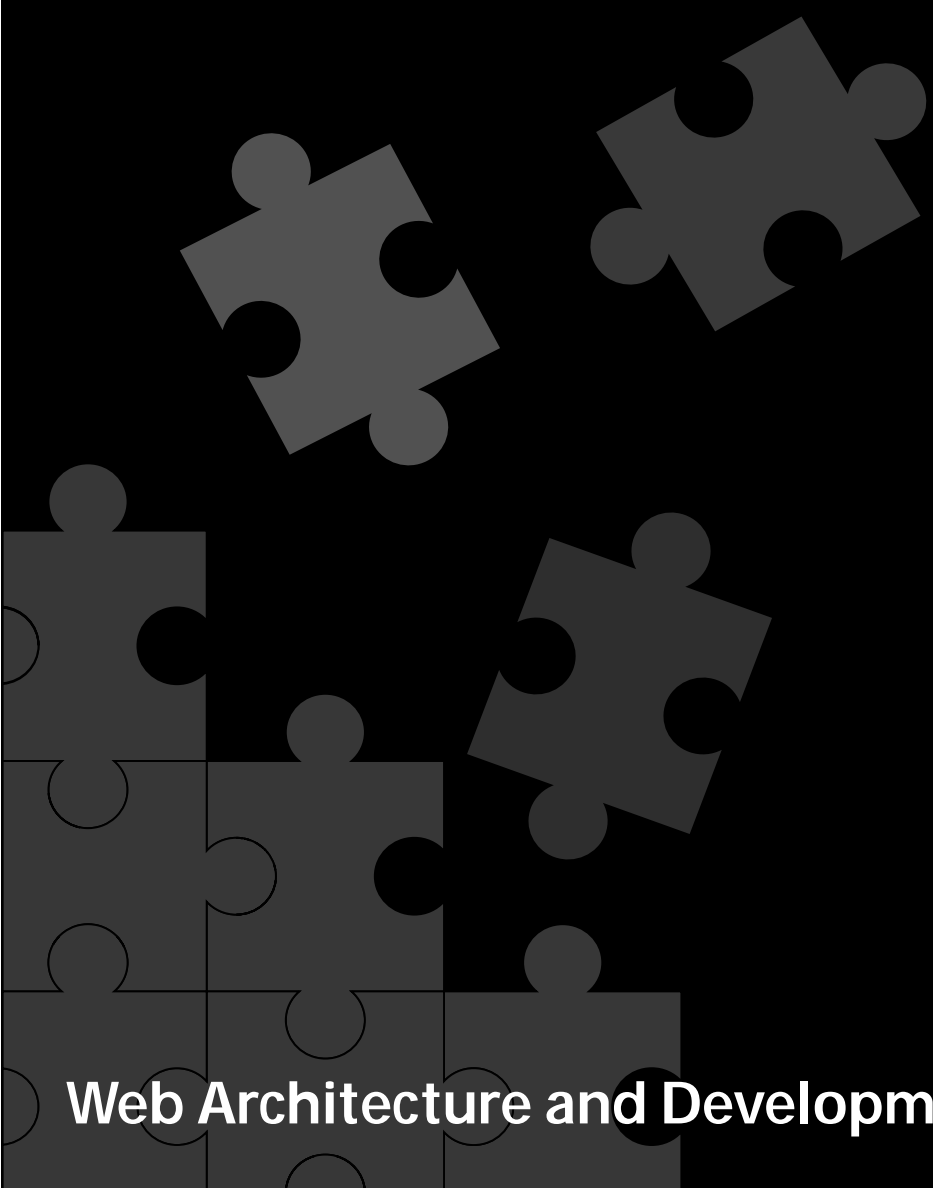


The **DSW** Group, Ltd.

Web Architecture and Development



Corporate Overview

Enhance your communications, interactivity and productivity...

Maximize your customer acquisition and retention....

In today's enterprise environment companies like yours are faced with the daunting task of tying together diverse business-critical processes controlled by disparate applications, legacy software, and incompatible operating systems. Breaking down the barriers between these is an essential step in creating enterprise information portals ready for today's global information economy.

The DSW Group can provide the software solutions that bridge the gap, not only between your existing systems, but also between your internal personnel and your customers across the Internet. We can integrate your business software with a website designed to be the portal through which your business becomes a seamless information exchange.



The DSW Group is an internationally recognized Internet Development and Consulting firm founded in 1987. Our services include Web Architecture, Web Development, Custom Application Development, Project Management and Network Solutions.

"DSW has been great to work with. They were proactive & offered solutions that far exceeded our expectations involving an enterprise system for large manufacturing facilities. One of the tools that they created, which was minor to begin with, has become the number one selling solution to our customer base. Without reservation, I would recommend them to any company that is looking for a qualified and reliable consulting firm."

