



Exploring Infinite Horizons

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# Business

## *SOLUTIONS*



e-Business is about creating a digital workplace where business activities are automated and interaction with customers, suppliers and business partners is conducted digitally. The end result for e-Businesses is lower operational costs through automation and higher revenues through scalable services, lean distribution channels, and effective marketing machinery.

On the road from business to e-Business, time to market is of utmost importance. Organizations need to quickly deploy business automation solutions. However, many do not have qualified development teams in place to do so. And, forming teams with the right talent is difficult and takes time. Therefore, projects are delayed and also exceed their original budgets. Most importantly, companies are distracted from their main focus, namely running their business.

Diyatech helps businesses transform into e-Businesses quickly and effectively. We understand how to build the current day digital workplace and help businesses quickly adopt the right set of technologies for it.

### **B2B and B2C e-Commerce**

Buying and selling in a paperless and digital environment is an important aspect of e-Business. With e-Commerce, an e-Business is suddenly able to interact with its customers, sellers, and business partners without restriction on geography, physical presence, and time of day, and is able to increase its revenues drastically.

Even with leading products in the market, it requires a highly skilled team with relevant experience to successfully and quickly deliver an e-Commerce solution. This team must understand customer's business issues, employ the right technologies, propose a powerful architecture, and develop a high quality solution.

Diyatech has a proven track record of delivering successful B2B and B2C e-Commerce projects on time and within budget. And, we use leading technologies in the market to quickly deliver a solution.

### **Corporate Portals**

Corporate portals bring people together within and across companies so they can interact more effectively as virtual groups. Companies are able to move away from fixed organizational structures and into more fluid group interactions, created for specific projects and dissolved at their completion. Buyers and sellers can go beyond just financial transactions and conduct a full range of complex interactions to facilitate the e-Commerce activity.

Diyatech can help businesses design, develop, and deploy Corporate portals in lightening speed. We can typically deliver portal projects in days and weeks as compared to months. We use leading industry technologies to quickly build a solution and integrate it with rest of the enterprise.

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## *SOLUTIONS*

### **Wireless and Mobile Integration**

Similar to wired e-Business, wireless and mobile e-Business is also an important aspect of the digital workplace and is gaining importance rapidly. Diyatech can provide fully integrated wireless and mobile solution to your e-Business. We can evaluate and select best wireless and mobile technologies and then quickly turn around and deliver a customized solution to you.

### **Custom Application Development**

An important step toward e-Business is the automation of the internal business processes. And, many processes are highly specialized in nature and therefore require custom application development.

Diyatech has extensive experience developing and delivering custom application projects on time and within budget. We provide one-stop service for the entire life cycle of a project. We help ensure that your projects are completed on time, within budget, and with highest possible quality.

### **Application Integration (EAI)**

Any new e-Business solution must integrate with existing ERP, legacy, or other systems in order to be effective. Enterprise Application Integration (EAI) is the solution for this challenging problem. EAI consists of platform integration, data integration, component integration, and application integration all of which represent the different facets of integration an e-Business must address.

Diyatech can help integrate e-Business solutions with existing systems in the enterprise. Diyatech understands all the issues related to EAI and can use the leading technologies in the industry wherever appropriate to ensure a quickly completion of project integration.

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## SERVICES



Diyatech provides a full range of e-Business services to help you in all areas of your transformation into an e-Business. In everything we do, we take full ownership of our work and deliver things on promised dates. Below are the different e-Business services we provide.

### e-Strategy

Diyatech helps you analyze your business model to determine how best to apply web and wireless technologies to it. We will work with you and analyze how to transform your business into e-Business and make it more profitable. We'll also help integrate this e-Business plan into your broader IT vision.

### Architectural Design

Success or failure of a system depends greatly on the strength of its architectural design. An architectural design must be comprehensive, flexible, able to integrate with other systems in the enterprise, and yet be very efficient so it can perform in a high transaction environment.

Diyatech has mastered the art of architectural design. Complex problems become simple to our highly capable and skilled Architects. We have mastered The Unified Software Development Process designed by Ivar Jacobson, Grady Booch, and James Rumbaugh.

### Rapid Development

We at Diyatech know how to turn an architecture into system that can be put into production quickly and seamlessly. We have evolved a highly effective development methodology to help us finish projects in record time. We also have a well-defined testing and bug-fixing process in place along with a bug tracking system to automate it.

