

IMPLEMENTING FIREWALL CONCEPTS TO PHARMA TRANSACTION SYSTEM

P-481

A Project Report

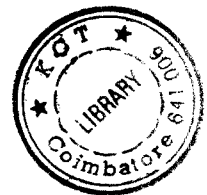
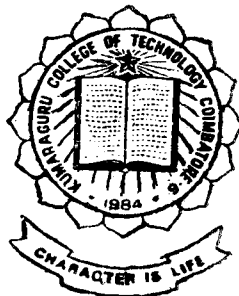
SUBMITTED IN PARTIAL FULFILMENT
OF THE REQUIREMENTS FOR THE DEGREE OF
MASTER OF ENGINEERING
IN COMPUTER SCIENCE AND ENGINEERING
OF BHARATHIAR UNIVERSITY

Submitted by

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Under the Guidance of

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Coimbatore – 641 006

Project Work
CERTIFICATE

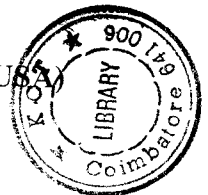
Bonafide record of the project work

**Implementing Firewall Concepts To Pharma
Transaction System**

Done by
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Under the Guidance of
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Submitted in partial fulfillment of the requirements
For the degree of Master of Engineering
in Computer Science and Engineering
Of the Bharathiar University



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Work entitled “IMPLEMENTING FIREWALL CONCEPTS TO PHARMA TRANSACTION SYSTEM ” submitted to Kumaraguru College of Technology, Coimbatore (Affiliated to Bharathiar University) is a record of original work done by me under the supervision and guidance of Mr. Dinesh Ranganathan B.TECH,M.S, Department of Computer Science and Engineering.

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Acknowledgement

I feel great pleasure to thank our beloved Principal Dr.K.K.PADMANABHAN, B.Sc (Engg), M.Tech, Ph.D, Kumaraguru College Of Technology, Coimbatore for his kind patronage in providing the infrastructure facilities.

I would like to extend my sincere thanks to our Head Of the Department, Prof.S.THANGASAMY, Kumaraguru College Of Technology, Coimbatore for the encouragement he rendered me in doing the project work well.

A book of this magnitude cannot be produced without the help of many people and literature. Among the former, I wish to take this opportunity to express my sincere thanks and gratitude to my guide Mr. DINESH RANGANATHAN, B.Tech, M.S, Senior Lecturer, Kumaraguru College Of Technology, Coimbatore, whose detailed and constructive guidance extended for beyond the call of duty of a guide, and also helped me with number of references and manuscripts in advance of publication.

It is with gratitude, I express my heart full thanks to our class advisor Mr.R.KANNAN, M.E, Assit.Prof, Kumaraguru College Of Technology, Coimbatore who helped me a lot to fulfill this project work in successful manner.

I am thankful to all teaching and non-teaching staff members of our Institution for the assistance, they rendered during the study.

I thank my beloved friends for having boosted confidence in me during the moments of the study.

Synopsis

Businesses that accept transaction via the web can gain a competitive edge by reaching a worldwide audience, at very low cost. But web poses a unique set of security issues, which businesses must address at the outset to minimize risk.

Customers will submit information via the web only if they are confident that their personal information such as credit card number, address, telephone number, financial data or medical history is secure.

In my project acquiring security for the web site is easy by implementing some Firewall concepts such as Authentication, Authorization, Confidentiality, handling cookies, monitoring time taken by the clients who are accessing the web site etc. Using a hit counter does monitoring. So that we can prevent Hackers to misuse our web site.

I have used NetObjectsFusion 4.0 Software for designing my website which is an easiest and fastest way to build business web site. I have used Java Servlet Development Kit 2.1 to implement my project.

Since Java provides all kinds of security features as well as networking capabilities. I have used JSDK 2.1 for making a user interactive web site.

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1.1 Need of security for Our Website:

In today's market, it seems that businesses must be on the web to have a competitive market advantage. If connecting to the web a business imperative, protecting your information from others connected to the web is critical. Now a days, computer theft is on increase. The risk of computer and data theft is very real, both from within your company and from those who can connect to your company.

On the Internet, there are individuals whose goal is to steal or destroy information on your website. Arguably, these individuals are even more dangerous on the Internet. Because they can steal information On your Website and you may not know for weeks or you may never know that a competitor stole your data until you begin losing accounts, Because your competitor is forbidding your every job, you must secure your website.

The Internet is full of people who sometimes for greed, sometimes for the sheer of pleasure of deception and destruction, exploit network security, download privileged information and steal or destroy data. The mass media commonly refer to these individuals as "HACKERS".



A Hacker may be an individual trying to crack your Website for his/her own pleasure or may be an employee of a competitor trying to crack your Site for economic benefit. No matter who the hacker may be, the hackers are or what the hackers are the enemy you must secure your Website against.

Clearly, the Internet can offer businesses terrific cost savings, outstanding marketing tools and extraordinary employee productivity gains. By understanding the threats and taking realistic security actions to guard data and networks, businesses can minimize the risk of Internet-related security breaches.

For providing security to your Website to protect against hackers, FIREWALL concepts are implemented.

1.2 INTRODUCTION TO FIREWALLS:

In days of old, brick walls were built between buildings in Apartment complexes so that if a fire brokeout,it would not spread from one building to another. Quite naturally, the walls were called “FIREWALLS”.

The Internet is a marvelous technological advance that provides access to information and provides many services like Electronic mail, Remote login, Usenet, Bulletin Board and Online chats. But it is also a danger that provides the ability to destroy information in many ways. Our data and resources are at risk when connected to the Internet.

Firewalls are designed to keep unwanted & unauthorized traffic from an unprotected network like Internet out of a private network like your . LAN/WAN, yet still allowing you and other users of the organization to access Internet services.

A FIREWALL is a system designed to prevent unauthorized access to or from a private network. Firewalls can be implemented in both hardware and software, or a combination of both.

Firewalls are frequently used to prevent unauthorized Internet users from accessing private networks connected to the Internet, especially intranets. All messages entering or leaving the intranet pass through the firewall, which examines each message and blocks those that do not meet the specified security criteria.

1.2.1 Firewall Techniques:

There are several types of firewall techniques:

□ Packet filter: Looks at each packet entering or leaving the network and accepts or rejects it based on user-defined rules. Packet filtering is fairly effective and transparent to users, but it is difficult to configure. In addition, it is susceptible to IP spoofing.

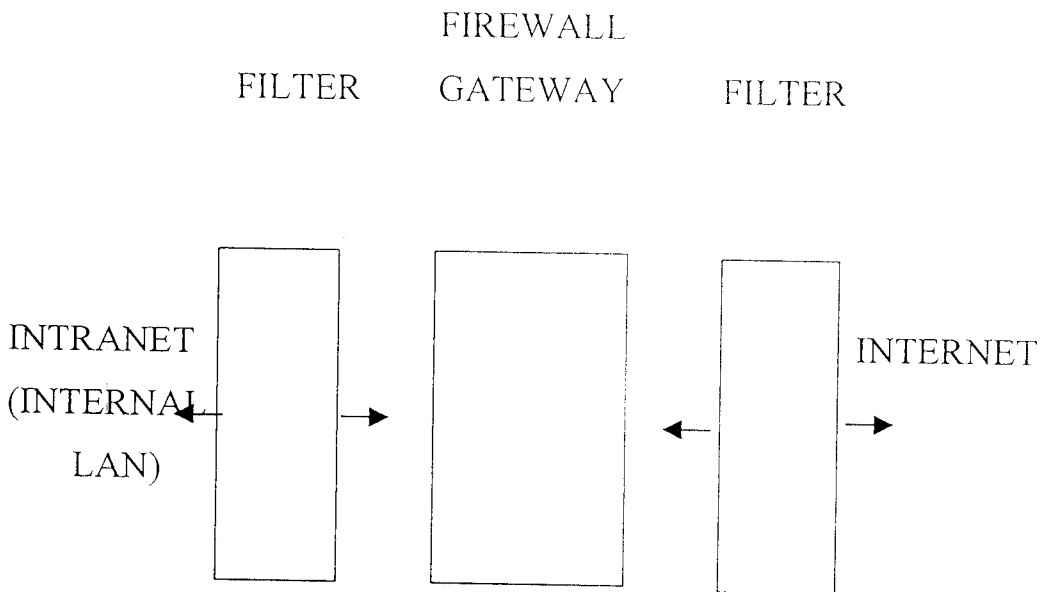
IP Spoofing: Imitating the IP address of a “trusted” host or router in order to gain access to protected information resources. Spoofing is a technique actually used to reduce network overhead, especially in wide area networks. This technique spoofs (fools) the LAN device into thinking the remote LAN is still connected, even though it is not. However, hackers use the same technique as a form of attack on your site.

