Online Shopping

A project submitted in partial fulfillment of the requirements for the Post Graduate Diploma in Computer Sciences

By

Mrs. Robina Yasmin
PGD-FDE

Session 2002-2003

**Computer Center
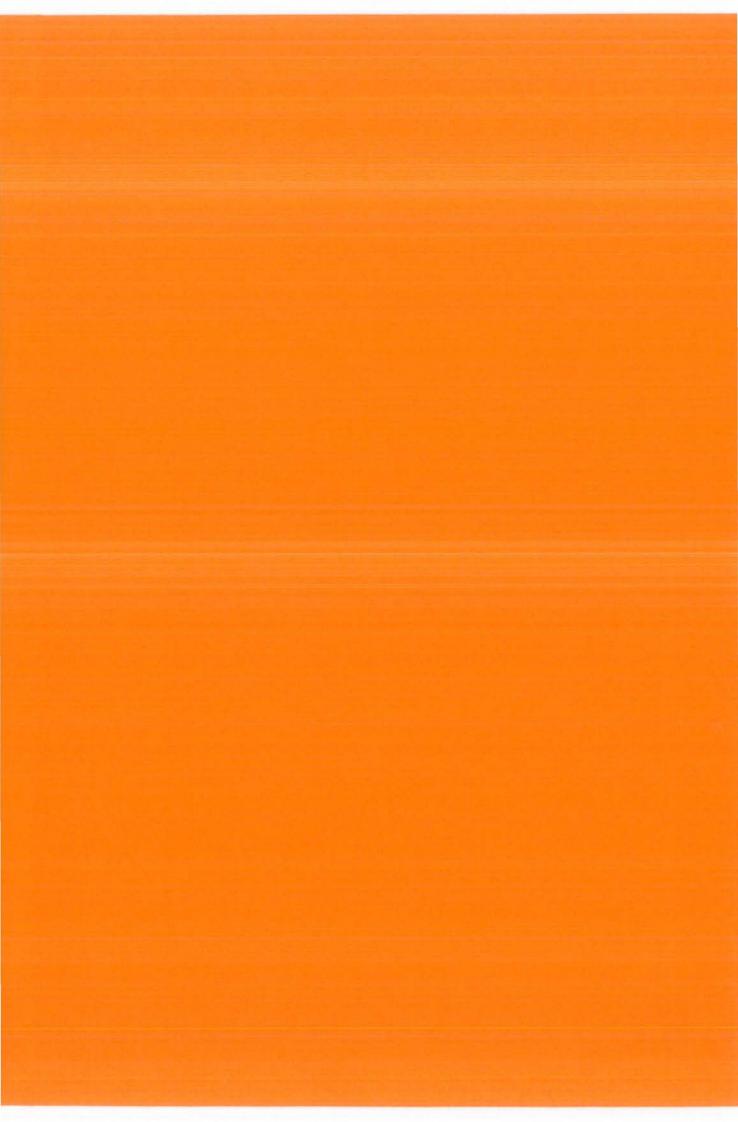Quaid-e-Azam University,
Islamabad**

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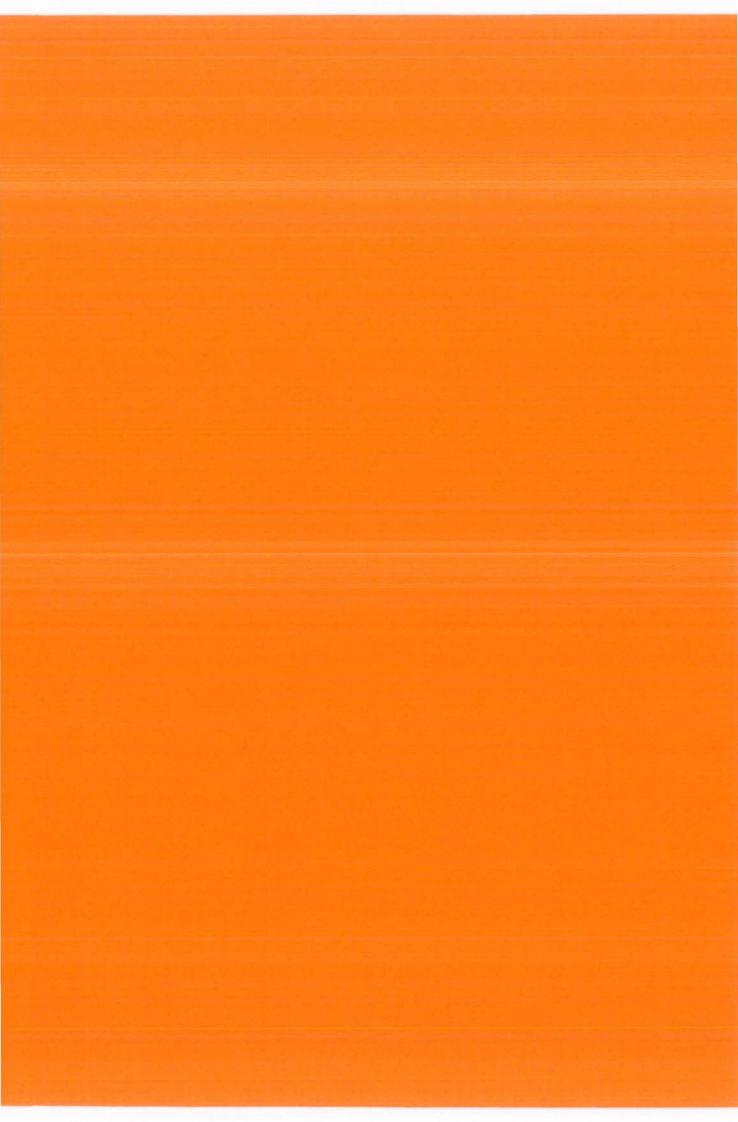**Computer Center**
Quaid-e-Azam University,
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ACCEPETANCE

We hereby certify that this project, submitted by **Mrs. Robina Yasmin**, Roll No. 16, student of **Postgraduate Diploma in Computer Science** at Computer Centre, Quaid-e-Azam Univeristy, Islamabad session 2002-2003 conforms to acceptable standards and is fully adequate in scope and quality to fulfill the Postgraduate Diploma in Computer Science

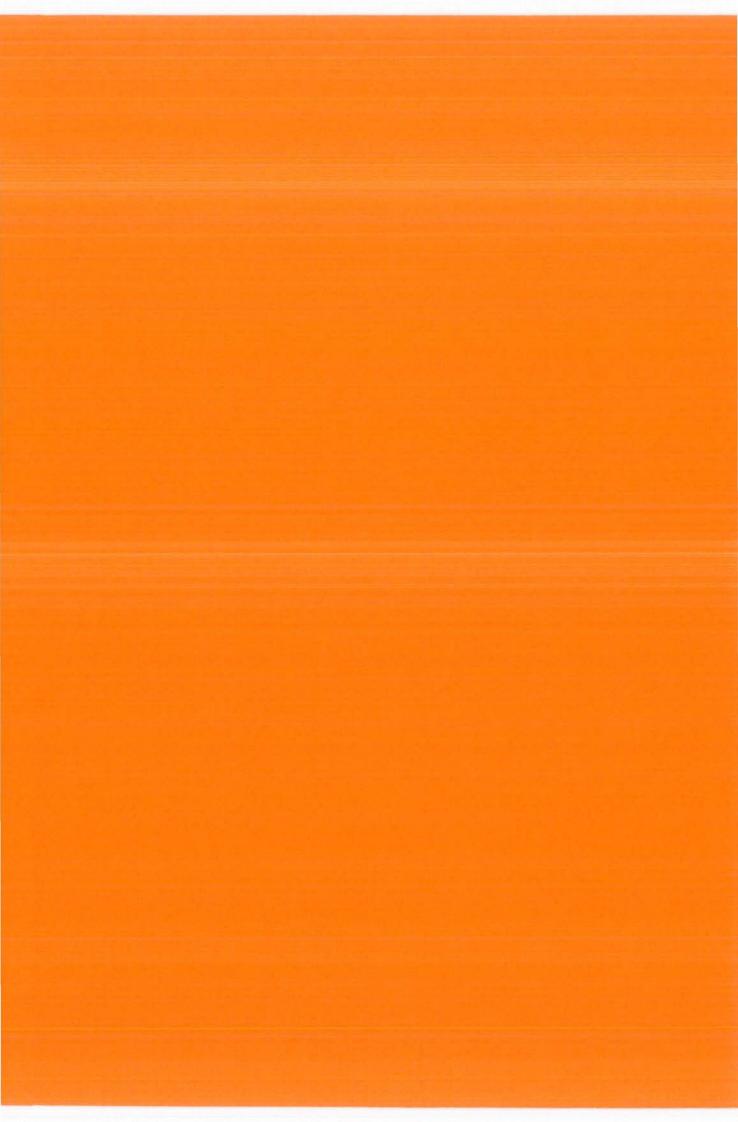Supervisor: Date

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September 15, 2003

Mrs. Robina Yasmin
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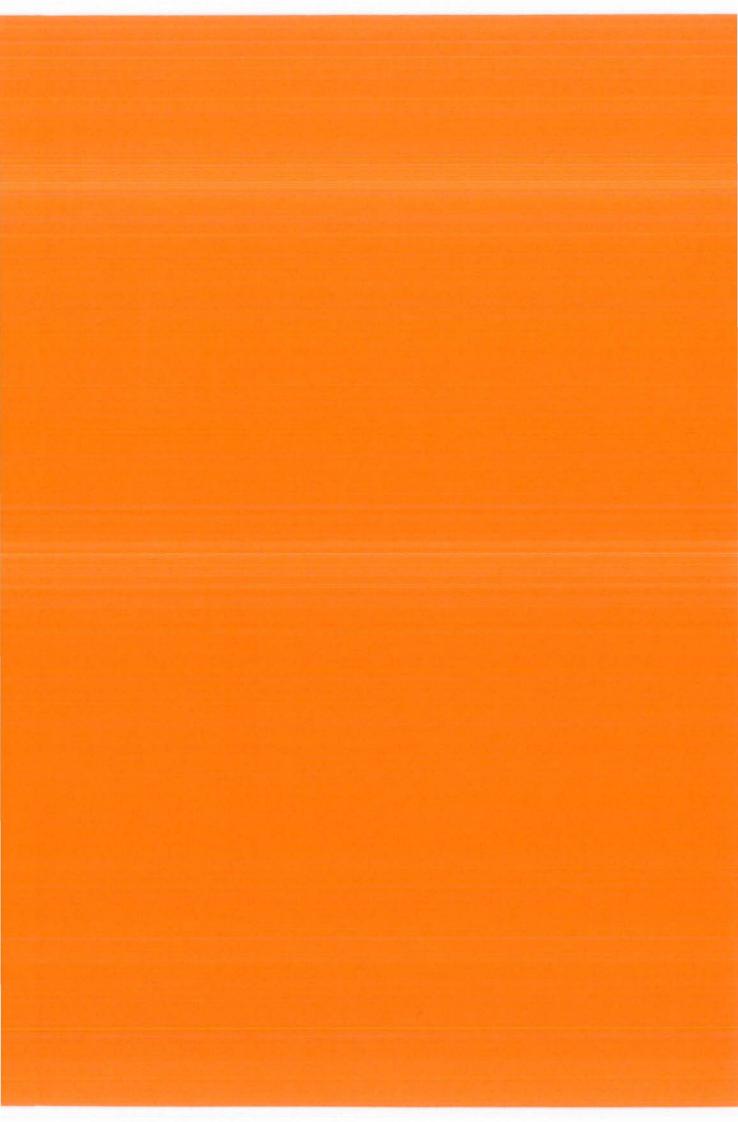QAU, Islamabad

ACKNOWLEDGEMENT

ABSTRACT

I opted to develop a project as a prerequisite for completion of myr PGD. The project had to utilize major courses that were taught during the diploma studies. I decided to develop a web site using the skills taught by our dedicated teacher Mr. Javed Hussain, during the sessions of E-Commerce Course. This project is based on implementation of our knowledge of Web Developping & online Database management tools.
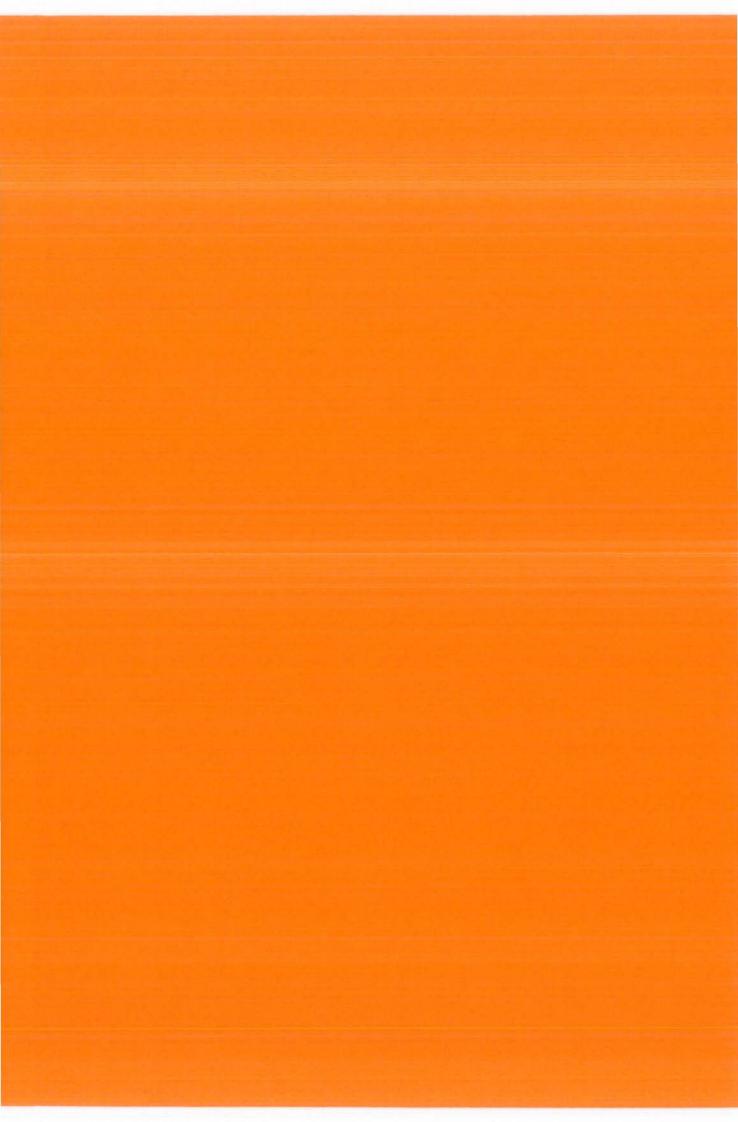
The outcome of the project was that I managed to develop an online shopping site that facilitated users to shop while sitting at their homes. The site is not only a shopping site but it can serve as a fashion site as well as it provides the awareness of most modern trends to its customers.

Conclussively, working on an online project is, no doubt, an exciting and challenging experience. Other than software tools, hard work, patience, dedication and devotion is most important to develop such kind of project.

Thanks to almighty Allah.

<div align="right">

Mrs. Robina Yasmin,
Student PGD
2002-2003

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User Manual

1. Introduction

1.1. Purpose and Scope

Purpose

Project work is a prerequisite to get a Post Graduate Diploma in Information Technology from University of Arid agriculture, Rawalpindi.

Scope

The project is development of a website that facilitates online shopping of men wear, women wear and jewellery. The user can view and shop different items while sitting at his/her home by using Internet.

1.2. Background and Objectives

Our main objectives are stated as under:

- To provide a wide and varied range of garments and jewellery at competitive prices, while also endeavoring to educate and further develop our clients knowledge of, and interest to wear state of the art dressing.

