Software Requirements Specification

for

Open Book Store

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Introduction

The Software Requirements Specification is designed to document and describe the agreement between the customer and the developer regarding the specification of the software product requested. Its primary purpose is to provide a clear and descriptive“ statement of user requirements” that can be used as a reference in the further development of the software system. This Software Requirements Specification aims to describe the Functionality, External Interfaces, Attributes and Design Constraints imposed on Implementation of the software system described throughout the rest of the document. Throughout the description of the software system, the language and terminology used should unambiguous and consistent throughout the document.

Intended Audience and Reading Suggestions

The intended audience is college students, faculties and all those who are interested in book reading.
Reading suggestions will be based on their interest observed in past choices.

References

We have taken a design reference from an online book store Website.
Link: https://www.shopbookshop.com/

Scope

The software system being produced is called Open Book Store. It is being produced for the users interested in reading books available online. This system is largely cross-platform and is available to anyone using computers, laptops or internet oriented devices. The system will be running on a central server with each user having a remote user interface through a web browser to interact with it.

Information Description

Product Perspective

Open Book Store is an online book portal that supports a number of functions for both the consumer and developers management. As stated by the customer, there are no hardware or software requirements beyond these including, but not limited to, memory or specific software packages that need to be utilized nor software packages that need not be utilized. It can be accessed on internet explorer or Mozilla Firefox or Chrome.

Product Functions

1) A Home page with product catalog

This is the page where the user will be navigated after a successful login. It will display all the book categories and will have a search keyword option to search for the required book. It

also includes some special sections like recommended titles, weekly special books.

2) Search

A search by keyword option is provided to the user using a textbox. The keyword to be
entered should be the book title, book author or publisher.

3) Book Description

If the user would like to know details about a book he can click on the title from where he
will be directed to a Book description page. It includes the brief on the book content and
also a link to Amazon.com to get the book review.

4) User Rating

The user can give a rating to a book based on his interest. He can rate it by giving a score of five as Excellent, four for very good, three for good, two for regular and one for deficient. The final rating of a book will depend on all the individual user ratings.

5) Managing user accounts

Each user should have an account to access all the functionalities of the website. Users can log in using the login page and logout using the logout page. All the user sessions will be saved in the database.

6) Uploading Books

The user after a successful login will be having access to upload a book with all its details. In order to increase the variety of books available on our website

7) Administration

The Administrator will be provided with special functionalities like
• Add or delete a book details
• Give or Remove access to a user
• Manage details of the website

User Classes and Characteristics

Open Book Store does not require any specific computer knowledge to use it except the developers and administrators of it. Standard users are thought to be of any age, any gender and from any nationality who can use just a computer browser. On the other hand, the administrator and potential developers need a higher level of expertise to understand this site.

Operating Environment

Software interface

- Client on internet
- Web Browser, Windows
- Web Server
- Database Server
- NoSQL server
- Development end
- Visual studio 2019

Design and Implementation Constraints

The information of all the users must be stored in a database that is accessible by the administrator.
Online book readers with an email notification system are connected to the computer and are running all 24 hours a day.
The users can access online books with an email notification system from any computer that has internet browsing capabilities and internet connection.

Assumptions and Dependencies

Client: We have assumed that all of the computer systems are in proper working condition and that the user capable of operating these systems basic functions including but not limited to being to power on the system, login and open either on Chrome or Firefox

and navigate the browser to the address of this Open Book Store website.

Provider: We have assumed that the Open Book Store website will be running on a properly working website and database system with an internet connection that allows this system to perform all communication with clients.

Assumptions

- There is no need to be able to read more than a single copy of the book (or any item) at one go.
- The manager accounts for user-name and password may be hardcoded.
- The manager cannot be a customer.
- Any user can edit their account details.

E-R Diagram

The Entity-Relationship (ER) diagram (also known as ERD's or ER models) is a classical and popular conceptual data model originally proposed by Peter in 1976. It is a visual representation of different entities within a system and how they relate to each other. Entity Relationship Diagrams are widely used to design relational databases. The entities in the ER schema become tables, attributes, and the converted database schema. Since they can be used to visualize database tables and their relationships it's commonly used for database troubleshooting as well.

