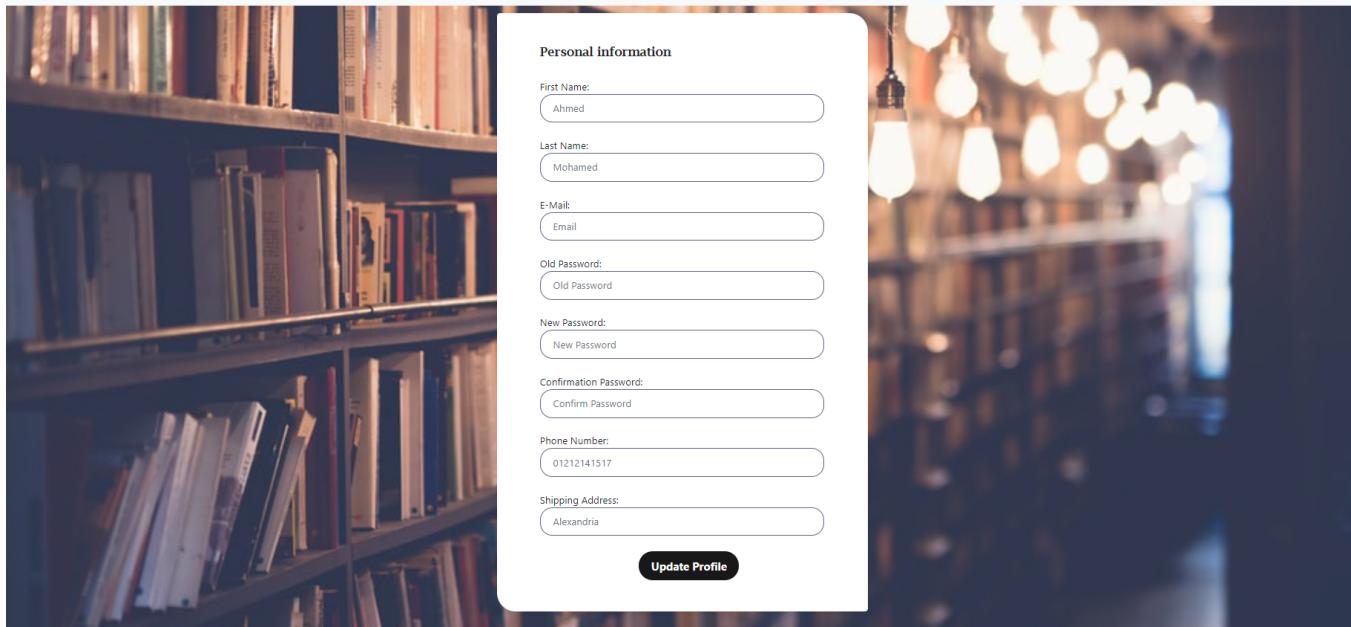
Book Store Home Login Signup



Settings

Book Store Home Logout

Cart 0



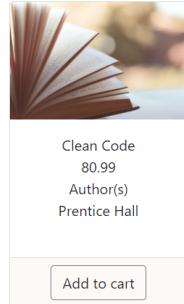
User Homepage

Book Store Home Profile Logout

Cart 0

Search

Art
Geography
History
Religion
Science



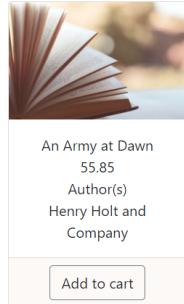
Clean Code
80.99
Author(s)
Prentice Hall

Add to cart



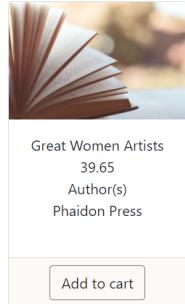
Introduction to
Algorithms
150
Author(s)
MIT Press

Add to cart



An Army at Dawn
55.85
Author(s)
Henry Holt and
Company

Add to cart



Great Women Artists
39.65
Author(s)
Phaidon Press

Add to cart

<Previous Next>

Manager Homepage

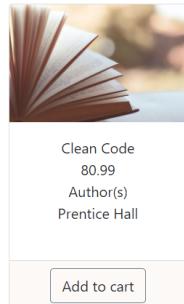
Book Store Home Profile Statistics Logout