- To save the customer time by bringing the net's offer of products or services from a certain subject together in one easy to browse website. Hereby you will save much time finding your specific product. Whether you are looking for some leather jacket or some good earring or perhaps a bridal dress, you will always be able to trust "Be in Style" for offering just what you're looking for.

- To provide the finest resources possible for men clothing, women clothing and jewellery.

- To generate a user-friendly site. The main interfaces of our site are very easy to use so that any person can easily use it. There are clear error messages.

- To raise awareness about shopping over the Internet and also to outline the benefits of online shopping, such as time and money savings

1.3. Outline of Report

This report is divided into 6 sections. Section 1 is an introduction to the project. Section 2 contains a document and product survey. Section 3 contains information about the site design as well as the database design. Section 4 contains the coding as well as the details of tests that were performed to verify and validate the code and functionality. Section 5 contains conclusions and recommendations for further work. Last section contains references.

1.4. Tools used

This project has been prepared by using following tools: -

1.4.1. Active Server Pages with ADO support

1.4.2. HTML

1.4.3. MS FrontPage

1.4.4. MS Access

1.4.5. Adobe Photoshop

1.4.6. Flash

1.4.7. Macromedia Dreamweaver MX

1.4.1.   Active Server Pages

Defining Active Server Pages.

ASP is an acronym for Microsoft's Active Server Pages. Now, ASP may seem like a bit of an odd name but, believe it or not, some real thought went into coming up with the name.

The reason for naming the technology Active Server Pages is because it very basically describes what the technology is all about:
1. The **Active** refers to the fact that your ASP pages create the HTML dynamically.
2. The **Server** refers to the fact that this process is done on the server-side and not the client-side. An example of a client-side technology would be JavaScript, which is a language that actually runs in the browser. Server-side technologies like ASP run on the server and send out simple HTML to the browser.
3. Then there is **Pages**. I don't think this one needs any explaining.

Active Server Pages (ASP) is basically a server-side scripting technology that can be used to create dynamic and interactive Web applications. An ASP page is an HTML page that contains server-side scripts that are processed by the Web server before being sent to the user's browser. ASP can be combined with Extensible Markup Language (XML), Component Object Model (COM), and Hypertext Markup Language (HTML) to create powerful interactive Web sites.

ASP is referred to as a server technology. This means that it is technically not a programming language, however, you will probably hear ASP referred to as a language from time to time. When working in ASP you will actually write ASP in cooperation with either JavaScript or VBScript, which are the actual programming languages that are available to you. The distinction between a server technology and a programming language can be very confusing, especially to beginning developers. So, for now, don't worry about the distinction too much. It will become more apparent as you learn about ASP.

Uses of Active Server Pages (ASP)

There are probably a million and one uses that you could come up with for ASP. ASP is great for creating almost any kind of dynamic web content from discussion groups to shopping carts. Here are some examples of common ASP applications:

Personal uses:

- A randomized thought of the day on home page of web.
- A dynamically generated calendar of events on web.
- A web based movie exchange application.
- **A guestbook form that stores guests' information in a database.**
- A personal greeting for web visitors.

Business Uses:

- **Shopping Carts**
- Discussion Groups
- Personal Greetings
- **Client account information**
- Secured sections of your site
- **Web-based cost estimate configuration applications**

These are obviously only a small portion of the applications that are possible. ASP is ideal for simplifying tasks that would otherwise be very cumbersome or impossible in HTML. It also makes possible the ability to design pages that can easily be maintained by you or your clients.

1.4.2. Hyper Text Markup Language HTML

What is HTML?

H-T-M-L are initials that stand for HyperText Markup Language (computer people love initials and acronyms -- you'll be talking acronyms ASAP). Let me break it down for you:

a. **Hyper** is the opposite of linear. It used to be that computer programs had to move in a linear fashion. This before this, this before this, and so on. HTML does not hold to that pattern and allows the person viewing the World Wide Web page to go anywhere, any time they want.
b. **Text** is what you will use. Real, honest to goodness English letters.
c. **Mark up** is what you will do. You will write in plain English and then mark up what you wrote. More to come on that in the next Primer.

d. **Language** because they needed something that started with "L" to finish HTML and Hypertext Markup Louie didn't flow correctly. Because it's a language, really -- but the language is plain English.

What Is DHTML?

It's actually a little tough to get a handle on because it's beginning to mean different things to a few different people. The actual term stands for Dynamic Hypertext Mark-Up Language. That's obvious. The essence of the term stands for almost any coding that creates movement or interactivity by employing the standards of the 4.0 level Netscape and MSIE browsers.

The best description of DHTML is any combination of Style Sheets, JavaScript, Layering, Positioning, and Page Division (see the Positioning tutorial for more on this), at the 4.0 browser level, intended to create movement or user interactivity.

1.4.3. MS FrontPage

Overview

Now it's easy to add sophisticated technology to Web site without having to program. Whether you want to better understand your visitors through usage analysis reports, or get the lowdown on your site's performance with enhanced reports, Microsoft FrontPage 2002 has the tools to help your business.

Benefits

i) Microsoft FrontPage version 2002 provides the best value in its category. It has integrated features for Web site creation, Web site management, instant team Web sites with the SharePoint Team Services team Web solution, e-commerce, and graphics editing built right in.

ii) FrontPage is easy to get started with. Built-in templates and wizards allow you to create a web site in only a matter of minutes, and then customize it to make it your own with your own graphics, Photo Gallery, backgrounds, image maps, Themes, fonts, and formatting.

iii) FrontPage grows with you as you learn more and more about web site creation and management. FrontPage allows you to create Web pages in a familiar what-you-see-is-what-you-get (WYSIWYG) environment, use Reveal Codes to see what HTML tags are produced while they are still in WYSIWYG mode, and even hand-code in the Notepad-like HTML View. You can even use its e-commerce functionality, forms and database support, and usage analysis features when you are ready for them.

iv) You can get started quickly with FrontPage because it looks and works like Microsoft Office. As part of the Microsoft Office family of products, it shares similar toolbars, menus, Task Pane, clipboard, and familiar features such as the Customizable Themes and background spell checking.

v) FrontPage is broadly available and broadly used. Microsoft FrontPage is so popular that you can easily find a wide range of Web sites, books, training classes, Web professionals and users groups to help you learn and use FrontPage. You can also choose from hundreds of Web site hosting companies that support creating and editing Web sites directly against their servers, and select from a variety of third-party add-ins that extend the functionality of FrontPage even further.

vi) FrontPage helps users at all levels save time. Novices can get productive quickly because FrontPage looks and works like Microsoft Office, and HTML experts can produce code faster
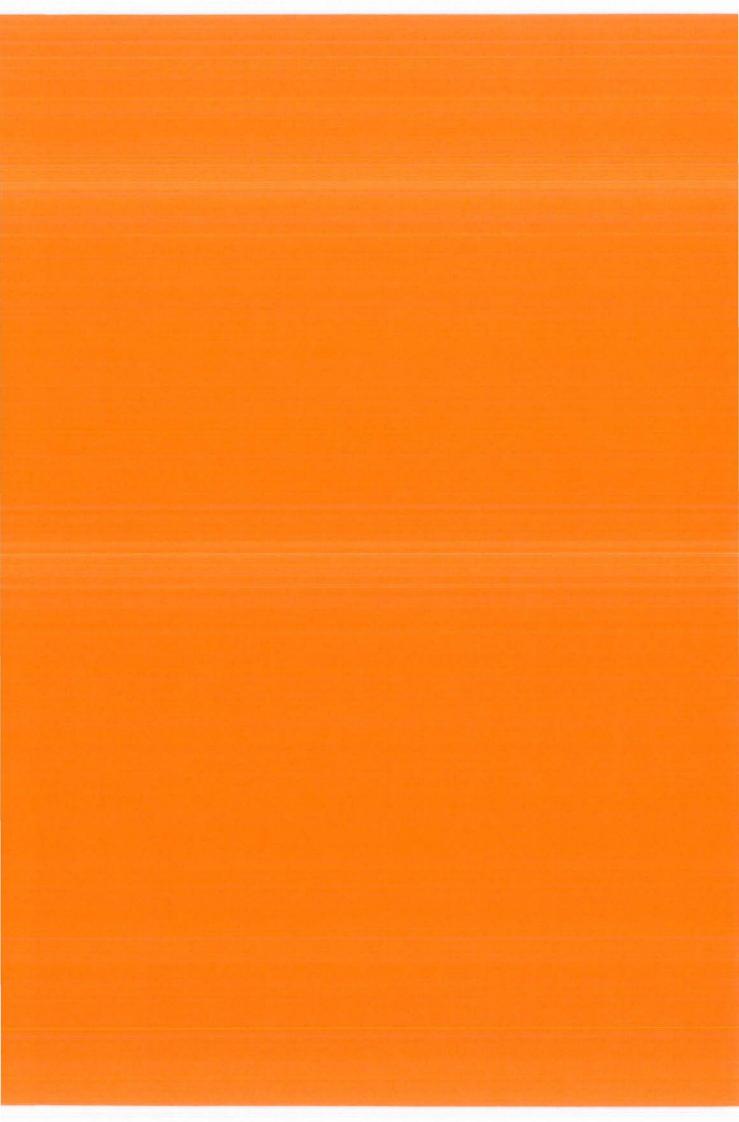
1.4.4. MS Access
Overview

Whether you are creating a database for personal use, departmental use, or an entire organization, Microsoft® Access 2002 offers a set of tools rich enough for the most experienced database developer, yet accessible enough for first-time users. By incorporating the innovations of Office XP, as well as introducing productivity and collaboration features such as the Data Access Page Designer and XML support, Access 2002 helps you store, organize, and share your data, so you and your team can make better decisions.

Benefits

i) Embrace the Web. As business processes move to the Web at an increasing pace, users and organizations are demanding compelling, useful functionality from Internet and intranet applications. Businesses are demanding that the Web solve real business problems and show a demonstrable positive impact on productivity. Access 2002 provides the tools to build solutions that integrate and leverage Internet standards to better allow for the sharing and presentation of data across the Internet and intranet.

ii) Integrate data sources across the enterprise. In an integrated application environment, business applications communicate seamlessly with one another. One of the key goals of Access 2002 is to provide an integrated application environment, which enables users to perform query and analysis of enterprise data sources from the familiar, easy-to-use Office interface.

iii) Remain agile. Ultimately, all businesses require the agility to respond to their rapidly changing marketplace. The new technologies and features of Access 2002 help businesses be more agile by enabling users to unlock the power of the organization's data. Using Access 2002, corporations can build data-driven business solutions quickly and deploy those applications into the environment that their end-users are using every day.

2. Choosing a Scripting Language:

Web development tools and technology have grown dramatically since the first simple websites were built in the mid-1990s, with text-editors and HTML. The earlier trend favoring brochure-like glossy websites has been abandoned in preference for dynamic content, the new industry standard by which sites are judged.

Dynamically generated websites all have a database in the background and use some form of content generation to produce the HTML pages. There are numerous ways of doing this, including proprietary solutions as well as general-purpose programming and scripting tools.

Most server-side scripting languages require that you add code to your Web page to break out of HTML mode, connect to the database, request the desired records from the database, and process the results received from the database to display it as part of the Web page. These scripting languages form the transactional background, which allows the web server and database server to converse. Most of these scripting languages are similar to C, C++, Perl or Java but are a bit more difficult to learn quickly than say HTML or JavaScript.

The questions to ask yourself when choosing a scripting language are the following.
- What are their skills and computing resources of the person(s) who will be maintaining the site?
- Where will the site be hosted?
- What scripting tools does the web host support?
- What database server will be used?
- What drivers (the software which connects your web site to the database) are available? and
- For what OS platforms (as the drivers have to be available for both the server and development machines)?

There are 4 commonly used scripting languages in the generation of dynamic Web sites and these are as per following: -

1. PHP Hypertext Pre-Processor
2. ASP Active Server Pages
3. JSP JAVA &JAVA Server Pages
4. CFM Macromedia Cold Fusion

[Note: PERL is also another language, but have chosen not to discuss the use of PERL because of its limited advantages in comparison to the others tools available.]

2.1 Hypertext Preprocessor (PHP)

PHP is free, cross-platform, Open Source software. It integrates with all major Web servers on all major operating systems. This is a great advantage for developers on a budget, because they can set up a complete Linux-based Web server with PHP support at no cost. PHP has become a popular alternative to Microsoft's ASP. In addition to the obvious advantage of being free of cost, the attraction of PHP to programmers can be attributed to its simple syntax (which is similar to languages such as C), straightforward installation, and its wide-ranging library of built-in functions, which makes it a highly capable language. In the unusual circumstance that a particular application requires the addition of non-standard functionality that is not already offered by the ample library of built-in functions, creating new functions requires knowledge of C/C++.

As with most free software, there is no formal support from the language authors; however, PHP has an extremely active user community that has proven to be very helpful. Moreover, the current versions of PHP are quite stable and reliable making the issue of official support less critical. The user community also typically shares new code they develop which provide new features you might want to add to your web site.

Advantages:

- Fairly easy to learn, especially for developers with C/C++, JAVA, or PERL experience.
- Large, active and highly supportive user community Comprehensive built-in functionality.
- Free of cost
- Cross-platform
- There are an enormous number of functions, classes and other scripts free on the Internet that can enable that additional web site functionality.

Drawbacks:

- This language was designed to be used by programmers, which unfortunately makes it a little less friendly to Web developers who sole programming experience is with HTML.

Target Developer:

Web developers on a tight budget who are not adverse to some procedural or object-oriented style programming (*e.g.* JavaScript). PHP affords great functionality and power with a relatively simple code structure. High-end applications may require that you find add-ons or commercial alternatives to handle highly complex functions.

2.2 Microsoft Active Server Pages (ASP)

ASP is *not* actually a language, rather, is a framework that lets you combine one of a number of scripting languages (VBScript and JavaScript being the most popular choices) with an expandable set of software **components**. ASP can combine simple scripting languages with the more powerful software components used by C/C++ developers.

Unfortunately, ASP does not include many additional components. This means that it works very well for applications that have straightforward requirements such as database connectivity, a search engine, email handling services, basic form processing and session tracking. To obtain any more esoteric functionality will require that you install additional software components on your server, which are likely to be commercial solutions with a cost.

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Advantages:

- Fairly easy to learn, though programming is required.
- Built into Windows 2000 Server so no installation required if Window is operating system
- Professional support is available.

Disadvantages:

- It's not free (unless you're already using a Windows server)
- Specialized functionality may require you to purchase commercial components, or develop them yourself in C/C++ or Visual Basic.
- C/C++, Java, Perl, and PHP developers would find the VBScript syntax strange and unfamiliar.

Target Developer:

Any programmer familiar with VBScript or Visual Basic, or with developing COM objects in Windows will find this Web development platform very easy to use. Even non-programmers find it relatively friendly but someone who is really averse to programming would probably prefer Cold Fusion. If you're comfortable committing to Windows for your Web server platform and can afford the long-term costs involved with that decision then ASP is suitable for your needs.

2.3 Java & Java Server Pages (JSP)

Java is not merely a scripting language like Perl, ASP and PHP; instead it is a Java is a full-fledged programming language. For this reason, Java is a leading platform for server-side Web development with all the power and functionality required to write large applications. With Java, the developer can write Servlets (Java programs), Java Server Pages (JSPs) that combine HTML with custom tags and Java code and Enterprise JavaBeans (EJBs), complex software components with high functionality to facilitate distributed applications.

As might be expected of such a powerful software technology, Java is not that easy to learn. It would take a programmer approximately 2 months to develop a working knowledge of Java if they had the necessary support materials. By the end of 3 months, a programmer could handle basic server-side programming with Java. This relatively long learning curve may seem daunting to someone who just wants to develop a small application quickly but for the career programmer, learning Java is a worthwhile investment.

Java has implemented Write One, Run Anywhere (WORA) policy, which makes Java code highly portable across the foremost Web servers and operating system platforms. For example, Java Web applications can be compiled into a standard Web Application Archive (.WAR), which enables the distribution of commercial Web applications to Java Web servers across platforms.

