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SRS FOR ELECTRONIC COMMERCE WEBSITE MAKING

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1 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 further development of the software system. This document is broken into a number of sections used to logically separate the software requirements into easily referenced parts.

1.1 Purpose

Defining and describing the functions and specifications of the Book E-Commerce System (BECS) is the primary goal of this Software Requirements Specification (SRS). This Software Requirements Specification illustrates, in clear terms, the system’s primary uses and required functionality as specified by our customer\

1.2 Scope

The software system being produced is called Book E-Commerce System or BECS. It is being produced for a customer interested in selling books via the Internet. This system is designed to “provide automation support” [2] for the process of placing books for sale on the Internet and facilitating the actual sale. This system is largely cross-platform and is available to anyone using the Computer Science Department’s provided computer resources in the MSU Engineering Building. The system will be run on a central server with each user having a remote user interface through a web browser to interact with it

The system will allow customers to browse, search, select, and add books to a shopping cart. Then, provided they have books in their shopping cart, check out books in shopping cart and decrement the stock that the inventory the system maintains. This interaction includes the creation (by managers) and the application to orders (by customers) of the promotions. The BECS has full email capabilities; the automated email functionality will be used to send promotions to members of the system as well as provide the managers with low-stock notifications.

1.3 Organization

This Software Requirements Specification document is divided in to multiple subsections. The first section includes explanations of the Purpose, Scope and Organization of the document. The first section also handles the description of project specific words, acronyms and abbreviations that will be used in the document. The second section of the document is separated into the following five different sections, each detailing specific details of system uses and their corresponding actions: Product Perspective, Product Functions, User Characteristics, Constraints, Assumptions and Dependencies, Apportioning of Requirements. The third section is an enumerated listing of all of the requirements described for this system. The fourth section encompasses all of the Use-case, Sequence, State and Class diagrams that model the system. In the fifth section there exists a Prototype of the system along with a sample scenario that graphically describes the use of the system. The sixth section contains a listing of all related reference materials used in this document. The seventh and final subsection is dedicated to providing a point of contact for any viewer of this document

2. Description

This section includes details about what is and is not expected of the BECS system in addition to which cases are intentionally unsupported and assumptions that will be used in the creation of the BECS system

2.1 Constraints

As stated by the customer, security is not a concern for this system. The database may store passwords in plain text and there doesn't need to be a password recovery feature nor lockout after numerous invalid login attempts. As such, the system may not work correctly in cases when security is a concern. These cases include those listed above in addition to lack of an encrypted connection when sending credit card information and forcing users to use “strong” passwords. A strong password is a password that meets a number of conditions that are set in place so that user's passwords cannot be easily guessed by an attacker. Generally, these rules include ensuring that the

password contains a sufficient number of characters and contains not only lowercase letters but also capitals, numbers, and in some cases, symbols

3. Requirements

3.1 User Side

Software: -

Internet Explorer or Mozilla Firefox

Hardware: -

Computer or mobile that can access internet or has support browser

3.2 System Side

Software: -

Web-based application

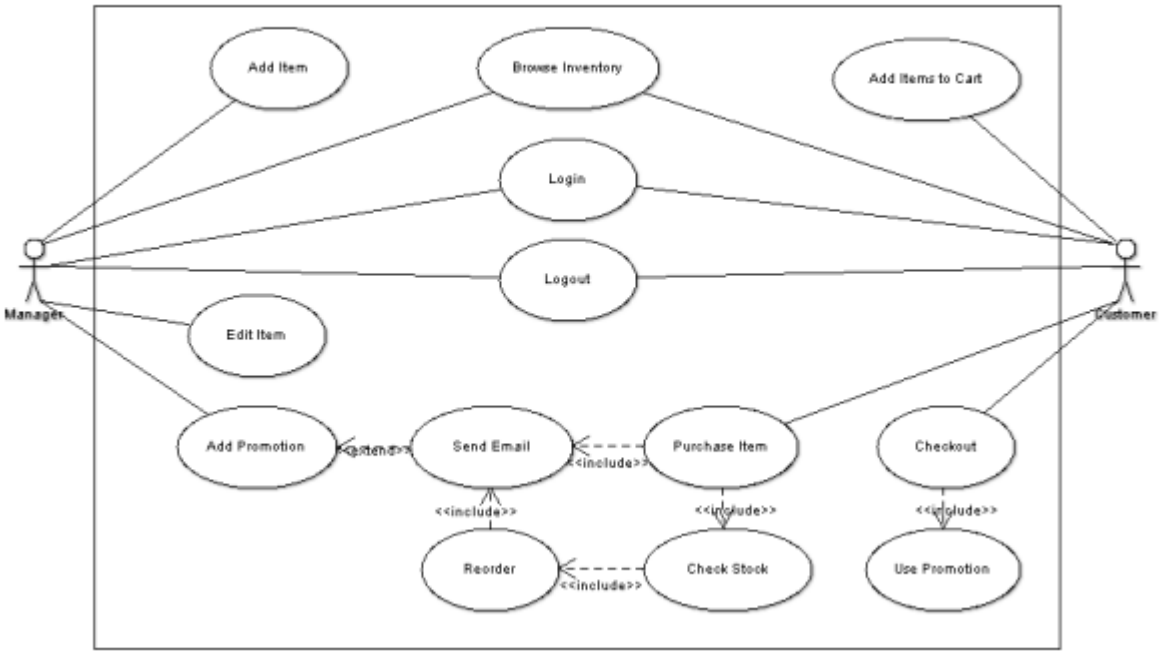
Database information storage system

Hardware: -

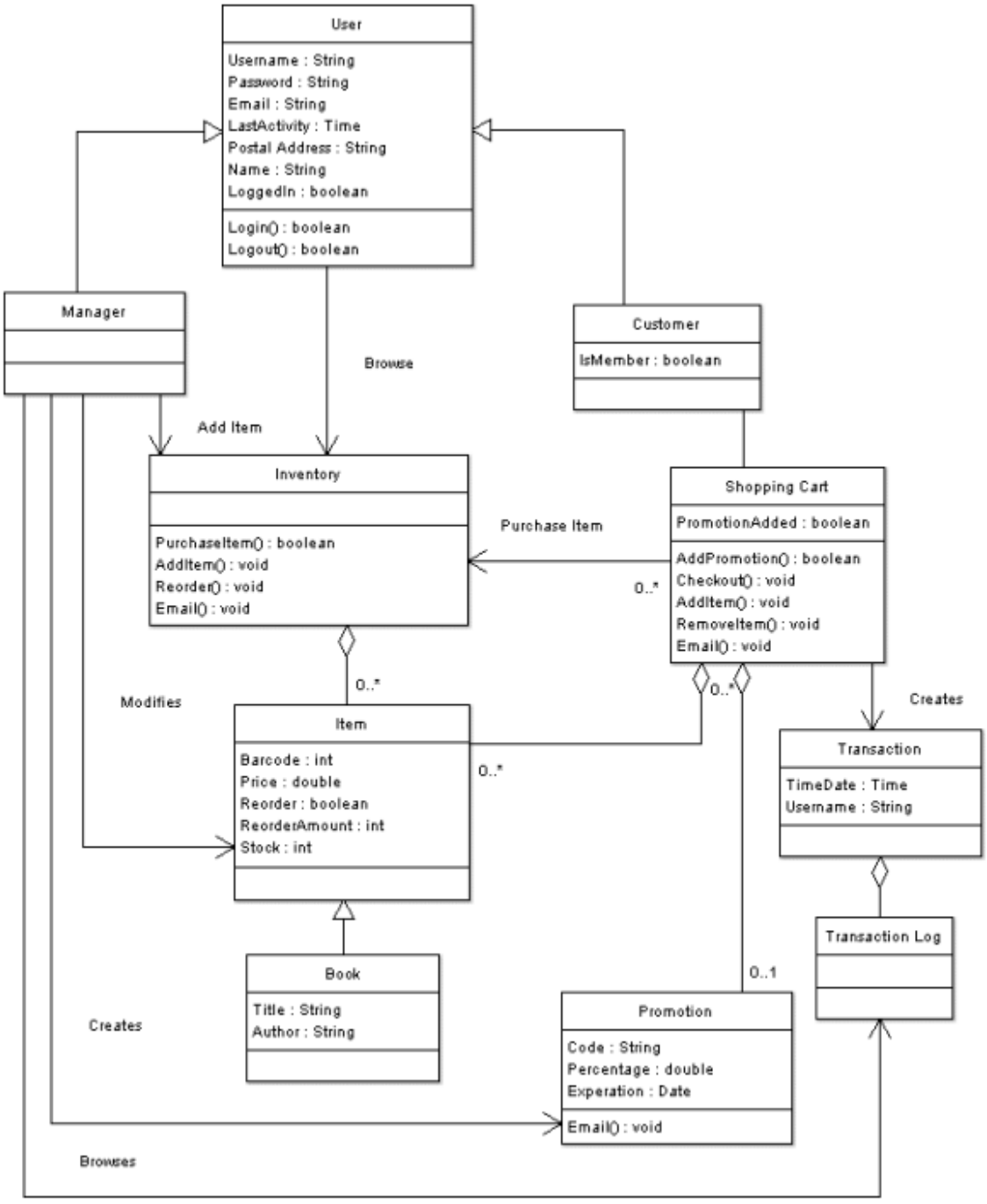
Cloud computer or any local computer that can host a website using IP