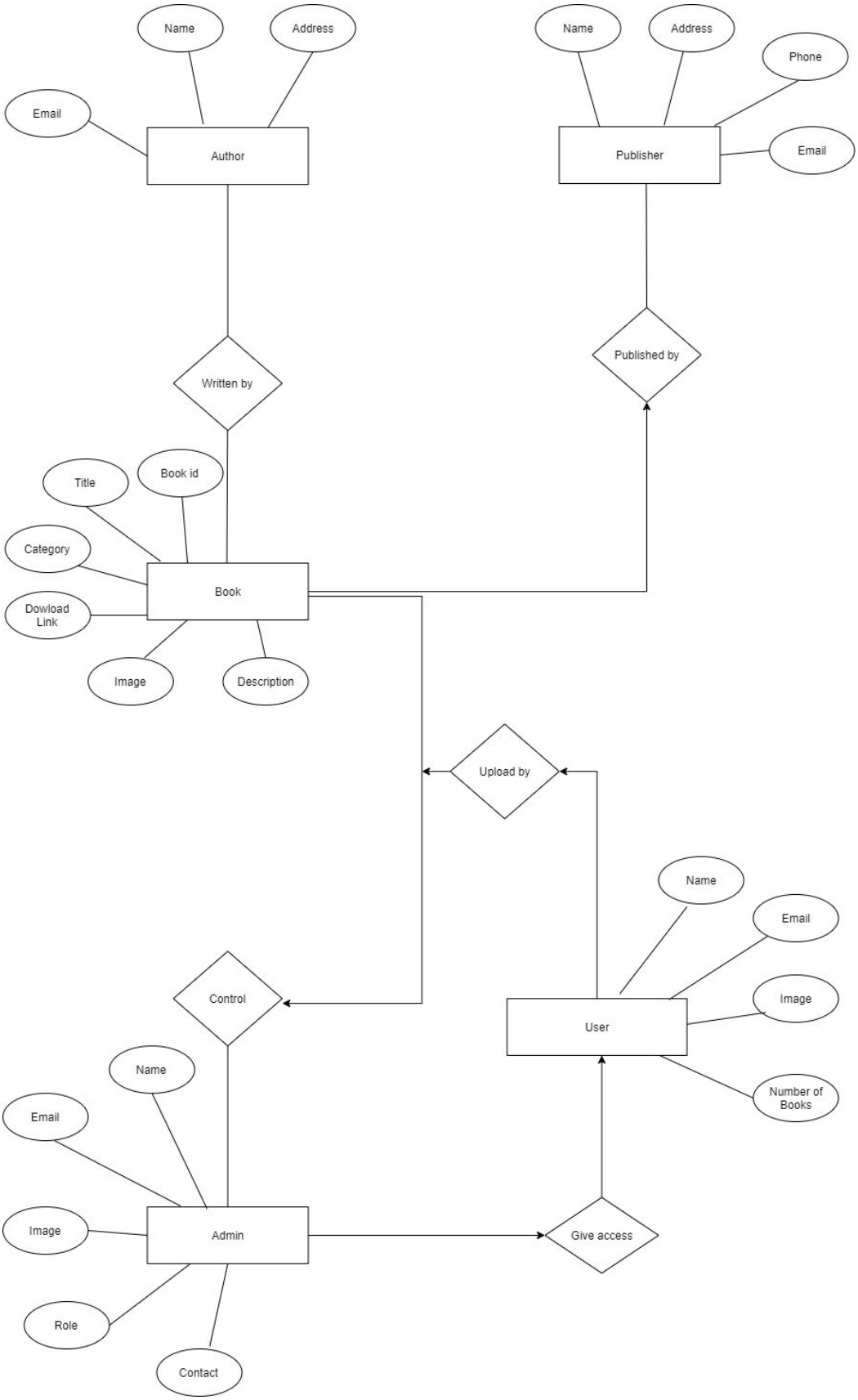

Fig. ER Diagram