Plug-ins that enable Web servers like Apache and IIS to run Java Web applications are available from a variety of vendors. These can be obtained free of cost for personal use and development, but most of them must be paid for before they can be used to serve a commercial Website.

Advantages:
- Extremely powerful and scalable.
- Cross-platform.
- Most Java server plugging are free for personal and development purposes.

Drawbacks:
- Java takes a lot of work to learn. Don't even start if you're not serious about learning object oriented programming.
- Most Java server plug-ins must be paid for if they are to be used to host a commercial Web site.

Target Developer:
Serious developers who want the ultimate in power, flexibility and scalability for their Web applications, and don't mind paying for it in sweat, tears and development time.

2.4 *Macromedia ColdFusion (CFM) –*

ColdFusion is a tag-based scripting language similar to HTML. The latest version of Cold Fusion features a built-in library of over 300 tags and the ability to add custom tags with more traditional programming languages like C/C++ and Java. Cold Fusion 5.0 includes tags that automatically generate graphs from database data, seamlessly provide search facilities on your Website, and generate HTML forms with full JavaScript validation code.

Like ASP, Cold Fusion is a commercial server platform, which means it will cost you money to run it whether you set up your own server or rent space on a Web hosting provider. Unlike ASP, however, Cold Fusion is not tied to the Windows platform.

Advantages:

- Extremely easy to learn
- Powerful and very scalable (latest version has support for both software- and hardware-based server clustering).
- Professional Support from Macromedia.
- Cross platform.

Drawbacks:

- Expensive to set up your own server: Cold Fusion Server Professional 5.0 costs $1,295
- Programmers may not like the tag-based development methods.
- It really isn't programming, and what started out as simple, very quickly gets incredibly messy. So, tag-based languages make getting started with web-scripting pretty easy, but they make complicated procedures/processes hard to support
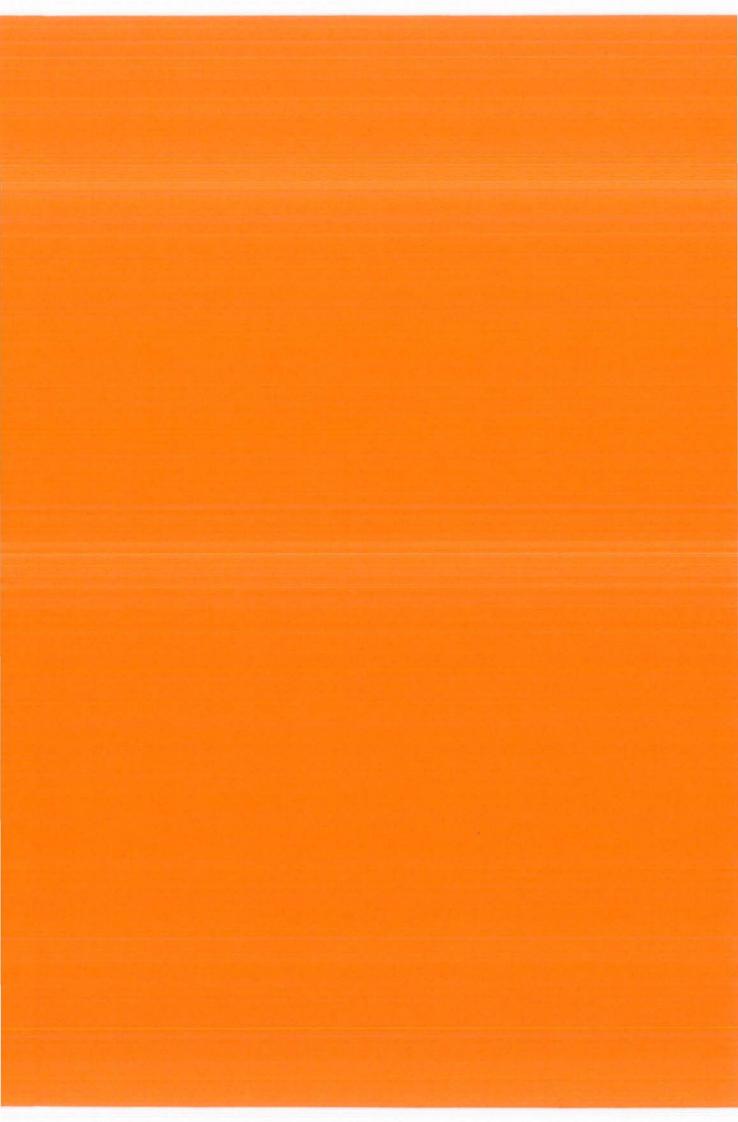
Target Developer:

ColdFusion will be easy to use for Web designers who are familiar with HTML and who wish to obtain server-side skills without having to learn a programming language. Learning Cold Fusion is just like learning some new tags. Non-designers will appreciate the neatness of server-side programming with tags.

2.5 Comparative matrix of scripting languages

Scripting Language	Cost	Language	Web Servers	Db Drivers	Complexity vs. HTML
PHP	Free	Perl-like	Apache, Sun, IIS	ODBC or native drivers	2
ASP	Free	Perl-like	Apache[3], IIS	ODBC	2
JSP	Free	Java-like	Apache, Sun, IIS	JDBC	3+
ColdFusion	$799+	Tag-based	Apache, Sun, IIS	ODBC or native drivers	1+

(1 = relatively easy; 4 = difficult)

3 Choosing a Database:

3.1 Why Use a Database?

As I mentioned earlier, there are a myriad of uses for databases. I'm sure it is easy to imagine all of the uses for a database on a commercial web site like an online shopping centre . You could store visitor information for logging in, purchase information, order logs, bookkeeping information, company reports, pricing structures, account information and the list goes on.

If you could create a database driven checkout system, calendar of events and community contacts you could save yourself a ton of time by letting your users do the updating instead of you through some simple web forms that you create and then use your database to update your pages automatically.

3.2 What Types of Data bases are There?

DBMSs (Data Base Management Systems) come in many different shapes, sizes and flavors, however, there are two basic categories: Enterprise and Personal.

Enterprise DBMSs are designed primarily for use with corporations, governments and any other function that would require the database to handle large amounts of data coming in and out. Information Technology folks refer to this as **scalability** which simply means how well the database handles multiple simultaneous **transactions** (the handling of data). For example, a high scalability would mean that the database can handle everything from a few transactions an hour to thousands of transactions or more happening at the same time.

Personal DBMSs are generally *not* highly scalable. They are intended to be used as learning tools or in low demand situations like you may run into while working on your personal projects. Depending on the DBMS, you might even find good uses for a personal DBMS in small business. Many Enterprise DBMSs also have personal versions like Oracle that was mentioned above. Other companies produce separate products like Microsoft's Access which are very similar to their Enterprise product.

3.3 How Do I Know Which One is Best for Me?

Well, first you need to decide what your immediate needs are. Are you going to use this on a website that could potentially have hundreds of people accessing information at the same time? Then you need to estimate your future needs. How much do you think your website will grow?

Basically, the biggest limitation a DBMS will have is its scalability. For this example we have probably no more than twelve people accessing *all* of your database driven pages at the same time. Therefore, a personal DBMS like Microsoft's Access will probably fit the bill since it can handle up to around 25 concurrent users. This will also leave plenty of room for future growth.

3.4 How Do I Connect to a Database?

What the heck do you mean connect? Connecting to a database is basically what you would think. It establishes a connection between your application (in this case one of your web pages) and the database itself so that commands and data can be passed back and forth.

Depending on what database you choose, there are a few different ways that you can connect. Most of your major Enterprise DBMSs allow you to connect using an IP address, a database name, a valid user name and password.

You can also use a **DSN** (Data Source Name) which is something that is set up by you or your hosting service on your server. You can think of the DSN as a sort of map to your database.

Although the basic principles pretty much remain the same, each DBMS handles connectivity differently. And not only are the DBMSs different but so are the programming languages that you can choose to use. For example, the code you need to create a connection in Java is quite different from the code you would use in **ASP** (Active Server Pages).
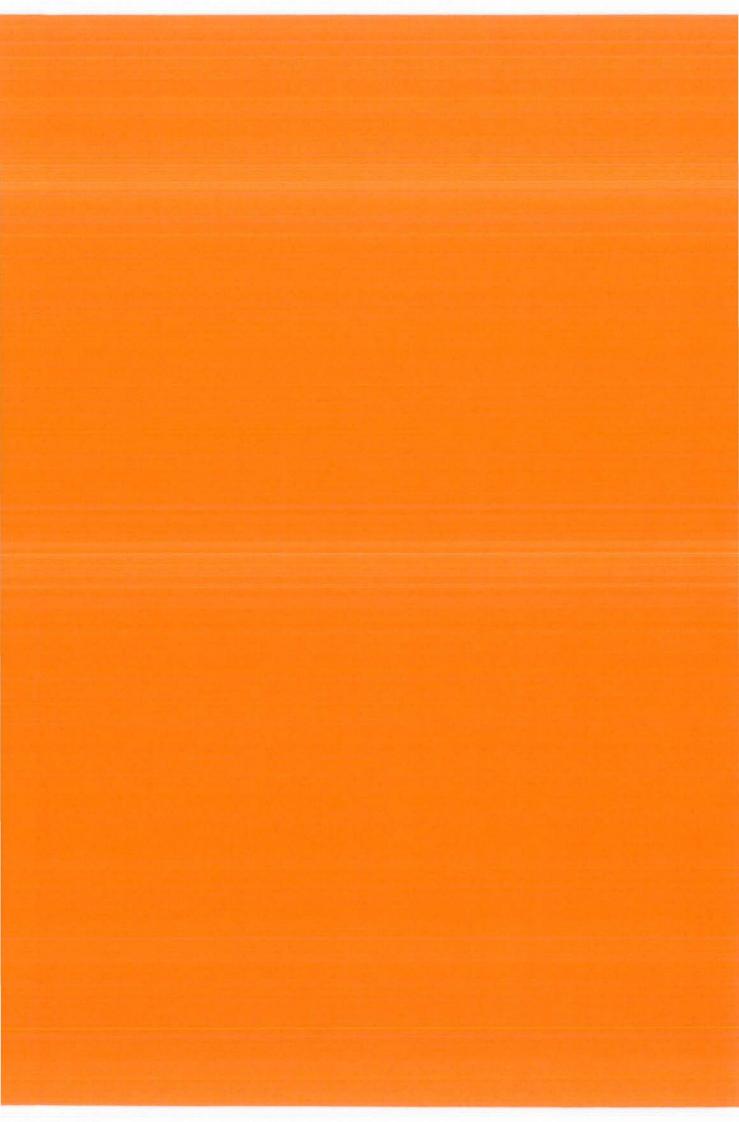
3.5 How Do I Use the Database Once I am Connected?

First, you will need to learn a language like ASP that will allow you to manipulate your pages with the information you have stored in your database.

Second you will need to learn some basic **SQL** (Structured Query Language) commands which are the commands that allow you to "talk" to the DBMS. This will allow you to add, delete, update and retrieve the information you need. Only certain languages support database connectivity. Probably the most popular language in use on the web these days is ASP. ASP allows you to create pages that are dynamic and easily maintained.

Here is the summary some DBMSs:-
- **Oracle**
- **Microsoft's SQL Server**
- **Access 2002**
- **DB2**

4   What Constitutes E-Commerce?

Many may not know, but e-commerce is defined as when one conducts business activities online. These business activities include shopping, investing, banking, or any other business transaction that use electronic data interchange.

4.1 How Popular Is E-Commerce?

E-commerce is gaining tremendous interest throughout the world. Each year individuals and business consumers purchase more goods and services online due to its ease of use. It is being predicted that over the next few years the business on internet will increase. This is predicted that the online busness will increase in billions of US Dollar , with these numbers in mind, it is easy to see that E-commerce is going to continue to be a major player in the nations economy.

4.2 Types of E-Commerce

There are 3 different types of e-commerce, and they are as listed below:-

a.   Business to consumer(B2C)
b.   Consumer-to-consumer(C2C)
c.   Business-to-business(B2B).

4.3 B2C E-commerce

B2C E-commerce is essentially the sale of goods to the general public via the internet. B2C E-commerce occurs globally and instantaneously which results in businesses and consumers to save money. An example of business to consumer E-commerce is a clothing store such as the **Banana Republic** . E-commerce stores have a vertual storefront in which any item you can buy at a store is available online.

4.4 How Does B2C Work?

First, A perspective consumer visits an online storefront, which contains descriptions of products, graphics that may contain pictures of the products, and a shopping cart. A shopping cart allows the customer to collect and keep track of their potential purchases until they are ready to checkout. Once ready to purchase, or checkout,the consumer enters personal and credit card information through a secure Internet connection. Finally, within weeks you will have your product delivered to your door.

4.5 C2C E-Commerce

C2C e-commerce is an alternative to B2C. Simply put, it allows consumers to purchase goods from one another. An example of this is an online auction, such as Ebay.

4.6 How does C2C work?

First, a perspective customer visits an online auction site and selects a category of interest. Next, a product is selected, and in many instances is bided on. These bids must often be completed within a certain time constraint set by the seller. Finally, once time has expired the item is auctioned off and is sent to the highest bidder.

4.7 B2B E-Commerce

B2B e-commerce is the most prevalent type of e-commerce. B2B e-commerce is when businesses provide goods and services to other businesses, these goods and services may consist of online advertising, job recruiting, credit, sales, market research, technical support, and different types of training. An example of an online advertising site is the **Omm group.**

4.8 How does B2B work?

B2B essentially means businesses are helping businesses. An example of how B2B works is when a business contacts a marketing group, such as the Omm group, becuase they want to advertise for their particular company or maybe a product they develop. Then people like the Omm group send your product information all over the web to inform other companies about your product.

4.9 Advantages of E-Commerce

✓ Larger market and more options for consumers. This creates more market competition, thus driving down prices and forcing better retail practices.

✓ Don't have to leave home and fight traffic...delivered to door

✓ In many cases, a larger selection is available.

✓ Consumers are able to research a product and its competetors more thoroughly before purchase and compare many prices from different retailers.

✓ No sales tax.

✓ Open 24 hours a day / seven days a week, which is very beneficial to those who can not find time to go to a store and for those who just want to shop whenever they feel like it.

✓ Don't have to deal with the sales atmosphere.