Bjoern Roettger
Project Manager - Virtual Systems

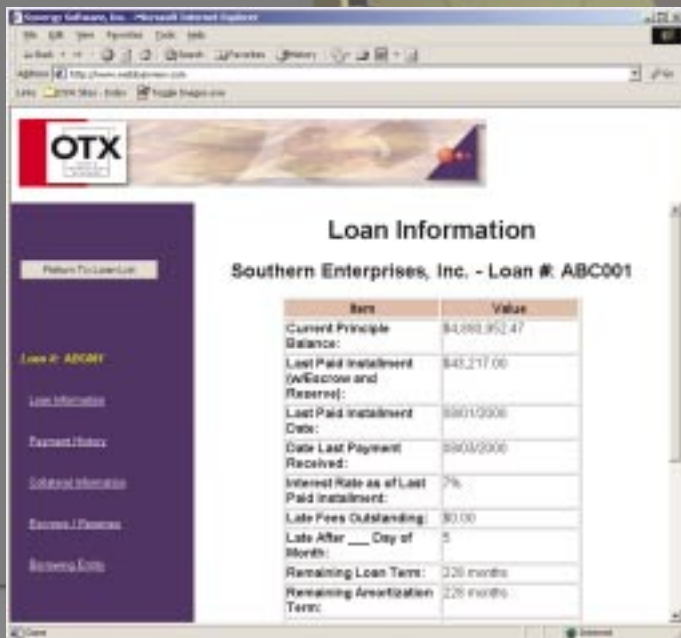
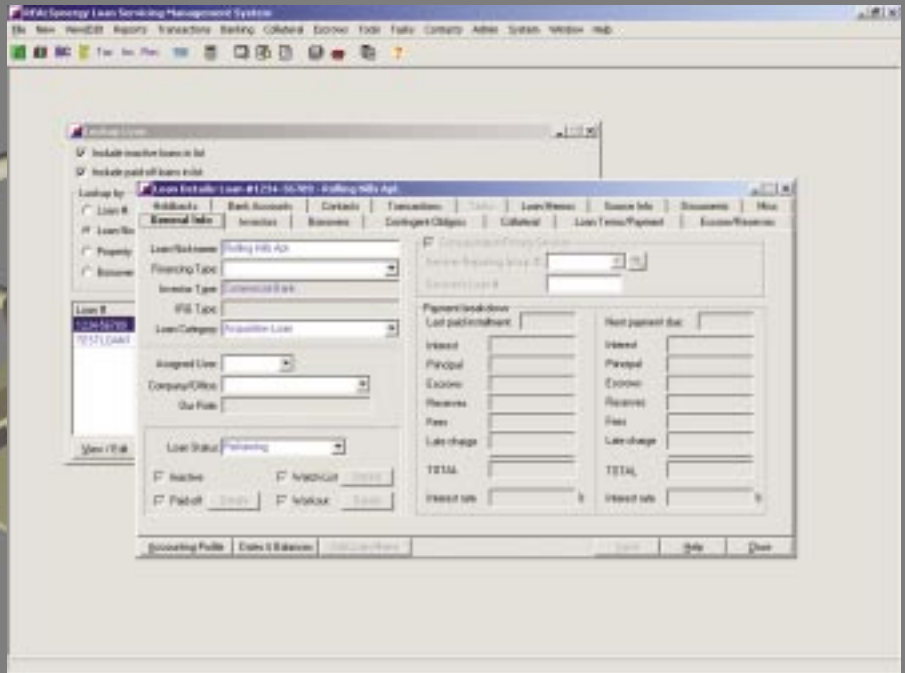
To inquire into how The DSW Group, Ltd. can fulfill your development needs, please contact our Business Development Manager Linda Browne at 770-953-0393 x 171 or visit www.thedswgroup.com for more information.

Web Architecture and Development

The
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Group, Ltd.

Loan Servicing Application

Loan Servicing Application - The goal of this loan servicing software was to maximize profitability in the commercial mortgage industry by streamlining core business processes for loan brokers. The application includes dynamic, easy-to-use contact management, call tracking and task management capabilities. All aspects of property management are supported including leases, payments and loan details. Properties are monitored through the system to ensure profitability. Overhead was decreased as a direct result of migrating repetitive manual processes to an automated application. Investors can now track and model the profitability of their holdings in real time because loan information is incorporated directly into the system. Overall productivity has been enhanced and costs have decreased.



Web Reporting Application - This application is an example of the advantages of placing core business processes onto the Internet. The reporting aspects of the Loan Servicing Application were ported to the web in order to lower costs by expanding the accessibility of the system to all stakeholders. The Internet allows the hosting company to publish relevant information to its clients, enabling both borrowers and lenders to view status reports regarding loans being brokered on their behalf. Available reports include *loan status, payment history, collateral information, escrow, and borrowing equity*. The system is password protected and its intuitive interface offers appropriate reports depending on the security status of the user. The report system is of value both to the brokerage and its clients. The broker realizes lower costs, increased communication and higher customer satisfaction and retention. Extended users of the system no longer have to go through the broker to retrieve their loan information.

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Web Architecture and Development



Web Site Development



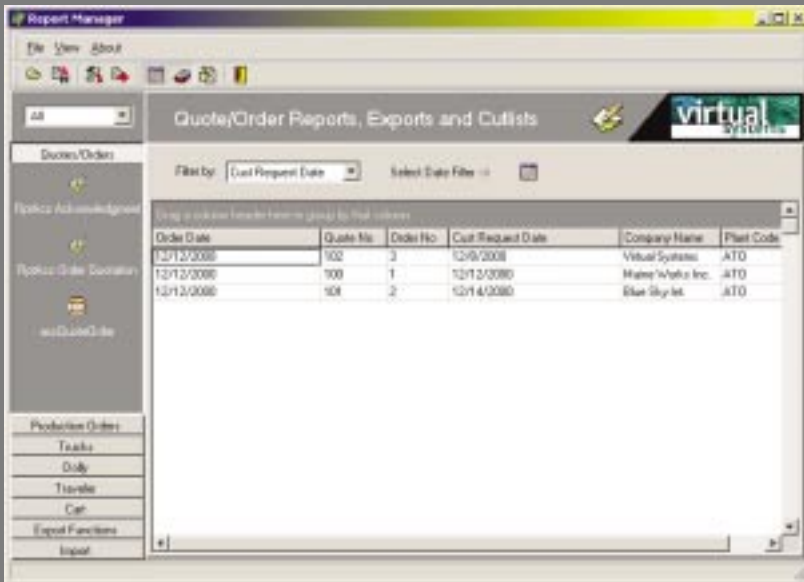
Web Site Development - Krupp Polysius Corp. is a leading engineering firm specializing in the design, supply and installation of cement plants and cement processing equipment. Polysius' previous web site offered its customers a wealth of information about the company and its products, but this information was deeply imbedded within static web pages, making it difficult and time-consuming for visitors to access it. Polysius contracted The DSW Group to update the look and feel of the company's web site and to add a specialized indexing search mechanism to provide enhanced query capabilities. Polysius wanted to publish sales-, technical- and career-related documents to the site in a variety of file formats (Microsoft Word, Excel, Adobe Acrobat, HTML), and allow visitors to search these documents and get quick access to the detailed information they need. The DSW Group designed the new search engine to allow customers to perform keyword searches and narrow the focus of the search to specific categories of interest. Documents retrieved by the program are sorted by the number of hits found for the keywords the customer entered and display each document's title, file name and size, and a brief summary of its contents. Visitors now have easy access to company and product information, leading to an increase in customer satisfaction and retention. The costs associated with site maintenance have significantly decreased, because the search engine automatically refreshes its index whenever documents are added or updated, thus eliminating manual intervention to update links and keywords for individual documents.

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Web Architecture and Development

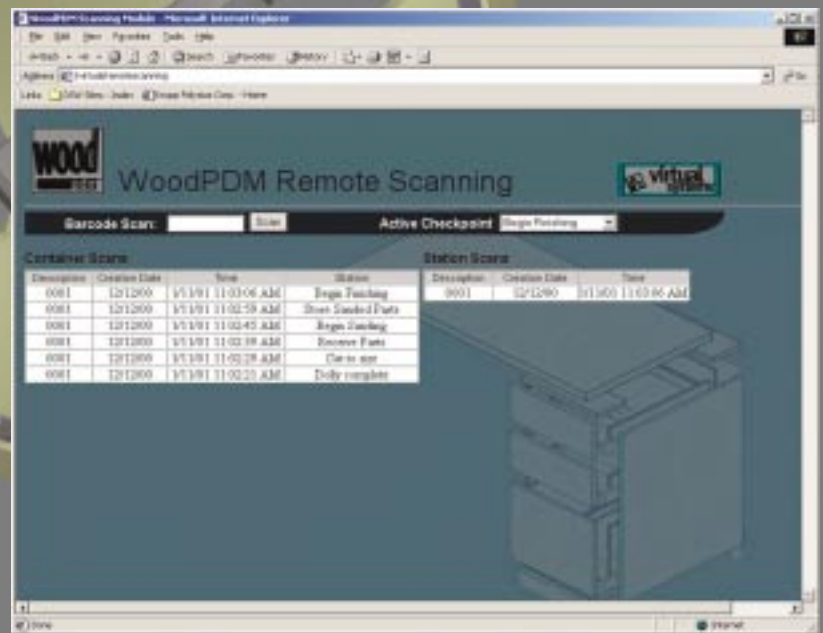


Order Management System



Order Management System - This system was designed to simplify the order management process for a custom office furniture manufacturer. All furniture orders require customization by the manufacturing plant and orders must be tracked within the plant up to the point of shipment. The system was required to encompass all stages of the order/production process and produce the necessary status reports.

Specific aspects of the system such as order generation, estimation and tracking are web enabled in order to facilitate use by remote workers in the plant. Portions of the application were hosted on the web to provide quick response times, decrease software maintenance, and arrive at an overall lower cost.



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Web Architecture and Development

The
DSW
Group, Ltd.

Consulting Services

Integrate your business processes to the web...

Streamline all business processes...

Our development services can offer the necessary tools to integrate your business processes, technologies and e-business initiatives while realizing the competitive advantages of increased brand recognition and market share, revenue growth, and reduced costs. Many Fortune 1000 companies have come to The DSW Group to train their developers. We can bring our expertise to bear on your development needs. Whether you need a more robust web site or an e-commerce solution, we can fulfill both your e-commerce and traditional business requirements.

Web Architecture and Development: We develop applications that integrate internal and external business processes to the web. Web-enabling business applications through the Internet can increase communication and decrease costs, allowing your company to focus on the business of doing business. Opportunities range from e-commerce capabilities to full integration of core business processes.

Web Site Development: Whether you require development of a new web site, maintenance of your present site, or the expansion of an existing site, we have the technology and the expertise to help you harness the power of the Internet. All web sites are custom designed according to your specifications and we offer a wide variety of features that can strengthen the impact of your web site.

Application Development: Services include business initiatives both within and outside of the web environment. We specialize in Client/Server, Multi-Tier, and Internet applications. We use proven software engineering processes to determine the needs of your organization and then implement the appropriate system.

Project Management: Our project management staff can assist you in the management and development of your software initiatives. Our staff can guide the timely development and delivery of your project, help prevent the constant changing of project requirements (scope creep), ensure that all stakeholders have a voice in the process, and make the overall process more satisfying for all participants. Projects are guided by specific methodologies and tools, and techniques are provided to ensure that critical steps are not overlooked.

Developer Training: We have trained the staffs of both large and small organizations and can bring this expertise to your development team. Our consistent delivery of quality technical training allows our developers to stay abreast of the latest technology and transfer this knowledge to all development projects.

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Web Architecture and Development



The
DSW
Group, Ltd.

The DSW Group Reviews

The DSW Group has been delivering custom software to satisfied clients for over thirteen years. Our client reviews suggest why we should be your first choice for development solutions:

"GTE Government Systems Corporation had a requirement to modify and enhance a Delphi data based application with a very tight schedule. The DSW Group performed the required modifications, delivering on time and within budget. This very positive experience has led us to specify the DSW Group for additional software development projects."

Jim Howard

GTE Government Systems Corporation

"Houston Lighting & Power had a long term project with The DSW Group. They met all scheduled milestones to remain under budget. We found DSW's professionalism to extend from the facilities, in which they are housed, to the equipment in their classrooms and the dress/demeanor of their trainers, consultants, and their office personnel. DSW is a first class operation."

Fred Smith

Houston Power and Lighting Company

"As a programmer myself, I had some very specific ideas about how I wanted certain things done. When the DSW programmers thought they had a better idea, they discussed it with me, yet they were always willing to find a way to implement my ideas rather than impose their own if that is what I chose. We have been quite satisfied with the performance of the application, and perhaps ever more so with the responsiveness and professionalism of the staff at The DSW Group ...The most telling commentary one can offer is ...that we have just submitted a proposal for an additional job for The DSW Group!"

Anne Beckwith

Duke University

"I found their staff to be dependable and always available to assist us. Very few businesses today can provide accurate price quotations at the outset of such a major project and provide the finished product on time and at the original price quoted. I have total confidence in DSW's ability to meet customer demands and would never hesitate to recommend their services to others."

M.D. Higginbotham

BellSouth Telecommunications, Inc.

"The DSW Group is a first class act promoting quality in all of it's services. They are setting a high standard in the industry."

Sakirenecia Wilcox

GDI Engineering

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Web Architecture and Development



Strategic Outsourcing

Information Technology is rapidly becoming a strategic imperative for the corporate enterprise, expanding beyond the IT department to impact every aspect of your business. Companies are shifting their way of doing business to reinvent themselves in today's marketplace. Those that succeed are embracing e-business as part of their strategic planning process.

Investments in technology can provide a competitive advantage and higher ROI when they are part of an integrated plan to support your overall business objectives, rather than disparate tactical projects that benefit only subsets of the organization. Yet in many cases, small- to medium-sized companies lack the resources to justify a dedicated Information Technology department that can provide consultative technical support to help achieve their business goals.

Since 1987, The DSW Group has been helping our clients to strategically align their organization's objectives with e-business initiatives that achieve measurable results. The benefits of outsourcing to an experienced technology partner are clear. A recent Deloitte Consulting survey found that strategic outsourcing provides 60% of the reduction in costs associated with technology development and implementation. The remaining 40% reduction in costs results from the technology itself.

When evaluating whether outsourcing is a valuable option for your organization, consider the following questions:

- **Could strategic outsourcing and custom application development benefit your organization?**

InformationWeek magazine found that over 50% of IT executives surveyed view custom applications as "very strategic." 61% of these company's IT applications include some form of custom development and 4 out of 5 executives explain the motivation in using strategic outsourcing as an opportunity to gain a competitive advantage. <http://www.informationweek.com/bizint/biz711/11bzent.htm>

- **Is your organization missing opportunities to capitalize on technical / automated solutions that could improve customer satisfaction, increase profitability or reduce operating costs?**

An InformationWeek research survey of 250 executives found that, through the deployment of e-business applications, 87% improved customer satisfaction, 68% reduced operation costs and 66% increased profitability. Other benefits included shorter time to market (59%) and increased market share (53%).

- **Could your organization's e-business strategy be enhanced to provide greater cost savings and improved ROI?**

The research company eMarketer recently found that a fully implemented e-business strategy provides the potential cost reduction of 5 percent to 10 percent of sales.

If you answered "Yes" to any of these questions, please contact The DSW Group to determine how we can work together to accomplish your business initiatives.

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Web Architecture and Development



FAQs

How do you go about the estimation process and how accurate are your estimates?

The DSW Group uses a function-point-analysis to estimate the size and scope of applications. Like any estimate, The DSW Group's estimates can only be as accurate as the information provided to us. Not all information can be included in the initial statement. The DSW Group recognizes that exact estimates are not possible at the early stages of a project development cycle but does provide an estimate range that becomes more and more accurate as the project progresses.

What information do you require before conducting an estimate?

Because the accuracy of the estimate is a function of the information input to it, The DSW Group would like as much information as possible before offering an estimate. A formal requirements-gathering stage is best suited to provide this information. DSW can provide estimates sooner than this, but knows that such estimates are "guesses" at best.

What types of risk analysis do you engage in prior to starting a development project?

DSW conducts a detailed risk analysis prior to the design phase of any development process. Once the requirements for an application are known, DSW then identifies those requirements that pose the greatest financial and schedule risk to the project. These risks are weighted and prioritized so that they can be addressed first in the development cycle. The overall risk to the project can be estimated through this process as well by adding "risk probability" numbers to the analysis.

What type of requirements analysis do you recommend prior to starting a development project?

The DSW Group prefers to conduct a formalized requirements gathering phase so that management and end users can have an opportunity to offer input and to approve of all application segments. DSW will conduct interviews or JAD (Joint Application Development) sessions with client personnel in order to create both detailed requirements specifications and "use case" models.

What percentage of time in the system development should be spent on design? Why?

In general, 60-80% of the time spent developing an application is spent in requirements-gathering/analysis and design. Much of this depends on the size of the system. DSW recognizes the desire of clients to have "coding" taking place, but we stress the necessity of having a proper design so that support, testing and implementation problems are avoided, as well as excessive rework costs.

How do you determine if a project will be completed on time or delayed?

The DSW Group maintains a project plan and task list for each project. Traditional project management techniques are used to track these tasks so that any delays can be found early in the development process. Once identified, these delays can be eliminated or the project schedule can be adjusted to limit the inconvenience.

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Web Architecture and Development



FAQs

What steps do you take in your application development process to ensure that the systems you create are maintainable?

All systems created by The DSW Group use industry standard structure and conventions to promote maintainability. DSW software engineers are required to have walkthroughs of their code and must have detailed comments within the code. Object-oriented techniques used by DSW developers help to ensure more maintainable applications.

What life-cycle model do you typically recommend for the development of a new system? Why?

Most clients prefer a high degree of visibility during their application development. DSW has chosen to use a staged spiral development model that addresses high-risk requirements at the outset and delivers small portions of the application across multiple stages. This model provides a high degree of quality, end-user visibility and short development time.

Describe the methods you will use to provide our organization the means to maintain the application on our own after you have completed the work.

DSW provides highly maintainable code-base should you want your organization to take over once the application is complete. We can also provide training in each of the tools used to create the application and technical support if required in the future. All source code and documentation, including requirements and design information, are delivered with the application.

Do we own all work products that come out of the development of a system?

All work conducted by The DSW Group for your organization belongs to you. DSW simply provides the consulting expertise needed to complete the work. All documentation, code and notes developed during the project are turned over to your organization after the work is done.

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Web Architecture and Development



Publications

White Papers

The Software Estimation Story

Christopher R. Weber

Books

JBuilder 3 Unleashed

J.N. Ford, E.C. Weber, T. Azzouka, T.L. Dietzler, J.A. Streeter, B.C. Williams,
SAMS Publishing, 1999.

Developing with Delphi - Object Oriented Techniques

E.C. Weber, J.N. Ford, C.R. Weber,
Upper Saddle River, Prentice Hall PTR, 1996

Visualization in Modern Cartography

T. Slocum, C.R. Weber et al., New York,
Pergamon Press, 1993

Conference Papers

Introduction to Java

J. Neal Ford

Multi-Threaded Queries in C++Builder

J. Neal Ford

Multi-Tier Application Development in JBuilder

J. Neal Ford

Multi-Tier Architecture in C++Builder

J. Neal Ford

Multi-Tier C++Builder Development for the Internet

J. Neal Ford

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Web Architecture and Development



The DSW Group Training Courses

The DSW Group is nationally recognized as a hands-on training center for application development. Trained developers who bring their certified expertise to the classroom and demonstrate clear and targeted methods for effective application development teach our classes. All classes have a maximum student teacher ration of twelve-to-one, so that you receive personalized instructor feedback. Each attendee has their own computer and full set of course materials. We also provide lunch (Atlanta classes only), as well as free coffee and beverages throughout the day.

Onsite Training is available just for your organization. This option is very cost effective for large groups and allows us to tailor the seminar to meet the development needs of your staff. We provide the course materials. All your organization needs to provide is an overhead projector and suitable PCs with the proper software installed (for hands-on classes). Course summaries can be faxed upon request.

We have authored Certified Courseware for Delphi, JBuilder and C++ Builder. We always provide the most up-to-date materials and information on the most recent product releases.

Your questions are answered by experienced programmers. The DSW Group has written applications that are saving time and money for companies like yours throughout the U.S. Our experiences become part of your knowledge base so that you are not reinventing the wheel. We've trained thousands of satisfied clients. Check out our client reviews and see for yourself!

Java Training - Java Training instructors at The DSW Group are the authors of JBuilder 3 Unleashed, and have developed the courseware for the Foundations and Advanced Java: Web Development courses. They are internationally recognized speakers, trainers, and developers. Our trainers have been developing with Java since it's inception and now have over five years of experience to bring into the classroom and to development projects.

Delphi Training - Delphi Training Courses offer software development professionals proven techniques for creating software designs. DSW Instructors are the original authors of Borland Corporation's Delphi Foundations courseware. They are internationally recognized speakers and trainers.

Access Training - The DSW Group, Ltd. offers Microsoft Access Training in a hands-on fashion for power users and developers. To take the first step in creating user friendly applications, attend our Application Development in MS Access class. Programming in MS Access will let you harness the power of Visual Basic for applications to create robust, bullet-proof databases in multi-user environments. For a thorough understanding of Access, we suggest taking both the Application Development in MS Access and the Programming in MS Access courses together.

We also offer Everyday Access, a course specifically designed to increase productivity for your power end-users. Everyday Access is taught as an onsite class, only.

JBuilder Training - DSW Instructors are the authors of JBuilder 3 Unleashed, and have developed Borland Corporation's official JBuilder courseware. They are internationally recognized speakers and trainers and have been developing with JBuilder since it's inception and now have over five years of experience to bring into the classroom and to development projects.

Train with the folks that wrote the book on Java, Delphi and JBuilder by taking one of our premiere Training Courses... Or let our Development Team apply their experience and technical expertise to your next software development project.

www.thedswgroup.com
Contact Sharon Floore at:
gsharon@thedswgroup.com
1-800-356-9644
770-953-0393 ext: 154.

Web Architecture and Development



Java Training

The DSW Group offers a full line of Java training for busy professionals to get up to speed on this latest development tool. Our Java instructors are the authors of JBuilder 3 Unleashed, and have developed the courseware for our Foundations and Java Web Development courses. They are internationally recognized speakers, trainers, and developers. Our trainers have been developing with Java since it's inception and now have over five years of experience to bring into the classroom and to development projects.

Java Foundations - This Java 2 Hands-on Training course is designed to get developers up to speed in Java. It covers Sun's Java 2 Platform (JDK 1.3) and contains details on how to set up a Java environment, Java language fundamentals, Object-oriented programming in Java (including such advanced topics as abstract classes and interfaces), how to build applications and Applets, when and how to use the Swing libraries, input and output, database access through JDBC, and a host of other pertinent topics. This course does not assume any development environment; it is strictly about pure Java.

Prerequisites:

Programming experience with any high-level language, user-level knowledge of Windows

Enterprise Java Development - This course covers the fundamentals of Enterprise Java Development, such as RMI, the use of Enterprise Java Beans (EJBs), including Stateful & Stateless session beans and CMP and BMP entity beans, transaction processing, security, and architectural & design considerations.

Prerequisites:

Intermediate to advanced knowledge of Java, understanding of Relational Database terminology or completion of DSW Java Foundations and Java Web Development courses

What students should expect to learn:

Students will learn how to build and deploy EJBs in a variety of Application Servers, how to build both traditional- and web-based clients that interact with EJBs, and how best to architect distributed applications.