You can engage us to take full responsibility of a project or simply partner with us to provide expertise and resources to your project. Either way, we help ensure that your projects are completed on time, within budget, and with the highest possible quality.

### Transfer of Knowledge

We divide transfer of knowledge into two areas. One is training the user and administrator community on using the system. Second is transferring knowledge about project and technologies to your technical staff so they can maintain the systems. We are very methodical and effective in this transfer of knowledge.

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## TECHNOLOGY FOCUS

Diyatech is a technology driven consulting company that has extensive experience in industry's leading technologies. This enables us to select, recommend, and use the most appropriate technology for our client's needs.

### Java Technologies

- Java
- Java 2 Enterprise Edition (J2EE)
- Enterprise Java Beans (EJB)
- XML
- JDBC
- Servlets
- Java Server Pages (JSP)
- HTML/DHTML
- JavaScript
- Oracle 8i and 9i
- BEA WebLogic
- IBM WebSphere
- iPlanet e-Commerce Solutions
- Gemstone/J

### Microsoft Technologies

- C++
- Visual Basic
- COM/DCOM
- ActiveX Template Library (ATL)
- XML and SOAP
- Microsoft Transaction Server (MTS)
- ActiveX Data Objects (ADO)
- Active Server Pages (ASP)
- HTML/DHTML
- JavaScript
- Microsoft SQL Server 2000
- Microsoft Commerce Server 2000
- Microsoft BizTalk Server
- Microsoft SharePoint Portal Server
- Microsoft .NET

### Design Techniques

- Unified Modeling Language (UML)
- Use case analysis
- Object modeling
- Sequence, activity, and state diagrams
- Data modeling with Erwin

### Application Integration (EAI)

- BEA eLink family of products
- Web-enabling IBM mainframes thru CICS
- Web-enabling TSYS TS1 and TSYS TS2 mainframe systems

### Wireless and Mobile Technologies

- Wireless Application Protocol (WAP)
- Java 2 Micro Edition (J2ME)
- Microsoft Windows CE
- Microsoft Mobile Explorer
- Palm OS

### e-Commerce Focused Platforms

- Commerce One
- Ariba
- Vignette
- Broadvision

### e-Collaboration Portal Platforms

- Microsoft SharePoint Portal Server
- eRoom
- Webridge Private Exchange
- Plumtree Corporate Portal

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# Business PROJECTS

## Lycos Financial Feed System



Diyatech provided design and development services to Lycos for parts of their Lycos Financial Feed System. Diyatech developed a summarization server and various feed parsers to be incorporated in the overall distributed feed management system. Both systems were developed in Java 2 on Solaris 7 platform. Summarization server was a multi-threaded socket server that provided news summarization to clients through the network. And, the output from the Financial feed parsers was fed into the Financial feed database for future queries and reports.

## Digital Marketplace for Advertising Media



Computer Sciences Corporation (CSC) used Diyatech as the primary development resource to design and develop an e-Commerce solution for one of their important clients. This client website is a digital marketplace for the buying and selling of advertising. This marketplace allows buyers and sellers to conduct research, access inventory availability in real-time, check pricing, reserve space, negotiate the deal and complete the buy. This was a three-tier system. Client tier developed with HTML, Javascript, IE 4.01+ and Netscape 4.x. Middle-tier used J2EE, JSP, Servlets, EJB, BEA WebLogic Server, JDBC and ran on Solaris. Database-tier used Oracle 8i.

## Digital Marketplace for Automobile Parking



Allparking.com facilitates corporate and private customers search for parking garages and make reservations, enabling parking garages to gain a wider exposure through Allparking.com. Diyatech single-handedly designed and developed this B2C and B2B e-Commerce site for Allparking.com and provided requirements capture, analysis, design, testing, and deployment services. This is a three-tier system providing IE 4.01+ or Netscape 4.x browser support on the front-end with HTML and Javascript, IIS 5.0, ASP, COM, MTS components, and ADO in the middle tier, and Microsoft SQL Server 7.0 with stored procedures and triggers in the third-tier.

## Web Payroll B2B System



Intuit is the leader in personal finance, small business accounting, and tax preparation software. Their products include Quicken, Quickbooks, and TurboTax. Diyatech provided design and development services to Intuit for their Web Payroll B2B System (WPS). WPS was developed to provide customers a web based payroll solution that would handle their payroll processing and tax filing needs. System developed with HTML, IE 4.01, Netscape 4.x on the front-end, and IIS, JRun, Servlets, Java JDK 1.2, Windows NT, and AS400 based payroll server as the backend.