4. Modelling Requirements

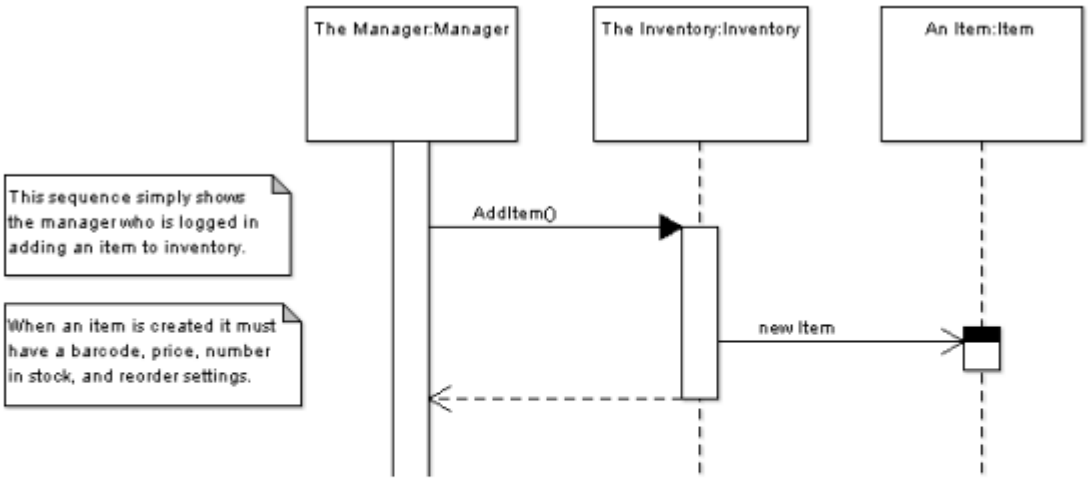
4.1 Use Case Diagram

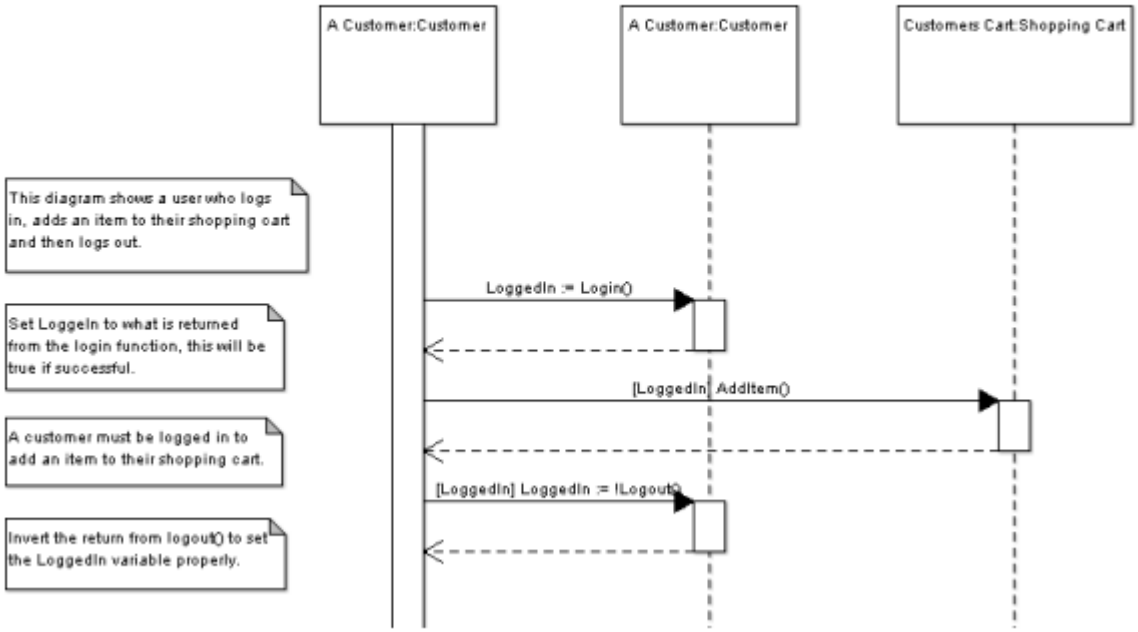

Add Item
Browse Inventory
Add Items to Cart
Login
Logout
Manager
Customer
Edit Item
Add Promotion
<<extend>>
Send Email
<<include>>
Purchase Item
Checkout
<<include>>
<<include>>
<<include>>
Reorder
<<include>>
Check Stock
Use Promotion