□ Application gateway: Applies security mechanisms to specific applications, such as FTP and Telnet servers. This is very effective, but can impose performance degradation.

□ Circuit-level gateway: Applies security mechanisms when a TCP or UDP connection is established. Once the connection has been made, packets can flow between the hosts without further checking.

□ Proxy server: Intercepts all messages entering and leaving the network. The proxy server effectively hides the true network addresses.

The basic purpose of a firewall is shown in following figure.



The purpose of a Firewall, as a security gate, which is configured, to protect against unauthenticated interactive login from 'outside' world. Protecting your Website against hackers is also one of the basic purpose of a Firewall.

A Firewall is used to

- Protect against Internet misuse (Internet access control)
- Detect internal & external threats (intrusion detection)
- Block access to web sites or objectionable content
- Detect Password sniffers
- Provide reports on Internet usage
- Provides extensive security logging
- No network or client reconfiguration & No performance loss

1.2.2 Security Features:

Some of the important security features provided by the firewall are

- Authentication
- Authorization
- Privacy Control
- Confidentiality
- Data Integrity

Authentication:

Authentication is very important to safeguard the integrity, confidentiality and security of users especially if you are involved with electronic commerce, which becomes a requirement. Therefore clients must authenticate themselves to web servers and web servers must also authenticate themselves to each other.

Authorization:

When the identity of the user is verified, after the user is authenticated to be whom or what it claims to be. The issue concerns what complete resources that the user is authorized to access. On the global system level, authorization issues center around who and what is allowed to assume the identity of another account, which remote systems are allowed access to which services have read, write and execute permissions.

Privacy control:

While a Client is entering his personal information during transaction, that information will be stored in a database. The information

is kept secretly. Others cannot access the personal information of the Clients. So that the privacy of a Client is maintained.

Confidentiality:

Confidentiality comes under privacy control. Confidentiality is defined as the act of keeping things hidden or secret. It is very important for users dealing with sensitive data such as credit card number, bank account number, financial data etc.

Data Integrity:

When a file or document is sent, we should have some means of verifying that the file or document has not been altered. This is called Information integrity and it refers to the process of verifying that the information that was sent is complete and unchanged from the last time it was verified. Information that is maliciously modified can create misunderstandings, confusion and conflict.

Intrusion Detection:

It is very important that the security mechanisms of a system are designed so as to *prevent* unauthorized access to system resources and data. However, completely preventing breaches of security appear, at present, unrealistic. We can, however, try to detect these intrusion attempts so that action may be taken to repair the damage later. This field of research is called Intrusion Detection. While introducing the concept of intrusion detection in 1980 [1], defined an intrusion attempt or a threat to be the potential possibility of a deliberate unauthorized attempt to

- Access information,
- Manipulate information, or
- Render a system unreliable or unusable.

1.3 Introduction to Hackers:

The Internet is full of people who sometimes for greed, sometimes for the sheer of pleasure of deception and destruction, exploit network security, download privileged information and steal or destroy data. The mass media commonly refer to these individuals as “HACKERS”

1.3.1 Classification :

Hackers are classified into the following categories:

- Security Experts
- Students
- Underemployed Adults
- Criminal Hackers
- Corporate spies
- Disgruntled Employees

Security Experts:

Most security experts are capable of hacking, but decline from doing for moral or economic reasons. Computer experts have found that there's more money in preventing hacking.

So they spend their time keeping up with the hacking community and current techniques to become more effective in fight against them. A number of larger Internet service companies employ ethical hackers to test their security systems and those of their customers.

These experts often are the first to find new hacking exploits and often write software to test a condition.

Student Hackers:

They may use their own computers, or they may use the greater resources of the school to perpetrate their hacks. They are not motivated to harm you, and most instances you'll never know they were there unless you have alarming software or a Firewall that logs attacks. These hackers constitute about 90% of the total hacking activity on the Internet.

Criminal Hackers:

They hack for revenge or to perpetrate theft. Criminal hackers are the ones who have compromised Internet servers to steal credit card numbers, performed wire transfers from banks, or hacked bank mechanism of a bank to steal money.

Spies:

They are rare because it's extremely costly and legally very risk employing these tactics against competition companies. These attacks are usually engaged against high technology businesses by foreign governments.

1.3.2 Hacking Techniques:

A hacking attack consists of the following stages

- Target Selection – A hacker identifies a specific computer to attack.
- Target Identification – The hacker determines the characteristics of the target before actually engaging it.
- Attack Method Selection – The hacker selects one or more specific attacks to use against the target based on the information gathered in the previous stage.
- Attack Progression – The hacker proceeds with the actual attack or series of attacks.

1.3.3 Vectors Of Attack:

There are only three ways for a hacker to access the network:

- By using a computer on your network directly
- By connecting over the Internet
- By dialing in via a RAS or remote control server

1.3.4 Types of attack:

Basic types of attacks performed against Internet-connected networks:

- Password-based attacks
- Network-snooping and packet sniffing attacks
- Attacks that exploit trusted- access
- IP spoofing attacks
- Social engineering attacks
- Sequence number prediction attacks
- Session hijacking attacks
- Attacks meant to exploit vulnerabilities in technology
- Attacks meant to exploit shared libraries

1.4 Introduction to Cookies:

Cookies are bits of information that web servers store on your computer for their later use. Web servers can use cookies to keep track of how many times you've visited and when, and what sort of information

you've been surfing for on their site. They can even use cookies to pass that information on to other web servers, such as advertisement servers.

On the positive side, cookies can be used to store your own Web site configuration, to remember items placed in your shopping cart at an online shopping site, or to store account and password information for subscription sites.

You may not want to block all cookies, which is why the program lets you permit or block cookies on a per-site basis. The information following each URL is, for most part, meaningless (because it is site specific), except to data-collecting programs maintained on the servers at individual Web sites. Some of the data's meaning, however, is obvious, including user Ids and passwords for some sites. Some listings might also include network addresses for ISPs the user used to visit these sites.

The web server either encodes the remainder of the data into Strings of text and numbers, or saves information as element values, which indicate whether the user has visited the site before. As a rule, the majority of the information within the cookies file is the information the web server intended a current site or a new site to use.

2.1 HARDWARE DETAILS

The extract below gives the specification of the system in which the project was developed successfully.

Machine	-	Intel Pentium-III 500 Mhz
Ram	-	SDRAM 64 MB.
Cache Memory	-	512 KB.
Hard Disk Drive	-	10.2 GB Seagate Hard disk
Floppy Disk Drive	-	1.44 MB Sony Drive
Network Adapters	-	Dlink Fast EtherNet NIC
Modem	-	Dax 56 Kbps Modem
Keyboard	-	104 TVS Gold Keyboard
Mouse	-	Microsoft Mouse
CD ROM Drive	-	Creative 52x Drive
UPS	-	TVS .5 KVA (20 Minute Backup)
Printer	-	HP Color Deskjet 865 C

2.2 Description of Software & Packages Used

2.2.1 Net Objects Fusion 4.0:

Net Objects Fusion 4.0 is the fastest, easiest way to build business Web sites. Net Objects Fusion enables users to build, manage, and update an e-business site quickly and effectively. It provides not only comprehensive site management and development capabilities, but also an easy way to add e-commerce functionality and dynamic database access to your Web site.

The Site Structure Editor allows you to architect and communicate your site structure quickly. The Four-Way Layout Editor creates precise page layouts and lean, targeted HTML effectively.

Net Objects Fusion components provide seamless, dynamic access to multiple databases and application servers, including Microsoft Active Server Pages, Lotus Domino, Allaire Coldfusion, and IBM Web Sphere.

2.2.2 Java Development kit:

For much of its existence, the World Wide Web has been a method for distributing passive information to a widely distributed number of people. Interactive web pages contained forms and image map, but the interaction was only a way to get at the same information.

That was the time when Java, with its capability to create applets that can be contained in web pages, burst on the international scene. Real interactivity was achieved by the fact that applets could create animations, multimedia presentations, real – time video games, multiuser networked games.

Java is an Object oriented programming language, which was designed to be small and portable across platforms and operating systems, both at the source and binary level. This means that Java programs (applets or applications) can run on any machine that has the Java virtual machine.



Java is a programming language, which has significant advantages over other languages. Java is platform independent, object oriented, easy to learn, multithreaded language.

Platform independence:

The ability of a program to move from one computer to another and execute is known as platform independence. For Internet programming this feature is essential for program's success. Java is platform independent at both source and binary level.

At source level, Java's primitive data types have consistent Slurs across development platforms. Its class libraries make it easy to write code that can be moved from platform to platform without the need to rewrite it to work with that platform.