✓ More friendly: no rude salespeople who ignore customers

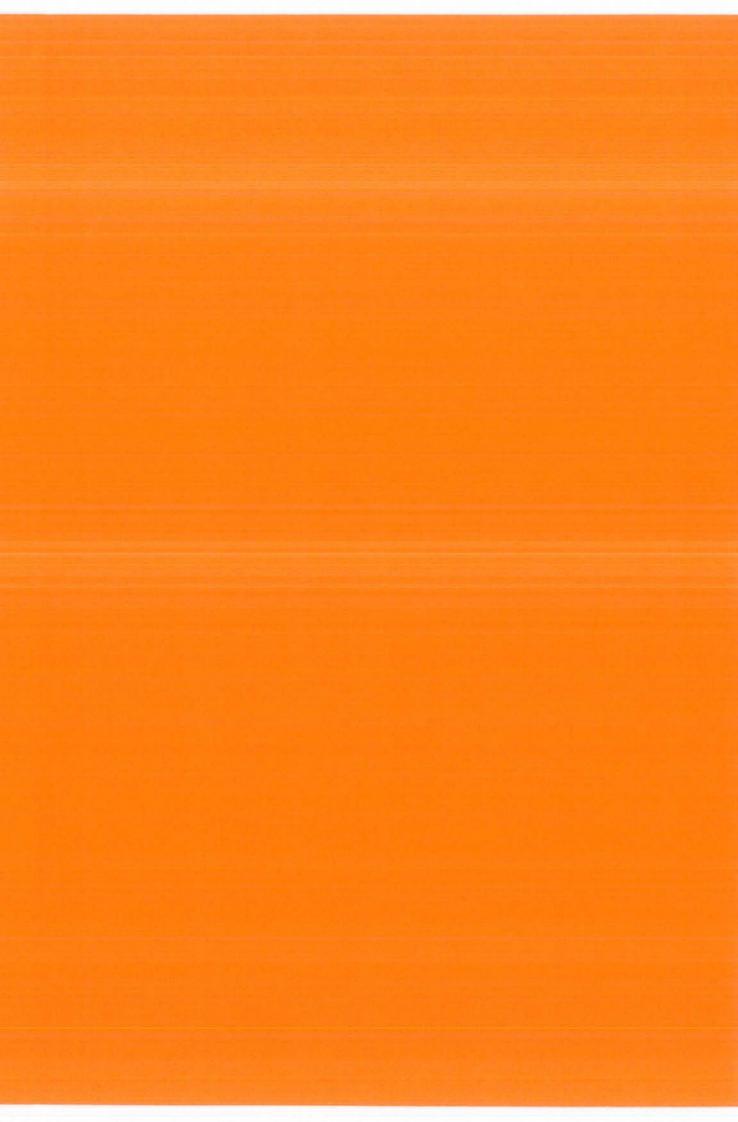✓ Can find what you are looking for a the touch of a button - sizes, colors, etc

4.10 Disadvantages of E-Commerce

- Waiting for a shipment to arrive in the mail
- Shipping Charges
- Lack of confidence in personal information transfer on-line
- Ease of fraudulent retailers and sites. The fluctuation and instability of Internet retailers makes it difficult for new retailers to establish a reputation because many do not survive. Therefore, there is a lack of confidence that exists in trusting Internet retailers.
- Lose the traditional shopping experience and the instant gratification that many really enjoy.
- Lack of taxes reduces the tax revenues that states and cities might otherwise collect from traditional retailers.
- Traditional retail stores are at a disadvantage to Internet retailers due to the lack of Internet sales tax.
- Many are still to computer-illiterate to take advantage of this avenue of commerce

5 Requirement Analysis and Specification

The requirements for our projects are stated as under:

1. System would be able to maintain records of different products. Products are divided into different main categories that are further divided into sub categories.

2. System would be able to manage the records of all the products. A product identification number recognizes each product.

3. System would be able to keep all the information related to different items e.g. color, price, category, sub-category, quantity, etc.

4. System would be able to add or delete a product at any time. Products can be entered or left the system at any time. System should support these changes.

5. System would be able to keep record of the suppliers of all the products.

6. System would be able to maintain record related to personal information of all the customers who shopped at our site.

7. System would be able to maintain record related to the shopped items of all the customers.

8. System would be able to generate unique login ids automatically for each customer visiting our site.

9. System would be able to check whether or not a customer has provided complete information that is of our interest and it should provide an error message in case an incomplete data is provided.

10. System should provide an interface to the administrator by which he can add, delete, view and update products.

11. Administrator should be provided with a login and password by which he would be validated to perform above mentioned inventory operations.

12. System would be able to verify customer's credit card against the valid format of a specific credit card from common credit card companies like Master Card, American Express, and Visa Card etc.
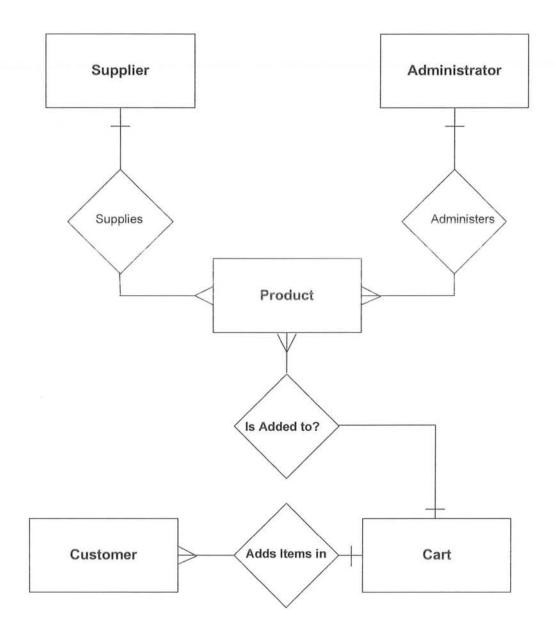
6 Design

This section explains database design for our site. Design of the site has been explained using graphic data like ERD & DFD. A separate section is dedicated to data dictionary also. Different interfaces are also shown to demonstrate the functionality of the site more clearly and precisely.
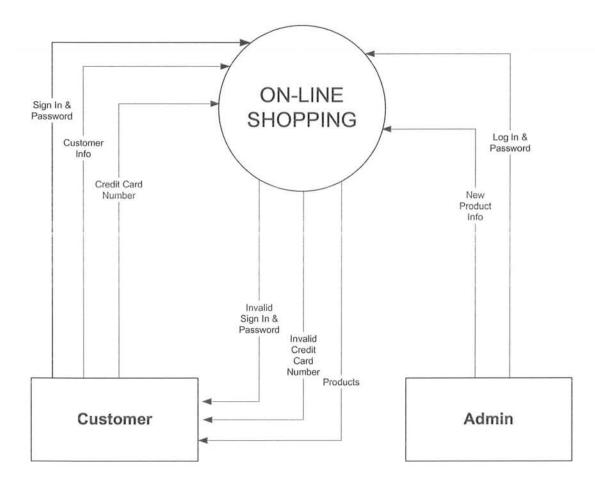
6.1 ERD

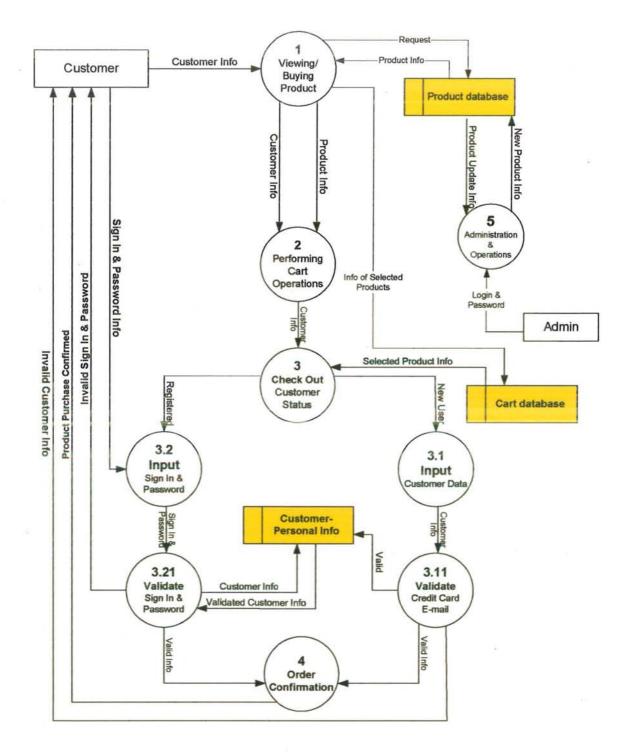The Entity Relationship Diagram for our system is given below:

6.2 DFD

Data Flow Diagrams for the system are given below. First, we have a zero level diagram or the context diagram. Then there is level one diagram, followed by level two diagrams. No process in our system was such that it could be split till more than two levels.

6.3 Context Diagram

Sign In &
Password

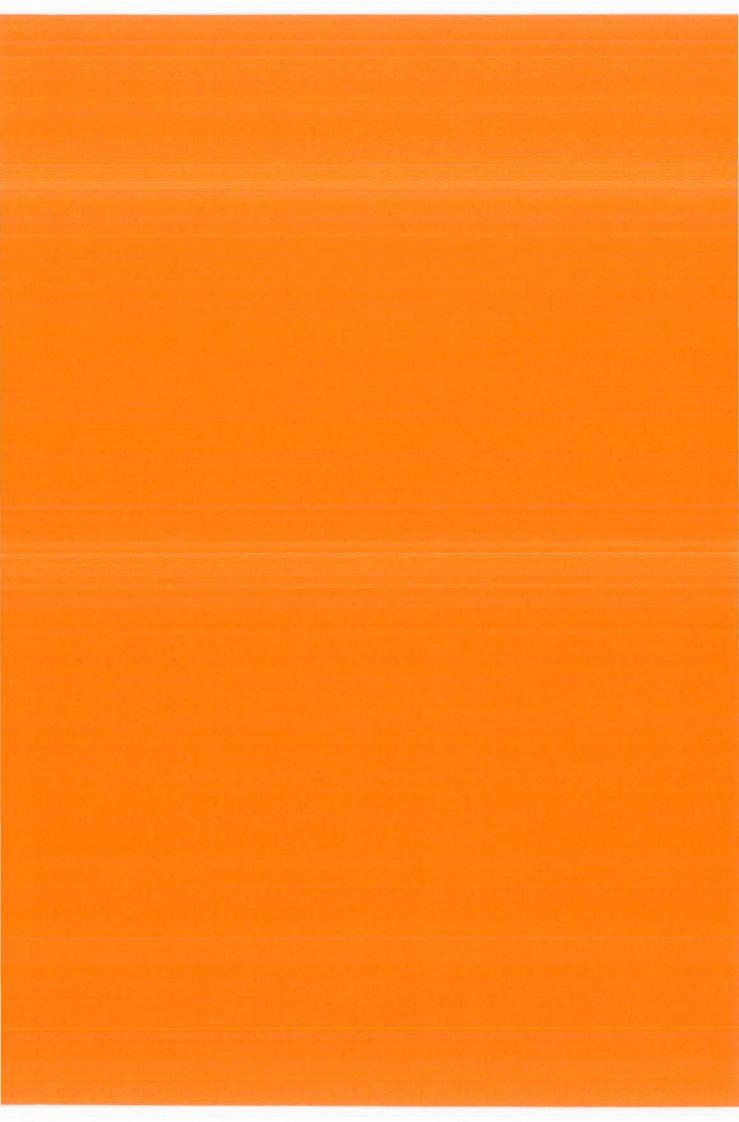Customer
Info

Credit Card
Number

ON-LINE
SHOPPING

Log In &
Password

New
Product
Info

Invalid
Sign In &
Password

Invalid
Credit
Card
Number

Products

Customer

Admin
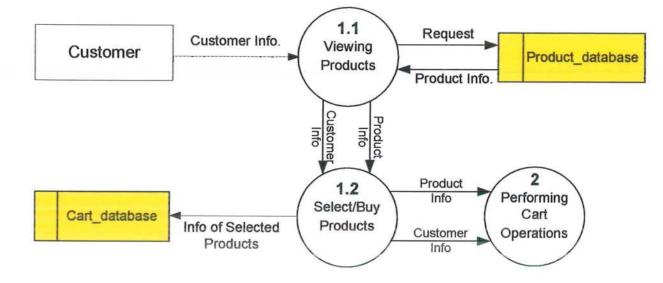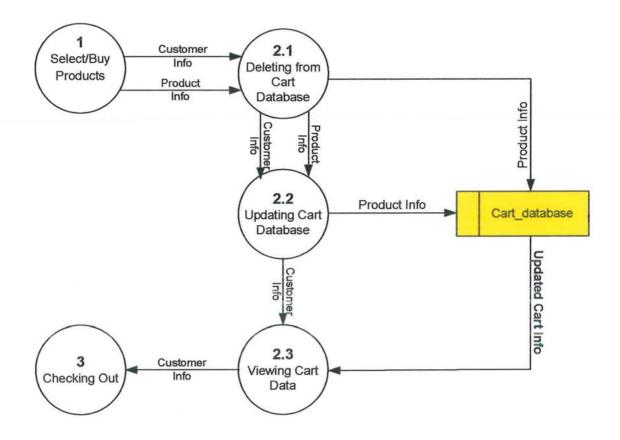
6.4 Level One Diagram
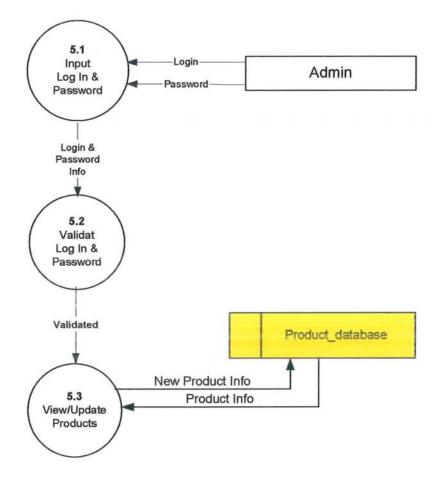
6.5 Level Two Diagram for Process One

6.6 Level Two Diagram for Process TWO
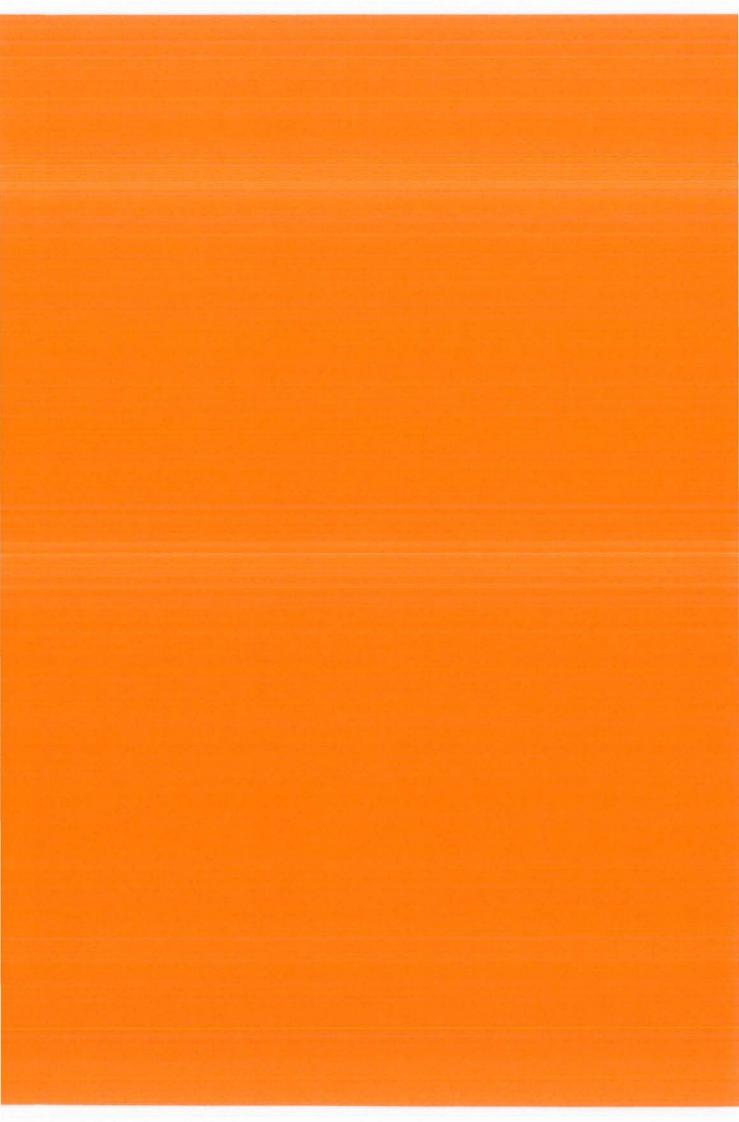
6.7 Level Two Diagram for Process FIVE

7 Data Dictionary

Table Name	Field Name	Data Type	Field Size	Remarks
Cart_Database	Customer_id	Number	Long Integer	PK
Cart_Database	Product_id	Text	15	PK
Cart_Database	Category	Text	30	
Cart_Database	Quantity	Number	Long Integer	
Cart_Database	Cost	Number	Long Integer	
Cart_Database	Date	Date/Time	Date	
Product_info	Product_id	Text	15	PK
Product_info	Category	Text	30	
Product_info	Quantity	Number	Long Integer	
Product_info	Cost	Number	Long Integer	
Product_info	Administrator_id	Text	15	FK
Product_info	Supplier_id	Text	15	FK
Product_info	Date_of_arrival	Date/Time	Date	
Supplier_info	Supplier name	Text	30	
Supplier_info	Supplier_id	Text	15	PK
Supplier_info	Location	Text	30	
Supplier_info	Category	Text	30	
Admin	Login	Text	15	
Admin	Password	Text	15	
Admin	Administrator_id	Text	15	PK
Admin	Name	Text	30	
Client_info	Fname	Text	15	
Client_info	Lname	Text	15	
Client_info	Address	Text	50	
Client_info	Email	Text	30	
Client_info	Phone	Number	Long Integer	
Client_info	City	Text	30	
Client_info	Zip Code	Number	Long Integer	
lient_info	Country	Text	30	
Client_info	Card Type	Text	20	
lient_info	Card Number	Number	Long Integer	
Client_info	E_date	Date/Time	Date	
Client_info	Total Bill	Number	Long Integer	
Client_info	Customer_id	Number	Long Integer	PK

<u>User Interfaces</u>

See Appendix B

8 Implement and Test

This is perhaps the most important section of any document. It includes the cream of our project i.e. the actual code. We have used ASP (Active Server Pages) to develop this site. HTML (Hyper Text Markup Language), Flash, Dream Weaver and Front Page have also been used in development and decoration of our site.

