DESCRIPTOR SYSTEMS
"We Bring You Up To Speed"

Introduction to Internet Technologies

Description: This course introduces IT professionals to the technologies used to power the Internet. Students will gain a high-level understanding of the four main components of J2EE-based Web applications.

Audience: Developers, managers and other professionals that do not have a Web programming background.

Prerequisites: Familiarity with the Internet as a user.

Length: 3 days

Format: Lecture with hands-on lab exercises using IBM's WebSphere Studio Application Developer.

Topics Covered:

Chapter 0: TCP/IP Overview

- IP Addresses
- Protocols: HTTP, FTP, SMTP, Telnet

Chapter 1: HTML Fundamentals

- Web Server Overview
- Basic Syntax
- Cascading Stylesheet Fundamentals

Chapter 2: HTML Concepts

- HTTP Headers
- HTML Forms
- JavaScript Fundamentals

Chapter 3: Web and Application Server Concepts

- Web Server versus Application Server
- Multi-tier Architectures

Chapter 4: Introduction to Java

- What is Java?
- History of Java
- The Java Virtual Machine
- Write Once, Run Anyware

Chapter 5: Developing Java Applets

- Applets versus Applications
- Security
- AWT and Swing Toolkit Overview
- A Simple Applet

Chapter 6: Java Server Side Overview

- What is J2EE?
- J2EE Application Servers
- J2EE Technologies Overview (JSP, Servlets, etc.)

Chapter 7: Introduction to Servlets

- What is a Servlet?
- Servlet Lifecycle
- Servlets and HTML Forms

Chapter 8: Introduction to JSPs

- Servlets and Generating HTML Issues
- JSPs versus Servlets
- Writing a Simple JSP
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Chapter 9: The Model-View-Controller Architecture

- What is MVC?

- Combining Servlets and JSPs

Chapter 10: Introduction to XML

- XML Overview and Syntax Rules
- XML Namespaces Overview
- XML Schema Overview

Chapter 11: Introduction to Web Services

- Service-Oriented Architectures
- SOAP, WSDL and UDDI Overviews