

New Features of JBuilder 2005 (2 Days)

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**New Features of JBuilder
2005 (CTI 227)**

Java is an object-oriented programming language specifically created for developing applications that will run on a LAN or the Internet. JBuilder 2005 provides a graphical environment for productive writing, testing, and debugging of Java applications. Students will learn to use JBuilder to write standalone and LAN-based Java applications and applets.

Prerequisites: *Prior programming experience with any procedural or object-oriented language. Experience with SQL or other GUI IDEs is helpful.*

Minimum software requirements: *Microsoft Windows 2000 (SP4) or XP or 2003 or later; or Mac OS X 10.3 or later. JBuilder 2005. Personal DB2, Oracle, or equivalent relational database. Java-compatible browser.*

Minimum hardware requirements: *Pentium III at 500 MHz or G4 at 800 MHz; 768 Mb RAM; 750 Mb free hard disk space before installation. Classroom machines should be networked. Internet access.*

Microsoft PowerPoint on instructor's workstation for presentation purposes.

Module 1: Building Web Interfaces

Overview of Java Server Faces (JSF)
JSF Flow Designer
JSF Configuration Editing
JSF Coding Wizards
Exercise: Using New JSF Features in JBuilder 2005

Module 2: Using the New JDK 1.5

Overview of JDK 1.5 (Formerly J2EE 5.0)
Refactoring Code to use New Features
Building Web Services using JDK 1.5
Testing Web Services using Web Services Interoperability Tools
Exercise: JDK 1.5 Refactoring
Exercise: Building and Testing Web Services using New JDK 1.5 Features

Module 3: Application Performance Improvements

Code Auditing
Code Profiling
Debugging Threads
Exercise: Using the Code Auditor
Exercise: Using OptimizeIt to Profile Code and Debug Threads

Module 4: Application Security Improvements

Overview of Fortify
Exercise: Using Fortify to Analyze Security Vulnerabilities

Module 5: Other Add-In Tools

Crystal Reports for JBuilder 2005
Exercise: Working with Crystal Reports in JBuilder 2005

Module 6: Review and Summary