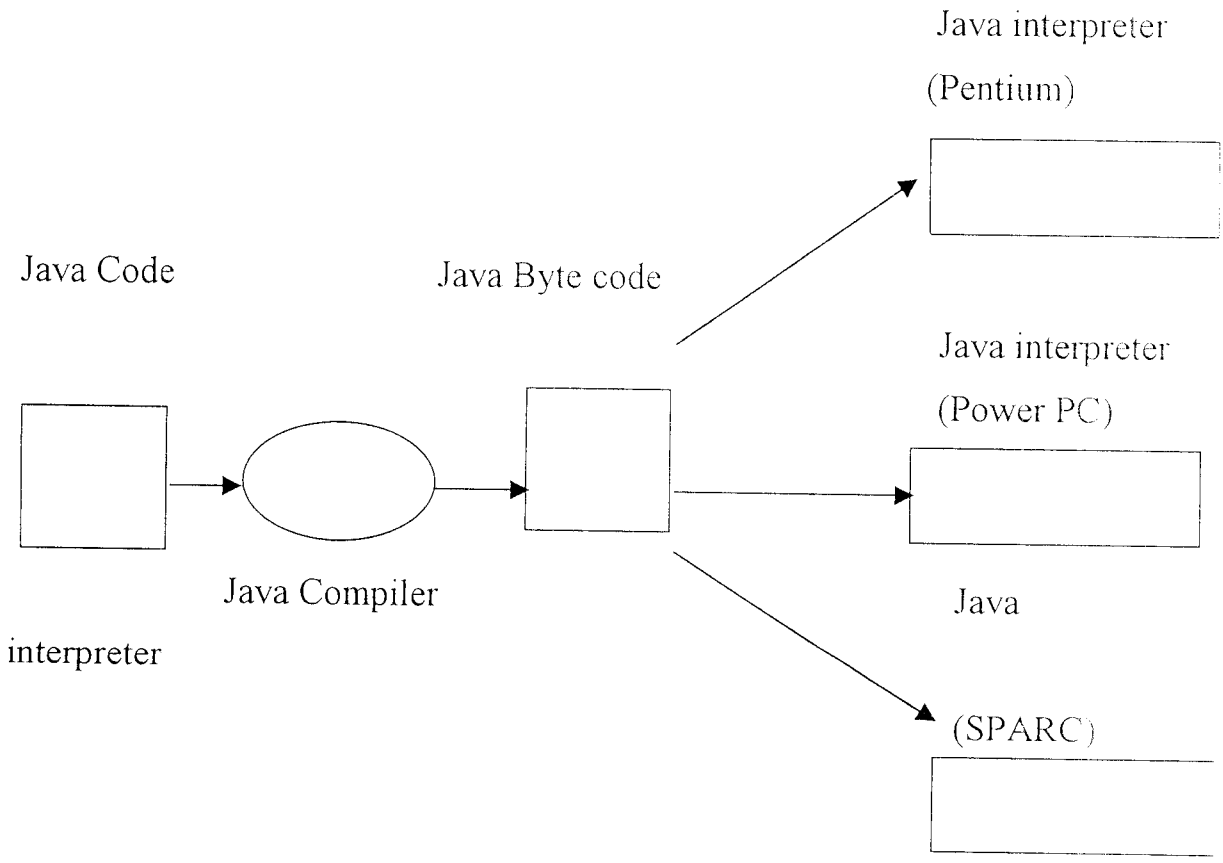
Java compiled binary files are also platform independent and can run on multiple platforms without the need to recompile source. This can be accomplished if a Java virtual machine is available.

The Java Development environment has two parts:

Java compiler and Java interpreter. Java compiler generates

byte codes instead of machine codes from source files. Byte codes are not specific to any processor.

To execute the byte code, a byte code interpreter is used. It is often called the Java virtual machine on the Java run time.



Java is Object oriented language. This enables the programs to be feasible, modular and reusable. Java includes a set of libraries that provide basic data types, system input and output capabilities and other utility functions. Java environment also has libraries like networking, common Internet protocols, and user interface toolkit functions.

Java is small, simple and easy to learn. It makes the language more robust. Despite its size, Java has a great deal of power and flexibility.

Most of the complex parts are of C++ such as Pointers, multiple inheritance, function overloading has been removed in Java. Memory management is automatic.

Java is a multi-threaded language. Multi threading is the ability of a program to execute different modules concurrently. This vastly increases the power of the language.

Java provides extensive networking capabilities. It hides the actual implementation details from the programmer. Thus, it increases productiveness and robustness.

In the information age the importance of the Internet as an information superhighway will continue to grow rapidly. Java, which has the capabilities to make the World Wide Web more interactive, has a bright future.

Java Features:

Java has powerful and abundant file processing and stream input/output features. Java has two types of files: sequential and random access files. It helps to support commercial application that typically processes massive amounts of persistent data.

Java supports multithreading by making available concurrency primitives to the programmer. Each thread designates a portion of program that may execute concurrently with other threads. This is very useful for silent server applications.

The main features of Java that I used in my project are Java Servlets, Cookies etc.

2.2.3 Java Servlet Development kit:

Servlets are modules of Java code that run in a server application (hence the name "Servlets", similar to "Applets" on the client side) to answer client requests. Servlets are not tied to a specific client-server protocol but they are most commonly used with HTTP and the word "Servlet" is often used in the meaning of "HTTP Servlet".

Servlets make use of the Java standard extension classes in the packages `javax.servlet` (the basic Servlet framework) and `javax.servlet.http` (extensions of the Servlet framework for Servlets that answer HTTP requests). Since Servlets are written in the highly portable Java language and follow a standard framework, they provide a means to create sophisticated server extensions in a server and operating system independent way.

Their initial use is to provide secure web-based access to data that is presented using HTML web pages, interactively viewing or modifying that data using dynamic web page generation techniques.

Servlets are also very secure. They can be used with secure protocols, such as SSL (Secure Socket Layer) & are tied to Java's inherent security measures, which prevent the servlets from handling direct access to memory, sensitive system buffers and so on.

Typical uses for HTTP Servlets include:

- Processing and/or storing data submitted by an HTML form.
- Providing dynamic content, e.g. returning the results of a database query to the client.
- Managing state information on top of the stateless HTTP, e.g. for an online shopping cart system which manages shopping carts for many concurrent customers and maps every request to the right customer.

Servlets vs CGI

The traditional way of adding functionality to a Web Server is the Common Gateway Interface (CGI), a language-independent interface that allows a server to start an external process which gets information about a request through environment variables, the command line and its

standard input stream and writes response data to its standard output stream. Each request is answered in a separate process by a separate instance of the CGI program, or CGI script (as it is often called because CGI programs are usually written in interpreted languages like Perl).

Servlets have several advantages over CGI:

- A Servlet does not run in a separate process. This removes the overhead of creating a new process for each request.
- A Servlet stays in memory between requests. A CGI program (and probably also an extensive runtime system or interpreter) needs to be loaded and started for each CGI request.
- There is only a single instance which answers all requests concurrently. This saves memory and allows a Servlet to easily manage persistent data.
- A Servlet can be run by a Servlet Engine in a restrictive Sandbox (just like an Applet runs in a Web Browser's Sandbox) which allows secure use of untrusted and potentially harmful Servlets.

The Basic Servlet Architecture

A Servlet, in its most general form, is an instance of a class which implements the `javax.servlet.Servlet` interface. Most Servlets, however, extend one of the standard implementations of that interface, namely `javax.servlet.GenericServlet` and `javax.servlet.http.HttpServlet`. In this tutorial we'll be discussing only HTTP Servlets which extend the `javax.servlet.http.HttpServlet` class.

In order to initialize a Servlet, a server application loads the Servlet class (and probably other classes which are referenced by the Servlet) and creates an instance by calling the no-args constructor. Then it calls the Servlet's `init(ServletConfig config)` method. The Servlet should perform one-time setup procedures in this method and store the `ServletConfig` object so that it can be retrieved later by calling the Servlet's `getServletConfig()` method.

