





••• Demo SSI code this is the main file (demoSSI.shtml) - everything between the two horizontal lines is held in an external file (table.html). <



••• CGI

- A CGI program can produce a complete HTTP response, or just the URL of an existing document
- CGI programs often are stored in a directory named cgi-bin
- CGI programs may be written in any language
- http://marian.cs.nott.ac.uk/~bnk/cgi-bin/demoCGI
- Most major languages have CGI libraries
- PERL is the most commonly used language for CGI





Perl PERL Practical Extraction and Report Language Interpreted programming language Ported to most platforms Originally intended primarily for Unix administrative tasks Exceptionally powerful text processing



http://www.cs.nott.ac.uk/~bnk/WPS/popcorn.html

http://www.cs.nott.ac.uk/~bnk/WPS/popcorn.txt (perl code)

Java Servlets

- A servlet is a compiled Java class
- Servlets are executed on the server system under the control of the Web server
- Servlets are managed by the servlet container (also called servlet engine)
- Servlets are called through HTML
- Servlets receive requests and return responses, both of which are supported by the HTTP protocol



Java Servlet Advantages

- Can be faster than CGI, because they can run in the server process
- Have direct access to Java APIs
- Because they continue to run (unlike CGI programs), they can save state information
- Have the usual benefits of being written in Java (platform independence, ease of programming)

JavaServer Pages (JSP) Released in 1999 as Sun's answer to ASP and PHP Architecturally, JSP may be viewed as a high-level abstraction of Java servlets Instead of embedding HTML in Java code, code is embedded in HTML to provide the dynamic parts JSP syntax is a fluid mix of two basic content forms: scriptlet elements and markup markup is typically standard HTML or XML

- scriptlet elements are delimited blocks of Java code which may be intermixed with the markup

JavaServer Pages (JSP)

- Because Java is a compiled not a scripting language, JSP pages must be compiled to Java bytecode classes before they can be executed
- JSPs are compiled into servlets by a JSP compiler So JSP is a simplified approach to writing servlets

INET Framework

- .NET Framework is a collection of technologies for the development and deployment of .NET software systems
 - pre-coded solutions form the framework's class library and cover a large range of programming needs
 - Programs written for the .NET Framework execute in a software environment that manages the program's runtime requirements - Common Language Runtime (CLR)
- .NET languages from Microsoft: VB .NET, Managed C++ .NET, JScript .NET, J# .NET, C#

ASP.NET

- Set of web application development technologies part of Microsoft's .NET platform
- Code can be embedded in ASP.NET documents, or can be separate in a codebehind file
- Any .NET language can be used
- Every ASP.NET document is compiled into a class





