

Fourth Project: E-Book Bookstore Database:

Consider the following information about an E-Book bookstore database:

- Books (identified by ISBN (International Standard Book Number), with title, type, page-count and price attributes) at E-Book bookstore are recorded.
- Information about publisher (identified by Publisher-Code with name, city and phone attributes)
- The author (identified by Author-ID with first-name and last-name attributes) will also be recorded to make sure that the process of searching for the book is easier.
- One publisher can publish many books
- One book can only be published by one publisher.
- One book can be written by many authors
- One author can write many books.

Requirements:

1. Draw the Entity Relationship (ER) model.
2. Draw the referential constraints schema.
3. Draw UML diagrams with the following criteria:
 - Draw the use case diagram representing all the functions of your system.
 - Draw the UML diagrams (use case scenario, activity, sequence and communication diagrams) for only one function of the system. i.e. insert or update or search for a record.
 - Draw the class diagram of the whole system showing the relationships among the classes, if any.
4. Design a user-friendly interface to access the database you applied
 - Your interface should contain at least buttons, text fields, and frames.
 - You should apply your knowledge of event handling, method overriding and other basic characteristics of OOP.
 - Your user interface should allow the user to insert, update, delete and search for records in the database.