

Project Step 2 Draft Version: ERD & Schema

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Fixes based on Feedback from Step 1:

All char type constraints changed from char(225) to varchar, and using Amazon Scraper to extract information (prices, ranks, reviews, etc.) of books.

Overview

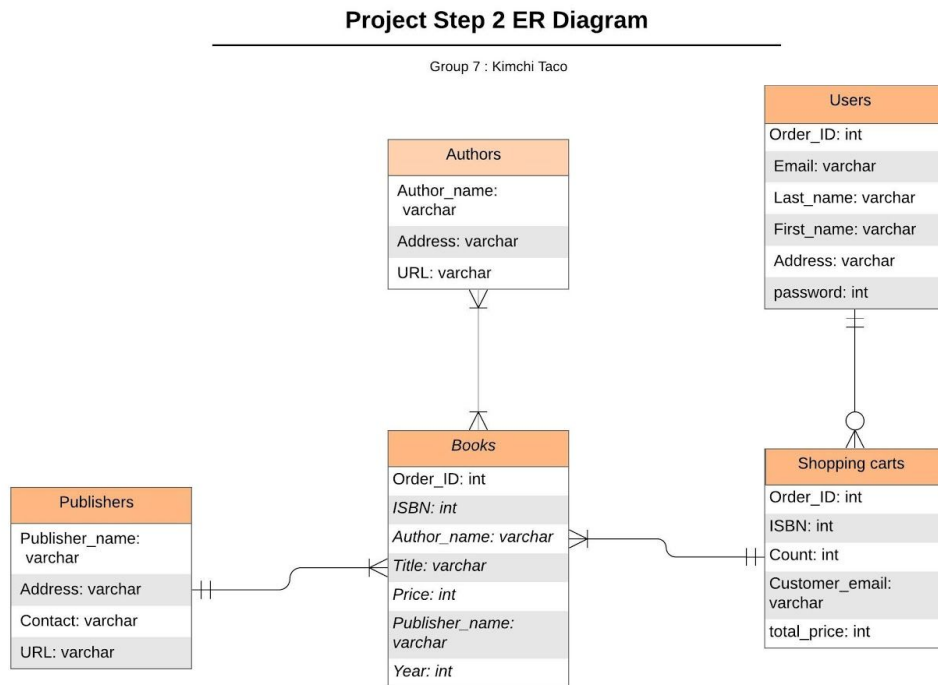
Our project is an online bookstore with customers and book databases from Amazon Books. The website sequence is mainly from login screen to bookstore for one-user interaction. For example, a user logged in successfully, then the user can search and buy books from the book list. In the end, the user can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

Project Outline and Database Outline - Updated Version:

- Users: saves the user information who uses our website.
 - Order_ID: int, unique, not NULL
 - Email: varchar, unique; only one email per user, not NULL
 - Last_name: varchar, not NULL
 - First_name: varchar, not NULL
 - Address: varchar, 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 Carts: saves the books ordered by the user.
 - Order_ID: int, not NULL, unique
 - ISBN: int, not NULL
 - Count: int
 - Customer_email: varchar, 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.
- Books: saves the details of the book.
 - Order_ID: int, not NULL, unique
 - ISBN: int, not NULL
 - Author_name: varchar
 - Title: varchar
 - Price: int
 - Publisher_name: varchar
 - 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.
- Authors: keeps the information about the author.
 - Name: varchar
 - Address: varchar
 - URL: varchar
 - Relationship: a M:M relationship between Author and Book is implemented with Name to find books under that author.
- Publishers: keeps the information about the publisher.
 - Name: varchar
 - Address: varchar
 - Contact: varchar
 - URL: varchar
 - Relationship: a 1:M relationship between Publisher and Book is implemented with Name to find books under that publisher.

Entity-Relationship Diagram:



Schema:

