

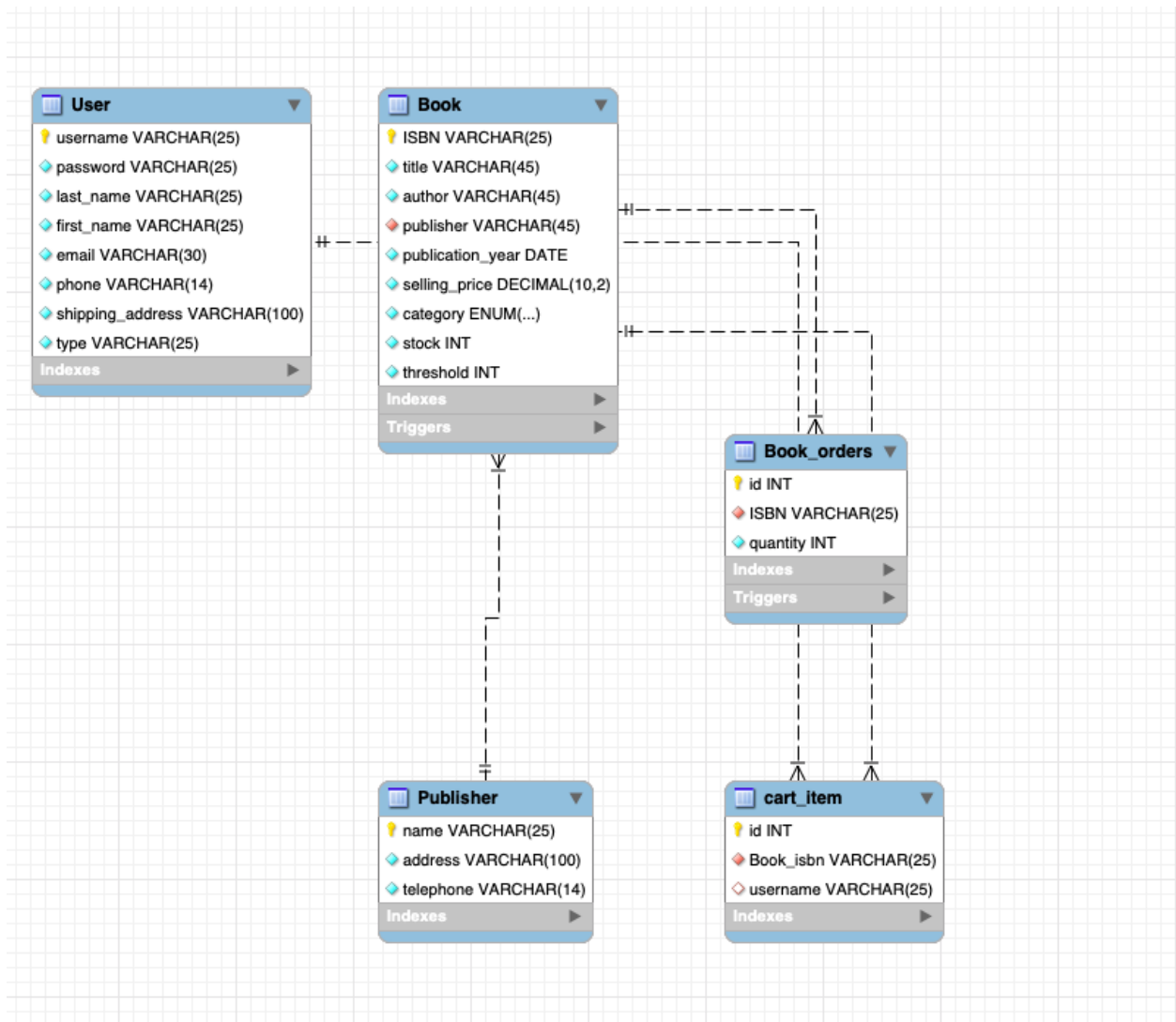
## DB project

### **Team:**

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## ERD diagram:



## Procedures:

- Add\_book
- Modify\_Book: changes in the book stock.
- Dec\_Book: decrementing the book stock when checkout.
- Confirm\_Order: delete the order from orders table.
- Search\_by\_isbn
- Search\_by\_title
- Search\_by\_author
- Search\_by\_publisher
- Search\_by\_category
- Authenticate: verify username and password
- get\_type: to get the suitable user interface
- Insert\_into\_cart
- Remove\_from\_cart
- Empty\_cart: to empty the cart when logout
- retrieve\_cart: to get cart elements when open the application without logging out before.
- update\_user\_info
- insert\_user

