Software Requirements Specification Template

Bright Light

Software Requirements Specification

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Submitted in partial fulfilment.

Of the requirements of

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# Revision History

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# Document Approval

The following Software Requirements Specification has been accepted and approved by the following:

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| **Signature** | **Printed Name** | **Title** | **Date** |
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1. **Introduction**
   1. **Purpose**

The goal of the Bright Light Books app is to give users a simple method to browse and buy books, manage their account information, and monitor news and events at the shop. Customers' purchasing histories and browsing habits should allow the app to suggest books and other media to them. Customers should be able to access details about Bright Light Books stores, including store hours and locations, upcoming events, and special offers, through the app. Customers should be able to contact the app's customer support team via a chatbot or help center if they have any queries or concerns.

* 1. **Scope**

Bright Light Books would depend on its business plan and the level of competition in the book retail sector. Bright Light Books might continue to broaden its horizons and attract more clients in the future by maintaining its commitment to its basic values of offering premium books and media, individualized service, and a pleasant environment.

1. **General Description**
   1. **Product Perspective**

Bright Light Books displays its products in an orderly and visually appealing manner, with things grouped by genre and category and placed on shelves and tables in a welcoming environment.

Bright Light Books takes pleasure in providing top-notch goods that are kept up and in good shape. Used books and other media are thoroughly examined and rated in accordance with their condition to guarantee that clients obtain goods that live up to their expectations.

* 1. **User Characteristics**

Bright Light Books' user characteristics reflect its dedication to catering to a variety of clients with various interests and demands. Bright Light Books aspires to offer a warm and friendly environment for everyone, whether they are searching for a specific book, a present for a friend or family member, or simply a place to unwind and explore the world of books and media.

* Book enthusiasts
* Bargain shoppers
* Gift buyers
* Students and educators
* Families and children

1. **Specific Requirements**
   1. **External Interface Requirements**

External interface requirements refer to the ways in which Bright Light Books interacts with external systems, devices, and stakeholders. The following are some instances of external interface specifications for Bright Light Books:

* + 1. **User Interfaces**
* Login Module
* Search Results
* Add Cart
* Delete Cart
* Billing Address
* Payment Module
* Logout Module
  + 1. **Hardware Interfaces**
* Mobile Operating System
* Android 5.0 and newer
* Android SDK 33
* Gradle version: 7.4
* Min SDK: 21
  + 1. **Software Interfaces**
* Android Studio
  + 1. **Communications Interface**
* Email communication
* Phone communication
* Online communication
* In-store communication
  1. **Functional Requirements (Client and Admin)**

Client

* Easy-to-navigate store layout.
* Easy Browsing and Search
* Wide selection of products
* Competitive pricing
* Convenient payment options
* Comfortable shopping environment
* Easy online ordering
* Order Processing and Tracking
* Special Orders and Requests
* Customer Service and Support

Admin

* Books Management
* Sales Tracking and Reporting
* Ability to Login into the application.
* Staff Management
* Order Management
* Security and Compliance
* Privilege of approving returns and replacements
* Tracking the orders and its status
  1. **Use Cases**

the Bright Light Books project. However, I can provide some examples of potential use cases that could be included in the project:

* Search for books
* Vie w book details.
* Add to cart.
* Checkout
* Manage inventory.
* Manage orders.
* Manage promotions.
* Track Sales Data.
* Sell Book.
* Purchase Book.
  1. **Class/Objects**

This class would represent a single book, with attributes such as title, author, publisher, publication date, genre, and price. Objects of this class could be used to manage the inventory of books in the store or on the website.

* 1. **Non-Functional Requirements**

Bright Light Books project sometimes referred to as quality or performance requirements, and they often relate to system characteristics such as

usability, scalability, reliability, security, and performance.

* + 1. **Performance**

When users ask the system to load search results, provide product details, or complete checkout transactions, the system ought to be able to do so swiftly. The unit of measurement for response times should be seconds or milliseconds, and they should be constant across all devices and network connections.

* Response Time
* Concurrent Users
* Availability
* Scalability
* Data Processing
* Security
  + 1. **Reliability**

Any software project, including Bright Light Books, must consider reliability. The capacity of the system to carry out its intended function repeatedly and precisely over time is referred to as reliability. Reliability in the context of an online bookstore like Bright Light Books might encompass the following elements:

* System uptime
* Error handling
* Transaction accuracy
* App monitoring
* Data integrity
  + 1. **Availability**

Any software project, including Bright Light Books, must meet the non-functional criteria of availability. When a system is available, it means that it is working and accessible to users for a given proportion of the time. Because customers rely on the system to explore and buy books at an online bookstore like Bright Light Books, any downtime or system faults could result in lost sales and disgruntled customers. Availability is therefore crucial.

* + 1. **Security**

Any software project, including Bright Light Books, must include security. Security is the steps taken to guard against unauthorized use, access, modification, and destruction of the system and its data. Security is crucial in the context of an online bookshop like Bright Light Books because the system handles private user data including names, addresses, and payment information.

* Authentication and authorization
  + 1. **Portability**

A non-functional need known as portability describes a software system's ease of movement or adaptation to other hardware or software settings, such as Bright Light Books. In other words, a portable system can operate unchanged on many hardware architectures, platforms, and operating systems.

* 1. **Inverse Requirements**

Bright Light Books project, some examples of inverse requirements might include:

* The system should not allow users to access or modify other users' account information without proper authorization.
* The system should not allow users to upload or share illegal or inappropriate content.
* The system should not allow users to purchase items that are out of stock or no longer available.
* The system should not allow unauthorized access to its data or code.
  1. **Design Constraints**

These constraints can impact the functionality, performance, or usability of the system, and must be considered during the design process. In the context of the Bright Light Books project, some examples of design constraints might include:

* Technical constraints
* Environmental constraints
* Organizational constraints
* Legal and regulatory constraints
  1. **Logical Database Requirements**

The design and organizational requirements for the database that powers the Bright Light Books system are referred to as logical database requirements. These criteria must be carefully defined to meet both the functional and non-functional requirements of the system because they are essential to ensure that the system can properly store, handle, and retrieve data.

* 1. **Other Requirements**

Other needs are any criteria that are not already included in the functional and non-functional requirements for the Bright Light Books system. The user experience, documentation, or other elements of the system that are crucial to its success may be the subject of these requirements.

* Usability
* Accessibility
* Documentation
* Localization
* Compatibility