Personal Library Inventory Application Business Requirements

Revision 0.1

December 20, 2018

Paul Chernick

**Approvers**

|  |  |  |
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**Change History**

|  |  |  |  |
| --- | --- | --- | --- |
| **Revision** | **Date** | **Description / Comments** | **Approved / Draft** |
| 0.0 | 12/20/2018 | Created Document. Added initial list of high level requirements. Formatted use case section. Use cases are not complete and the details are all wrong. This version is primarily boiler plate. | Draft |
| 0.1 |  |  |  |

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A table of images can be placed here if necessary.

# Introduction

## Abstract

This is a tool / application that is primarily for my personal use, although others may find it useful. I have a personal library that contains more than two thousand books in multiple genres. I don’t know how many books I have, how many books of a particular genre or how many books by a particular author. I have purchased the same book multiple times because I didn’t realize I already had it in my library. I found I need an inventory of my books that can be queried as needed.

This document details the high level or business requirements for the Personal Library Inventory Application. System and functional requirement specifications are in other documents.

## References

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Author** | **Title** | **Location in SharePoint or on Web** |
| 1 | ISBN International Agency | What is an ISBN | https://www.isbn-international.org/content/what-isbn |
| 2 |  |  |  |

## Glossary

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Author |  |
| Book |  |
| Category |  |
| Condition |  |
| Copyright |  |
| Edition |  |
| Estimated Value |  |
| Format |  |
| Genre |  |
| ISBN | An ISBN is an International Standard Book Number. ISBNs were 10 digits in length up to the end of December 2006, but since 1 January 2007 they now always consist of 13 digits. ISBNs are calculated using a specific mathematical formula and include a check digit to validate the number. |
| Ownership |  |
| Printing |  |
| Publisher |  |
| Series |  |
| Status |  |
| Wish List |  |

## Open Issues

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Description** | **Status** | **Contact** |
| 1 | There is only one developer / contributor. This may lead to an extended development time. | Open | Paul Chernick |
| 2 | Requirements have not been fully specified. | Open | Paul Chernick |
| 3 | This application duplicates some efforts by GoodReads.com and Amazon.com. Are there any legal issues? | Open | Paul Chernick |

## Compatibility

This application should remain compatible with both Windows Store and Apple Store requirements so that it may be sold in the future. There is no previous version of the application so there is no requirement for backwards compatibility.

## Business Drivers

* Reduce library expenses by eliminating duplicate purchases of books.
* Make shopping of books in brick and mortar books stores easier and more effective.
* Reduce work involved in maintaining the library.

## Acknowledgements

At this time there are no other contributors to the project.

# Overall Description

Put a description of what the company does here.

## Product Context

Explain how the work being done will fit in with the customers processes.

## System Context

Put system context here. This should list all software to be integrated with.

## Assumptions and Dependencies

* This application must be user friendly and easy to use.
* A relation database will be used to implement the underlying data implementations.
* The database must be accessible from the web or from mobile devices.

# Use Cases

## Add Author

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Add Author Series

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Add Book

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Buy Book

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Rate Book

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Find Book

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Find Author

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Put Book Up for Sale

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

## Sell Book

Generate Weekly Inventory Report - this use case is to be used as the basis of all use cases.

Actors:

* Purchasing Manager

Goal:

Purchasing and management have a clear view of what products are on hand to fill customer orders.

Preconditions:

PRE1. All necessary data from the StarShip Database has been transferred to the Microsoft Dynamics GP database.

Basic Flow:

B1. The purchasing manager opens web browser.

Post Conditions:

POST1. The weekly inventory report is available to the purchasing manager and upper management.

# Requirements

1 Maintain a Count of the Number of Books in the Library

|  |  |
| --- | --- |
| **Priority** | Normal |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

2 Maintain a Catalog of All Books in the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

3 Display the Catalog of All Books in the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

4 Display the Catalog of All Books in a Particular Genre

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

5 Add a Book to the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

6 Buy a Book

|  |  |
| --- | --- |
| **Priority** | Normal |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

7 Sell a Book

|  |  |
| --- | --- |
| **Priority** | Normal |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

8 Maintain a Count of the Authors Who’s Books are in the Library

|  |  |
| --- | --- |
| **Priority** | Normal |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

9 Maintain a Catalog of All Authors in the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

10 Display the Catalog of All Authors in the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

11 Add an Author to the Catalog

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

12 Maintain a Catalog of Collections or Series by each Author in the Library

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

XXXXXXReq1 Level 1 Requirement

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Approved |
| **Phase** | 1 |

Detail the first requirement in the proper language to define requirements.

XXXXXXReq1.1 Level 2 Requirement

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first sub requirement of the first requirement in the proper language to define requirements.

XXXXXXReq1.1.1 Level 3 Requirement

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first sub requirement of the first sub requirement of the first requirement in the proper language to define requirements.

XXXXXXReq1.1.1 Level 4 Requirement

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first sub requirement of the first sub requirement of the first requirement in the proper language to define requirements.

XXXXXXReq1.1.1 Level 5 Requirement

|  |  |
| --- | --- |
| **Priority** | High |
| **Status** | Proposed |
| **Phase** | 1 |

Detail the first sub requirement of the first sub requirement of the first requirement in the proper language to define requirements.

# Traceability

## Complying Requirements

|  |  |
| --- | --- |
| **Defining Requirements** | **Complying Requirements** |
| **No Defining Requirements** | **No Complying Requirements** |
| **No Defining Requirements** | **No Complying Requirements** |