## Triggers:

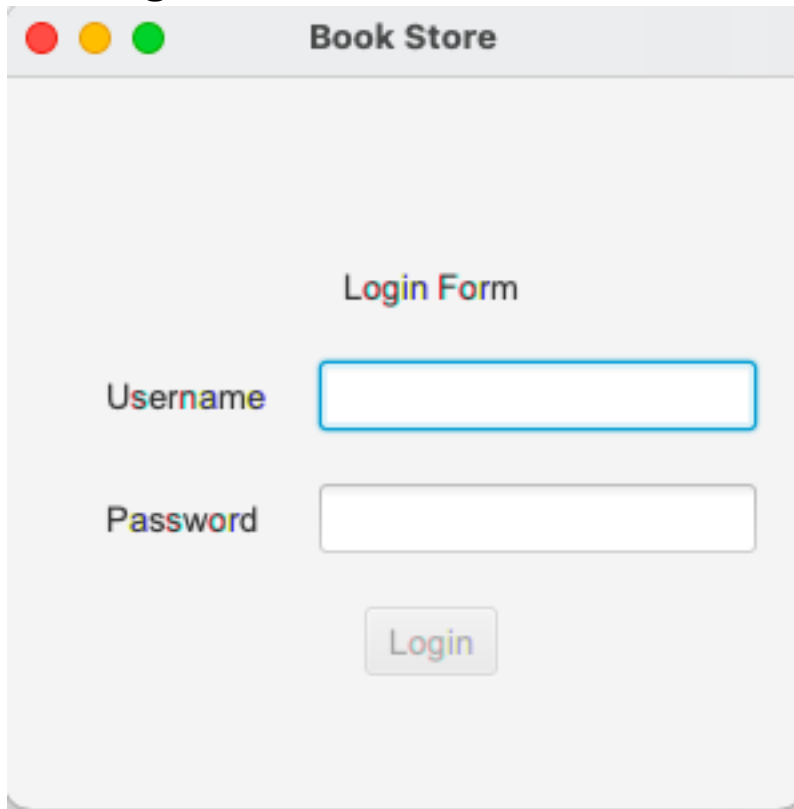
- Book\_BEFORE\_UPDATE: to make sure that the user cannot update the quantity of a book if this update will cause the quantity of a book in stock to be negative.
- Book\_AFTER\_UPDATE: to place order with constant quantity only when the quantity of a book drops from above a given threshold to below the given threshold
- Book\_orders\_BEFORE\_DELETE: to make sure that the quantity of the book in store automatically increases with the quantity specified in the order.

## Indices:

- primary → to index primary keys
- full text indices → to search for strings

## Sample runs for customer user:

- login form:



A screenshot of a macOS-style window titled "Book Store". The window has a light gray title bar with three colored window control buttons (red, yellow, green) on the left. The main content area is white and contains the text "Login Form" centered at the top. Below this, there are two labels: "Username" and "Password", each followed by a white text input field with a thin gray border. The "Username" input field has a blue border. Below the input fields is a gray "Login" button with rounded corners.

- customer form:

The screenshot shows a 'Book Store' application window with three main panels. The 'Profile Info' panel on the left contains input fields for Username (salma), Password (masked with dots), First Name (gad), Last Name (salma), Email (s@s), Phone (012), Shipping Address (dar), and Type (customer), along with 'Update' and 'Log out' buttons. The 'Shopping Cart' panel in the center has a table with columns ISBN, Title, Author, and Price, displaying 'No items in the cart'. Below the table are 'remove from cart', 'Checkout', and 'Total price 0.0' buttons. The 'Books' panel on the right features a 'Book Search' section with a dropdown menu, a search input field, and 'search' and 'clear' buttons. Below this is a table with columns ISBN, Title, Author, and Price, displaying 'No books found', and an 'Add to cart' button at the bottom.

- search for books:

This screenshot is identical to the previous one, but with the 'Book Search' dropdown menu in the 'Books' panel open. The dropdown menu lists the following search criteria: ISBN, Title, Publisher, Author, and Category. The rest of the interface, including the Profile Info, Shopping Cart, and the state of the Books table, remains unchanged.

[illegible]

- add to cart:

Profile Info

Username

salma

Password

\*\*\*\*\*

First Name

salma

Last Name

gad

Email

s@s

Phone

012

Shipping Address

dar

Type

customer

Update

Log out

Shopping Cart

ISBN	Title	Author	Price
16	BLA	AHMED	10.0

remove from cart

Checkout

Total price

10.0

Books

Book Search

ISBN

16

search

clear

ISBN	Title	Author	Price
16	BLA	AHMED	10.0

Add to cart

- open the application without logout before:

The screenshot displays a web application titled "Book Store" with three main panels:

- Profile Info:** A form with fields for Username (salma), Password (masked with dots), First Name (salma), Last Name (gad), Email (s@s), Phone (012), Shipping Address (dar), and Type (customer). An "Update" button is at the bottom. A "Log out" button is located below the form.
- Shopping Cart:** A table with columns: ISBN, Title, Author, and Price. The first row contains the values 16, BLA, AHMED, and 10.0. Below the table are buttons for "remove from cart" and "Checkout", and a "Total price" field showing 10.0.
- Books:** A section titled "Book Search" with a dropdown menu, a search input field, and "search" and "clear" buttons. Below this is a table with columns: ISBN, Title, Author, and Price. The table is empty, displaying the message "No books found". An "Add to cart" button is at the bottom.



- checkout:

The screenshot displays a web application interface. On the left, a 'Shopping Cart' window contains a table with the following data:

ISBN	Title	Author	Price
16	BLA	AHMED	10.0

Below the table, there is a 'remove from cart' button. At the bottom of the cart window, a 'Checkout' button is visible next to a 'Total price' label and a text input field containing '10.0'.

In the center, a modal dialog box is open, titled 'Checkout'. It contains two input fields: 'Credit Card No.' and 'Expiry date (MM-YYYY)'. Below these fields is a 'Checkout' button.

On the right side of the image, a 'Books' window is partially visible, featuring a 'Book Search' section with an 'ISBN' dropdown menu.

		ISBN
		16

Credit Card No.

4946080013113305

Expiry date (MM-YYYY)

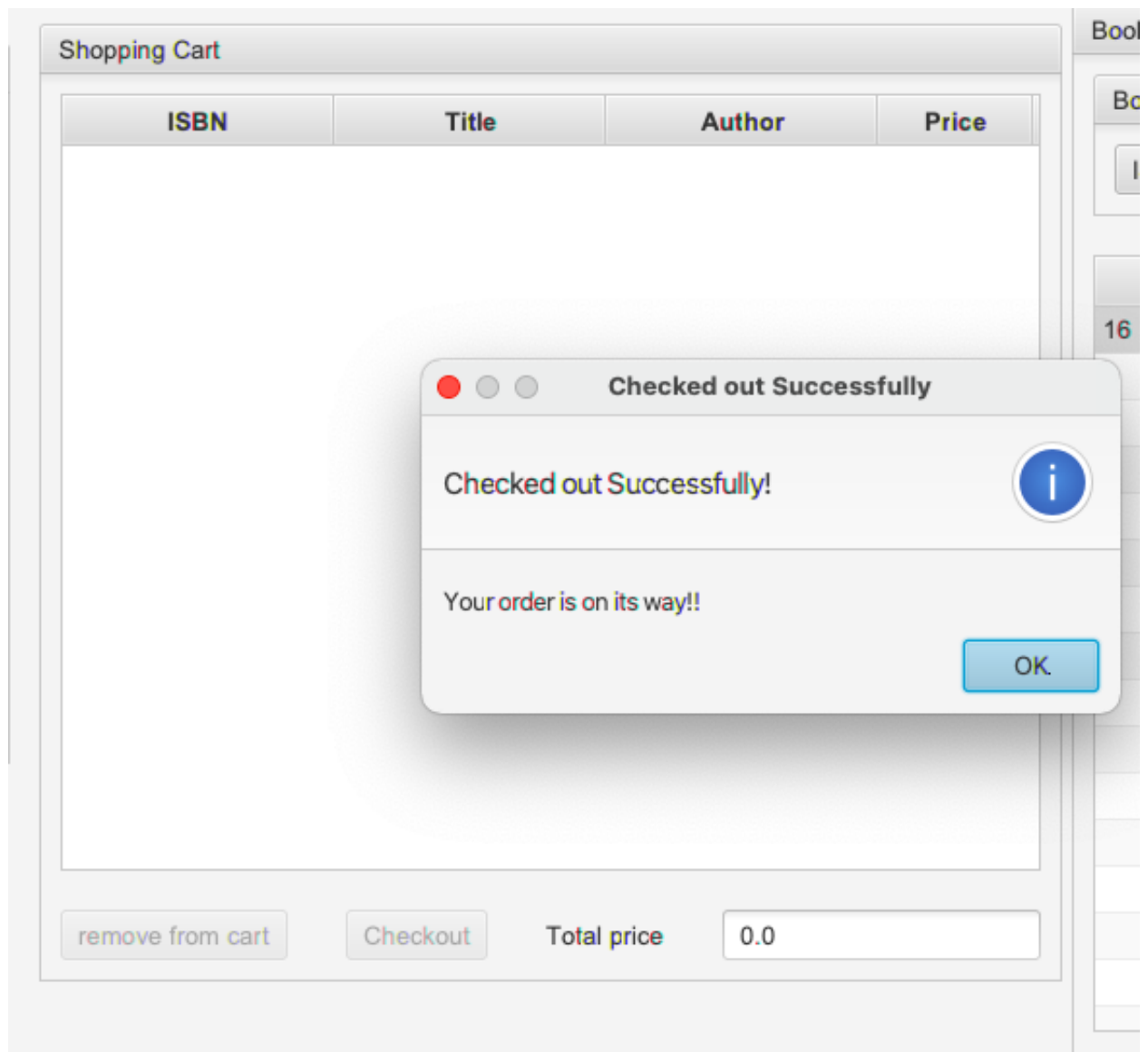
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Checkout