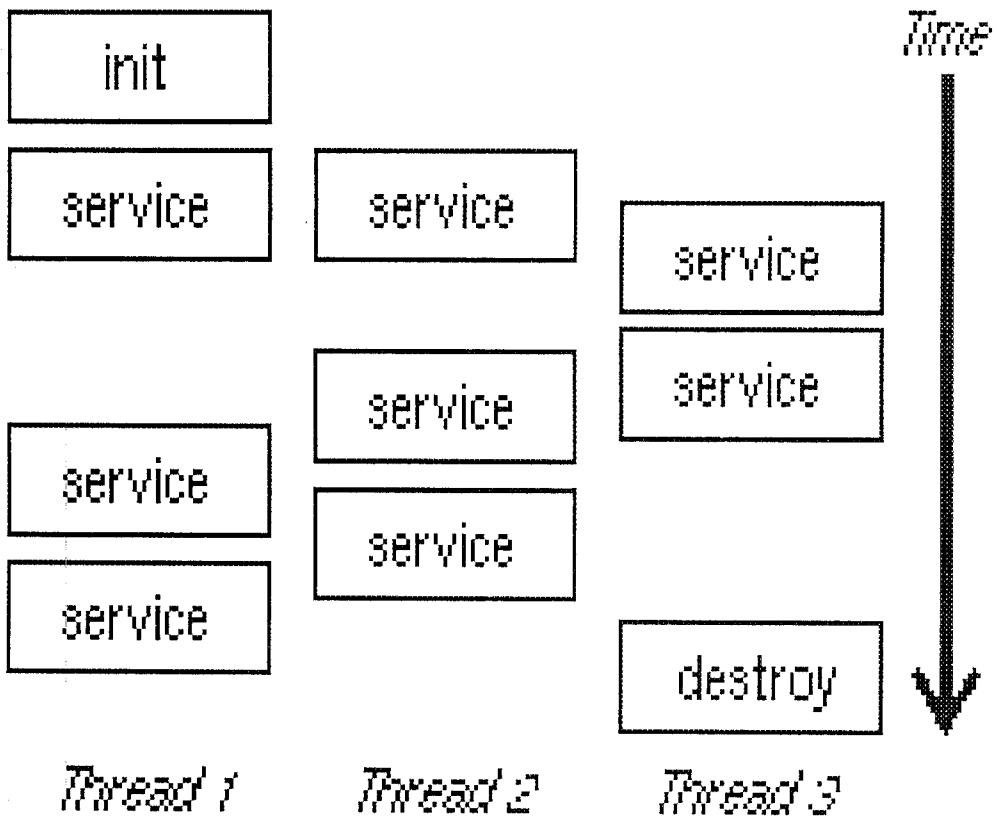
This is handled by `GenericServlet`. Servlets which extend `GenericServlet` (or its subclass `HttpServlet`) should call `super.init(config)` at the beginning of the `init` method to make use of this feature. The `ServletConfig` object contains Servlet parameters and a reference to the Servlet's `ServletContext`. The

`init` method is guaranteed to be called only once during the Servlet's lifecycle. It does not need to be thread-safe because the `service` method will not be called until the call to `init` returns.

When the Servlet is initialized, its `service` (`Servlet Request req, ServletResponse res`) method is called for every request to the Servlet. The method is called concurrently (i.e. multiple threads may call this method at the same time) so it should be implemented in a thread-safe manner.

When the Servlet needs to be unloaded (e.g. because a new version should be loaded or the server is shutting down) the `destroy()` method is called. There may still be threads that execute the `service` method when `destroy` is called, so `destroy` has to be thread-safe. All resources which were allocated in `init` should be released in `destroy`. This method is guaranteed to be called only once during the Servlet's lifecycle.

A typical Servlet lifecycle looks like this:



Features:

- Processing of data POST Ed over a HTTP server using an HTTP Form, such as purchase orders, credit card information and so forth.
- Support of collaborative applications for conferencing, as servlets handle multiple requests concurrently and synchronized.
- One servlet could forward requests to other servers.

Session Tracking:

Session Tracking allows a Servlet to associate a request with a user. A session can extend across requests and connections of the stateless HTTP. Sessions can be maintained in two ways:

1. By using *Cookies*. A Cookie is a string (in this case that string is the *session ID*) which is sent to a client to start a session. If the client wants to continue the session it sends back the Cookie with subsequent requests. This is the most common way to implement session tracking.
2. By rewriting URLs. All links and redirections which are created by a Servlet have to be encoded to include the session ID. This is a less elegant solution (both, for Servlet implementors and users) because the session cannot be maintained by requesting a well-known URL or selecting a URL which was created in a different (or no) session. It also does not allow the use of static pages. All HTML pages which are sent within a session have to be created dynamically.

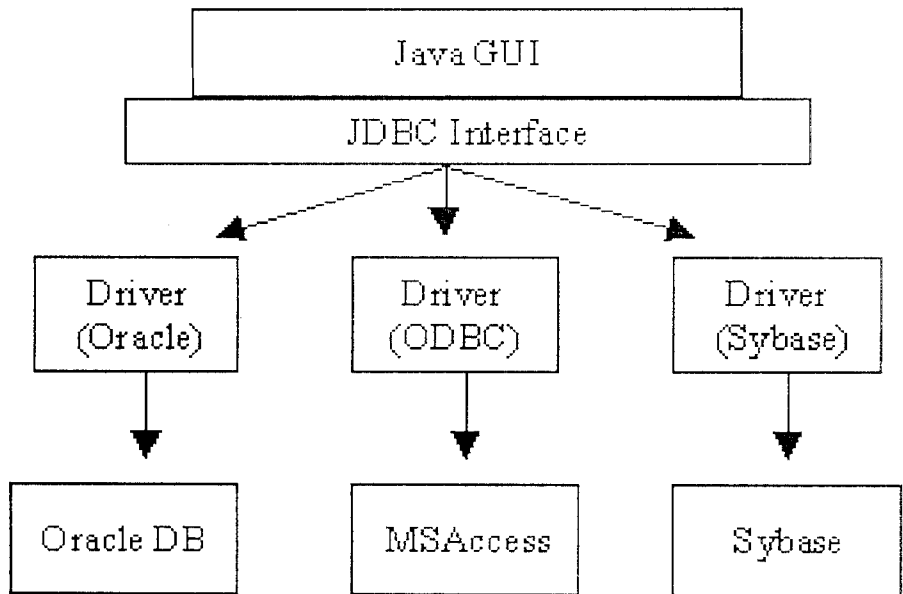
2.2.4 JDBC:

JDBC is a Java™ API for executing SQL statements. (JDBC is often thought of as standing for "Java Database Connectivity".) It consists of a set of classes and interfaces written in the Java programming language. JDBC provides a standard API for tool/database developers and makes it possible to write database applications using a pure Java API.

Using JDBC, it is easy to send SQL statements to virtually any relational database. In other words, with the JDBC API, it isn't necessary to write one program to access a Sybase database, another program to access an Oracle database, another program to access an Informix database, and so on.

One can write a single program using the JDBC API, and the program will be able to send SQL statements to the appropriate database. And, with an application written in the Java programming language, one also doesn't have to worry about writing different applications to run on different platforms. The combination of Java and JDBC lets a programmer write it once and run it anywhere.

JDBC ARCHITECTURE:



Java, being robust, secure, easy to use, easy to understand, and automatically downloadable on a network, is an excellent language basis for database applications. What is needed is a way for Java applications to talk to a variety of different databases. JDBC is the mechanism for doing this.

JDBC extends what can be done in Java. For example, with Java and the JDBC API, it is possible to publish a web page containing an applet that uses information obtained from a remote database. Or an enterprise can use JDBC to connect all its employees (even if they are using a conglomeration of Windows, Macintosh, and UNIX machines) to

one or more internal databases via an intranet. With more and more programmers using the Java programming language, the need for easy database access from Java is continuing to grow.

MIS managers like the combination of Java and JDBC because it makes disseminating information easy and economical. Businesses can continue to use their installed databases and access information easily even if it is stored on different database management systems. Development time for new applications is short. Installation and version control are greatly simplified.

A programmer can write an application or an update once, put it on the server, and everybody has access to the latest version. And for businesses selling information services, Java and JDBC offer a better way of getting out information updates to external customers.

Simply put, JDBC makes it possible to do three things:

- establish a connection with a database
- send SQL statements
- process the results.

3. Project Implementation

The project entitled as “IMPLEMENTING FIREWALL CONCEPTS TO PHARMA TRANSACTION SYSTEM “ has been developed under Web based architecture, having its front as Java and back end as Ms Access, which are powerful RDBMS. This package is window base, which is built on Windows NT in LAN environment. This package supports a fast data entry and verification through internet.

The main aim of this project is to reduce manual work and elaborate its level ,save data with high security through Internet. The highlight of the package is to send the Product information regarding to customers rapidly given by the system and retrieve Customer,Order informations through Internet.

This system produce High performance at this time of E-Business era.. This system made the transaction without any delay during the transaction time even the package live in Internet.

This information’s helps to know the scenario of the consequence quickly. This computerization enables to maintain the files and register easily.

To make the system efficient, user friendly screens are created and messages are provided using Client Side Script like Html, Javascript and Server side script in JSDK2.0. This makes quicker, informative and interactive data entry.

When the Client makes an request to access the web site, first he is checked that whether he is an authorized user. If he is not an authorized user, he is requested to register his details in the Registration form. So that he will become an Authorized one.

After Ordering the things he needed, the Billing amount is stored in a Cookie. The time he accessed the web site is monitored using Session Tracking. The Number of visitors is also monitored using a hit counter.

The information about the web site is not allowed to view. The permission is denied while he tries on right clicking on the web site.

Since all the functionalities are done using Servlets, this web site is more secured than others and the web site is more interactive.

Conclusion

With its worldwide reach, the web is a lucrative distribution channel with unpredicted potential. By setting up an online storefront, businesses can reach the millions of people around the world already using the Internet for transactions. And by ensuring the security of online payments, businesses can minimize risk and reach a far larger market. The 85% of Internet users who still hesitate to shop Online because of security concerns.

Conducting online business securely with authentication, authorization, message integrity, message privacy, we can minimize risk and win customer confidence and ultimately gain a competitive edge.

Similarly as understandable, our example of Pharmaceutical application points the online business value and Firewall features implemented here does guarantee security concept to the Web Site as shown.



Further implementation:

This project has been developed in accordance with current technologies. (E-Commerce). But, it needs to be revamped to help this system to survive in the wireless world. This new wireless technology (M-Commerce) allows the clients to define information to be seen over mobile device.

About WAP

Let's start with an example scenario: Imagine stepping out of an office building on the way to airport and using WAP-enabled, wireless device to check the traffic report.

Finding congestion, you locate the train timetable and choose to purchase a train ticket on-line instead of driving. On the way to airport, you select your aisle seat, check in for the flight, and reserve a special meal. Finally, you unpack your raincoat after looking up the weather at your destination.

Other types of services which can benefit through WAP technology are: Customer care and provisioning, message notification and call the management, e-mail, telephony value-added services and unified messages, mapping and locator services, weather and traffic alerts, news, sports and information services-commerce transactions and banking services, online address books, directory services, and corporate intranet applications.

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Charles Perkins

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Lars Klander

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Year 1998

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Web Sites:

For Designing Web Site:

www.drugstore.com

www.sav-ondrugs.com

www.bababazaar.com

For Firewalls:

www.verisign.com

www.entrust.com

For Hacker News:

[www.yahoo.com\(Search\)](http://www.yahoo.com(Search))

For Site Blocking Software:

www.we-blocker.com

www.netnanny.com

For Web Development:

www.webdevelopment.com

```
/* HOME PAGE */
```

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 FINAL//EN">
<HTML>
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html;
charset=ISO-8859-1">
<META NAME="Generator" CONTENT="NetObjects Fusion 4.0 Trial for
Windows">
<TITLE>Home</TITLE>
<!-- DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 FINAL//EN" -->
<META CONTENT="NetObjects Fusion 4.0 Trial for Windows"
NAME="Generator">
<SCRIPT LANGUAGE="JavaScript1.1">
<!-- Original: Martin Webb (martin@irt.org) -->

<!-- This script and many more are available free online at -->
<!-- The JavaScript Source!! http://javascript.internet.com -->

<!-- Begin
function right(e) {
if (navigator.appName == 'Netscape' &&
(e.which == 3 || e.which == 2))
return false;
else if (navigator.appName == 'Microsoft Internet Explorer' &&
(event.button == 2 || event.button == 3)) {
alert("Sorry, you do not have permission to view source.");
return false;
}
return true;
}
document.onmousedown=right;
document.onmouseup=right;
if (document.layers) window.captureEvents(Event.MOUSEDOWN);
if (document.layers) window.captureEvents(Event.MOUSEUP);
window.onmousedown=right;
window.onmouseup=right;
// End -->
</SCRIPT>
```



```
<!-- DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 3.2 FINAL//EN" -->
```

```
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```

```
</HEAD>
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```
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<TR VALIGN=TOP ALIGN=LEFT>
```

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```

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Overview<BR>&nbsp;</FONT></B><P><B><FONT
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<FONT COLOR="#C0C0C0" SIZE="-1"
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BT"><STRIKE>\$39.95</STRIKE><FONT COLOR="#000000"
SIZE="-2"

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<FONT COLOR="#FF0000" SIZE="-1"
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Regimen<FONT COLOR="#000000" SIZE="-1"
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><FONT COLOR="#000000" SIZE="-2"

FACE="Arial,Helvetica,Univers,Zurich BT">Tablets, Adult Low Strength
Aspirin 81 mg, Pain Reliever,

Enteric Safety Coated
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FACE="Arial,Helvetica,Univers,Zurich BT">
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Wonders

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BT"><STRIKE>\$39.95</STRIKE><FONT COLOR="#000000"
SIZE="-2" FACE="Arial,Helvetica,Univers,Zurich BT">Now
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<TD width="13" height="25"></TD>

<TD WIDTH=557 height="25"><P>Send mail to <FONT
COLOR="#0000CC">sriuma_ramani@hotmail.com with questions
or comments about this web site.
 </TD>

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FACE="Arial,Helvetica,Univers,Zurich BT">Information on this site is
provided for informational purposes and is

not meant to substitute for the advice provided by
your own physician or other medical professional. You should not use the

information contained herein for diagnosing or treating a health problem or

disease, or prescribing any medication. You should read carefully all product packaging. If you have or suspect that you have a medical problem, promptly contact your health care provider. Information

and statements regarding dietary supplements have not been evaluated by the Food and Drug Administration and are not intended to diagnose, treat, cure, or prevent any disease.
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FACE="Arial,Helvetica,Univers,Zurich BT">Please see our <<FONT
COLOR="#000000"

SIZE="-2" FACE="Arial,Helvetica,Univers.Zurich
BT">Terms of Use<FONT COLOR="#000000" SIZE="-2"
FACE="Arial,Helvetica,Univers,Zurich BT">

Copyright © 1999-2000 drugstore.com, inc. All
rights reserved</TD>

</TR>

</TABLE>

</TD>

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<FONT COLOR="#000000" FACE="Courier

New,Courier">


```
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</BODY>
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```

```
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```

```
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```

```
<HTML>
```

```
<HEAD>
```

```
<META HTTP-EQUIV="Content-Type" CONTENT="text/html;  
charset=ISO-8859-1">
```

```
<META NAME="Generator" CONTENT="Microsoft FrontPage 4.0">
```

```
<TITLE>service</TITLE>
```

```
<SCRIPT LANGUAGE="JavaScript1.1">
```

```
<!-- Original: Martin Webb (martin@irt.org) -->
```

```
<!-- This script and many more are available free online at -->
```

```
<!-- The JavaScript Source!! http://javascript.internet.com -->
```

```
<!-- Begin
```

```
function right(e) {
```

```
if (navigator.appName == 'Netscape' &&  
(e.which == 3 || e.which == 2))
```

```
return false;
```

```
else if (navigator.appName == 'Microsoft Internet Explorer' &&  
(event.button == 2 || event.button == 3)) {
```

```
alert("Sorry, you do not have permission to view source.");
```

```
return false;
```

```
}
```

```
return true;
```

```
}
```

```
document.onmousedown=right;
```

```
document.onmouseup=right;
```

```
if (document.layers) window.captureEvents(Event.MOUSEDOWN);
```

```
if (document.layers) window.captureEvents(Event.MOUSEUP);
```

```
window.onmousedown=right;
```

```
window.onmouseup=right;
```

```
// End -->
```

```
</script>
```

```
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```

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<TR VALIGN=TOP ALIGN=LEFT>

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<TR VALIGN=TOP ALIGN=LEFT>

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  <TD HEIGHT=32 width="15"></TD>
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<TR VALIGN=TOP ALIGN=LEFT>

regarding dietary supplements have not been evaluated by the Food and Drug Administration and are not intended to diagnose, treat, cure, or prevent any disease.

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FACE="Arial,Helvetica,Univers,Zurich BT">Please see our <FONT
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SIZE="-2" FACE="Arial,Helvetica,Univers,Zurich

BT">Terms of Use<FONT COLOR="#000000" SIZE="-2"

FACE="Arial,Helvetica,Univers,Zurich BT">
Copyright © 1999-2000

drugstore.com, inc. All rights

reserved</TD>

</TR>

</TABLE>

</TD>

</TR>

</TABLE>

</TD>

</TR>

</TABLE>

</BODY>

</HTML>


```
/* REGISTRATION */
```

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<HTML>
<HEAD>
<META HTTP-EQUIV="Content-Type" CONTENT="text/html;
charset=ISO-8859-1">
<META NAME="Generator" CONTENT="Microsoft FrontPage 4.0">
<TITLE>register</TITLE>
<SCRIPT LANGUAGE="JavaScript 1.1">
<!-- Original: Martin Webb (martin@irt.org) -->

<!-- This script and many more are available free online at -->
<!-- The JavaScript Source!! http://javascript.internet.com -->

<!-- Begin
function right(e) {
if (navigator.appName == 'Netscape' &&
(e.which == 3 || e.which == 2))
return false;
else if (navigator.appName == 'Microsoft Internet Explorer' &&
(event.button == 2 || event.button == 3)) {
alert("Sorry, you do not have permission to view source.");
return false;
}
return true;
}

document.onmousedown=right;
document.onmouseup=right;
if (document.layers) window.captureEvents(Event.MOUSEDOWN);
if (document.layers) window.captureEvents(Event.MOUSEUP);
window.onmousedown=right;
window.onmouseup=right;
// End -->
</script>