On the backhand, we have used a database made in Microsoft Access. For developing our site, we have written a lot of code. Due to this large amount of coding effort, it is literally impossible for us to write each and every line of code here in this document. So, for a sample, we are printing a few of the pages here. The pages having very similar code are skipped and in such cases, only one of these pages is printed.
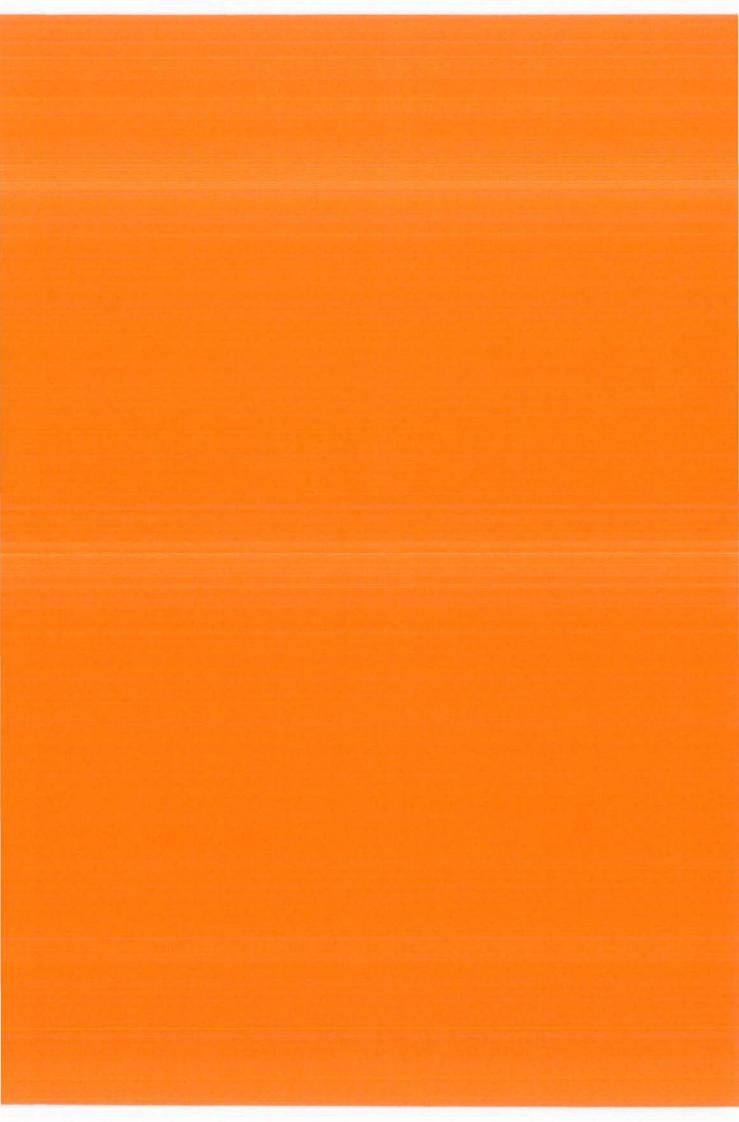
Implementation

See Appendix A

Tests

For our project we have performed following tests:

- **Unit Testing:** Program level testing was carried out according to the Unit Test Specifications. Every new page developed was tested for functionality.

- **System Testing:** System level testing was carried out according to the System Test Specifications. Here the interrelationship between the pages as well as the functionality of the program was tested. This was a two-phase activity where in the first phase first group member tested the system followed by the final testing carried out by the other group member.

- **Acceptance Testing:** Software acceptance is to be carried out according to the acceptance test plan.

- **Regression Testing:** After any changes are made in the software at any phase of testing, the software was subjected to regression testing whereby it has to be ensured that all the functionalities, which were there before the changes were made, are still all right.

9 Conclusions

It was a very exciting experience to work on an online shopping project. We have fully utilized the knowledge that we have gained in our Web Programming and Database Courses. We have, in fact, improved our Web Programming skills while working on this project. This project was interesting on one side and challenging on the other. All in all, this was a wonderful exercise to implement our knowledge of theory to develop a full fledge, practical Internet site.

During the course of project, we have faced a lot of difficulties but with our determination and continuous hard work, we have managed to overcome these difficulties. Lastly, we are happy that at the twilight of our PGD course, we have managed to work on a practical field of Computer Science and hopefully, this work will go a long way in helping us during our life as computer professionals.
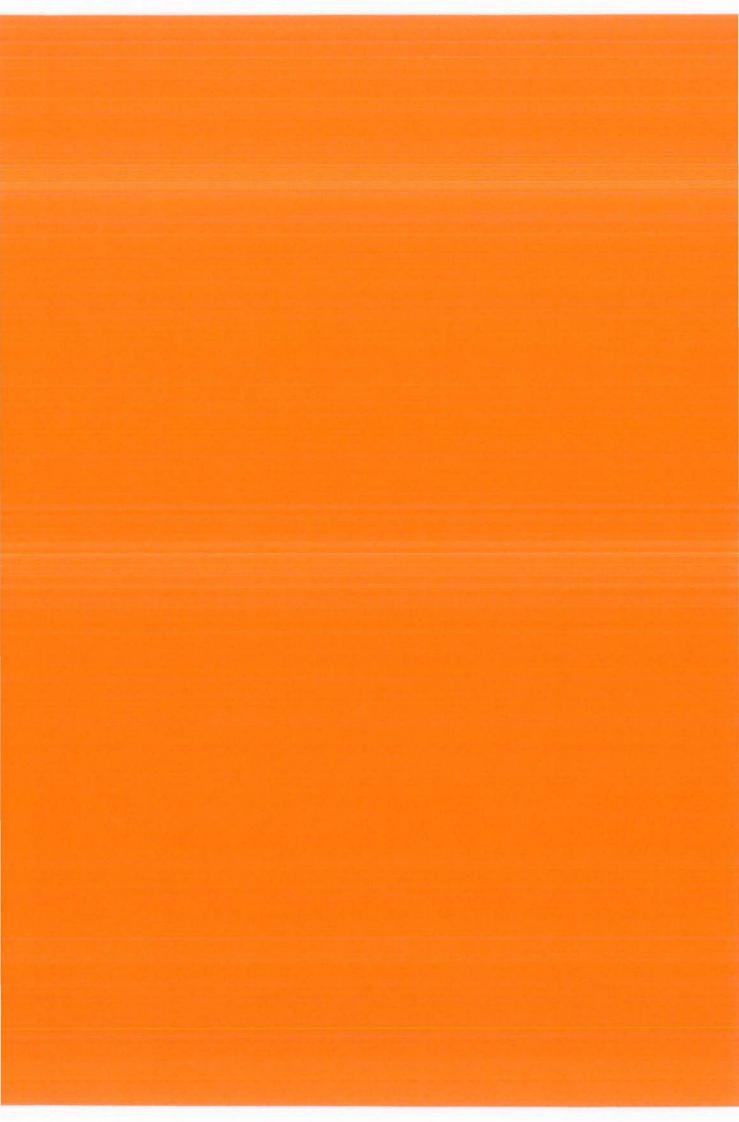
10 References

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  An Introduction to Database Systems
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- http://www.smartdraw.com/resources/centers/software/dfd.htm
- http://www.ifi.uio.no/in219/verktoy/doc/html/doc/user/mg/dgmedit.html
- http://www.studyict.com/alevelict/data_flow_diagram.htm
- http://www.dragonstrike.com/icleal/dfd/index.htm
- http://radu70.multimania.com/bestVB.htm
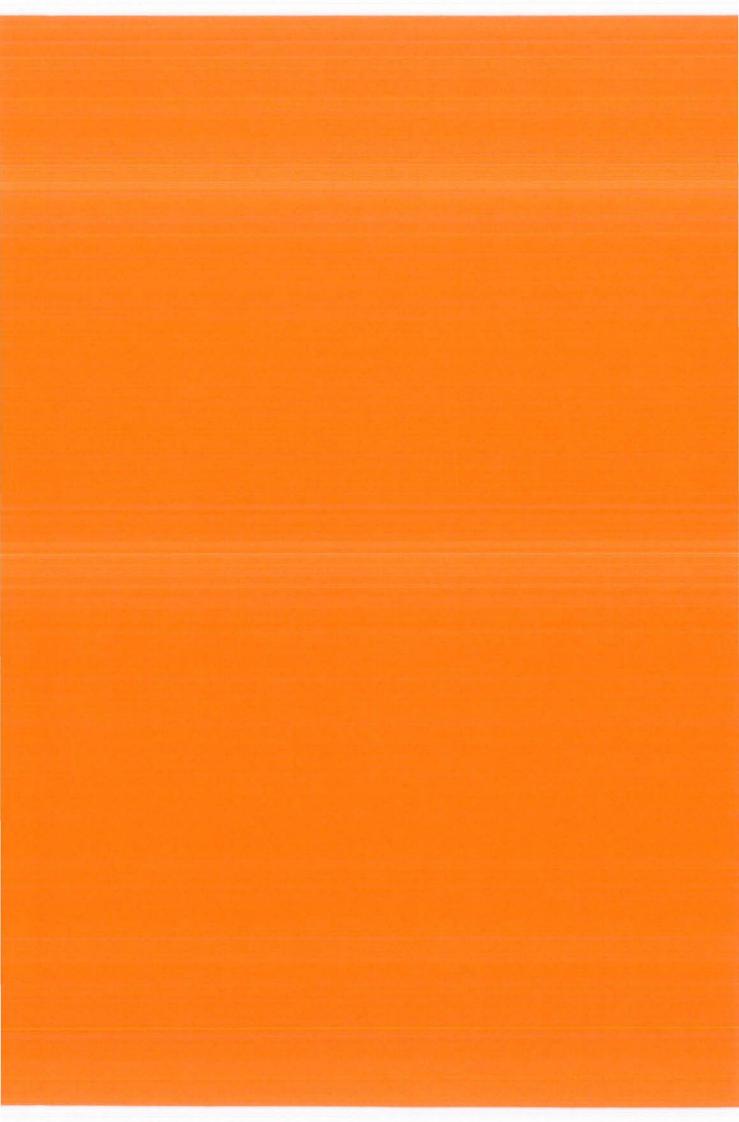- http://www.cpromptguru.com/JSOFUserManFrame.htm

- http://www.cpromptguru.com/JSOFUserMan_AutomatedCCProcessing.htm

11 Appendices

Appendix A: Source Code Listing
ASP Source Codes
HTML Source Codes
Appendix B: USER MANNUAL

Appendix A

SOURCE CODE LISTING

Appendix A: Source Code Listing

11.1   *Active Server Pages*

1) <u>ADMIN.ASP</u>
2) <u>adminlogin.asp</u>
3) <u>adrotatorhomepage.asp</u>
4) <u>adrotatorredirector.asp</u>
5) <u>adrotatorviewhit.asp</u>
6) <u>changepass.asp</u>
7) <u>checkpass.asp</u>
8) <u>connect.asp</u>
9) <u>connection.asp</u>
10) <u>connection1.asp</u>
11) <u>connection2.asp</u>   ▲
12) <u>Deletenext.asp</u>
13) <u>display_bracelets.asp</u>
14) <u>displayfinal.asp</u>
15) <u>FINAL.ASP</u>
16) <u>finalnext.asp</u>
17) <u>FRAMES.ASP</u>
18) <u>GLOBAL.ASP</u>
19) <u>Home.asp</u>
20) <u>INVALID.ASP</u>
21) <u>inventoperate.asp</u>
37) <u>SELECT.ASP</u>
38) <u>Selection.asp</u>
39) <u>signinform.asp</u>
40) <u>TEST.ASP</u>
41) <u>validatemin.asp</u>
42) <u>view_product.asp</u>
22) <u>VIEWCART.ASP</u>

ADMIN.ASP

```asp
<%  Response.buffer=true

                    dim myconn, myqry, myrs, errstr

                    session("login")=request.form("login")
                    session("password")=request.form("passwrd")
                    errstr=""

          response.write"<body bgcolor=silver
text=marroon><br><br><br><center><table>"

  if  session("login")="" then
          errstr= "<tr><td align=left><li>Please provide your Login
</td></tr><br>"
  end if




  if session("password") = "" then
          errstr= errstr & "<tr><td align=left><li>Please provide your
Password</td></tr><br>"
  end if



  if len(errstr)>0 then
          response.write errstr
          response.write("<form action=adminlogin.asp method=post><tr><td
align=left><br><br>        &nb
sp;           &
nbsp; <input type=submit value='Back' name='back' style='font-size:
10pt; font-family: Verdana; border: 1px solid #6699CC; background-color:
#E7EFFA ;width:80; height:25'></td></tr></table></center></body>")
          response.end
else


                    set myconn=server.createobject("ADODB.connection")
                    set myrs=server.createobject("ADODB.recordset")

                    myconn.open("cartDSN")

                    myqry="Select * from admin   "

                    myrs.open myqry,(myconn)

                    bcheck=0

    do while not myrs.eof

  if  myrs.fields(0)= session("login") and
myrs.fields(1)=session("password") then

                    bcheck=1

  end if

    myrs.movenext
    loop

  if bcheck=0 then

                    response.redirect("checkadmin.html")
    else
```

```
                response.write "<html><body
background=bg2.jpg><center><table border=0 cellspacing=0 width=600>"
                response.write "<form method=post action=select.asp>"
                response.write "<tr><td><hr  size=3></td></tr><tr><td
height=40></td></tr>"
                response.write "<tr><td align=center height=35><input
type=submit value= EnterNewProduct  name= intake style='font-size: 10pt;
font-family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:160; height:25'></td></tr>"
                response.write "<tr><td align=center height=35><input
type=submit value= UpdateAProduct   name= intake style='font-size: 10pt;
font-family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:160; height:25'></td></tr>"
                response.write "<tr><td align=center height=35><input
type=submit value= DeleteAProduct   name= intake style='font-size: 10pt;
font-family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:160; height:25'></td></tr>"
                response.write "<tr><td align=center height=35><input
type=submit value= ViewAllProducts  name= intake style='font-size: 10pt;
font-family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:160; height:25'></td></tr>"
                response.write "<tr><td height=40></td></tr>"
                response.write "<tr><td><hr
size=3></td></tr></form></table></center></body></html>"

   end if

   end if

%>
```

