# ENTWA - Cricket Bookshop - Requirements Specification - Adam Thornton UP2018447

## Contents

## 1  Introduction

### 1.1 Aim

To develop a new system that provides online shopping for a specialist cricket bookshop. The system holds data on books that are for sale and on its users. The system allows customers to register in the system, search for books in the system, and add books they want to the shopping basket, which becomes an order at the checkout. Although not all users are registered customers, only registered customers can complete orders. The system must allow registered customers to see previous orders, search through previous orders, and cancel previous orders.

### 1.2 Key personnel

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|---|---|
| Responsible owner | Adam Thornton |

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|---|---|
| Design authority | Adam Thornton |
| Development team | Adam Thornton |

### 1.3 Future proofing

This system can be adapted for use in other online shopping systems in the future, not necessarily just for bookshops.

### 1.4 Rationale for development

This new system will be developed using Apache NetBeans, Java EE and Glassfish servers, this will make it compatible with any computer capable of running the internet and a Java Virtual Machine.

### 1.5 Interactions and dependencies

Data stored on books will be entered manually at first, however, may be outsourced from other servers in the future. Data on users will be entered by themselves when they register. The system won't verify payment information or any other form of sensitive information. All sensitive information stored in the system is subject to GDPR and as such, it is crucial that sensitive information is protected.

### 1.6 Timetable

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|---|---|
| Alpha version of the web application (demonstrating some subset of the functionality) | Monday 27th March 2023 |
| Demonstrable web application. Completed documentation. Source code listings and Javadocs | Monday 8th May 2023 |
| Peer assessment | Tuesday 9th May 2023 |

## 2 Data requirements

| Requirements | Sub requirements | Priority Level | Status |
|---|---|---|---|
| The system must be capable of holding the following book data: | A.  Book title | 1 | Complete |
|  | B.  The list of the name(s) of the author(s) | 1 | Complete |
|  | C.  The name of the book's publisher | 1 | Complete |
|  | D.  The book's edition | 1 | Complete |
|  | E.  The book's year of publication | 1 | Complete |
|  | F.  The book's sales prices | 1 | Complete |
| The system must be capable of storing customer delivery address information |  | 1 | Complete |
| The system must be capable of storing customer payment method information |  | 1 | Complete |

| Requirements | Sub requirements | Priority level | Status |
|---|---|---|---|
| The system must be capable of | Their real name (given name and family name) | 1 | Complete |

| storing the following data on customers: | Their email address | 1 | Complete |
| --- | --- | --- | --- |
| | Their last-used delivery address | 2 | Complete (through previous orders) |
| | Their last-used payment information (e.g. credit card details) | 2 | Complete (through previous orders) |
| | The timestamp when they last logged in to the system | 3 | Not implemented |
| The system must be able to store the following user roles: | Not-yet-registered customer | 3 | Complete (a not yet registered customer is logged out) |
| | Registered customer | 1 | Complete |
| | System administrator | 1 | Complete |
| The system must be able to store a system administrator's email address and password | | 1 | Complete |

## 3 Registered Customers

| Requirements | Priority level | Status |
| --- | --- | --- |
| Only registered customers can complete orders. | 1 | Complete |
| Registered customers should be able to see all their own previous orders (most recent first) | 1 | Complete |
| Registered customers should | 2 | Complete |

| | | |
|---|---|---|
| be able to search for an order by any books contained in it | | |
| Registered customers should be able to cancel orders they have placed (up to when they are dispatched) | 1 | Complete |
| Registered customers should be able to view reports on specific orders | 3 | Complete |
| Registered customers can view their shopping basket | 2 | Complete |
| Registered customers can add delivery addresses and payment methods to the database | 1 | Complete |

## 4 System Administrators

| Priority level | Requirements | Status |
|---|---|---|
| 1 | System administrators should be able to see all orders (most recent first), with the ability to sort and filter appropriately | Partially complete, system administrators can see all orders but cannot sort/filter |
| 1 | System administrators should be able to change the status of an order (e.g. to pending or dispatched) | Complete |
| 1 | System administrators should be able to see reports on the status of orders | Complete |
| 1 | System administrators should be able to see reports on the financial transactions that have taken place between any two specified dates | Partially complete, system administrator can generate reports on any transaction in the system |
| 2 | System administrators should be able to restock the copies of books in the system | Complete |

| | | | |
|---|---|---|---|
| 1 | System administrators should be able to add new books to the database | Complete | |

## 5   Completing an Order

| Requirements | Sub requirements | Priority level | Status |
|---|---|---|---|
| Customers can search for books within the system. There is no specific requirement for how they do this but it should be possible for a customer to locate books based on any of the data held on a book. | | 2 | Complete |
| Once a book has been found, it (or multiple copies of it) can be added to a shopping basket. | | 1 | Complete |
| A shopping basket translates into an order at checkout. In addition to the contents of the shopping basket, an order includes: | The identity of the customer | 1 | Complete |
| | The delivery address (which may be specified at checkout or the customer may reuse their last address) | 1 | Complete |
| | The payment information (which may be specified at checkout or the customer may reuse their last payment information) | 1 | Complete |
| | The timestamp when the order was placed | 2 | Complete |
| | The status of the | 2 | Complete |

| | | | |
|---|---|---|---|
| | order (e.g. ordered, pending, dispatched, canceled) | | |
| | The timestamp of when the status of the order was last changed | 3 | Not implemented |
| | An audit trail of changes to the status of an order (with brief details) | 3 | Not implemented |

# 6   Development

| Requirement | Priority level | Status |
|---|---|---|
| The development system must not attempt to verify credit card or other sensitive information. | 1 | Complete |
| Having defined this as a bookshop system, it has obvious generalisability to any sort of e-commerce. | 2 | Complete |

# 7   Document Control

## 7.1 Maintenance procedure

Any proposed changes to the document must be made while changes are tracked.

## 7.1 History

| Version | Date | Changer | Change |
|---|---|---|---|
| V1.0 | 19/02/2023 | Adam Thornton | Created the |

| | | | document, filled out section 1 |
|------|------------|---------------|------------------------------------------------------------------------------------|
| V1.1 | 25/02/2023 | Adam Thornton | Completed first draft |
| V1.2 | 08/05/2023 | Adam Thornton | Added priority levels to the requirements, added extra requirements, completed final draft |