**Class Dig Scenarios**

For the central library of the federal urdu university, a library management system is under construction. The library (which can be described by its name and address). The LMS recognizes all possible book items whether electronic or physical such as books, CD/DVDs, etc (which can be described by ISBN, name, subject, overview, publisher, pubDate and language). These items can be arranged according to the authors. Each book (physical or electronic) is an item and may be traced by (barcode, isbn, subject, etc). There can be multiple authors of the electronic or physical books and their can be multiple books of the same author. Author can be described by (name, biography, DoBirth). A patron/user can have an account (that can be described by name and address). From that account the patron may acquire 0 to 12 books at once or reserve 0 to 3 books at once. The books in the library are enumerated in a catalog. The catalog will have the records of each electronic or physical book. The catalog provides two other supports that are searching and managing. The librarian (described by name, address and position) may assist in these operations.

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The LuckyOne mega mall and residencia wants to develop an online shopping system for the web users. The web users are described by loginid, password etc. These web users represents customers. The customers can be described by ID, address, phone, email etc. The customers may have an account which can be described by ID, billing add, status etc. For each account and web user, a shopping cart exist which is described by the date when it is created. Through the account, a customer may place orders that are described by number, order date, etc. The order and shopping cart to related to each other through a LineItem that is described by quantity and price. The lineitem is related to products that are described by id, name, supplier etc. Payment is connected to the account and order.