Bookstore Inventory System

Requirements Specifications

# Introduction

## Purpose

The purpose of this document is to define the requirements for the Book Inventory System (BIS) project. This project will demonstrate the basics of the Software Development Lifecycle in the context of a bookstore inventory management application. It will incorporate a list of functional requirements and a small number of use cases for this version of the project.

## Intended Audience

The intended audience of this document is the sole project developer and tester, David Wilson.

## Intended Use

The intended use of this document is to write specifications for and define use cases of the proposed book inventory system.

## Product Scope

The product will enable management of inventory and sales for a small bookstore with a single location. Its initial version will permit viewing, adding, and removing inventory; searching inventory for specific ISBNs, titles, and authors; setting store prices for inventory; making and tracking sales; and tracking members of the store’s loyalty program. This product supports only physical inventory, as opposed to e-books. It also assumes all sales are made in person at the store’s single, physical location.

## Definitions and Acronyms

The following is a list of acronyms and definitions expected to be used as part of this product, broken down by the type of record they are used to describe within the system. Many of these terms also refer to datapoints that make up a specific type of record.

### Book Records

* **Author**: The writer of a given book. Some books have multiple authors. In these cases, authors will be listed alphabetically, with the first author given as the primary author.
* **Cover Price**: The value established for the book by its publisher, so-called because it is typically listed somewhere on the book’s cover or, in the case of hardcover, inside the book’s dust jacket.
* **Edition**: A single version of a given book with similar typesetting, cover art, and contents, usually generated from the same print run or a reprinting of a specific, prior print run. They are usually identified by number starting at “1” or as “first edition,” “second edition,” etc.
* **Format**: The nature of the book’s physical binding and materials given as either “paperback” or “hardcover.”
* **International Standard Book Number (ISBN)**: A unique identifying number assigned to a specific edition and format of a given book. This is the primary identifier for a book record.
* **Stock**: The number of copies of books matching a given ISBN that the store has in stock.
* **Store Price**: The value at which the book is sold inside the store.
* **Title**: The name given to a book by its author and shared by all editions of that book. If certain editions include a subtitle exclusive to that edition, it will not be considered part of the book’s title for the purposes of this system.

### Order Records

* **Contents**: A list of books sold in a given order. The content of an order is organized by ISBN. Each item is also associated with a quantity and a price per item based on the store price of the book at the time of the sale.
* **Employee ID**: The identifying number of the employee who made the sale.
* **Member ID**: The identifying number of the customer purchasing the books in the sale, assuming they are a member of the store’s loyalty program. If the customer is not a member, this value is set to “0.”
* **Order Number**: A unique identifier assigned to a specific order.
* **Order**: Refers to a transaction in which the store sells a book to a customer. Each order record will

### Membership Records

* **Member Lifetime Purchases**: Grand total of all sales associated with this member.
* **Member Number**: A unique identifier assigned to a specific member, starting from 1.
* **Member**: Customers may become members of the store’s loyalty program to receive newsletters and special offers. In exchange, the store is able to obtain more information about individual book sales for the purposes of analytics. An order may contain multiple books, but it can be associated with only one member. Each record will include the member’s contact information, including personal name or business name, mailing address, phone number, and email address.
* **Order History**: A list of sales the member has made with their account, arranged by sale number.
* **Order Value**: The dollar value in sales the member has made at the store based on their Order History.

### Employee Records

* **Employee Number**: A unique identifier assigned to a specific employee, starting from 1.
* **Hire Date**: The date on which the employee began working at this store.
* **Overall Sales**: The dollar value in sales the employee has brought in for the store based on their Sales History.
* **Sales History**: A list of sales the employee has made, arranged by sale number.
* **Termination Date**: The date on which the employee ceased to work at this store.
* **Employee**: A member of store personnel responsible for making sales. Each employee record includes that employee’s name, mailing address, phone number, and email address.

# Overall Description

This project will create a new inventory and sales management program to assist independent, single location bookstores in tracking their stock, sales, and customers. It will enable the store to search for specific stock by ISBN, title, or author; make and track sales; and track the sales figures of individual employees and loyalty program members.

## User Needs

## Assumptions and Dependencies