Java Web Development - This course covers the fundamental technologies and techniques required to create state-of-the-art web applications using Java. This 5 day, hands-on course covers servlets, Java Server Pages (JSP), and XML development in Java. It shows how to handle common servlet tasks such as setting and reading HTTP headers, threading requirements, techniques for storing state information (cookies, URL re-writing, hidden fields), the session management API's, gathering parameters, handling different content (HTML, Plain Text, Spreadsheets, Images), database access from servlets, and more. In JSP technologies, this class covers the different types of JSP content (scriptlets vs. jsp tags), property management, using Java beans within JSP's, controlling scoping, and design techniques. The class focuses on the general architecture of web based applications rather than just general, atomic techniques. Design patterns are used make the architecture cleaner, more maintainable, and more scalable than "typical" server side code. The XML portion of the class offers an introduction to the API's in Java used to manipulate and leverage XML in your applications. It includes discussions on parsers (SAX, DOM, and others), how to read and generate XML, validating XML documents, performing XML transforms using XSLT, and other related topics.

This course is hands-on, with numerous exercises to reinforce concepts for each chapter. However, because courses like this frequently focus too much on small exercises (the "trees"), there are two extended exercises (called "Workshops") that tie together the concepts presented up to that point of the class that gives the students a chance to see how these technologies work in the larger picture (the "forest"). These workshops are important to tie together atomic techniques to understand how real world web based applications are created.

Prerequisites:

Intermediate to advanced knowledge of Java, user level familiarity with Windows, user level familiarity of the Internet and the World Wide Web.

Training information: www.java-training.net
Consulting information: www.thedswgroup.com
770-953-0393 or 800-356-9644

Web Architecture and Development



Java Boot Camp

The Boot Camp Series is a six-week, fast-paced, hands-on sequence for those developers who are serious about attaining a thorough understanding of Java and related development tools and techniques. This series of three courses and corresponding workshops will give students the necessary knowledge to build complex Java applications. Taken consecutively, Java Boot Camp rapidly gets your team up to speed in the Java platform. Taken separately, they can supplement your team's current knowledge.

The Boot Camp includes:

- Java Foundations Course
- Java Foundations Workshop
- Java Web Development Course
- Java Web Development Workshop
- Enterprise Java Development Course
- Enterprise Java Development Workshop

Prerequisites:

Programming experience with any high-level language, user-level knowledge of Windows

Boot Camp Course Descriptions:

Java Foundations

This Java 2 Hands-on Training course is designed to get developers up to speed in Java. It covers Sun's Java 2 Platform (JDK 1.3) and contains details on how to set up a Java environment, Java language fundamentals, Object-oriented programming in Java (including such advanced topics as abstract classes and interfaces), how to build applications and Applets, when and how to use the Swing libraries, input and output, database access through JDBC, and a host of other pertinent topics. This course does not assume any development environment; it is strictly about pure Java.

Workshop - Students will apply the techniques learned in the Java Foundations course to develop a working non-trivial Java application. Instructors will guide students in the development process, offering tips and advice to decrease development time.

Java Web Development

This course covers the fundamental technologies and techniques required to create state-of-the-art web applications using Java. It covers servlets, Java Server Pages (JSP), and XML development in Java. It shows how to handle common servlet tasks such as setting and reading HTTP headers, threading requirements, techniques for storing state information (cookies, URL re-writing, hidden fields), the session management API's, gathering parameters, handling different content (HTML, Plain Text, Spreadsheets, Images), database access from servlets, and more.

Workshop - Students will build a non-trivial web application by applying the information taught during the class. Instructors will offer insight to help students become proficient in the development process.

Enterprise Java Development

Enterprise development is the fastest growing segment of Java development because it offers a high-performance, standards compliant way to create state-of-the-art business applications. This architecture supports all types of applications (traditional multi-tier, web, distributed, etc.) and supports the encapsulation of business rules on an application server. This course covers the fundamentals of Enterprise Java Development, such as RMI (Remote Method Invocation), the use of Enterprise Java Beans (EJBs), including Stateful & Stateless session beans and CMP (Container Managed Persistence) and BMP (Bean Managed Persistence) entity beans, transaction processing, security, and architectural & design considerations.

Workshop - The course material will be applied in the development of a complex enterprise application with the guidance of an instructor, offering helpful hints and best practices for development.

Training information: www.java-training.net
Consulting information: www.thedswgroup.com
770-953-0393 or 800-356-9644

Web Architecture and Development



Java Schedule and Pricing

Schedule

Java Foundations

March 26-30, 2001
May 7-11, 2001
June 18-22, 2001
August 6-10, 2001
September 24-28, 2001
November 5-9, 2001

Enterprise Java Development

April 23-27, 2001
June 4-8, 2001
July 23-27, 2001
September 10-14, 2001
October 22-26, 2001
December 10-14, 2001

Java Web Development

April 9-13, 2001
May 21-25, 2001
July 9-13, 2001
August 20-24, 2001
October 8-12, 2001
November 26-30, 2001

Java Boot Camp

March 26-May 4, 2001
May 7-June 15, 2001
June 18-August 3, 2001
August 6- Sept 21, 2001
Sept 24- Nov. 2, 2001
Nov 5- Dec 21, 2001

Pricing

Java Foundations
Java Foundations Workshop
Java Web Development
Java Web Development Workshop
Enterprise Java Development
Enterprise Java Development Workshop
Java Boot Camp

5 days \$1495 per student
5 days \$1000 per student
5 days \$1975 per student
5 days \$1000 per student
5 days \$1975 per student
5 days \$1000 per student
6 weeks \$8000 per student

Onsite

Java Foundations
Java Foundations Workshop
Java Web Development
Java Web Development Workshop
Enterprise Java Development
Enterprise Java Development Workshop

Java Boot Camp

5 days \$8500 up to 8 students
5 days \$6000 up to 8 students
5 days \$8500 up to 8 students
5 days \$6000 up to 8 students
5 days \$8500 up to 8 students
5 days \$6000 up to 8 students
* \$500 for each additional student
6 weeks \$43500 up to 8 students
* \$3000 for each additional student

***Discounts offered to DSW alumni and to scheduled onsite courses. Contact The DSW Group to see if you qualify.

Student is responsible for all travel, hotel and related expenses. DSW will provide lunches at its Atlanta classes. Directions and suggested nearby hotels will be provided to you at time of registering.

Training Information: www.java-training.net
Consulting information: www.thedswgroup.com
770-953-0393 - 800-356-9644

Web Architecture and Development



Delphi Training

The **DSW Group's Delphi Training Courses** offer software development professionals proven techniques for creating software designs in Delphi. DSW Instructors are current Delphi developers that bring their real-world experience to the classroom. They are internationally recognized speakers and trainers and are the original authors of Borland Corporation's Delphi Foundations courseware.

Delphi Foundations - This five day hands on course covers the fundamental elements of creating Windows 95, 98 and NT applications using Delphi, including the Integrated Development Environment (IDE), Pascal language enhancements, database tasks, and the Borland Database Engine. Several other topics are included in the appendices though they are not normally covered in the class: ADO, IBX, XML, InterBase, QuickReports, InstallShield Express, DLLs and the Windows API, Threading, and Run-Time Component Creation. The concepts common to standard ANSI Pascal are not usually covered in the class because of time considerations.

Prerequisites:

A working knowledge of the Pascal language is assumed, though the course does offer some refresher material on Object Oriented Programming and Pascal syntax.

Delphi Advanced Multi-Tier Development - This is a two day hands-on training course designed to take you into the exciting realm of multi-tier development in Delphi. DSW has created this course to give you the knowledge you need to create distributed applications. From simple connectivity to complex validation and work distribution, this course is a must attend for those serious about multi-tier development or those looking to evaluate and understand the technology.

Prerequisites:

A solid knowledge of Delphi and object oriented programming or attendance of DSW's Delphi Foundations training course.

Delphi Client/Server Techniques - This is a three day hands-on course designed to help you create more robust and efficient client/server applications in Delphi. DSW has created this course to assist you in increasing your application's performance while also helping making them more maintainable and robust. Additionally, you will learn the basics of taking your Delphi user interfaces quickly to the web using ActiveForms. Examples are used to model each concept followed by exercises based on the examples. Each example (and exercise) builds upon the previous so that by the end of the training period, a relatively complete database application will be created. This Client/Server aspect is further enforced, as the application will be converted from using desktop databases (Paradox) to a Client/Server backend database (InterBase).

Prerequisites:

A solid knowledge of Delphi and object oriented programming or attendance of DSW's Delphi Foundations training course.

Delphi Advanced Component Creation - This course is offered as an onsite class only. The DSW Group will work with your organization to schedule your onsite classes at your convenience.

Web Development in Delphi - DSW created this course to help developers learn the skills they need to enter the exciting world of "light client" web development. This course will teach you how to create server side Delphi applications without the need for users to download large ActiveX controls or install complex DLLs. Based on CGI and ISAPI technologies, Delphi web server applications allow you to create interface for your users to see and manipulate data with just a browser.

Prerequisites:

A solid knowledge of Delphi and object oriented programming or attendance of DSW's Delphi Foundations training course.

Training information: www.delphi-training.com
Consulting information: www.thedswgroup.com
770-953-0393 or 800-356-9644

Web Architecture and Development



Delphi Schedule and Pricing

Schedule

Delphi Foundations

April 2-6, 2001
May 7-11, 2001
June 4-8, 2001
July 9-13, 2001
September 10-14, 2001
October 8-12, 2001
November 5-9, 2001
December 3-7, 2001

Client/Server Techniques

April 16-18, 2001
June 11-13, 2001
July 23-25, 2001
September 17-19, 2001
October 22-24, 2001
December 10-12, 2001

Multi-Tier Development

April 19-20, 2001
June 14-15, 2001
July 26-27, 2001
September 20-21, 2001
December 13-14, 2001

Web Development in Delphi

March 26-27, 2001
April 30-May 1, 2001
May 31-June 1, 2001
June 25-26, 2001
August 13-14, 2001
September 24-25, 2001
October 29-30, 2001
December 17-18, 2001

Pricing

Delphi Foundations
Client/Server Techniques
Multi-Tier Development
Web Development in Delphi

5 days \$1975 per student
5 days \$1185 per student
2 days \$995 per student
2 days \$995 per student

Onsite

Delphi Foundations
Client/Server Techniques
Multi-Tier Development
Web Development in Delphi
Advanced Component Creation*

5 days \$8500 up to 5 students - \$1000 additional student
3 days \$5100 up to 5 students - \$600 additional student
2 days \$3900 up to 5 students - \$500 additional student
2 days \$3900 up to 5 students - \$500 additional student
3 days \$5100 up to 5 students - \$600 additional student
* this course offered as an onsite only

***Discounts offered to DSW alumni and to scheduled onsite courses. Contact The DSW Group to see if you qualify.

Student is responsible for all travel, hotel and related expenses. DSW will provide lunches at its Atlanta classes. Directions and suggested nearby hotels will be provided to you at time of registering.

Training information: www.delphi-training.com
Consulting information: www.thedswgroup.com
770-953-0393 - 800-356-9644

Web Architecture and Development



Access Training

The DSW Group, Ltd. offers hands-on Microsoft Access Training for power users and developers. To take the first step in creating user friendly applications, attend our Application Development in MS Access class. Programming in MS Access will let you harness the power of Visual Basic for applications to create robust, bullet-proof databases in multi-user environments. For a thorough understanding of Access, we suggest taking both the Application Development in MS Access and the Programming in MS Access courses together. We also offer Everyday Access, a course specifically designed to increase productivity for your power end-users. Everyday Access is taught as an onsite class only.