▲

adminlogin.asp

```
 <html>

<head>
<style>
<!--
  table          { font-size: 12pt; font-family: Comic Sans MS;  }

-->
  </style>

</head>

<body bgcolor=silver text=darkblue><center>
   <form action=admin.asp  method= post>
     <table><tr>
        <td   align= left >Login   </td>
        <td   align= left ><input type=text name=login
size=25></td></tr><br><br><br>
        <tr><td  align=
left>Password      </td><td  align= left
><input type=password  name=passwrd size=25></td></tr>
        <tr></tr>
         <tr></tr>
        <tr><br><br><td  align= left></td><td  align= center>
          <br><p><input type=submit name=Submit value=Submit   style='font-
size: 10pt; font-family: Verdana; border: 1px solid #6699CC; background-
color: #E7EFFA ;width:80; height:25'>
          </p></td></tr>
     </table>
   </form>
</center></body>
</html>
```

▲

adrotatorhomepage.asp

```
<html>

<head>
<base target="middle">

</head>

<body text="marroon" link="#ADD8E6" alink="#ADD8E6" vlink="#ADD8E6"
bgcolor="#3366CC"><center>
<%


Response.write ("<table border=0 cellpadding=2 cellspacing=10
width=700><center>")
Dim objAR
set objAR=Server.CreateObject("MSWC.AdRotator")
Response.write(objAR.GetAdvertisement("AdRotatorSchedule.txt"))


Response.write("</center></table>")
%>
</center></body>
</html>
```

▲

adrotatorredirector.asp

```
<html><body>
<%
        strurl=request.querystring("url")

        response.redirect(strurl)

%>

</body>
</html>
```

adrotatorviewhit.asp

```
<html>
<table>
<tr>
<td>ibmsystems</td>
<td><%=application("iibmsystems")%></td></tr>
<tr><td>funpages</td>
<td><%=application("ifunpages")%></td></tr>
<tr><td>patternrecog</td>
<td><%=application("ipatternrecog")%></td></tr>
</table>
</body>
</html>
```

changepass.asp

```
<%response.buffer=true
response.write("<font face='Comic Sans MS' size='3'
color='#800000'>        ")
response.write("You can change your password here</p>")
dim name,myconn,myqry,myrs

if Request.form("passnew")<>"" Then
name=session("n")
  set myconn=server.createobject("ADODB.connection")
            set myrs=server.createobject("ADODB.recordset")
              set myrs1=server.createobject("ADODB.recordset")
            myconn.open("cartDSN")
myqry="Select * from Client_info where signin='"& name &"'"
myqry1="Update client_info set password='"& Request.form("passnew") &"'
where signin='"& session("n") &"'"
myrs.open myqry,myconn
if (myrs("password")=Request.form("pass")) then
 myrs1.open myqry1,myconn

Response.Redirect("msgpassword.html")
else
Response.write("<center><font color=red>Incorrect Password </font>")
End If
else
Response.write("<center><font color=red>Please enter the new
password</font>")
End if%>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
<meta name="GENERATOR" content="Microsoft FrontPage 4.0">
<meta name="ProgId" content="FrontPage.Editor.Document">
</head>

<body bgcolor=silver> 
<p>
```

36

```
<p><center></p>
<font color=maroon size=2>
<table>
<tr>
<td align=center>
<form method="POST" action="changepass.asp">
   <p> </p>

  <p> </font><font size="2">Sign
In         <input type="text"
name="name1" size="20" value="<%=session("n")%>" onfocus=blur()></font></p>
  <p><font size="2"> Old Password <input type="password" name="pass"
size="20"></font></p>
  <p><font size="2">  New password</font><font color=maroon size=2><b>
</b> <input type="password" name="passnew" size="20">
  <p><input type="submit" value="Submit" name="B1"><input type="reset"
value="Reset" name="B2"></p>

  <p> </p>
</form>
</td> </tr></table> </body>
</html>
```

▲

checkpass.asp

```
<%Response.buffer=true%>
<html>
<head>
<title>Untitled Document</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
</head>

<body bgcolor="#FFFFFF" text="#000000">
<%
dim name,myconn,myqry,myrs
name=Request.form("name1")
  set myconn=server.createobject("ADODB.connection")
           set myrs=server.createobject("ADODB.recordset")
           myconn.open("cartDSN")
myqry="Select * from Client_info where signin='"& name &"'"
myrs.open myqry,myconn
if (myrs.eof) then
Response.Redirect("signinform.asp?mssg=Invalid User")
elseif (Request.form("pass")<>myrs("Password")) Then
Response.Redirect("signinform.asp?mssg=Incorrect Password")
else
session("n")=name
session("add")=myrs("add")
Response.redirect("final.asp")
End If%>
</body>
</html>
```

connect.asp

```asp
<%Response.buffer=true%>
 <!--#include file="connection.asp"-->

<%
     myrs.open myqry, myconn

  if not myrs.eof then

        response.redirect("invalidc.html")
  else

        response.write"<html><head><link rel='stylesheet' href= 'style.css'
type= 'text/css'></head><body><center><form action= displayfinal.asp method=
post>"
        response.write"<table><tr><td  colspan= 2 align=
left><font>Product_id:
</font>          &nb
sp;   " & productnum & "</td></tr><br>"
        response.write"<tr><td colspan= 2 align= left><font>Cost:
</font>           &nb
sp;           &
nbsp;          " & pcost &
"</td></tr><br>"
        response.write"<tr><td  colspan= 2  align=
left><font>Quantity</font>   <input type= text name= qty
maxlength=3></td></tr><br><br><br><br>"
        response.write"<tr><td  colspan= 2  align= left><input  type=
hidden  name= tcost  value= " & pcost & "></td></tr>"
        response.write"<tr><td  colspan= 2  align= left><input  type=
hidden  name= pr_id  value= " & productnum & "></td></tr>"
        response.write"<tr><td  colspan=2 align=center><input type=submit
name=send value=submit style='font-size: 10pt; font-family: Verdana; border:
1px solid #6699CC; background-color: #E7EFFA ;width:80;
height:25'></table></form></center></body></html>"

  end if
%>
```

connection.asp

```asp
<%
        Dim myqry, myrs, myconn, productnum, pcost
        productnum=Request.form("prod_id")
        pcost=request.form("cost")

        set myconn=server.createobject("ADODB.connection")
        set myrs=server.createobject("ADODB.recordset")
        myconn.open("cartDSN")
        myqry="select * from cart_database where Customer_id= " &
session("id") & " and Product_id=' "& productnum & "'"

%>
```

connection1.asp

```
<%
          dim myrs, myconn, Total_cost, todate, Product_ID, prcost, quantity
           prcost = request.form("tcost")
           Product_ID = request.form("pr_id")
           quantity = request.form("qty")

 if quantity  = "" then
              errstr= errstr & "<tr><td align=left><li>quantity of
product</td></tr><br>"
              elseif isnumeric(quantity )=false then
              errstr= errstr & "<tr><td align=left><li>quantity in numeric
form</td></tr><br>"
end if

 if len(errstr)>0 then

          response.write"<body bgcolor=silver
text=marroon><center><br><br><br><br><br><table>"
          response.write "<tr><td align=center><font size=4>please enter the
following <font size=4><br>" & errstr&"</td></tr>"
          response.write("<tr><td
align=left><br>         &
nbsp;          &nbsp
; <input type=button onclick='javascript:history.back();' value='Back'
name='back' style='font-size: 10pt; font-family: Verdana; border: 1px solid
#6699CC; background-color: #E7EFFA ;width:80;
height:25'></td></tr></table></center></body>")
          response.end
else


            set myrs= server.createobject("ADODB.recordset")
            set myrs1= server.createobject("ADODB.recordset")

            set myconn= server.createobject("ADODB.connection")
            myconn.open("cartDSN")

 End if

            Total_cost =quantity * prcost
            todate = Now


%>
```

▲

connection2.asp
```
<%

dim myconn
set myconn=server.createobject("ADODB.connection")
myconn.open("cartDSN")

%>
```

▲

Deletenext.asp

```
<%                dim myqry, myqry1, myrs, myrs1, myrs2, myconn, count
      dim nArrINdex
                DIM tempErr
      prd_id=Request.form("prod_id")

                cust_id=session("id")
                set myconn=server.createobject("ADODB.connection")
                set myrs=server.createobject("ADODB.recordset")
                myconn.open("cartDSN")
                 set myrs1=server.createobject("ADODB.recordset")
                myqry1="DELETE * FROM cart_database WHERE Product_ID='" &
prd_id &  "' and Customer_id= " & cust_id &""
                set myrs1=myconn.execute(myqry1)
%>

<head>
<title></title>
</head>

<body bgcolor="#CCCCCC">

<br>
<br>
<br>
<br>
<br>
<br>
<br>

 <center>
The item has been deleted from your cart<br>
<a href="viewcart.asp">Back to Cart</a>
```

▲

display bracelets.asp

```
<!--#include file="connection1.asp"-->

<%

            myqry = "INSERT INTO cart_database VALUES(" & _
            session("id") & ",' " & Product_ID & " ','bracelet'," & _
        quantity & "," & Total_cost & ",'" & todate & "')"

        myrs.open myqry,myconn
            response.write" <html><head><link rel='stylesheet' href=
'style.css' type= 'text/css'></head><body><center><table><tr><td  colspan=4
align=center>Item has been added to your
cart</td></tr><br><br><br><br><br><br><br>"
            response.write"<tr><td  colspan=4 align=center><a
href=bracelets.asp><font><u>Back to
Shopping</u></font></a></td></tr></table></center></body></html>"


%>
```

▲

displayfinal.asp

```
<%Response.buffer=true%>   <!--#include file="connection1.asp"-->
<%
  dim first,Prod
first =Left(Product_ID,3)
Select Case first
Case "BLT"
     Prod="Bracelet"
Case  "BRD"
     Prod="Bridal Dress"
Case   "ERG"
     Prod="Earings"
Case "JNS"
      Prod="Jeans"
Case  "JPR"
     Prod="jaudpuri"
Case  "LJK"
       Prod="leatherjacket"
       Case  "LSH"
   Prod="Shirt"
Case  "NKL"
   Prod="Necklace"
Case  "QRP"
   Prod="Qurta Pajama"
Case  "RNG"
   Prod="Ring"
Case  "SHK"
   Prod="Shalwar Kameez"
Case  "SHT"
   Prod="Shirt"
Case  "SJK"
   Prod="Jacket"
 Case  "SJK"
   Prod="Jacket"
Case  "SUT"
   Prod="Suit"
Case  "SWZ"
   Prod="Sherwani"
Case  "TIE"
   Prod="Tie"
Case  "TRS"
   Prod="Trouser"
    Case  "TSH"
   Prod="TShirt"
   Case  "WFD"
   Prod="Formal Dress"
     End Select
     myqry0="select * from product_info where Product_id='"& Product_ID &"'
"          myrs1.open myqry0,myconn
     if Cint(myrs1("Quantity_in_stock"))-50 < CInt(quantity) then
     Response.redirect("msgqty.html")
       else
          myqry = "INSERT INTO cart_database VALUES(" & _
          session("id") & ",' " & Product_ID & " ','"& Prod &"'," & _
     quantity & "," & Total_cost & ",'" & todate & "','null')"
          myrs.open myqry,myconn
          response.write"<html><head><link rel='stylesheet' href=
'style.css' type= 'text/css'></head><body><center><table><tr><td  colspan=4
align=center>Item has been added to your
cart</td></tr><br><br><br><br><br><br><br>"
          response.write"<tr><td  colspan=4 align=center><a
href=mainimage.html><font><u>Back to
Shopping</u></font></a></td></tr></table></center></body></html>"
end if
%>
```

▲

FINAL.ASP

```asp
<%
response.write ("<font size=4 color=marroon face=verdana>")

    response.write("Welcome ")
    response.write(session("n"))
    response.write("")
dim myqry,myrs,myconn

        session("total_cost")=0

        Set myconn=Server.CreateObject("ADODB.connection")
        Set myrs=Server.CreateObject("ADODB.RecordSet")

        myconn.open("cartDSN")

        myqry= "Select * from cart_database where Customer_id="&
session("id")  &""
        set myrs=myconn.execute(myqry)


    response.write ("<body bgcolor=silver><br><br><br>")
    response.write("<font color=black size=2>You have the facility to
<ul><li><a href='changepass.asp'>Change Password </a></li>")
    response.write("<li><a href='changeadd.asp'>Change Address
</a></li></ul>")
    response.write("<font  size=3><center><table border=0 cellspacing=7
width=500 >")
    response.write ("<tr><td align=center bgcolor=lightblue width=135
border=0><font color=marroon size=4>Product ID</font></td> <td align=center
bgcolor=lightblue width=155><font color=marroon size=4>Item</font></td><td
align=center bgcolor=lightblue width=100><font color=marroon
size=4>Quantity</font></td><td align=center bgcolor=lightblue width=90><font
color=marroon size=4>Price</font></td><tr>")
 while not (myrs.eof)

     response.write ("<tr><td align=left>"&myrs(1)&"</td><td
align=left>"&myrs(2)&"</td><td align=right>"&myrs(3)&"</td><td
align=right>$"&myrs(4)&"</td></tr>")

     session("total_cost")=session("total_cost")+myrs("cost")

 myrs.movenext

 wend
     response.write ("<tr><td height=15 colspan=3 align=right><font size=4
color=darkblue>Total cost:</td><td align=right><font size=4
color=darkblue>$"&session("total_cost")&"</tr>")

    response.write ("<form method=post action=finalnext.asp>")

    response.write ("<tr><td align=center colspan=4 ><input type=submit
name=choice value=submit ></td></tr>")

    response.write ("</form></center></body>")

    response.write ("</table>")
    %>
      
 <br>
 
```

▲

finalnext.asp

```asp
<html>

<head>
<meta http-equiv="Content-Type" content="text/html; charset=windows-1252">
<meta name="GENERATOR" content="Microsoft FrontPage 4.0">
<meta name="ProgId" content="FrontPage.Editor.Document">

</head>

<body bgcolor=silver>
<br>
<br>
<br>
<br>
  <%response.write("<font size=4 color=marroon face=verdana><center>")
  if session("total_cost")=0  then
  response.write "<font size=4 >Your cart is empty.<br>Please do shopping
first and then place your order</font>"
  else

  Dim myqry, myrs, myconn

            name=session("n")

            set myconn=server.createobject("ADODB.connection")
             set myrs= server.createobject("ADODB.recordset")
               set myrs1= server.createobject("ADODB.recordset")
set myrs2= server.createobject("ADODB.recordset")

myqry1="select * from cart_database where customer_id="& session("id")

            myconn.open("cartDSN")


 myqry="Update Cart_database set signin='"& name &"' where customer_id="&
session("id") &""
 myrs.open myqry, myconn
       myrs1.open myqry1,(myconn)
       while not myrs1.eof
          myqry2="update product_info set
Quantity_in_stock=Quantity_in_stock-"&myrs1.fields(3)&" where
trim(ucase(Product_id))='"&trim(ucase(myrs1.fields(1)))&"'"
          myrs2.open myqry2,(myconn)
       myrs1.movenext
       wend
response.write "Order confirmation<br>Your order has been registered and the
items will be delivered within two weeks</font><br><br><br>"


 session.Abandon()
 end if
%>


</body>

</html>
```

▲

FRAMES.ASP

```
<html>
<head>

</head>
<frameset cols="40%,60%">

<frame src="Qurta_pajama.asp">
<frame src="default.html" name="mainframe">

</frameset>
</html>
```

▲

GLOBAL.ASA

```
  <script language="VBscript" RUNAT="server">

Sub Application_OnStart

                application("id")=0

                session("id")=0

End Sub


Sub Application_OnEnd

End Sub

Sub Session_OnStart

                session("login")=""

                session("password")=""

application.lock

                application("id")=application("id")+1

application.unlock

                session("id")=application("id")
End sub


Sub session_OnEnd

                session("total_cost")=0.00

End sub

</script>
```