</HEAD>
```

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<TD WIDTH=5><IMG SRC="file:///C:/NetObjects Fusion 4.0

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<TD WIDTH=100 COLSPAN=3 ALIGN=LEFT VALIGN=TOP><IMG ID="Picture11" height=30 width=100
SRC="Autogen/img_4626df2f.jpg" BORDER=0></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=4 HEIGHT=19></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD HEIGHT=30></TD>

<TD WIDTH=100 COLSPAN=3 ALIGN=LEFT VALIGN=TOP><IMG ID="Picture12" height=30 width=100
SRC="Autogen/img_4626dfc10.jpg" BORDER=0></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

```
<TD COLSPAN=4 HEIGHT=22></TD>
</TR>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
  <TD HEIGHT=30></TD>
```

```
<TD WIDTH=100 COLSPAN=3 ALIGN=LEFT VALIGN=TOP><a
  HREF="order.htm"><IMG ID="Picture14" HEIGHT=30 WIDTH=100
  SRC="Autogen/img_4626e0611.jpg" BORDER=0></a></TD>
</TR>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
  <TD COLSPAN=4 HEIGHT=1414></TD>
</TR>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
  <TD COLSPAN=2 HEIGHT=29></TD>
  <TD WIDTH=70 ALIGN=LEFT VALIGN=TOP></TD>
  <TD></TD>
</TR>
```

```
</TABLE>
```

```
</TD>
```

```
<TD height="1591" width="868">
```

```
<TABLE BORDER=0 CELLSPACING=0 CELLPADDING=0
WIDTH=860 NOF=LY>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
```

```
<TD WIDTH=552 HEIGHT=77 COLSPAN=2>
```

```

```

```
</TD>
```

```
<TD></TD>
```

```
</TR>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
```

```
<TD WIDTH=505><P><FONT COLOR="#000000"
```

```
SIZE="+2" FACE="Times New Roman,Times,Times
```

```
NewRoman">Registration Information<BR></FONT><FONT
```

```
COLOR="#000000" FACE="Times New Roman,Times,Times
```

```
NewRoman">Provide visitors with reasons
```

```
to register. Resize, add, move, or delete this and other page
elements to accommodate your information needs</FONT></TD>
```

```
<TD COLSPAN=2></TD>
```

```
</TR>
```

```
<TR VALIGN=TOP ALIGN=LEFT>
```

<TD WIDTH=505><P> <P><FONT
COLOR="#000000" SIZE="+1" FACE="Times New Roman,Times,Times
NewRoman">Contact Information</TD>

<TD COLSPAN=2></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=3 HEIGHT=3></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD WIDTH=860 HEIGHT=897 COLSPAN=3>

<FORM NAME="LayoutRegion1FORM"

ACTION="http://localhost:8080/servlet/Register_s" METHOD=POST>

<TABLE CELLPADDING=0 CELLSPACING=0

BORDER=0 WIDTH=709>

<TR VALIGN=TOP ALIGN=LEFT>

<TD height="415" width="163">

<TABLE BORDER=0 CELLSPACING=0 CELLPADDING=0

WIDTH=148 NOF="LayoutRegion1" height="388">

<TR VALIGN=TOP ALIGN=LEFT>

<TD WIDTH=13 HEIGHT=26><IMG

SRC="file:///C:/NetObjects Fusion 4.0 Trial/User

Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=13 HEIGHT=1

BORDER=0></TD>

<TD WIDTH=1 height="26"><IMG

SRC="file:///C:/NetObjects Fusion 4.0 Trial/User

Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1

BORDER=0></TD>

<TD WIDTH=133 height="26"><IMG

SRC="file:///C:/NetObjects Fusion 4.0 Trial/User

Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=133 HEIGHT=1

BORDER=0></TD>

<TD WIDTH=1 height="26"><IMG

SRC="file:///C:/NetObjects Fusion 4.0 Trial/User

Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1

BORDER=0></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD height="25"></TD>

<TD WIDTH=268 height="26"><IMG
SRC="file:///C:/NetObjects Fusion 4.0 Trial/User
Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=268 HEIGHT=1
BORDER=0></TD>

<TD WIDTH=1 height="26"><IMG
SRC="file:///C:/NetObjects Fusion 4.0 Trial/User
Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1
BORDER=0></TD>

<TD WIDTH=1 height="26"><IMG
SRC="file:///C:/NetObjects Fusion 4.0 Trial/User
Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1
BORDER=0></TD>

<TD WIDTH=1 height="26"><IMG
SRC="file:///C:/NetObjects Fusion 4.0 Trial/User
Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1
BORDER=0></TD>

<TD WIDTH=6 height="26"><IMG
SRC="file:///C:/NetObjects Fusion 4.0 Trial/User
Sites/proj11/Preview/Autogen/clearpixel.gif" WIDTH=1 HEIGHT=1
BORDER=0></TD>

</TR>
<TR VALIGN=TOP ALIGN=LEFT>
<TD HEIGHT=22 width="140"><INPUT
ID="FormsEditField6" TYPE=TEXT NAME="NAME" VALUE=""
SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5
height="22"></TD>

<TD COLSPAN=4 width="15"
height="22"></TD>

</TR>
<TR VALIGN=TOP ALIGN=LEFT>
<TD COLSPAN=10 HEIGHT=22
width="439"></TD>

</TR>
<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=2 HEIGHT=23
width="143"><INPUT ID="FormsEditField2" TYPE=PASSWORD
NAME="PASSWORD" VALUE="" SIZE=34 MAXLENGTH=34></TD>
<TD WIDTH=280 COLSPAN=5

height="23"></TD>

<TD COLSPAN=3 width="12"

height="23"></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=11 width="439"></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=5 HEIGHT=23 width="152"><INPUT
ID="FormsEditField4" TYPE=PASSWORD NAME="CONFPASS"
VALUE="" SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=285 COLSPAN=5 height="23">
</TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=19 width="439"></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=3 HEIGHT=23 width="146"><INPUT
ID="FormsEditField3" TYPE=TEXT NAME="EMAIL" VALUE=""
SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">
</TD>

<TD COLSPAN=2 height="23" width="9"></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=21 width="439"></TD>

</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=4 HEIGHT=23 width="149"><INPUT
ID="FormsEditField5" TYPE=TEXT NAME="PHONE" VALUE=""
SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">
</TD>

<TD height="23" width="6"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=23 width="439"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD HEIGHT=23 width="140"><INPUT
ID="FormsEditField7" TYPE=TEXT NAME="FAX" VALUE="" SIZE=34
MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">
</TD>

<TD COLSPAN=4 height="23" width="15"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=26 width="439"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD HEIGHT=23 width="140"><INPUT
ID="FormsEditField8" TYPE=TEXT NAME="STR" VALUE="" SIZE=34
MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">

</TD>

<TD COLSPAN=4 height="23" width="15"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=18 width="439"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD HEIGHT=23 width="140"><INPUT
ID="FormsEditField9" TYPE=TEXT NAME="PLACE" VALUE=""
SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">
</TD>

<TD COLSPAN=4 height="23" width="15"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD COLSPAN=10 HEIGHT=22 width="439"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>

<TD HEIGHT=23 width="140"><INPUT
ID="FormsEditField1" TYPE=TEXT NAME="STATE" VALUE=""
SIZE=34 MAXLENGTH=34></TD>

<TD WIDTH=280 COLSPAN=5 height="23">
</TD>

<TD COLSPAN=4 height="23" width="15"></TD>
</TR>

<TR VALIGN=TOP ALIGN=LEFT>


```
/* COOKIE */
```

```
<HTML>
```

```
<HEAD>
```

```
<TITLE> New Document </TITLE>
```

```
<SCRIPT LANGUAGE="JavaScript1.1">
```

```
<!-- Original: Martin Webb (martin@irt.org) -->
```

```
<!-- This script and many more are available free online at -->
```

```
<!-- The JavaScript Source!! http://javascript.internet.com -->
```

```
<!-- Begin
```

```
function right(e) {
```

```
if (navigator.appName == 'Netscape' &&
```

```
(e.which == 3 || e.which == 2))
```

```
return false;
```

```
else if (navigator.appName == 'Microsoft Internet Explorer' &&
```

```
(event.button == 2 || event.button == 3)) {
```

```
alert("Sorry, you do not have permission to view source.");
```

```
return false;
```

```
}
```

```
return true;
```

```
}
```

```
document.onmousedown=right;
```

```
document.onmouseup=right;
```

```
if (document.layers) window.captureEvents(Event.MOUSEDOWN);
```

```
if (document.layers) window.captureEvents(Event.MOUSEUP);
```

```
window.onmousedown=right;
```

```
window.onmouseup=right;
```

```
// End -->
```

```
</script>
```

```
</HEAD>
```

```
<BODY BGCOLOR="#FFFFFF">
<form method=post action="http://localhost:8080/servlet/Cookser">
<pre>&nbsp;</pre>
<pre>Enter your Bill Amount:
<input type=text name=data>
<input type=submit name=submit value="Add Cookie">
</pre>
</form>
</BODY>
</HTML>
```



