

Appendix 1 ECP Informal System Specification

A1.1 Introduction

The Informal System Specification is, in this case, merely a sketch of what the system should do. Fortunately, there are many websites that already sell books and CDs and so the analysis problem shouldn't be particularly difficult. We can fill in any gaps in our knowledge by getting ideas from competitor's sites, always being careful not to infringe any patents or copyrights.

A1.2 The specification document

Clear View Training E-Commerce Platform Informal System Specification

Vision

The E-Commerce Platform (ECP) is a new web-based selling channel for Clear View Training Limited.

The goal of the ECP is to allow Clear View Training customers to order products via the Internet from an online catalogue.

The ECP 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.

User Interface Prototype

The prototype is currently just a set of browser screens created in Microsoft Visio that can be found in the document “ECP User Interface Prototype.doc”.

Clear View Training Products

At this time, Clear View Training only intends to sell books and CDs via its ECP web channel.

Books

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

Table 1 - Book Categories

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

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:

Table 2 - CD categories

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

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

- Artist
- Title
- Label
- Composer

Product Catalog

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

On selecting either book or CD the ECP 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.

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

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.

Appendix 2 ECP User Interface Prototype

A2.1 Introduction

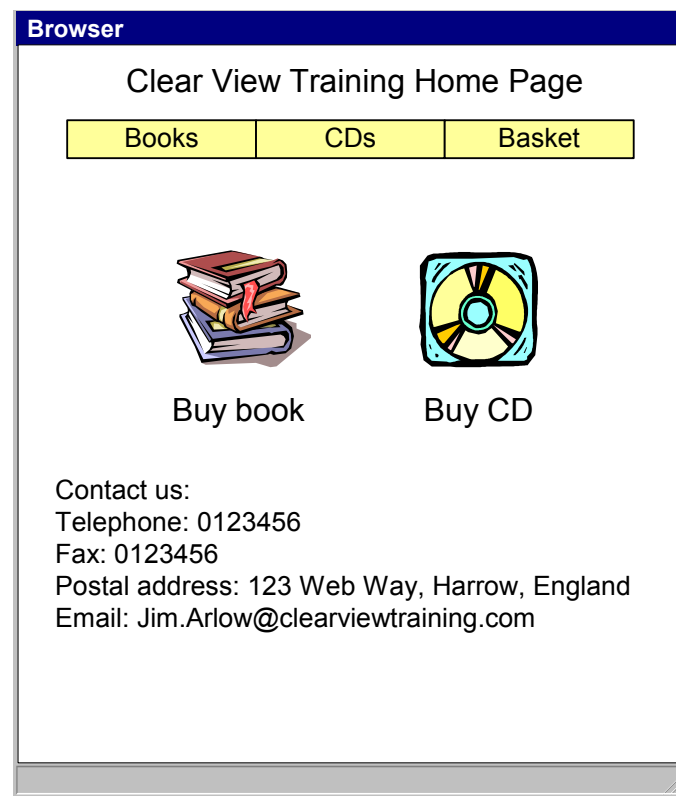
The ECP UI prototype shows some of the expected web pages that will form the basis of the user interface of the ECP. This prototype is very much a first draft - it is incomplete and inconsistent and was produced very quickly in Microsoft Visio to give the stakeholders some sort of idea about what the ECP 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.

A2.2 Clear View Training Home Page

This is the home page for the site.

Figure 1:



A2.3 Books

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

Figure 2:

The screenshot shows a web browser window with a title bar labeled 'Browser'. The main content area is titled 'Books'. At the top, there is a navigation bar with three buttons: 'Home', 'CDs', and 'Basket'. Below this, the text 'Browse books by category:' is followed by a table of book categories. The table has three columns: the first column lists 'Art', 'Biographies', 'Children's', 'Finance', 'Computers', 'Food & wine', 'Entertainment', and 'Mind & body'; the second column lists 'History', 'Hobbies', 'Home', 'Horror', 'Fiction', 'Mystery', 'Non-fiction', and 'Technical'; the third column lists 'Reference', 'Religion', 'Science', 'Science fiction', 'Sports', 'Outdoors', and 'Travel'. Below the table, the text 'Or search for a book:' is followed by four input fields labeled 'author', 'title', 'publisher', and 'ISBN'. To the right of the 'ISBN' field is a button labeled 'Find book'.

Books		
Home	CDs	Basket
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
Or search for a book:		
author	<input type="text"/>	
title	<input type="text"/>	
publisher	<input type="text"/>	
ISBN	<input type="text"/>	<input type="button" value="Find book"/>

A2.4 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.

Figure 3:

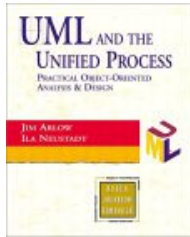
Browser

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

A2.5 Your Selection

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

Figure 4:

Browser				
Home		Books	CDs	Basket
	UML and the Unified Process			
	Jim Arlow, Ila Neustadt			
	Addison Wesley, ISBN 0201770601			
	\$44.99	<input type="button" value="Add to basket"/>		
Comments: *****				
This book meets a need that many other books have not really fulfilled. There has been a need for a comprehensive guide that bridges the theoretical world of modelling and the practical aspects of delivering a solution.				

A2.6 Your Basket

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

Figure 5:

The screenshot shows a web browser window with a blue title bar labeled 'Browser'. The main content area has a white background. At the top, the text 'Your Basket' is centered. Below it is a navigation bar with four yellow buttons: 'Home', 'Books', 'CDs', and 'Basket'. Underneath the navigation bar is a table with four columns: 'Product ID', 'Description', 'Quantity', and 'Price'. The table contains two rows of product data and a final row for the total. At the bottom right of the table area is a grey button labeled '< Back'.

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

< Back

A2.7 Here is your order

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

Figure 6:

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