▲

Home.asp

```
<html>
<head>
</head>
<frameset rows="*" frameborder=0  >
<frameset cols="15%,*" frameborder=0  >
  <frame src="mainlinks.html" target="_blank" scrolling="no" marginwidth="0"
marginheight="0"  border=0 noresize>
  <frameset rows="13%,6%,*" frameborder=0>
  <frameset cols="*" frameborder=0>
    <frame src="adrotatorhomepage.asp" scrolling="no" target="_blank"
marginwidth="0" marginheight="0" name="addframe" border=0>
  </frameset>
  <frameset cols="*" frameborder=0>
    <frame src="logo.html" name="logoframe" scrolling="no" marginwidth="0"
marginheight="0" border=0 noresize>
  </frameset>
  <frameset cols="*" frameborder=0>
    <frame src="mainimage.html" name="frame4" scrolling="yes"
marginwidth="0" marginheight="0" border=0 noresize>
  </frameset>
  </frameset>
  <noframes>
  </noframes>
</frameset>
</frameset>
<frameset>
<noframes></noframes>
</frameset>
</html>
```

▲

INVALID.ASP

```
    <html>
<body bgcolor="silver" text="darkblue">




<center>
<font color=blue>The information you entered in incorrect, please go back
and re-enter</font>
<br>
<br>
<table><tr><td colspan=4>You have already bought this item.To change
quantity go to your cart and use the update option</td></tr><br><br>

<tr><td colspan=4 align=center><a href=viewcart.asp><font color=marroon size
=3><u>View Cart</u></font></a></td></tr><table>



</center>
</body>
```

▲

45

inventoperate.asp

```asp
<%

        response.write "<html><br><br><br><br><body
background=bg2.jpg><center><table border=0 cellspacing=0 width=600>"

        response.write "<form method=post action=select.asp>"

        response.write "<tr><td><hr  size=3></td></tr><tr><td
height=40></td></tr>"

        response.write "<tr><td align=center height=35><input type=submit
value= EnterNewProduct  name= intake style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:160;
height:25'></td></tr>"

        response.write "<tr><td align=center height=35><input type=submit
value= UpdateAProduct   name= intake style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:160;
height:25'></td></tr>"

        response.write "<tr><td align=center height=35><input type=submit
value= DeleteAProduct  name= intake style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:160;
height:25'></td></tr>"

        response.write "<tr><td align=center height=35><input type=submit
value= ViewAllProducts  name= intake style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:160;
height:25'></td></tr>"

        response.write "<tr><td><hr
size=3></td></tr></form></table></center></body></html>"



%>
```

▲

SELECT.ASP

```asp
<%
   select case request.form("intake")

    case "EnterNewProduct"
    response.redirect "new_product.html"

    case "UpdateAProduct"
    response.redirect "update_product.html"

    case "DeleteAProduct"
    response.redirect "delete_product.html"

    case "ViewAllProducts"
    response.redirect "view_product.html"
    case "ViewTodaysOrders"
    response.redirect "view_orders.html"
   end select
%>
```

▲

Selection.asp

```asp
<%

  select case request.form("choice")
  case "checkout"
    response.redirect "signinform.asp"
  case "update"
    response.redirect "update.html"
  case "delete"
    response.redirect "delete.asp"
  end select

%>
```

▲

signinform.asp

```asp
<html>

<head>
<title></title>
</head>

<body bgcolor="#C0C0C0">
<br>
<br>
<table>
<tr>
<td width=200 align=center> <font face="Comic Sans MS" size="3"
color="#006666"> If you are a new user <br>get</font><a
href="client_form.asp"><font color="#006666"> </font>
  <font face="Comic Sans MS" size="3"><font
color="#0000FF">registered</font></font><font
color="#0000FF"> </font></a><font size="4">
  <font face="Comic Sans MS" color="#006666">now</font></font></td>
<td width=400 align=center >
<form method="POST" action="checkpass.asp">
  <p> </p>
  <p><font color="#800000"><u>   <b><font face="Comic Sans MS"
color="#800000" size="5">For Existing Users</font></b></u></font></p>
  <p> </p><font color="Red"
size=4><%Response.write(Request.querystring("mssg"))%></font>

  <p><b>Sign In      <input type="text"
name="name1" size="20"></b></p>
  <p><b>Password</b> <input type="password" name="pass" size="20"></p>
  <p><input type="submit" value="Submit" name="B1"><input type="reset"
value="Reset" name="B2"></p>
  <p> </p>
  <p></p>
  <p> </p>
</form>
</td>
</tr>
</table>
</body>

</html>
```

▲

TEST.ASP

```
<%
set myconn=server.createobject("adodb.connection")
set myrs=server.createobject("adodb.recordset")
        myconn.open("cartDSN")
          myqry= "select * from cart_database"
          set myrs=myconn.execute(myqry)
while not myrs.eof
   response.write (myrs(0))
myrs.movenext
wend
%>
```

▲

validatemin.asp

```
<%
                    dim myconn, myqry, myrs, errstr
                    session("login")=request.form("login")
                    session("password")=request.form("pass")
                    errstr=""
            response.write"<body bgcolor=silver
text=marroon><br><br><br><center><table>"
  if  session("login")="" then
          errstr= "<tr><td align=left><li>Please provide your Login
</td></tr><br>"
  end if
  if session("password") = "" then
          errstr= errstr & "<tr><td align=left><li>Please provide your
Password</td></tr><br>"
  end if
     if len(errstr)>0 then
          response.write errstr
          response.write("<tr><td
align=left><br><br>         &nb
sp;           &
nbsp; <input type=button onclick='javascript:history.back();'
value='Back' name='back'></td></tr></table></center></body>")
          response.end
else
                    set myconn=server.createobject("ADODB.connection")
                    set myrs=server.createobject("ADODB.recordset")

                    myconn.open("AdminDSN")

                    myqry="Select * from admin "

                    myrs.open myqry, (myconn)

                    bcheck=0
    do while not myrs.eof
  if  myrs.fields(0)= session("login") and
myrs.fields(1)=session("password") then
                    bcheck=1
  end if
    myrs.movenext
    loop
  if bcheck=0 then
                    response.redirect("checkadmin.html")
  else
                    response.write "<html><body
background=bg2.jpg><center><table border=0 cellspacing=0 width=600>"
                    response.write "<form method=post action=select.asp>"
```

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```
                    response.write "<tr><td><hr  size=3></td></tr><tr><td
height=40></td></tr>"
                    response.write "<tr><td align=center height=35><input
type=submit value= EnterNewProduct  name= intake></td></tr>"
                    response.write "<tr><td align=center height=35><input
type=submit value= UpdateAProduct   name= intake></td></tr>"
                    response.write "<tr><td align=center height=35><input
type=submit value= DeleteAProduct   name= intake></td></tr>"
                    response.write "<tr><td align=center height=35><input
type=submit value= ViewAllProducts  name= intake></td></tr>"
                    response.write "<tr><td height=40></td></tr>"
                    response.write "<tr><td><hr
size=3></td></tr></form></table></center></body></html>"
   end if
   end if
%>
```
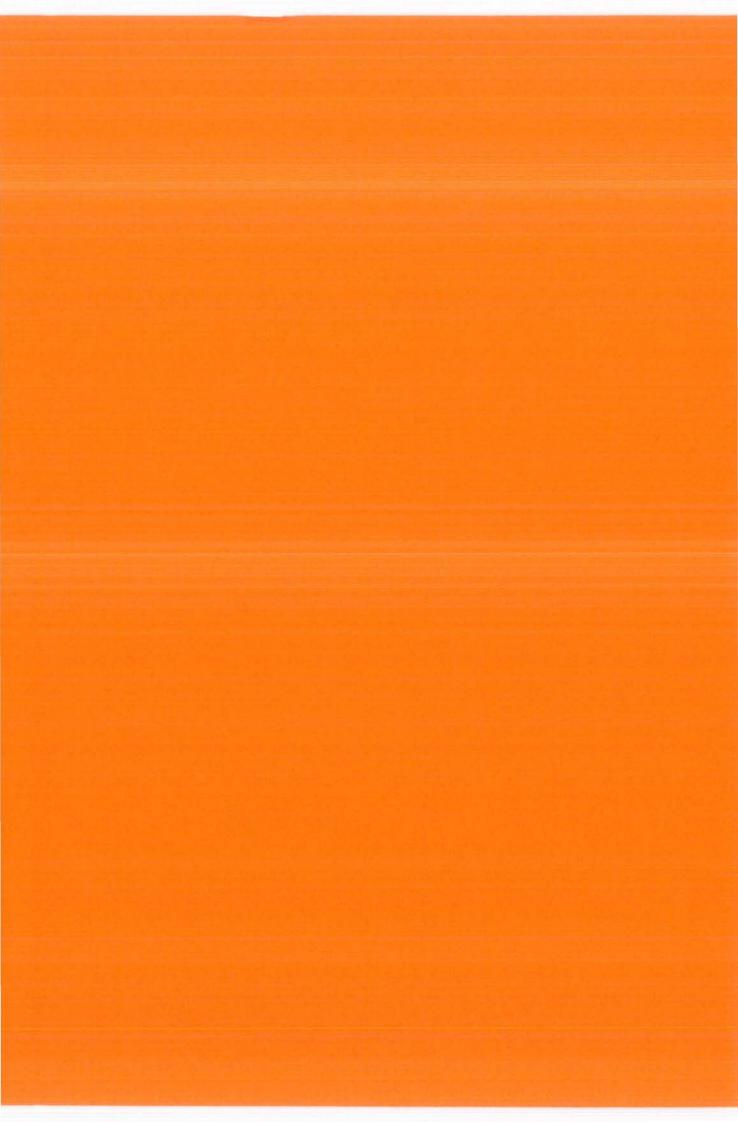
▲

view_product.asp

```
<!--#include file="connection2.asp"-->
<%
      product_categ=request.form("prod_categ")
if product_categ="" then
    response.write"<body bgcolor=silver><center><font color=marroon
size=4><tr><td><br><br><br><br><br><br><br>Please provide
category.</font></td></tr><br>"
    response.write "<tr><td align=left><br><input type=button
onclick='javascript:history.back();' value='Back' name='back' style='font-
size: 10pt; font-family: Verdana; border: 1px solid #6699CC; background-
color: #E7EFFA ;width:80; height:25'></td></tr></center></body>"
else
      dim myqry,myrs
      myqry="select * from product_info where trim(ucase(Category))= '" &
trim(ucase(product_categ))& "' "
      set myrs=Server.CreateObject("ADODB.recordset")
    myrs.open myqry,(myconn)
   if  myrs.eof then
          response.write "<body
bgcolor=silver><center><br><br><br><br><br><tr><td align=center
colspan=3><font color=marroon size=4><center>No item of this category in
store.<br> Try again.</font></td></tr><br><br>"
          response.write "<tr><td align=left><br><input type=button
onclick='javascript:history.back();' value='Back' name='back' style='font-
size: 10pt; font-family: Verdana; border: 1px solid #6699CC; background-
color: #E7EFFA ;width:80; height:25'></td></tr></table></center></body>"
   else
          response.write "<body bgcolor=silver><center><br><br><br><table
border=0 cellspacing=7 width=500 >"
          response.write "<tr rowspan=3><tr><td align=center
bgcolor=lightblue width=135 border=0><font color=marroon
size=4>Product_id</font></td> <td align=center bgcolor=lightblue
width=155><font color=marroon size=4>Category</font></td><td align=center
bgcolor=lightblue width=100><font color=marroon
size=4>Subcategory</font></td><td align=center bgcolor=lightblue
width=90><font color=marroon size=4>Quantity_in_stock</font></td><td
align=center bgcolor=lightblue width=90><font color=marroon
size=4>Cost</font></td><td align=center bgcolor=lightblue width=90><font
color=marroon size=4>Administrator_id</font></td><td align=center
bgcolor=lightblue width=90><font color=marroon
size=4>Supplier_id</font></td><td align=center bgcolor=lightblue
width=90><font color=marroon size=4>Date_of_arrival</font></td><tr>"
      while not (myrs.eof)
              response.write "<tr><td
align=left>"&myrs("Product_id")&"</td><td
align=left>"&myrs("Category")&"</td><td
align=right>"&myrs("Subcategory")&"</td><td
```

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```
align=right>"&myrs("Quantity_in_stock")&"</td><td
align=right>"&myrs("Cost")&"</td><td
align=right>"&myrs("Administrator_id")&"</td><td
align=right>"&myrs("Supplier_id")&"</td><td
align=right>"&myrs("Date_of_arrival")&"</td></tr>"
        myrs.movenext
        wend
            response.write "<form action=inventoperate.asp method=post><tr><td
colspan=8 align=center><br><input type=submit
value=PerformOtherInventoryOperations  name=back style='font-size: 10pt;
font-family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:235; height:25'></td></tr></form></table></center></body>"
    end if
end if
%>
```

▲

VIEWCART.ASP

```
<%
response.write ("<font size=4 color=marroon face=verdana>")


dim myqry,myrs,myconn
        response.write(session("id"))

        session("total_cost")=0

        Set myconn=Server.CreateObject("ADODB.connection")
        Set myrs=Server.CreateObject("ADODB.RecordSet")

        myconn.open("cartDSN")

        myqry= "Select * from cart_database where Customer_id="&
session("id")  &""
        set myrs=myconn.execute(myqry)


    response.write ("<body bgcolor=silver><center><br><br><br><table border=0
cellspacing=7 width=500 >")
    response.write ("<tr><td align=center bgcolor=lightblue width=135
border=0><font color=marroon size=4>Product ID</font></td> <td align=center
bgcolor=lightblue width=155><font color=marroon size=4>Item</font></td><td
align=center bgcolor=lightblue width=100><font color=marroon
size=4>Quantity</font></td><td align=center bgcolor=lightblue width=90><font
color=marroon size=4>Price</font></td><tr>")
 while not (myrs.eof)

     response.write ("<tr><td align=left>"&myrs(1)&"</td><td
align=left>"&myrs(2)&"</td><td align=right>"&myrs(3)&"</td><td
align=right>$"&myrs(4)&"</td></tr>")

     session("total_cost")=session("total_cost")+myrs("cost")

 myrs.movenext

 wend
    response.write ("<tr><td height=15 colspan=3 align=right><font size=4
color=darkblue>Total cost:</td><td align=right><font size=4
color=darkblue>$"&session("total_cost")&"</tr>")
    response.write ("<form method=post action=selection.asp>")

    response.write ("<tr><td align=center colspan=4 ><input type=submit
name=choice value=delete name=delete  style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:80;
```

```
height:25'>       <input type=submit
name=choice value=update  name=update   style='font-size: 10pt; font-family:
Verdana; border: 1px solid #6699CC; background-color: #E7EFFA ;width:80;
height:25'>     <input type=submit
name=choice value= checkout name=checkout   style='font-size: 10pt; font-
family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:80; height:25'></td></tr>")
     response.write ("</form></center></body>")

     response.write ("</table>")
%>
```

▲

Appendix A :   Source Code Listing

11.2   *HTML Pages*

▲

1)   chekadmin.html
2)   deldete.html
3)   deldete_product.html
4)   lolgo.html
5)   view_product.html
6)   womenwear.html

chekadmin.html

```html
<html>
<head>
<link rel='stylesheet' href= 'style.css' type= 'text/css'>
</head>
  <body bgcolor=silver>
<center>
<br>
<br>
<br>
 <p>
<br>
</p>

  <table height="68">
<tr>
<td align=center colspan=2 height="32">
<font size=4>Please try again.</font>
</td>
</tr>
  <tr>
<td align=center colspan=2 height="28">
  <form action=adminlogin.asp method=post>
<br>
<br>
<input type=submit value='Back' name='back' style='font-size: 10pt; font-
family: Verdana; border: 1px solid #6699CC; background-color: #E7EFFA
;width:80; height:25'>

    </td>
 </tr>
</table>
</center>
</body>
</table>
</body>
</html>
```

