

1. ECOMM Informal System Specification

1.1 Introduction

The informal System Specification is, merely a sketch of what the system should do.

1.2 The specification document

ACME E-Commerce Platform informal System Specification

1.2.1 Vision

The E-Commerce Platform (ECOMM) is a new web-based selling channel for ACME Limited.

The goal of the ECOMM is to allow ACME customers to order products via the Internet from an online catalogue.

The ECOMM must integrate with the existing inventory and dispatch systems and must also communicate credit card information to the credit card processing company for validation before an order is accepted.

We believe that the system should operate according to the “shopping basket” paradigm that other very successful web stores such as Amazon.com use. In this model a catalog of products is displayed and the users can click on “Add to basket” to place a product in their shopping basket. This idea is demonstrated in the user interface prototype.

1.2.2 User Interface Prototype

The prototype is currently just a set of browser screens created in Microsoft Visio that can be found in this document in the following section.

1.2.3 ACME Products

At this time, ACME only intends to sell books and CDs via its ECOMM web channel.

Books are categorized according to subject matter. These categories include, but are not limited to:

Art	Biographies	Children's books
Finance	Computers	Cooking, food & wine
Entertainment	Mind & body	History
Hobbies	Home & garden	Horror
Literature & fiction	Mystery & thrillers	Non-fiction
Professional & technical	Reference	Religion & spirituality
Science & nature	Science fiction	Sports & outdoors
Travel		

Table 1 - Book Categories

Each book is identified by its ISBN.

Customers can browse the book catalog by category or find a given book based on the following search criteria:

- Author
- Title
- Publisher
- ISBN
- CDs

CDs are categorized according to subject matter. These categories include, but are not limited to:

Alternative	Blues	Children's music
Classical	Country	Dance & DJ
Folk	Emerging artists	International
Jazz	Miscellaneous	New Age
Opera & vocal	Pop	Rap & hip-hop
R&B	Soul	Soundtracks
Vocalists & Broadway	World	

Table 2 - CD categories

Customers can browse the CD catalog by category or find a given CD based on the following search criteria:

- Artist
- Title
- Label
- Composer

1.2.4 Product Catalog

As the user interface prototype shows, we expect the ECOMM to offer the customer an initial choice of book or CD.

On selecting either book or CD the ECOMM should then list the categories and allow the customer to choose a category or search for a specific product.

The result of choosing a category or doing a search is the same – a summary list of products:

- For books this summary should contain at least author, title, publisher, ISBN, price.
- For CDs this summary should contain at least artist, title, label, composer, price.

Clicking on any product in the summary will bring up a full product description that includes all of the product information, the price and an optional picture. Next to the price there is an “Add to basket” button.

1.2.5 The shopping basket

When an item is added to the shopping basket, the customer is taken to the shopping basket screen that shows the list of all products currently in the basket. On this screen the customer may:

- Remove an item from the basket
- Change the quantity of an item
- Proceed to checkout

1.2.6 Checkout

The system presents the customer with a summary of their order. If they click on “confirm” to confirm the order, then the system asks them to log in if they have not already done so.

Ideally, the checkout should recognize the customer in which case the log in is automatic.

If not, then existing customers must log in by entering a user name and password.

New customers must fill out a form that asks for the following details:

- Name
- Address
- Shipping address (if different from above)
- Email address
- Phone number
- Fax number
- Credit card details

On submitting this form, the customer will be issued with a user name (which should probably be their email address) and is asked to select a password.

Order processing then completes.

2. ECOMM User Interface Prototype

2.1 Introduction

The ECOMM UI prototype shows some of the expected web pages that will form the basis of the user interface of the ECOMM. This prototype is very much a first draft - it is incomplete and inconsistent and was produced very quickly in Microsoft Visio to give the stakeholders some sort of idea about what the ECOMM would finally look like. It is quite typical of the sort of document that might be available to you at the beginning of analysis.

In the next few sections, we document each of the screens in the prototype.

2.2 ACME Home Page

This is the home page for the site.

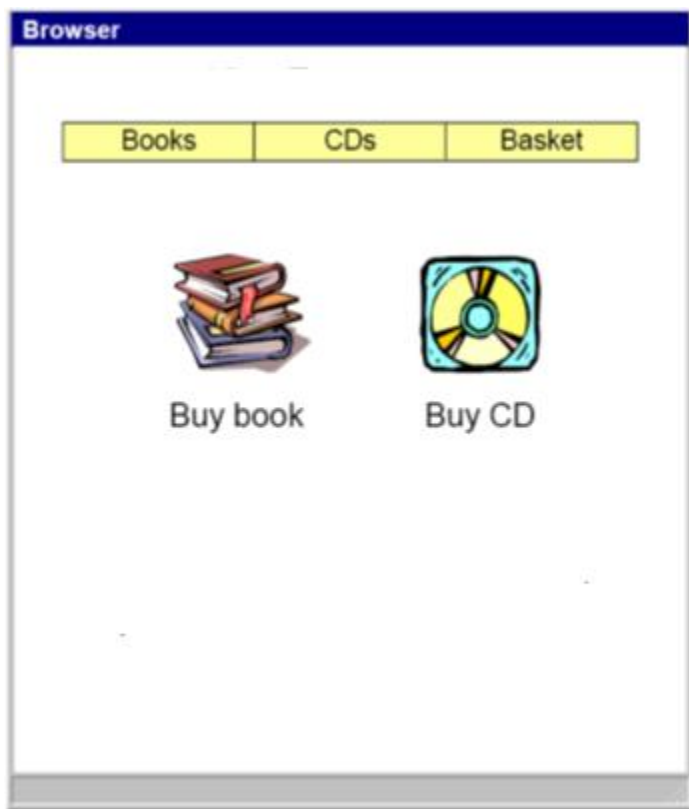


Figure 1:

