Project Step 1: Project Proposal and Outline

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Website outline:

Our project is an online bookstore with customers and book databases. The website sequence is mainly from login screen to bookstore for one-user interaction. For example, a user logged in successfully, then the user can search and buy books from the book list. In the end, the user can interact with the shopping cart before purchasing. To populate the bookstore's book list and book search-bar, we will refer Amazon.com to get the book information like ISBN, author, publisher, year, and price.

Database outline:

- User: saves the user information who uses our website.
    - Order_ID: int, unique, not NULL
    - Email: char[255], unique; only one email per user, not NULL
    - Last_name: char[255], not NULL
    - First_name: char[255], not NULL
    - Address: char[255], not NULL
    - Password: int, not NULL
    - Relationship: a 1:M relationship between User and Shopping Cart is implemented with Email to find their orders.
- Shopping Cart: saves the books ordered by the user.
    - Order_ID: int, not NULL, unique
    - ISBN: int, not NULL
    - Count: int
    - Customer_email: char[225], not NULL
    - Total_price: int
    - Relationship: a 1:M relationship between Shopping Cart, Book, and User is implemented with Order_ID, Customer_email, and ISBN to order books for certain users.
- Book: saves the details of the book.
    - Order_ID: int, not NULL, unique
    - ISBN: int, not NULL
    - Author_name: char[225]
    - Title: char[225]

- ○ Price: int
- ○ Publisher_name: char[225]
- ○ Year: int
- ○ Relationship: a M:1 relationship between Book, Shopping Cart, Author, and Publisher is implemented with Author_name, Publisher_name, and ISBN to find the right book.
- ● Author: keeps the information about the author.
  - ○ Name: char[255]
  - ○ Address: char[255]
  - ○ URL: char[255]
  - ○ Relationship: a M:M relationship between Author and Book is implemented with Name to find books under that author.
- ● Publisher: keeps the information about the publisher.
  - ○ Name: char[255]
  - ○ Address: char[255]
  - ○ Contact: char[255]
  - ○ URL: char[255]
  - ○ Relationship: a 1:M relationship between Publisher and Book is implemented with Name to find books under that publisher.

ER diagram:

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Author
- Name: char(255)
- Address: char(255)
- URL: char(255)

User
- Order_ID: int
- Email: char(255)
- Last_name: char(255)
- First_name: char(255)
- Address: char(255)
- password: int

Book
- Order_ID: int
- ISBN: int
- Author_name: char(255)
- Title: char(255)
- Price: int
- Publisher_name: char(255)
- Year: int

Publisher
- Name: char(255)
- Address: char(255)
- Contact: char(255)
- URL: char(255)

Shopping cart
- Order_ID: int
- ISBN: int
- Count: int
- Customer_email: char(255)
- total_price: int