```
* REGISTRATION VERIFICATION */
```

```
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;
import java.util.*;
import java.awt.*;

public class Register_s extends HttpServlet {
    Connection cc;
    Statement ss;
    ResultSet rs;
    String sn,un,pw;
    String str,sq;
    PrintWriter o;
    String s1,s2,s3,s4,s5,s6,s7,s8,s9;

    public void service(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException {

        try{
            Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
            System.out.println("Driver Created");
            cc=DriverManager.getConnection("jdbc:odbc:hh");
            System.out.println("Connection Established: ");
            ss=cc.createStatement();
            System.out.println("Statement Created");
        } catch(Exception ee){
            System.out.println("NO");
        }
        res.setContentType("text/html");
        o=res.getWriter();
        s1=req.getParameter("NAME");
        s2=req.getParameter("PASSWORD");
        s3=req.getParameter("CONFPASS");
```



```

s4=req.getParameter("EMAIL");
s5=req.getParameter("PHONE");
s6=req.getParameter("FAX");
s7=req.getParameter("STR");
s8=req.getParameter("PLACE");
s9=req.getParameter("STATE");
str=Register1(s1,s2,s3,s4,s5,s6,s7,s8,s9);
o.println(str);
o.println(s1);

```

```

}

```

```

String Register1(String a1,String a2,String a3,String a4,String a5,String
a6,String a7,String a8,String a9){
    try {

        System.out.println(s1);
        sq="insert into Entry
values(""+a1+"",""+a2+"",""+a3+"",""+a4+"",""+a5+"",""+a6+"",""+a7+"",""+a8+"","
+a9+"");

        ss.execute(sq);
    } catch(SQLException e){
        System.out.println("Exception...");
    }
    String s="Successfully Registered";
    return s;
}
}

```

```
* REGISTRATION FOR NEW USER */
```

```
import java.sql.*;
import java.awt.*;
import java.util.*;
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
```

```
public class Regver extends HttpServlet {
```

```
    Connection c;
```

```
    Statement st;
```

```
    ResultSet rs;
```

```
    String un,pw,str,s1,s2;
```

```
    String Regve(String us,String pw){
```

```
        try {
```

```
            st=c.createStatement();
```

```
            rs.executeQuery("select E_Name,E_Pass from Entry");
```

```
            s1=rs.getString(1);
```

```
            s2=rs.getString(2);
```

```
            if((s1.equals(un)) &&(s2.equals(pw)))
```

```
                System.out.println("Valid User");
```

```
            else
```

```
                System.out.println("Register");
```

```
        }
```

```
        catch(SQLException e){}
```

```
    }
    public void doGet(HttpServletRequest req,HttpServletResponse res)throws
    IOException,ServletException
```

```
    {
```

```
        res.setContentType("text/html");
```

```
        PrintWriter o=res.getWriter();
```

```
        us=req.getParameter(" Name");
```

```
        pw=req.getParameter("Password");
```

```
str=Regve(us,pw);  
o.println(us);  
o.println(pw);  
}
```

```
* PRODUCT DESCRIPTION */
```

```
import javax.servlet.*;  
import javax.servlet.http.*;  
import java.io.*;  
import java.util.*;  
import java.sql.*;  
import HTML.*;
```

```
public class ProDesc extends HttpServlet  
{  
    public void init(ServletConfig config) throws ServletException {  
        super.init(config);  
    }  
    public void doGet(HttpServletRequest req, HttpServletResponse res) throws  
        ServletException, IOException {  
        doPost(req, res);  
    }  
    public void doPost(HttpServletRequest req, HttpServletResponse res) throws  
        ServletException, IOException {  
        res.setContentType("text/html");  
        PrintWriter pw=res.getWriter();  
        Connection cc=null;  
        Connection cc;  
            Statement ss;  
            ResultSet rs;  
        HTMLDocument doc=new HTMLDocument("product Description");  
        try  
            {  
                Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");  
                System.out.println("Driver Created");  
                cc=DriverManager.getConnection("jdbc:odbc:hh");  
                System.out.println("Connection Established: ");  
                ss=cc.createStatement();
```

```
System.out.println("Statement Created");  
rs=ss.executeQuery("select * from products");
```

```
HTMLTable table=new HTMLTable();  
table.setBorder(1);  
HTMLTableRow row=null;  
HTMLTableCell cell=null;  
row=new HTMLTableRow();
```

```
cell=new HTMLTableCell(HTMLTableCell.HEADING);  
cell.addObject(new HTMLText("item"));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.HEADING);  
cell.addObject(new HTMLText("produ"));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.HEADING);  
cell.addObject(new HTMLText("desc"));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.HEADING);  
cell.addObject(new HTMLText("price"));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.HEADING);  
cell.addObject(new HTMLText("qty"));  
row.addObject(cell);
```

```
table.addObject(row);
```

```
while(rs.next())  
{  
row=new HTMLTableRow();
```

```
cell=new HTMLTableCell(HTMLTableCell.DATA);
```

```
cell.addObject (new HTMLText(rs.getString("item")));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.DATA);  
cell.addObject (new HTMLText(rs.getString("produ")));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.DATA);  
cell.addObject (new HTMLText(rs.getString("desc")));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.DATA);  
cell.addObject (new HTMLText(rs.getString("price")));  
row.addObject(cell);
```

```
cell=new HTMLTableCell(HTMLTableCell.DATA);  
cell.addObject (new HTMLText(rs.getString("qty")));  
row.addObject(cell);
```

```
table.addObject(row);  
}  
rs.close();  
doc.addObject(table);  
}  
} catch(SQLException sl)  
System.out.println(sl.getMessage());  
} catch(ClassNotFoundException cnf)  
System.out.println(cnf.getMessage());  
} catch(Exception ex)  
System.out.println(ex.getMessage());  
}  
pw.println(doc.toHTML())  
pw.close();  
}  
}
```

```
}
```

```

ORDER FORM */
import javax.servlet.*;
import javax.servlet.http.*;
import java.io.*;
import java.sql.*;
import java.util.*;

public class order extends HttpServlet
{
int st,pq1,pq2,pq3,pq4,tax,tot;
Connection c;
Statement sta;
ResultSet rs;
String sn,un,pw,s1,na,sq;
Connection cc;
Statement ss;

String p11,p12,p13,p14,p15,p21,p22,p23,p24,p25;
String p31,p32,p33,p34,p35,p41,p42,p43,p44,p45;
String spg,s2,s3,s4,s5,s6,s7;
String b1,b2,b3,b4,b5,b6,b7,b8;
String c1,c2,c3,c4;
String sp1,sp2,sp3,sp4,spg1,sb,sc;
public void service(HttpServletRequest req,HttpServletResponse res)throws
ServletException,IOException
{
try
{
Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");
System.out.println("Driver Created");
cc=DriverManager.getConnection("jdbc:odbc:hh");
System.out.println("Connection Established: ");
ss=cc.createStatement();
System.out.println("Statement Created");
} catch(Exception ee)
{
System.out.println("NO");
}
res.setContentType("text/html");

```

```
PrintWriter o=res.getWriter();  
p11=req.getParameter("product1");  
p12=req.getParameter("item1");  
p13=req.getParameter("desc1");  
p14=req.getParameter("price1");  
p15=req.getParameter("qty1");
```

```
p21=req.getParameter("product2");  
p22=req.getParameter("item2");  
p23=req.getParameter("desc2");  
p24=req.getParameter("price2");  
p25=req.getParameter("qty2");
```

```
p31=req.getParameter("product3");  
p32=req.getParameter("item3");  
p33=req.getParameter("desc3");  
p34=req.getParameter("price3");  
p35=req.getParameter("qty3");
```

```
p41=req.getParameter("product4");  
p42=req.getParameter("item4");  
p43=req.getParameter("desc4");  
p44=req.getParameter("price4");  
p45=req.getParameter("qty4");
```

```
spg=req.getParameter("ship_name");  
s2=req.getParameter("ship_address");  
s3=req.getParameter("ship_city");  
s4=req.getParameter("ship_state");  
s5=req.getParameter("ship_country");  
s6=req.getParameter("ship_zip");  
s7=req.getParameter("ship_email");
```



