

DTS Web Server

Abstract

This project implements a Web Server with Servlet Container, includes most of functionality of real Web server including a Servlet container capability. The server is pretty small as in Java code as in result byte code. General purpose of the Web server is running and debugging Servlets. It can be used as a regular web server for sites with low to medium load.

A Servlet Container is a separate module; it may run within the web server as a single program, may run as a different program, but part of the same address space, or run in different process-spaces. Computer, including software package that provides a specific kind of service to client software running on other computers.

A Servlet container is a specialized web server that supports Servlet execution. It combines the basic functionality of a web server with certain Java/Servlet specific optimizations and extensions – such as an integrated Java runtime environment, and the ability to automatically translate specific URLs into Servlet requests. Individual Servlets are registered with a Servlet container, providing the container with information about what functionality they provide, and what URL or other resource locator they will use to identify

themselves.

Existing System

In the Existing system the webserver doesn't have the servlets and the container. The system lacks the functionality of real web server which includes the servlet container capability. The server is not small as in java code. It normally works as a regular web server for sites.

Limitations in Existing System

- *It doesn't provide the servlet container in the web server*
 - *It works as a general purpose web server for sites*
 - *Slow and unreliable.*
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Proposed System

In the proposed system a WebServer with Servlet Container, includes most of functionality of real Web server including a Servlet container capability. The server is pretty small as in Java code as in result byte code. A computer program that is responsible for accepting HTTP requests from clients, which are known as web browsers, and serving them HTTP responses along with optional data contents, which usually are web pages such as HTML documents and linked objects, images, etc.

Advantages over Existing System

- *Here the Web Server works with servlet container*
- *A program that is responsible for accepting HTTP requests from clients,*
- *It is light weight servlet container*
- *Very Fast and Reliable.*

Scope of the System

The proposed system scope is limited to some scope; In this project we develop web server only to execute servlets by using servlet parser. So it will not execute any other files like java server pages etc. If the database in our program is huge then the reliability decreases. There is no security at this level for this webserver.

We can extend our work for future products also. Suppose our product having more part of servlets and having some Jsp code at that time by using jsp parsers we can execute jsp files also. We can extend it up to any level. We can enhance reliability and security for our future products.

Technologies to be used

- ***Programming Language: Java***
- ***Preferred Technologies:***
- ***Data Structures : Java Collections API***
- ***Networking Programming : Java Socket API***

- **Build Tool:** ANT
- **Debug Tool:** Log 4J
- **CASE tool:** Rational Rose, Visual Paradigm, Enterprise Architect
- **Operating System:** Windows XP/2000/2003, LINUX, Solaris
- **J2EE Web/Application Server:** Tomcat/Weblogic/WebSphere/JBoss/Glass Fish
- **IDEs:** Eclipse with My Eclipse plug-ins/Net Beans/RAD
- **Browser:** IE/Mozilla

Hardware requirements

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|---------------------|-------|-------------------------|
| • Pentium processor | ----- | (P IV) 1.06GHZ or above |
| • RAM Capacity | ----- | 256MB |
| • Hard Disk | ----- | 40GB |
| • Floppy disk | ----- | 1.44 MB |
| • CD-ROM Drive | ----- | 32 HZ |
| • KEYBOARD | ----- | 108 Standard |