Cart 0

Manager Edits

Search

Art
Geography
History
Religion
Science



Clean Code
80.99
Author(s)
Prentice Hall

Add to cart



Introduction to
Algorithms
150
Author(s)
MIT Press

Add to cart



An Army at Dawn
55.85
Author(s)
Henry Holt and
Company

Add to cart



Great Women Artists
39.65
Author(s)
Phaidon Press

Add to cart

<Previous Next>

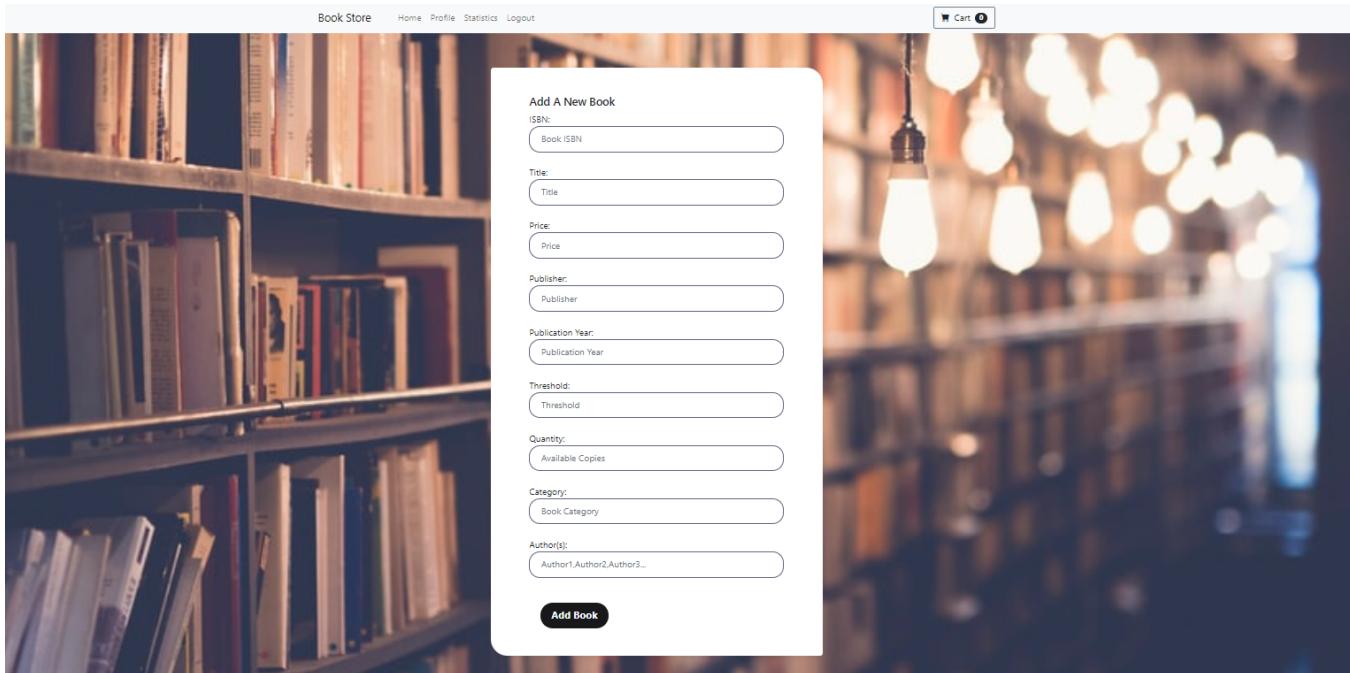
Manager Operations

The screenshot shows a dark-themed web application for managing a bookstore. At the top, there's a navigation bar with links for Book Store, Home, Profile, Statistics, and Logout. A shopping cart icon with a '0' indicates no items. On the right, a button labeled 'Manager Edits' is visible. On the left, a sidebar lists categories: Art, Geography, History, Religion, and Science, with a 'Search' button above them. The main content area displays a grid of book cards. Each card includes a thumbnail, the book title, author(s), price, publisher, and an 'Add to cart' button. A central modal window is open, containing five dark blue buttons with white text: 'Promote user', '+ Add new book', 'Edit book', 'Confirm Orders', and '+ Add Publishers'. Below the modal, there are '<Previous' and 'Next>' navigation buttons.

Statistics

The screenshot shows a statistics page with a light gray header bar at the top. Below it, a large image of a library with bookshelves and warm lighting serves as the background. In the center, a white modal window titled 'Statistics' contains three sections, each with a 'Show' button. The first section says 'The total sales for books in the previous month'. The second section says 'The top 5 customers who purchase the most purchase amount in descending order for the last three months'. The third section says 'The top 10 selling books for the last three months'.