```
b1=req.getParameter("bill_name");
b2=req.getParameter("bill_address");
b3=req.getParameter("bill_city");
b4=req.getParameter("bill_state");
b5=req.getParameter("bill_country");
b6=req.getParameter("bill_zip");
b7=req.getParameter("bill_email");

c1=req.getParameter("card_type");
c2=req.getParameter("card_name");
c3=req.getParameter("card_number");
c4=req.getParameter("card_expiration");
try {
    sp1=products(p11,p12,p13,p14,p15);
} catch(Exception ee){System.out.println("Pro1");}
try
{
    sp2=products(p21,p22,p23,p24,p25);
} catch(Exception ee){System.out.println("Pro2");}
try
{
    sp3=products(p31,p32,p33,p34,p35);
} catch(Exception ee){System.out.println("Pro3");}
try
{
    sp4=products(p41,p42,p43,p44,p45);
} catch(Exception ee){System.out.println("Pro4");}

try
{
    spg1=ship1(spg,s2,s3,s4,s5,s6,s7);
} catch(Exception ee){System.out.println("Ship");}
```

```

try
{
sb=bill1(b1,b2,b3,b4,b5,b6,b7);
}catch(Exception ee){System.out.println("Bill");}
try
{
sc=card1(c1,c2,c3,c4);
}catch(Exception ee){System.out.println("Card");}

int p1,p2,p3,p4,q1,q2,q3,q4;

p1=Integer.parseInt(p14);

p2=Integer.parseInt(p24);
p3=Integer.parseInt(p34);
p4=Integer.parseInt(p44);

q1=Integer.parseInt(p15);
q2=Integer.parseInt(p25);
q3=Integer.parseInt(p35);
q4=Integer.parseInt(p45);

int pq1,pq2,pq3,pq4,st,tax,tot;
pq1=p1*q1;
pq2=p2*q2;
pq3=p3*q3;
pq4=p4*q4;
/*o.println("Pro1 Value"+sp1);
o.println("Pro2 Value"+sp2);
o.println("Pro3 Value"+sp3);
o.println("Pro4 Value"+sp4);
o.println("Ship Value"+spg1);
o.println("Bill Value"+sb);
o.println("Card Value"+sc);

```

```

    */
    try
    {
        total(pq1,p11);
        total(pq2,p21);
        total(pq3,p31);
        total(pq4,p41);
    } catch(Exception ee){System.out.println("Total");}
    try
    {
        st=pq1+pq2+pq3+pq4;
        tax=st*10/100;
        tot=st+tax;
        PrintWriter p=res.getWriter();
        /*p.println("total1.setText(pq1)");
        p.println("total2.setText(pq2)");
        p.println("total3.setText(pq3)");
        p.println("total4.setText(pq4)");
        p.println("subtotal.setText(st)");
        p.println("tax.setText(st)");
        p.println("grandtotal.setText(st)");*/
        p.println("your billing amount is "+st);
        p.println("tax amount:" +tax);
        p.println("Amount Except tax "+tot);
    } catch(Exception ee){ }

```

```

}
public String products(String s1,String s2,String s3,String s4,String s5)throws
Exception
{

```

```

        sq="insert into Products
values(""+s1+"",""+s2+"",""+s3+"",""+s4+"",""+s5+"",""+s6+"");
        ss.execute(sq);
        String s="PRODUCTS SUCCESSFULLY REGISTERED";
        return s;
    }

```

```

public String ship1(String s1,String s2,String s3,String s4,String s5,String s6,String
s7)throws Exception
    {
        sq="insert into Ship_Pro
values(""+s1+"",""+s2+"",""+s3+"",""+s4+"",""+s5+"",""+s6+"",""+s7+"");
        ss.execute(sq);
        String s="SHIPPING ADDRESS SUCCESSFULLY REGISTERED";
        return s;
    }

```

```

public String bill1(String s1,String s2,String s3,String s4,String s5,String s6,String
s7)throws Exception
    {
        sq="insert into Bill_Pro
values(""+s1+"",""+s2+"",""+s3+"",""+s4+"",""+s5+"",""+s6+"",""+s7+"");
        ss.execute(sq);
        String s="BILLING ADDRESS SUCCESSFULLY REGISTERED";
        return s;
    }

```

```

public String card1(String s1,String s2,String s3,String s4)throws Exception
    {
        sq="insert into Card_Pro values(""+s1+"",""+s2+"",""+s3+"",""+s4+"");
        ss.execute(sq);
        String s="SUCCESSFULLY REGISTERED";
        return s;
    }

```

```
public String total(int t1,String p)throws Exception
{
    String sst=String.valueOf(t1);
    sq="update Products set Total='"+sst+"' where Produ='"+p+"'";
    ss.execute(sq);
    String s="TOTAL SUCCESSFULLY REGISTERED";
    return s;
}
```

```
* USING COOKIE */
```

```
import java.io.*;
```

```
import javax.servlet.*;
```

```
import javax.servlet.http.*;
```

```
public class Cookser extends HttpServlet
```

```
{
```

```
public void service(HttpServletRequest req,HttpServletResponse res)throws  
ServletException,IOException{
```

```
String data=req.getParameter("data");
```

```
Cookie cook=new Cookie("MyCookie",data);
```

```
res.addCookie(cook);
```

```
res.setContentType("Text/html");
```

```
PrintWriter pw=res.getWriter();
```

```
pw.println("<b>Bill amount is send to MyCookie");
```

```
pw.println(data);
```

```
pw.close();
```

```
}
```

```
}
```

```
 * USING HIT COUNTER */
```

```
import java.io.*;  
import java.util.*;  
import javax.servlet.*;  
import javax.servlet.http.*;
```

```
public class Count extends HttpServlet
```

```
    static int count=0;
```

```
    public void doGet(HttpServletRequest req,HttpServletResponse res) throws  
ServletException,IOException
```

```
    {  
  
        PrintWriter out=res.getWriter();  
        res.setContentType("text/html");  
        out.println("This servlet has been accessed "+(++count)+" times");  
    }  
}
```

```
SESSION TRACKING */
```

```
import java.io.*;  
import java.util.*;  
import javax.servlet.*;  
import javax.servlet.http.*;
```

```
public class Sesstrack extends HttpServlet
```

```
    public void doGet(HttpServletRequest req, HttpServletResponse res) throws  
ServletException, IOException {
```

```
    HttpSession hs=req.getSession(true);  
    res.setContentType("text/html");  
    PrintWriter pw=res.getWriter();  
    pw.print("<H1>");  
    Date date=(Date)hs.getValue("date");  
    if(date !=null){  
        pw.print("Last access :"+date+"<BR>");  
    }  
    date =new Date();  
    hs.putValue("date",date);  
    pw.println("Current date: "+ date);  
}
```




Product Line Overview

Product Listing

Use the data list below to link to Products stacked page. In laying out this consider that the data list immediately below this text block will dynamically when published based on the number of stacked pages you have.

- [Catalog](#)
- [Services](#)
- [Order Form](#)

allergy & sinus

Advil Cold & Sinus
Ibuprofen/Pseudoephedrine HCl Coated Caplets **40 ea**



advanced formula for cold & sinus relief

Was ~~\$7.00~~ Now **\$6.99**

featured products

Cytodyne Technologies

Maximum Strength Xenadrine RFA-1, Capsules
120 ea

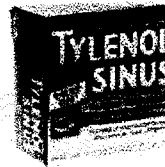


Rapid Fat Loss Catalyst.

Was ~~\$30.05~~ Now **\$35.99**

Tylenol Sinus

Maximum Strength Geltabs, Non Drowsy
48 ea



Pain Reliever and Nasal Deconge

Was ~~\$6.00~~ Now **\$5.99**

digestion

Bayer Regimen

Tablets, Adult Low Strength Aspirin 81 mg, Pain F
Safety Coated
120 ea



The Wonder Drug that Works Wonders

Was ~~\$30.05~~ Now **\$6.49**

Send mail to sriuma_ramani@hotmail.com with questions or comments about this web sit

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st access :Sat Jan 01 19:51:21 GMT+05:30 2000

urrent date: Sat Jan 01 19:51:26 GMT+05:30 2000

Contacting Customer Service

What are you expecting from our company regarding service?

Tech Support

Email: TS@co.com
Phone: (000) 555-1234
Fax: (000) 555-1235

Accounts Payable

Email: AP@co.com
Phone: (000) 555-1234
Fax: (000) 555-1235

Registration

Email: Reg@co.com
Phone: (000) 555-1234
Fax: (000) 555-1235

Billing

Email: Billing@co.com
Phone: (000) 555-1234
Fax: (000) 555-1235

Section Contents

Use the links below to navigate easily through this section.

Registration

USER NAME :

PASS WORD:

Sign Up!

Next >>

[\[Catalog\] \[Service\] \[Order Form\]](#)
Send mail to srimma_ramani@excite.com with questions or comments about this web site.

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Registration Information

Provide visitors with reasons to register. Resize, add, move, or delete this and other page elements to accommodate your information needs

Contact Information

Name

Password

ConfirmPassword

Email

Phone

Fax

Street Name

Place

State