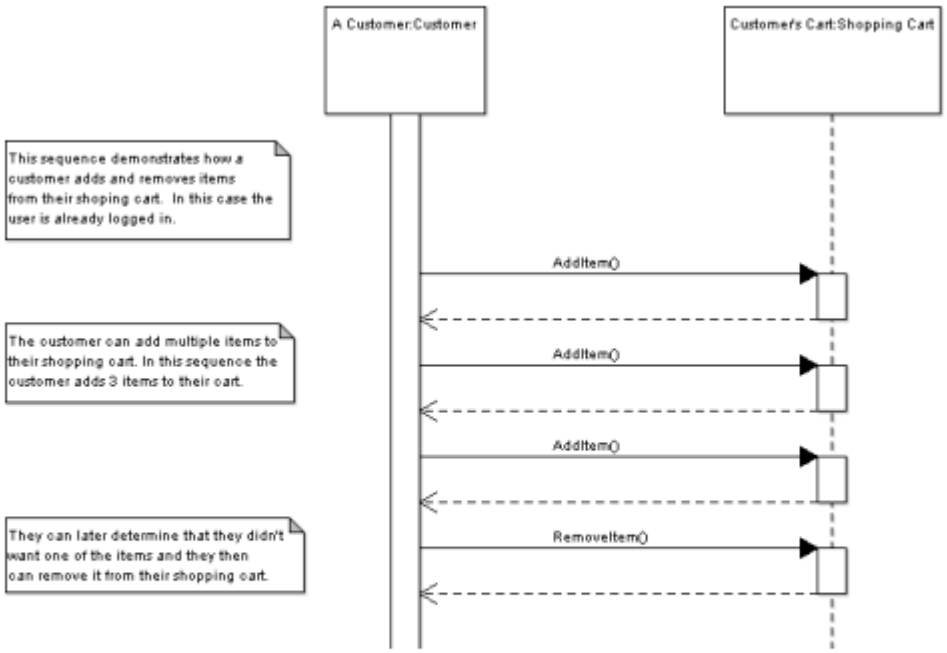
4.2 Class Diagram



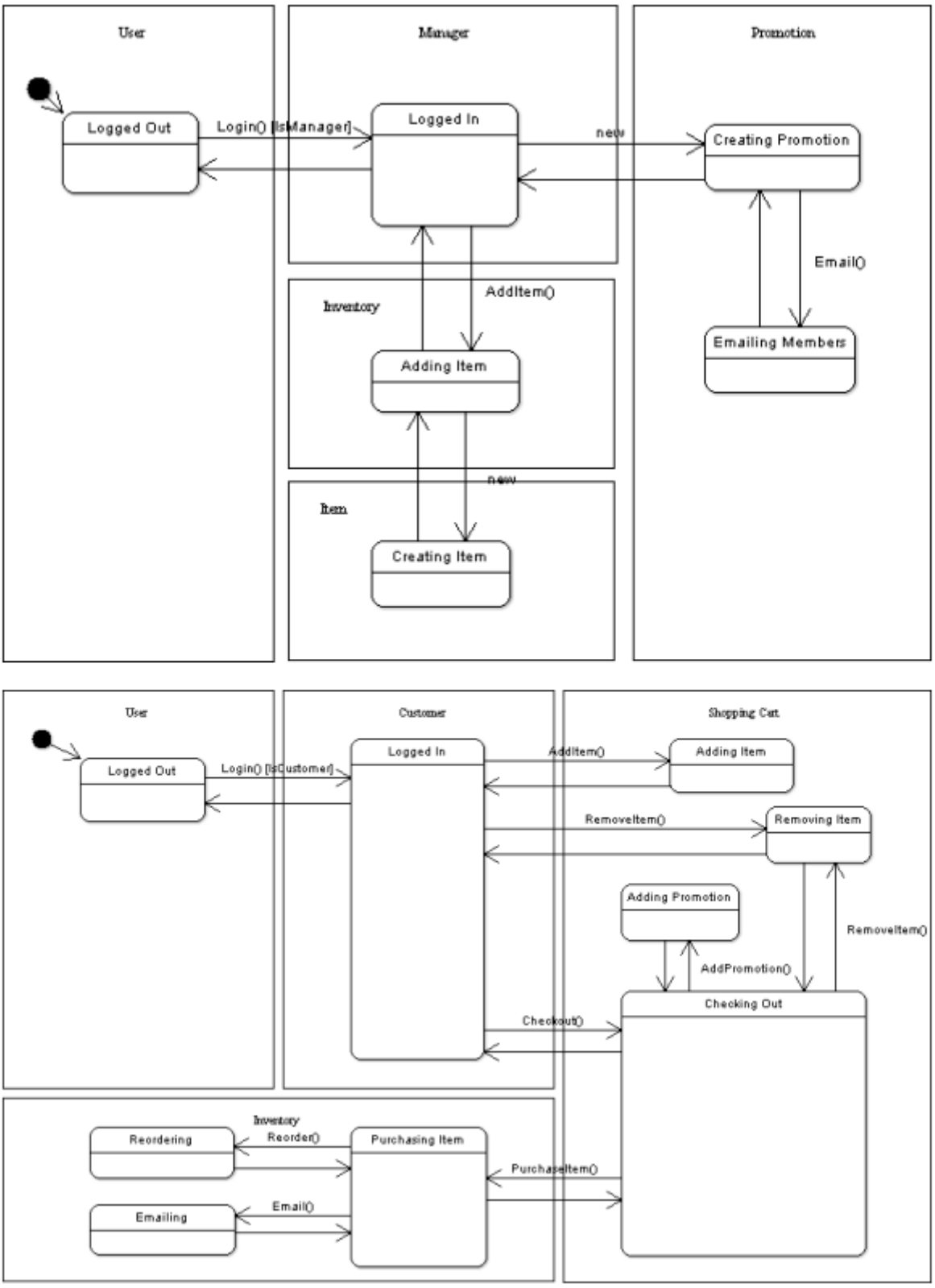
4.3 Sequence Diagrams






A Customer:Customer
Customer's Cart:Shopping Cart
This sequence demonstrates how a customer adds and removes items from their shoping cart. In this case the user is already logged in.
AddItem()
The customer can add multiple items to their shopping cart. In this sequence the customer adds 3 items to their cart.
AddItem()
AddItem()
They can later determine that they didn't want one of the items and they then can remove it from their shopping cart.
RemoveItem()

4.4 State Diagrams



5. Other non-functional requirements

5.1 Securities

Using https protocol we can ensure that security is at high level for website.

5.2 Reliability

Hence the software is web-based application so reliability is ensured at the high level possible.

5.3 Maintainability

The software has to be maintained at least six months once as a check-up.

5.4 Portability

Using web hosting we can access the application from anywhere in the world

5.5 Reusability

The software can be used again and again by internet.

5.6 compatibility

As the software is based on web application it can be accessed by using web browser

5.7 Serviceability

A customer service can be offered using a telephone mode or chat mode through website.