Add new book



Book Store Home Profile Statistics Logout

Cart 0

Add A New Book

ISBN:

Title:

Price:

Publisher:

Publication Year:

Threshold:

Quantity:

Category:

Author(s):

Add Book

Cart

Book Store Home Profile Logout

Cart 0

ITEM	QUANTITY	PRICE EACH	TOTAL	
Inverting The Pyramid	120	\$21.40	\$249	x Remove Item

Clear Cart **Checkout**

Payment

Book Store Home Logout

Cart 0



Payment Methods

PayPal

Credit Card

Summary
Product: Name of product
Price: \$452.90
Lorem ipsum, dolor sit amet consectetur adipisicing elit.
Atque nihil neque quisquam aut repellendus, dicta vero?
Animi dicta cupiditate, facilis provident quibusdam ab quis,
iste harum ipsum hic, nemo qui!

CARD NUMBER

MM / YY **CVV CODE**

NAME ON THE CARD

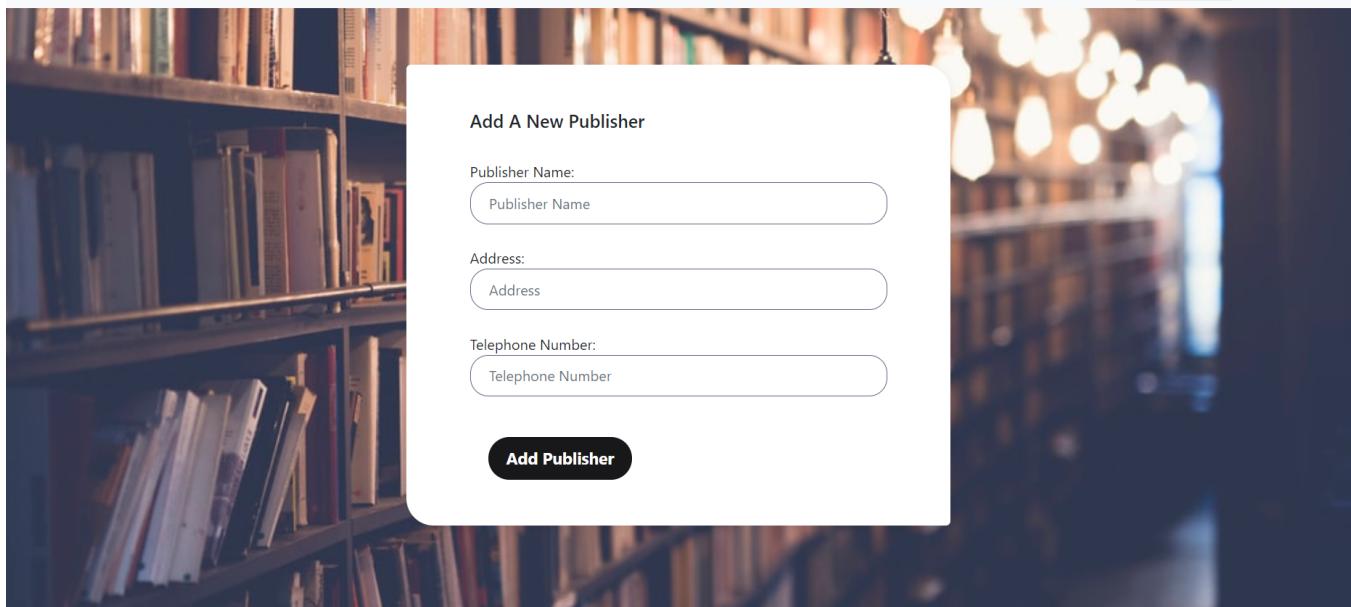
Submit

Make Payment

Add Publisher

Book Store Home Profile Statistics Logout

Cart 0



Add A New Publisher

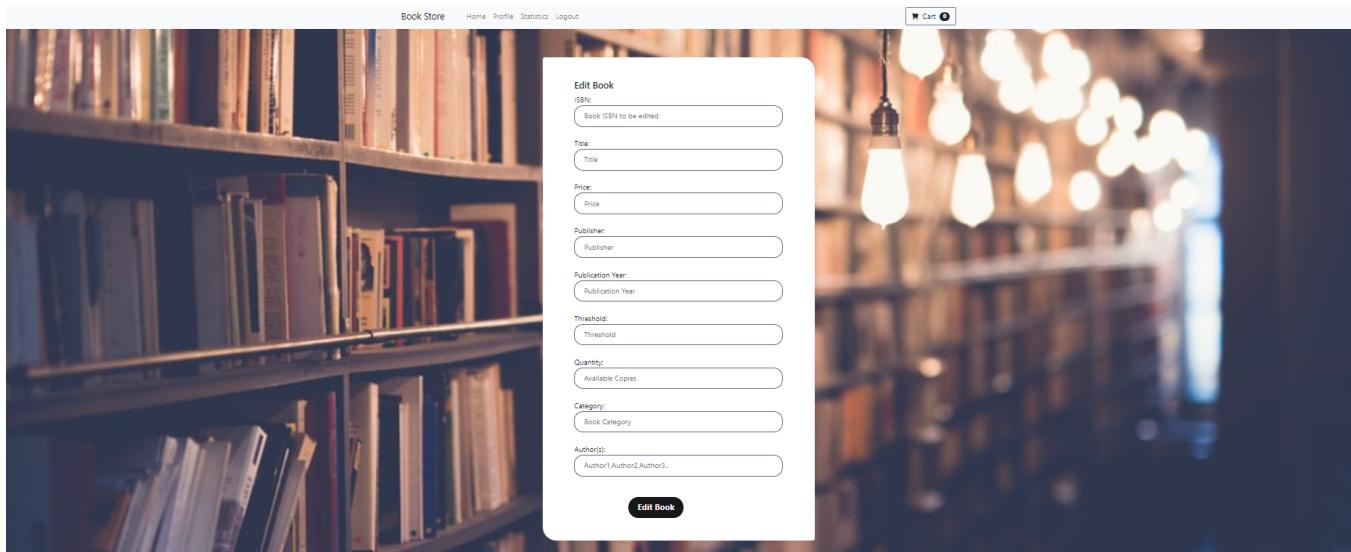
Publisher Name:

Address:

Telephone Number:

Add Publisher

Edit book



Edit Book

ISBN:

Title:

Price:

Publisher:

Publication Year:

Threshold:

Quantity:

Category:

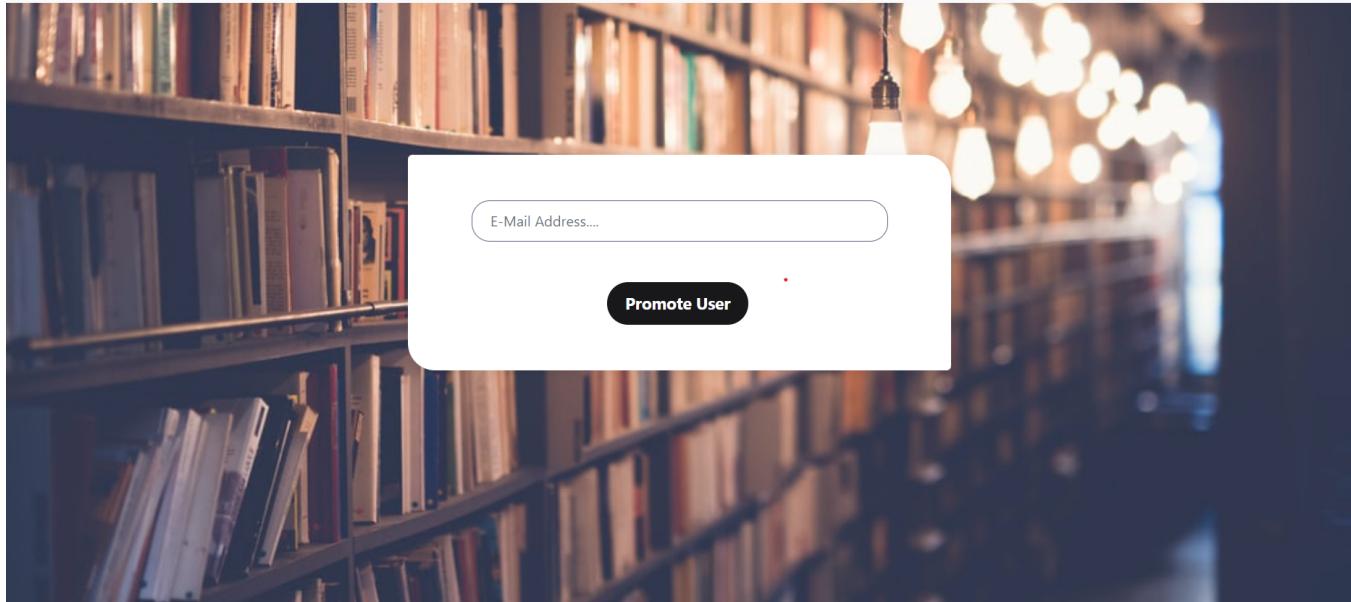
Author(s):

Edit Book

Promote user

Book Store Home Profile Statistics Logout

Cart 0



Confirm orders

Book Store Home Profile Statistics Logout

Cart 0

ISBN	QUANTITY	PUBLISHER NAME	
12396	2	AX	<button>Confirm Order</button>

DDL Scripts & ERD & Procedures

You can find any results or scripts related to this part [here](#)

You can find the whole code on github [here](#)