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## Highly Distributed Computing Platform entropia.

Entropia is creating the world's largest Internet and enterprise distributed computing service. The company aggregates idle CPU cycles of PCs all over the world into a massively-scalable computer grid via the Internet or within the enterprise. With Entropia's software, people and organizations worldwide can rescue their computers' otherwise wasted processor time for critical, compute-intensive projects.

Diyatech helped Entropia quickly design, develop and deploy this massively distributed computing software and framework to their large network of computers over the Internet. Diyatech was involved in the entire product development effort from requirements capture to final delivery. We used C++, MFC, ATL, COM, multi-threading, Win32 API, IE 5.0 control, DHTML, XML, and Installshield on the client platform; HTTP and HTTP for network protocols; ASP, C++, ATL, COM, MTS components, XML, and ADO on middle-tier; SQL Server 7.0, stored procedures, and triggers on database-tier.

## Customer Management System



Telocity is a leading broadband DSL provider in the Bay Area, California. Diyatech helped design and develop Customer Management System to keep track of their customers along with their network and DSL configuration. This is a three-tier system on Windows NT. Client-tier used HTML and Javascript with IE 4.x and Netscape 4.x. Middle-tier used ASP, C++, ATL, MTS components, and ADO. Database-tier used Microsoft SQL Server 6.5 with stored procedures and triggers.

## Manufacturing Component Quality System



This system allowed Sun Microsystems to keep track of its workstation and server components and issues with them. It helped Sun stop defected components from reaching their customers, and monitor and improve its component manufacturing process. This is a three-tier system developed on Sun Solaris platform with Java and Netscape Navigator. Client-tier used multi-threaded Java Applets, forms, searching, administrative functions, and registers with a messaging server. Middle-tier uses Java Servlets, Beans, and RMI servers. Database-tier used Oracle 7 to store MCQS data.

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## FINANCIAL INDUSTRY

 **Providian Financial**



Providian ranks as the fifth largest bankcard provider in the nation with \$27 billion in assets under management and serves over 14 million customers in United States, UK, and Argentina.

**Payment Management System (iSmart):** System designed by Diyatech to handle all electronic customer payments. Diyatech provided requirements capture, analysis, design, development, and testing services to Providian. We also transferred knowledge about the project and technologies to Providian's technical staff. System had 10,000 users and consists of a Web based OLTP system and a Backend batch processing system. Development was done using DHTML, Javascript, IE 5.0 as client-tier, ASP, COM, MTS components, XML, ADO, and Oracle 8i as backend-tiers. Application integration with a CICS Mainframe done with EAI technologies. Backend batch processing system developed in Java and processed millions of transactions running on Solaris.

**Customer Mgmt System (Smartscreens):** Diyatech designed this system to manage customer accounts and quickly service incoming calls from customers and prospects. Special emphasis placed on quick functions, scalability and easily maintainability. Diyatech provided requirements capture, system architecture, development, testing and deployment to 1200 users in three different cities. System provided a complete call-center solution with Managed Desktop Environment, CTI Enabling, and Monitoring, Analysis, and Management Tools. System developed in C++, Visual Basic, COM, Informix, and CICS Mainframe working together seamlessly. Closely integrated with ACD used by IVR to increase phone throughput.

**Order Management and Fulfillment System (PES):** System developed to manage orders on all add-on products for Providian. Included both front-end and back-end systems to automate the entire order management process. Developed with Visual Basic, ODBC, and Informix DBMS on SUN machines. Designed to handle large number of transactions. Provided requirements capture, analysis, design, development, and testing services. System consisted of Front-end program to take orders thru Customer Management System and a Back-end system. The Backend system included telemarketing lead management, billing customers on a CICS Mainframe, interfacing with plastics vendors for plastics generation, and fulfillment of orders.

 **LoanCity.Com**



LoanCity.Com gives mortgage brokers a single source for loan products and service they need. Consumers benefit from their combination of online pricing and localized professional services.

**Digital Marketplace for Mortgages:** Diyatech designed and developed major areas of their web based Loan Search and E1003 Mortgage Application System. Loan Search engine allows both lenders and borrowers to search for loans based on their custom criteria. E1003 Application System allows a borrower to file for a mortgage application completely online and for the broker to process it. System developed as three-tiered with HTML, IE 4.01, Netscape Navigator 4.x, ASP, COM, MTS components, ADO, XML, and SQL Server 7.0.