Application Development in MS Access - Students attending the Application Development in MS Access class learn how to create fully functional databases by mastering the creation of tables, queries, forms, and reports, along with toolbars, menus and macros to automate productivity. The seminar also includes extensive coverage of relational design theory, calculated queries, and interface design enhancements. All exercises are hands on.

Prerequisites: There are no prerequisites for this course.

Programming in MS Access - The DSW Group's Programming in Microsoft Access seminar is designed to move you into the exciting world of Access programming in a hands-on learning environment. This seminar is specifically designed for the busy professional who is seeking to extend the built-in capabilities of this powerful database development tool. Taught by seasoned Access development professionals, Programming with Access is three days of demonstrations and hands-on exercises tailored to fit into your busy schedule.

Students attending the Programming in MS Access seminar need not be programmers. Visual Basic for Applications (VBA), the underlying programming language in MS Access, is covered from the ground up and then used to enhance forms, reports, behind the scenes record processing and transactions. Students are supplied with numerous generic functions that they can directly integrate into their own applications. Because VBA is also the underlying programming language in all of Microsoft's Office products, attendees learn not only how to program objects in Access, but also acquire the techniques for programming objects in Word, Excel, PowerPoint, etc.

Prerequisites: Experience building applications in MS Access including table design and normalization, select, calculated and crosstab queries, forms, reports, and macros. These prerequisites are all presented in our Application Development in MS Access seminar.

Everyday Access - The DSW Group's Everyday Access presents you with all the basics and more, in a hands-on learning environment. This course is specifically designed for end-users who need to become power-users of MS Access. Through Everyday Access you can extend your mastery of the design and query tools built into MS Access and save your database development team hours of custom development and support. Taught by seasoned Access development professionals, the Everyday Access class is two days of intensive learning tailored to fit into your busy schedule.

Prerequisites: There are no prerequisites for this course.

Training information: www.access-training.com
Consulting information: www.thedswgroup.com
770-953-0393 - 800-356-9644

Web Architecture and Development



Access Schedule and Pricing

Schedule

Application Development in MS Access

April 23-25, 2001

July 16-18, 2001

October 15-17, 2001

November 26-28, 2001

Programming in MS Access

April 25-27, 2001

July 18-20, 2001

October 17-19, 2001

November 28-30, 2001

Pricing

Application Development in MS Access

3 days \$795 per student

Programming in MS Access

3 days \$795 per student

***Discounts available for those who choose to take both
Application Development and Programming in MS Access.

Onsite

Application Development in MS Access

3 days \$3500 up to 8 students \$400 additional student

Programming in MS Access

3 days \$3500 up to 8 students \$400 additional student

Everyday Access*

2 days \$3000 up to 8 students \$400 additional student

* This course is offered as an onsite only.

***Discounts offered to DSW alumni and to scheduled onsite courses. Contact The DSW Group to see if you qualify.

Student is responsible for all travel, hotel and related expenses. DSW will provide lunches at its Atlanta classes.
Directions and suggested nearby hotels will be provided to you at time of registering.

Training information: www.access-training.com

Consulting information: www.thedswgroup.com

770-953-0393 - 800-356-9644

Web Architecture and Development



JBuilder Training

The DSW Group has been developing with JBuilder since its inception and now has over five years of experience to bring into the classroom and to development projects. We have, in conjunction with Borland, trained thousands of programmers throughout North America via hands-on training classes and seminars. The DSW Group has trained other trainers for Borland throughout the world as part of the "Train the Trainer" program and has created and written the official Borland JBuilder 1.0 and 2.0 certified courseware. DSW has also written the training book JBuilder 3 Unleashed. DSW is an (Borland) Authorized Training Center and a Premier Integrator Partner. DSW trainers are certified instructors and are permanent employees that design and develop JBuilder applications as well as train other developers in using JBuilder. DSW is in the unique position of providing expert instruction as well as follow-up mentoring, project management, design and programming support services as desired.

JBuilder Foundations Training - This course covers the fundamental elements of creating Java™ database applications using Borland JBuilder, including the Integrated Development Environment (IDE), a Java™ language summary, database tasks, and several value-added enhancements to Java™, including BeansExpress™, DataExpress™, and others. The courseware also includes appendices that cover the Java™ object hierarchy, and a simple overview of some of the core Java™ class libraries. As no five-day course could represent an introduction to Java™ and pay due diligence to the powerful features of JBuilder, this course does not attempt to provide anything but a cursory overview of the Java™ syntax. In a similar fashion, two chapters briefly discuss object-oriented programming concepts.

Prerequisites: Required: Knowledge of any high-level language User-level knowledge of Windows.

Helpful: Some knowledge of Relational databases Java language (there is a small introduction to the Java language in the course, so prior knowledge of Java isn't required) Experience with a modern visual Integrated Development Environment (Delphi, Visual BASIC, etc).

Schedule

JBuilder Foundations

- April 16-20, 2001
- May 21-25, 2001
- June 18-22, 2001
- July 30- August 3, 2001
- August 27-31, 2001
- October 1-5, 2001
- November 12-16, 2001
- December 17-21, 2001

Pricing

JBuilder Foundations - 5 days \$1975 per student

Onsite

\$8500 up to 5 students
\$1000 additional student

***Discounts offered to DSW alumni and to scheduled onsite courses. Contact The DSW Group to see if you qualify.

Student is responsible for all travel, hotel and related expenses. DSW will provide lunches at its Atlanta classes. Directions and suggested nearby hotels will be provided to you at time of registering.

Training information: www.jbuilder-training.com
Consulting information: www.thedswgroup.com
770-953-0393 - 800-356-9644

Web Architecture and Development

