Background:

I-Book Inc. operates a business enterprise which provides electronic library services.

Naturally, such an enterprise enlists an automated system which allows readers to execute searches, receive books for reading and publish scans, reviews and feedbacks on previously read books.

Before you is a description about the various activities executed by this system, by which this new system “Good Reading” will be defined.

Books:

Each book catalogued in the library has multiple identifiers and attributes:

* Title.
* Author (one or more).
* Language.
* Summary.
* Table of contents.
* Field (one or more).
* Keywords.

Each requested book in the catalogue may be searched by one data component or more. Additionally, multiple components may be included in the search field (I.E ‘component A’ or ‘ component B’, etc’). Books are provided in the following formats: pdf, doc, fb2 (e-book format).

Usability:

In order to receive books for reading, the user must own an account which allows payment. Payments may be executed for each book separately (in accordance to a named price) or by an arrangement of a monthly or early subscription (by an appropriate rate). After settling the payment plan, the user receives a receipt and is then allowed to receive the books for reading.

Readers review:

Each reader may publish a review about the books he has read. Each new review must be signed by the writer. Each review is reviewed by an authorized editor (to ensure that this mechanism is not abused) and its approval is required before publication. An interested reader may receive a readers review by one of the following fields:

* Title
* Author
* Keyword

Management:

Book inventory is managed by a librarian (Add, Remove and Update). The system will be partitioned into categories and fields into order to assist the user. The librarian can control the data structure of the books in the library catalogue. The librarian defines the partitions and attributes them to the various books. In fact, each book may be attributed to more than one field\category.

Example, the following table: Rice way, renaissance greats.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number | Category | Field | Books | Notes |
| 1 | Instruction books | Culinary and hosting | Lebanese cooking |  |
| Art | Renaissance greats |
| Tourism | North Italy |
| Rice way |
| Uzbekistan |
| 2 | Culture | Music |  |  |
| Plastic art | Renaissance greats |
| National foods | Rice way |
| Who ate my Mufleta |
| Meat, wine, baguette and butter |
| 3 | Science | Philosophy |  |  |
| Anthropology | From Aztecs to Mayans |
|  | Internet culture |
| Rice way |

The librarian can also considered an authorized editor who oversees the reader reviews. The librarian receives an automated message when a new review is submitted by a reader. After which, he may approve the review, reject it or partially approve it (remove part or the review).

Operational Surveillance :

For the purposes of operational surveillance and improved functionality with the clients, the system provides managers periodical reports which present the following components:

* For each user, a list of books he ordered (רשימת ההשמנות של ספרי קריאה שביצע).
* For each book, statistical analysis, number of searches and purchases by date – shown as histogram.
* Each books popularity may be upgraded (by demand) in regards to other books.

The library manager receives these statistical reports which are included in the operational surveillance. Additionally he may perform the librarian work as an inventory manager and a review editor. The manager may temporarily remove a certain book from the catalogue from the reader inventory (without actually removing the book from the library).

User information:

The credentials of each user include a user name and password. Each system use requires the user to identify (using the user name and password) as an approved user.

Each user credential is available in the system. The personal data for each user includes:

* First name.
* Last name.
* Employee number.
* Position.
* Organization affiliation (department\management).

Enrollment and management of employee personal data is operated by a separate management system (which is not part of this system). Additionally, the system administrator may change each personal detail which is affiliated with system usage (which includes, for example, user credentials account freezes because of debt, etc’).

Multiple users may logged in at once to this system, the same user may not be logged in more than one time.