2.3 Books

This page allows the user to select a category of books to view, or to perform a search on the whole catalogue.

Browser

Books

Home	CDs	Basket
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Browse books by category:

Art Biographies Children's Finance Computers Food & wine Entertainment Mind & body	History Hobbies Home Horror Fiction Mystery Non-fiction Technical	Reference Religion Science Science fiction Sports Outdoors Travel
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Or search for a book:

author	<input type="text"/>
title	<input type="text"/>
publisher	<input type="text"/>
ISBN	<input type="text"/>

Figure 2:

2.4 Computers Category

This is an example of the type of page that the user would see if they selected the Computers category from the Books page. It provides an exemplar for all the other categories.

Browser			
Home	Books	CDs	Basket
UML and the Unified Process			\$44.99
Jim Arlow, Ila Neustadt			<input type="button" value="Add to basket"/>
Addison Wesley, ISBN: 0201770601			
Unified Modeling Language Reference Manual			\$57.99
James Rumbaugh, Ivar Jacobson, Grady Booch			<input type="button" value="Add to basket"/>
Addison Wesley, ISBN: 020130998X			
Unified Modeling Language User Guide			\$49.95
Grady Booch, Ivar Jacobson, James Rumbaugh			<input type="button" value="Add to basket"/>
Addison Wesley, ISBN: 0201571684			
Advanced Use Case Modeling			\$34.95
Frank Armour, Granville Miller			<input type="button" value="Add to basket"/>
Addison Wesley, ISBN: 0201615924			
Design Patterns			\$49.95
Gamma, Helm, Johnson, Vlissides			<input type="button" value="Add to basket"/>
Addison Wesley, ISBN: 0201633612			
			<input type="button" value="Next >"/>

Figure 3:

2.5 Your Selection

This is the type of page the user would see if they selected a particular book from the Computers page.

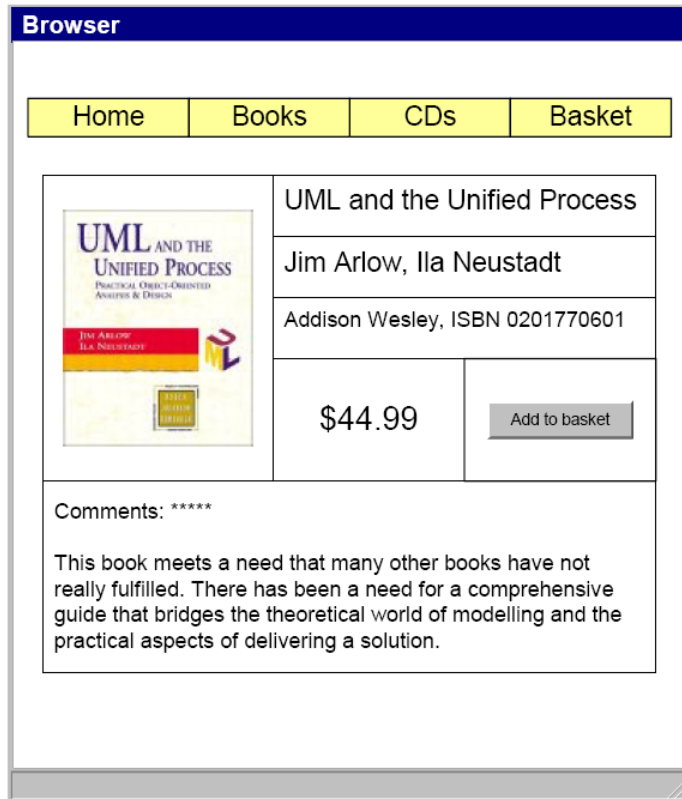


Figure 4:

2.6 Your Basket

The user's shopping basket. This contains a list of the products that they have selected.

Browser

Your Basket

Home	Books	CDs	Basket
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Product ID	Description	Quantity	Price
020130998X	UML and the Unified Process	1	\$44.99
0201633612	Design Patterns	1	\$49.95
Total			\$94.94

< Back

Figure 5:

2.7 Here is your order

This is the checkout page, it displays the users final order and asks for confirmation.

Browser			
Here is your order:			
Product ID	Description	Quantity	Price
020130998X	UML and the Unified Process	1	\$44.99
0201633612	Design Patterns	1	\$49.95
		Tax	\$0.00
		Shipping	\$5.00
		Total	\$99.94

Figure 6: