CS157A Team 2
Database Design Documentation
A Book Reading and Review Web Application

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1 Entities

1.1 Users

Users are defined as those who have valid a valid account login for the website. The attributes for Users are as follows:

- type: A user can be of two types, admin or regular. Admins have special prividges

- username: The unique identifier by which a user's information is tracked

1.2 Content

Content come in many forms. There are four subclasses of Content, but it possible that there exist an item that is only classifiable as Content and none of its subclasses.
The attributes for Content are as follows:

- id: The unique content identifier

- title: The name/title of the content

- date: The date the content was published, if available

1.3 Books

Books are a special case of Content. They have special attributes which sets them appart; however, books inherit the primary key from content. In addition, books have the following attributes.

- ISBN: the ISBN of the book

- publisher: the publisher of the book

- author: The author of the book

- genre: the genre of the book

1.4 Magazines

Magazines are a special case of Content. They have special attributes which sets them appart; however, magazines inherit the primary key from content. In addition, magazines have the following attributes.

- issueNum: the issue number of the magazine.

1.5 Newspapers

Newspapers are a special case of Content. They have special attributes which sets them appart; however, Newspapers inherit the primary key from content. In addition, magazines have the following attributes.

- location: the locality of a Newspaper, if available.

- publication: the name of the newspaper publication

1.6 Articles

Articles are standalone pieces of writting which may, in some cases, be signigificant enough to publish on the web application as it's own piece of media. Articles inhert the primary key from Content but have additional relationships, as described in the relationships section. Atricles also have the following additional attributes:

- author: the author of the article

1.7 Reviews

Reviews are the way by which users rate their satisfaction with a particualr piece of content. Reviews consist of the following attributes.

- rating: the rating given (out of 5)

- comment: the comment left in addition to the rating (optional)

2 Relationships

2.1 User Writes Reviews

2.2 Review Written for Content

2.3 User Favorites Content

2.4 User Reads Book

2.5 Article is in Newspaper

2.6 Article is in Magazine