▲

deldete.html

```
<html>
<body bgcolor="silver" text="darkblue">
<center><br><br><br><br><br><br>
<% dim myconn,myqry
set myconn=server.createobject("ADODB.Connection")
set myrs=server.createobject("ADODB.Recordset")
myqry="select * from cart_database where customer_id="& session("id") &""
myrs.open myqry,myconn%>

 <form method="post" action="delete.asp">
<table border=0 cellspacing=10 cellpadding=0 width=577><center>

<tr align="justify">
<td colspan=2 width=340><hr size=3></td>
<td width=443> </td>
</tr>

<tr align="justify">
<td align=left   bgcolor=lightblue width=258><font size="4">Product
ID:</font></td>
<td width="186"><select name="Prod_id" size=1 style="float: right">
<%While not myrs.eof%>
<option value="<%response.write(myrs("prod_id"))%>"
><%response.write(myrs("prod_id"))%></option>
<%wend%>
</select>
</td>
<td width="283">
<p align="left">(e.g 'SUT-100' 
for Suit)</td>
</tr>
<tr align="justify">
<td colspan=2 align=center width=345><input type=submit value=submit
style='font-size: 10pt; font-family: Verdana; border: 1px solid #6699CC;
background-color: #E7EFFA ;width:80; height:25'></td>
<td align=center width=448> </td>
</tr>
<tr align="justify">
<td colspan=2 width=340><hr size=3></td>
<td width=443> </td>
</tr>
</center></table>
</form>
</center></body>
</html>
```

▲

deldete_product.html

```html
<html>

<body bgcolor="silver" link="silver" alink="silver" vlink="silver"
text=darkblue><center>

<form method="post" action="delete_product.asp">

<p> </p>
<p> </p>

<table border=0 cellspacing=10 cellpadding=0 width=275 height="104">

<tr>
<td colspan=2 width=313 height="52"></td>
</tr>

<tr>
<td colspan=2 width=294 height="37"><hr size=3></td>
</tr>

<tr>
<td align=left   bgcolor=lightblue width=185 height="9"><font
size="4">Product ID:</font></td>
<td height="9" width="141" align="center">
<p align="center"><input name="Prod_id" size=15 style="float: right"></td>
</tr>

<tr>
<td colspan=2 align=center width=294 height="5"><input type=submit
value=submit style='font-size: 10pt; font-family: Verdana; border: 1px solid
#6699CC; background-color: #E7EFFA ;width:80; height:25'></td>
</tr>
<tr>
<td colspan=2 width=294 height="1"><hr size=3></td>
</tr>

</table>
</form>
</center>
</body>
</html>
```

lolgo.html

```
<html>  <body>    <table>
    <tr><td colspan=3 width=900 height=40 bgcolor=#336699
align=center><font color=beige size=5 face=comic sans
ms>BeInStyle.com</font></td></tr>
   </table>  </body> </html>
```

view product.html

```
<html>

<body bgcolor="silver"  text=darkblue><center>

<form method="post" action="view_products.asp">

<p> </p>
<p> </p>

<table border=0 cellspacing=10 cellpadding=0 width=275 height="104">

<tr>
<td colspan=2 width=313 height="52"></td>
</tr>


<tr>
<td colspan=2 width=294 height="37"><hr size=3></td>
</tr>
<tr>
<td align=left   bgcolor=lightblue width=185 height="9"><font
size="4">Category ID:</font></td>
<td height="9" width="141" align="center">
<p align="center"><input name="Prod_categ" size=15 style="float:
right"></td>
</tr>
<tr>
<td colspan=2 align=center width=294 height="5"><input type=submit
value=submit style='font-size: 10pt; font-family: Verdana; border: 1px solid
#6699CC; background-color: #E7EFFA ;width:80; height:25'></td>
</tr>
<tr>
<td colspan=2 width=294 height="1"><hr size=3></td>
</tr>
</table>
</form>
</center>
</body>
</html>
```

womenwear.html

```
<html>
  <body background="bg2.jpg" text=black browse=no link="silver"
alink="silver" vlink="silver"><center>
    <table border=0 cellpadding=2 cellspacing=10 width=677
height="365"><tr>
      <td colspan=5 width="653"><center>
      <font face="Comic Sans MS" style="font-size: 16pt">Women
Wear</font><span style="font-size: 16pt"><br>
      </span>
<br>
    <tr><td colspan=5 align=center width="653" height="1"></td></tr>
    <tr><td colspan=5 align=center width="653" height="1" ></td></tr>
    <tr><td width="128" height="135" valign="top" >
      <p align="center"><a href=bridal.asp>
      <img src=bridal.jpg target=main width="120" height="125"></a></p>
      <p align="center">      <font face="Comic Sans MS">Bridal
Dresses</font></td>
      <td width="181" height="135" valign="top">      <p left-margin=0.5 right-
margin=0.5  style="margin-top: 0" align="justify">      <span style="font-size:
9pt" face="Comic Sans MS">      <font face="Comic Sans MS"><span
style="font-size: 9pt">We have very good variety of bridal dresses and casual
dresses for women.      Bridal dresses include:</span></font><p left-
margin=1.5  right-margin=1.5 style="margin-top: 0" align="justify" >
      <span style="font-size: 9pt"><font face="Comic Sans MS">Ghagra:
Traditionally worn by Pakistani gypsy tribe's woman, the modern Ghagra has
been cleverly adapted to   suit formal occasions for the young and daring
Asian woman. <br>
    Gharara: The trouser version of the Sharara! Originally the attire of the
Nobility of Lucknow, in   Northern India and is current favorite with many
Pakistani brides. <br>  Sharara: An ornate and formal garment, commonly
worn at wedding functions. The origins of   the Sharara stem from the attire of
the Mogul princesses. The long skirt has a join at  the knee level. Below the
knee, the skirt is fully flared, similar to bell bottoms worn  in the sixties! .<br>
    Lenhga: A bias cut full-length skirt, similar to a ball gown. The Lenhga is
usually worn on formal occasions,  as are ball gowns! It is available in a vast
variety of fabrics and styles.</font><br>
      <td width="134" height="135" valign="top">
      <p align="center"><a href=formal.asp>
      <img src=dress.jpg width="120" height="125"></a></p>
      <p align="center"><font face="Comic Sans MS">Formal
Dresses</font></td>
      <td width="167" height="135" valign="top"> <p left-margin=0.5 right-
margin=0.5 align="justify">  <font style="font-size: 9pt" face="Comic Sans
MS">Our collection of casual dresses include  shalwar kameez with
embroideries that  adorn them. These are best for any casual occassion. You
will get different styles and colors and can select easily out of these according
to the occassion and special mood.We will bring dresses of latest fashion and
style. </font></td></tr> </center></table> </center></body>  </html></html>
```
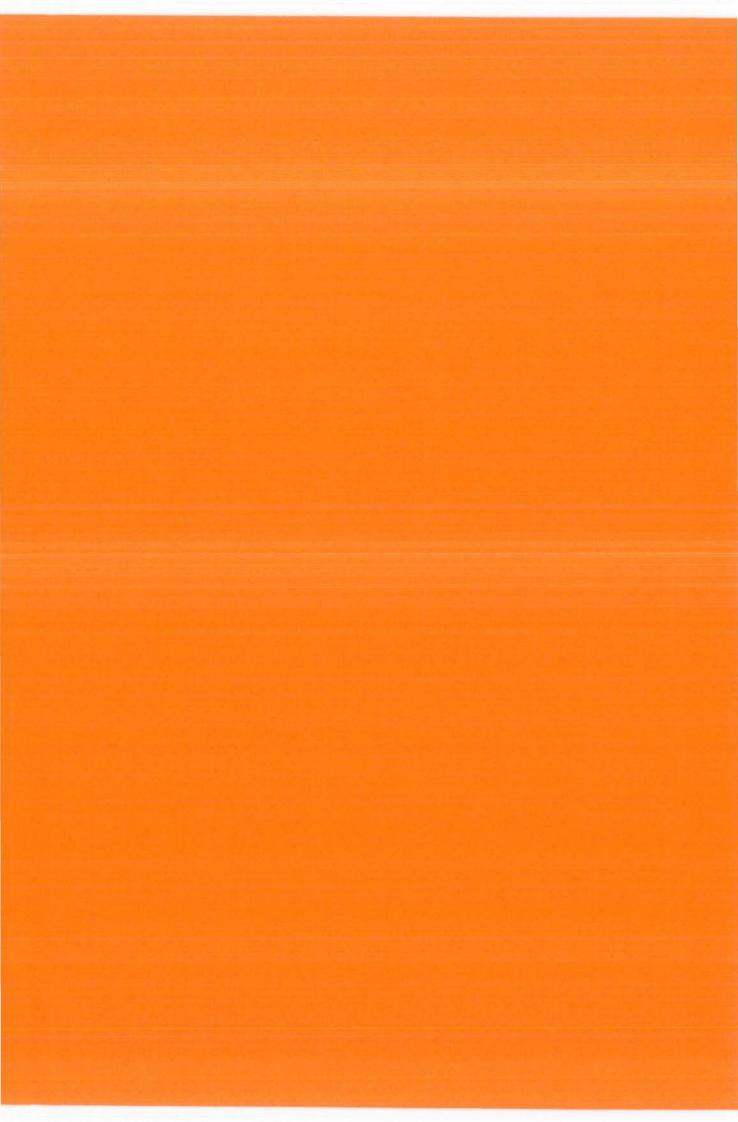
▲

Appendix B

USER MANUAL

User Manual
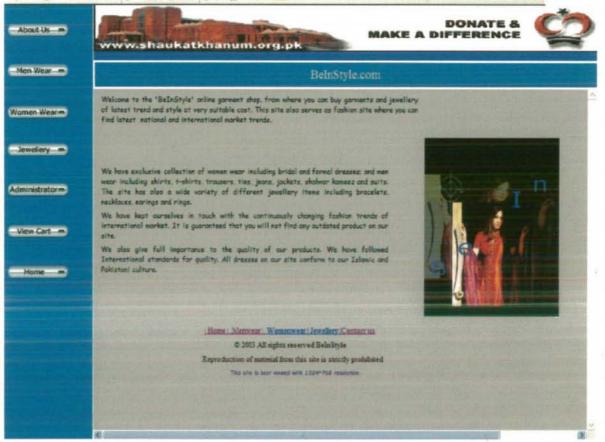
My site is user friendly, upon entering the site you will have the following interface.

Left side of this interface have different links like "Men Wear", "Women Wear","Jewellery","View Cart", "Administrator", "About Us". You can view available subcategories through selecting any main category (men wear, women wear, and jewellery).

For example, when you will select **"Men Wear",** following interface will be shown to you.

This interface allows you to select the following subcategories:

- Suites
- Trousers
- Shirts
- Jeans
- Jackets
- T- shirts
- Ties
- Shalwar Kameez
- Jaudpuri
- Qurta Pajama
- Sherwaneez

By clicking any of the above mentioned sub-catories allows the discrete level of interface & selection. For example the selection of "Shirts" will present the following choices of shirt for selection and purchase.
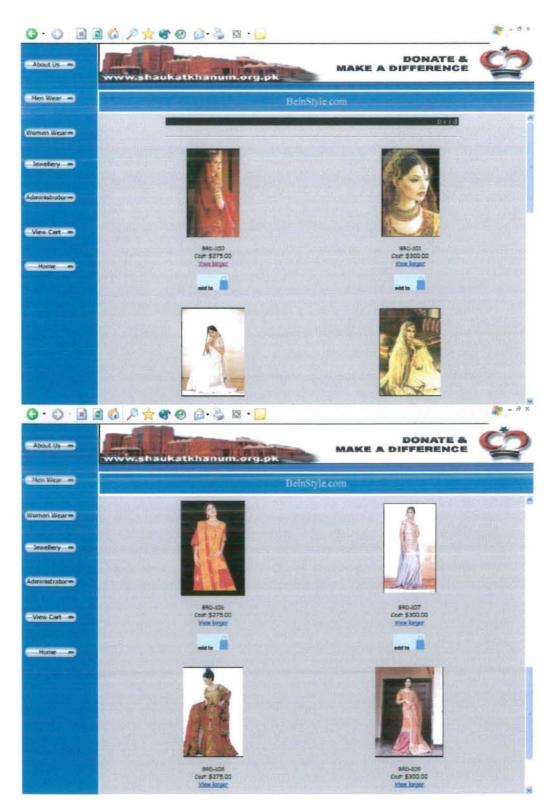
In the same if **"Wome Waer"** is clicked the following interface will be shown. Similar interfaces will be shown in the case of women wear and jewellery as shown below.

This category has following two subcategories:-

- Bridal Dresses

- Formal Dresses

By clicking any of the above mentioned sub-catories allows the discrete level of interface & selection for women wears. For example the selection of "Bridal Dreses" will present the following choices for selection and purchase. Please see the next page.

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For example the selection of "Formal Dreses" will present the following choices for selection and purchase. Please see the next page.
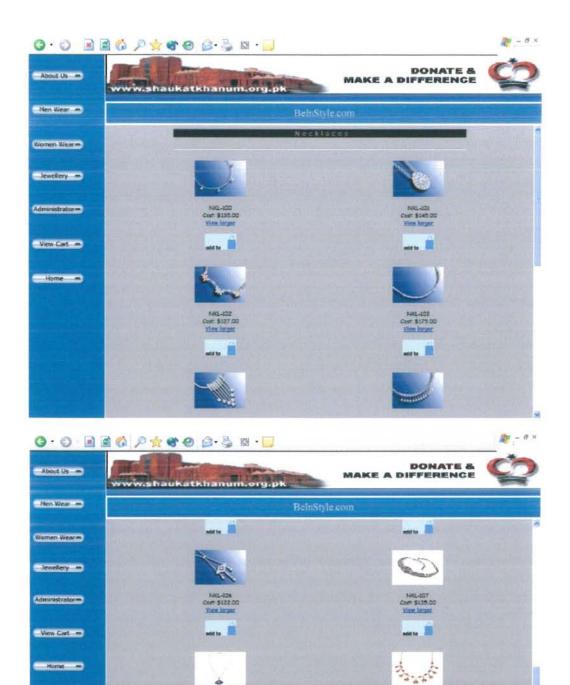
For example, when you will select **"Jewellary"**, following interface will be shown to you.

This category has following four subcategories:-

- Necklaces
- Bracelets
- Rings
- Earrings

After viewing a main category, you can further select any of the subcategories just by clicking the sub cateogory buttons. Please view the next pages for all possible items available for the purchase.
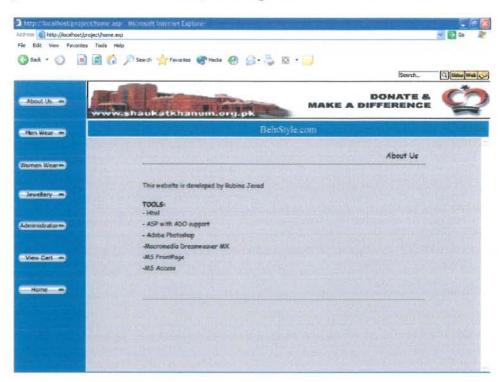
When you click " about us " button, following interface will be shown.

Administrator will be verified through login and password to perform inventory operations through following interface.

After login and password verification, administrator will be able to perform inventory operations like addition, deletion, or updation of products and will also be able to view the products through product category as shown below.

To add a new product in database, administrator will have the following interface.

The adminsitator can up date the product, following is the interface view.

The following is the view for delete option window.

You can buy any product through pressing add to 🛍 provided with each picture. At any stage of shopping, you can view your cart through pressing "view cart" button. You can remove any product from your cart through pressing delete button available in cart interface by providing product id of product you want to remove. If you decided to change the quantity of item at any stage you can use update option in cart interface.

At the end of shopping, while che\cking out, you have to confirm your personal info, by selecting one of the following two options,

- □ Existing User
- □ Get Registered for new user

If you are the existing user then you just have to provide your "Signin" & "Password", in the below shown window.

For the existing users the next window is as below:-

However a new user you will have to fill out the following form, to provide personal info for data base, and in future just to use "signin: & "password" only.

The filled form before submission has been shown on the next page.

After submitting the form, the following screen appears.