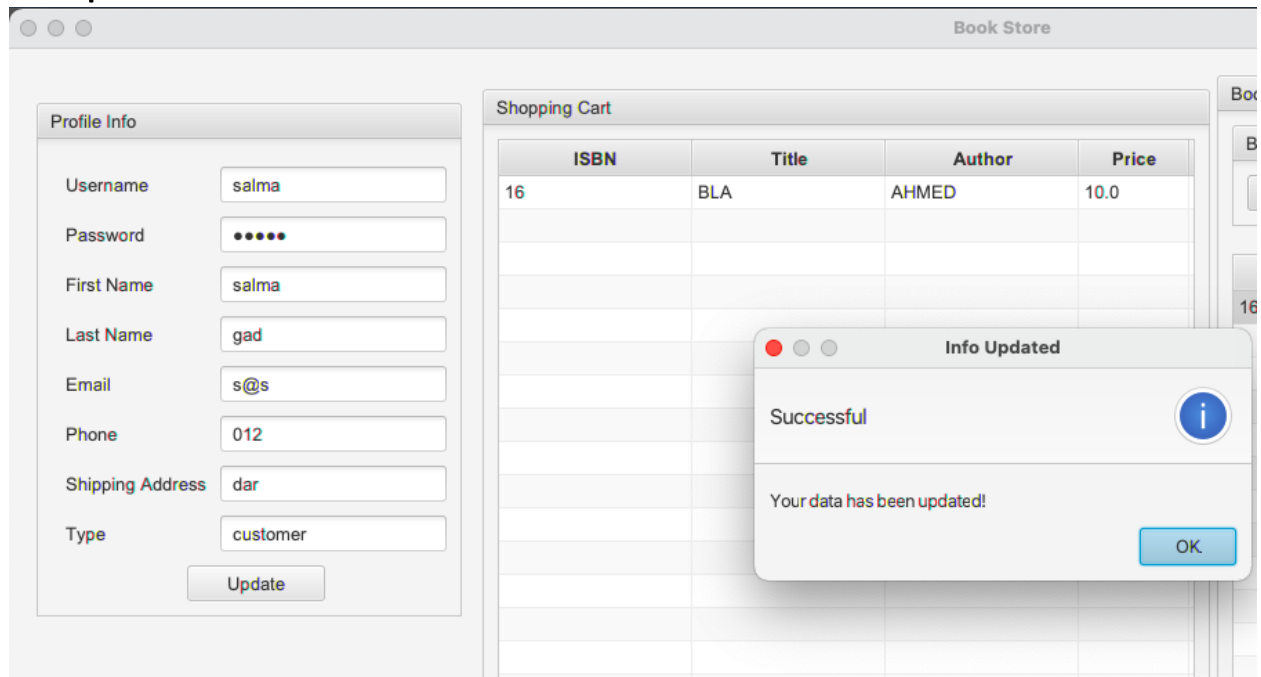
Checkout

Total price

10.0



- update info:



- open the application after logging out:

