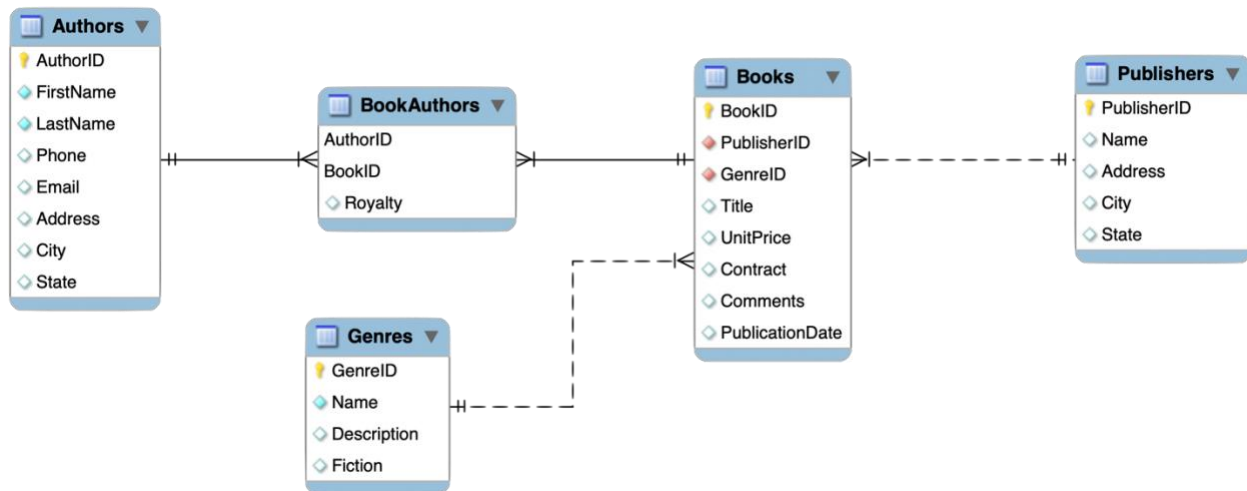


Book Biz, Three-Tier App Homework

In your previous homework you created the conceptual, logical, and physical design of a database for the book publishing industry. In this homework, you will create a three-tier application to create, read, update, and delete (CRUD) data from a simplified book business database – see below.



1. Create input screens for authors, publishers, genres, and books

You need to create the:

- a) Graphical user interface (GUI) in the browser
- b) The code to post to the server
- c) The server route, the code to extract the posted data
- d) The call to the DB and the SQL to insert a new record.

Sample pipeline for adding an author to the authors table.

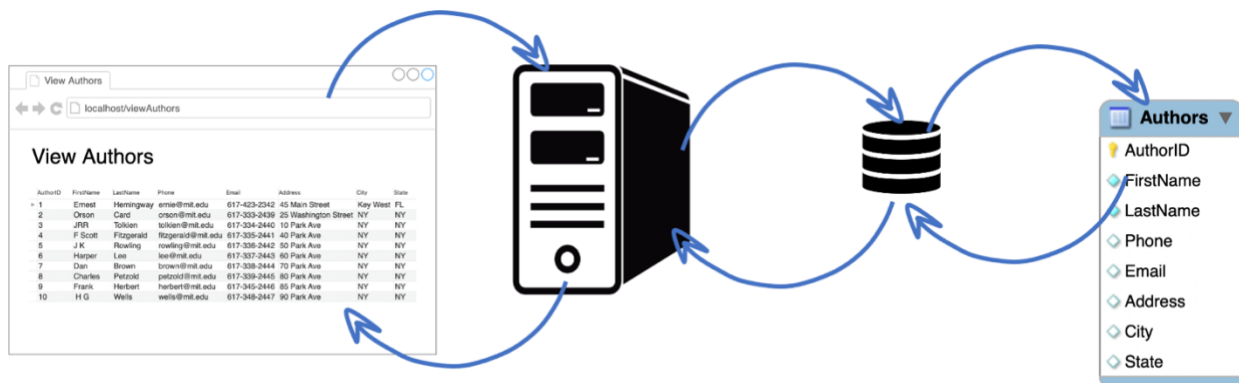


2. Create read screens for authors, publishers, genres, and books.

You need to create the:

- Graphical user interface (GUI) in the browser
- The code to request data from the server
- The server route
- The call to the DB and the SQL to read data.

Sample pipeline to read the data from the authors table.



3. Create update screens for authors, publishers, genres, and books.

You need to create the:

- Graphical user interface (GUI) in the browser, note the icon for edit (pencil)
- The code to send edit data information to the server
- The server route
- The call to the DB and the SQL to update data

Sample screen below.

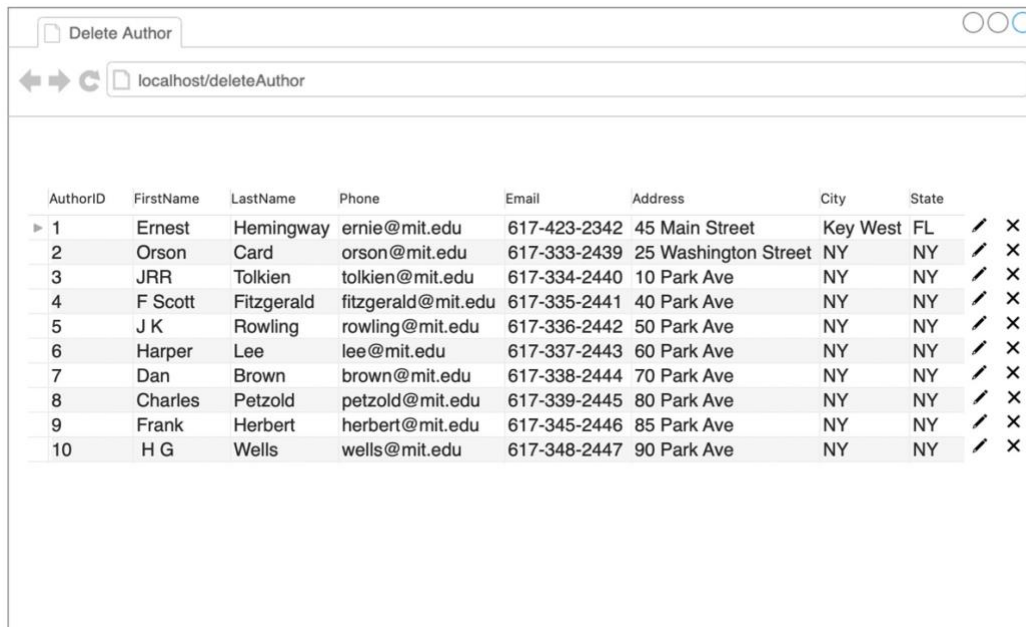
Update Author							
localhost/UpdateAuthor							
AuthorID	FirstName	LastName	Phone	Email	Address	City	State
▶ 1	Ernest	Hemingway	ernie@mit.edu	617-423-2342	45 Main Street	Key West	FL
2	Orson	Card	orson@mit.edu	617-333-2439	25 Washington Street	NY	NY
3	JRRR	Tolkien	tolkien@mit.edu	617-334-2440	10 Park Ave	NY	NY
4	F Scott	Fitzgerald	fitzgerald@mit.edu	617-335-2441	40 Park Ave	NY	NY
5	J K	Rowling	rowling@mit.edu	617-336-2442	50 Park Ave	NY	NY
6	Harper	Lee	lee@mit.edu	617-337-2443	60 Park Ave	NY	NY
7	Dan	Brown	brown@mit.edu	617-338-2444	70 Park Ave	NY	NY
8	Charles	Petzold	petzold@mit.edu	617-339-2445	80 Park Ave	NY	NY
9	Frank	Herbert	herbert@mit.edu	617-345-2446	85 Park Ave	NY	NY
10	H G	Wells	wells@mit.edu	617-348-2447	90 Park Ave	NY	NY

4. Create delete screens for authors, publishers, genres, and books.

You need to create the:

- e) Graphical user interface (GUI) in the browser, note the icon for delete (x)
- f) The code to send delete data information to the server
- g) The server route
- h) The call to the DB and the SQL to delete data

Sample screen below.



The screenshot shows a web browser window with the title 'Delete Author'. The address bar displays 'localhost/deleteAuthor'. The main content area contains a table with 10 rows of author data. Each row has a delete icon (an 'x' in a circle) at the end. The table columns are: AuthorID, FirstName, LastName, Phone, Email, Address, City, and State.

AuthorID	FirstName	LastName	Phone	Email	Address	City	State		
1	Ernest	Hemingway	ernie@mit.edu	617-423-2342	45 Main Street	Key West	FL	✕	✕
2	Orson	Card	orson@mit.edu	617-333-2439	25 Washington Street	NY	NY	✕	✕
3	JRR	Tolkien	tolkien@mit.edu	617-334-2440	10 Park Ave	NY	NY	✕	✕
4	F Scott	Fitzgerald	fitzgerald@mit.edu	617-335-2441	40 Park Ave	NY	NY	✕	✕
5	J K	Rowling	rowling@mit.edu	617-336-2442	50 Park Ave	NY	NY	✕	✕
6	Harper	Lee	lee@mit.edu	617-337-2443	60 Park Ave	NY	NY	✕	✕
7	Dan	Brown	brown@mit.edu	617-338-2444	70 Park Ave	NY	NY	✕	✕
8	Charles	Peterson	peterson@mit.edu	617-339-2445	80 Park Ave	NY	NY	✕	✕
9	Frank	Herbert	herbert@mit.edu	617-345-2446	85 Park Ave	NY	NY	✕	✕
10	H G	Wells	wells@mit.edu	617-348-2447	90 Park Ave	NY	NY	✕	✕

Submission instructions

Create video of your working application – screen recording. Capture a create, read, update, and delete. Post your video to YouTube and submit the link in your code repository below.



Create a GitHub repository with all your code, submit your repo link.

