



SDS SOLUTION

Company Profile

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About us

Incorporated in September 1997 by a group of professionals with a goal to deliver technology solutions offering value to client's enterprise. It started catering to the domestic market and gradually made forays in to the International Market by March 1999. Technology enabled business solutions has helped the company to create and sustain a competitive position in the dynamic marketplace. Methodology-based and quality-focused methods of software development helped the company to create a reputation and implementation of high quality business solutions. Process oriented delivery management has helped to expedite project completion without compromising on quality. The company has an impeccable record of developing IT Strategies, meeting aggressive project deadlines etc. that enables the customers to eliminate risk of overhead cost and time overruns.

Our Vision & Mission

The core vision of **SDS Solution** is to continuously strive towards perfection, by creating innovative solutions and our mission is to thrive upon our people focused culture and ethics to deliver a real time response, a real world solution & highly qualified, committed people that meets the aspirations of the esteemed clients.

SDS SOLUTION involves in providing enterprise-consulting solutions and IT services to organizations in government, business and industry globally - as partners to conceptualize and realize technology driven business transformation initiatives. A multi-dimensional approach, planned to support growth and technology advancement, ensures that the solutions we architect for our clients are built in a most productive and effective manner.

Services

Varied skill-sets and knowledge base together bring to life technology-driven business transformation. SDS Solution's well-honed capabilities and methodologies for IT services complement our business consulting services to define, optimize and align our clients' business strategy with technology initiatives. The core competence of S.D.S. Solution is development of software as per the design guidelines done in-house or laid down by the principal's abroad. S.D.S. Solution has a pool of resources, which are constantly trained and supported by the R&D department for implementing the latest coding concepts in a wide variety of platforms. S.D.S. Solution lays lot of importance on rapid changes incorporation, synchronous design and development and requirement tracing.



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Our services address specific needs of enterprise IT programs in fields as diverse as communications, Internet technology and Data management and does involves the following:

- Turnkey Business Solutions
- IT Strategy Making & Consultancy
- Application & Systems Migration & Re-engineering
- Enterprising Application Development
- Commercial Software Development
- System Atomization & Database Administration
- Web Site Development.
- E-Commerce Applications
- Web Server Management.
- Data Archiving
- Data Warehousing & Mining
- Application & Service, System & Network Administration
- Integrated Software Management
- Project Management, Risk and opportunity Analysis.

Expertise

SDS Solution specializes in the development of a wide variety of high profile business applications for organizations of all sizes and to general as well as vertical markets such as Telecom, Power, Finance, Health, Education, etc. Packaged IT systems, for instance, sometimes lack the special functionality an organization needs. SDS Solution do specializes in customize solutions and backfill gaps to provide the best possible functionality for client's operations. It starts with program management skills and architectural expertise to ensure that projects remain aligned with enterprise goals. Our program and technology management team works to ensure that the solution is deployed with the right products, future-proofed with the right architecture, and implemented with our best practices. We do modify legacy systems to meet current needs - such as integrating standalone applications, customizing reports in line with new reporting requirements and modifying systems to meet government regulations. And we provide solution that ensures the client to capitalize on new technological advances.

We do specializes in the following Technology:

- ❖ **Thin client applications** - Proficient development team in building distributed web application and while migrating from normal client-server architecture utilizing multi tiered



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client server architectures and technologies such as Microsoft-.Net 2.0(VB.Net and C#.Net),Java, VB 6.0, Oracle 9i, SQL Server 2000, My SQL ,etc.

- ❖ **Web enabled Application Development** - Our dedicated Web Development team, provides e-Commerce and e-Business software solutions starting from full web application development, integration between web and legacy systems, to development of portals. We do have the expertise in ASP.Net 2.0(using VB.Net & C#.Net), Web Services, XML, PHP, Servlet, Applet, Classic ASP, JSP.
- ❖ **Facilities Management** - We specializes end -to- end IT infrastructure management service to enterprise clients managing their IT infrastructures and supporting their users on line. We do ensure that the customer's equipment is in top operational condition and that they are receiving services in a prompt and organized manner. We facilitate Facility Management Services on Service Level Agreement (SLA) model to organizations that choose to outsource their facility management operations in lieu their own facility management personnel and resources.

The support team is specially trained in the following aspects of system life cycle:

- Understanding the needs of the end user.
 - Knowledge sharing and assisting the end user the software during the dry runs, live runs, stress testing and system tuning.
 - Provide data migration support for legacy system.
 - Providing proper guides on line, context sensitive support documents.
 - User training for usage and maintenance.
 - Provide post implementation warranty support.
- **Software Transformation** - S.D.S. renders comprehensive consultancy services starting from requirement analysis, system study, project inception, formulation and concept planning, right up to the project management and supervision. The features include:
 - Project Identification.
 - Techno-Economic Feasibility Studies.
 - Economic and Financial Analysis
 - Conceptual Design
 - Planning Technical Specifications
 - Institutional and Organization Strengthening



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- Procurement Assistance including Prequalification of Vendors.
 - Project Management Services, Monitoring and Scheduling.
 - Inspection and Commissioning
 - Operation and Maintenance
 - Data conversion.
- **IT Consultancy** - S.D.S. renders comprehensive consultancy services starting from requirement analysis, system study, project inception, formulation and concept planning, right up to the project management and supervision. The services include:
- Project Identification.
 - Techno-Economic Feasibility Studies.
 - Economic and Financial Analysis
 - Conceptual Design
 - Planning Technical Specifications
 - Institutional and Organization Strengthening
 - Procurement Assistance including Prequalification of Vendors.
 - Project Management Services, Monitoring and Scheduling.
 - Inspection and Commissioning
 - Operation and Maintenance
 - Data conversion.
- **B2B & B2C Applications** - B2B and B2C e-commerce sites are a flourishing Internet business. Applications in this environment require a strong RDBMS to house the massive data and user-friendly, platform-independent software to make this data available from the database. Users access this information from the Internet through standard browser software. Our focus on software transformation has equipped us with a thorough knowledge and hands-on experience of a large number of relational databases of the likes of DB2 and Oracle. Our software team develops B2B and B2C software applications through our expertise on Enterprise JAVA Beans, JAVA Server pages and Component Transaction Monitors on a wide variety of platforms like Windows 2000/NT, SUN Solaris, Linux etc. This JAVA software interacts with the data stored in relational databases.
- **Software Migration** - Legacy systems are on the firing line of obsolescence because they lack effective control structure & adoptability. They cannot exploit today's



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vastly changed computing environments. Reengineering legacy system is always an Information system challenge.

Our migration software meets the challenge with an innovative approach, which attempts to salvage as much process algorithms as possible from the legacy components. This involves examining & reversing the data presentation views to validate the integrity of the target design while reducing the implementation window & collecting redundant data.

- **Application Maintenance** - At SDS we do provide extensive support to meet the challenge of ongoing application support and maintenance with a range of services designed substantially lower their maintenance costs and ensures timely response and guaranteed service levels. We provide ongoing functional and application support for client's application maintenance needs. SDS Solution's expert leveraged management stabilizes, optimizes and extends the present application so that its functionality continues to meet the growing and changing needs. SDS Solution maintains the integrity of the software for easier up-gradation. And Client benefits in control spending through predictable application maintenance costs.

Our maintenance and support services encompass such activities as :

- Error tracking and debugging
- Technical troubleshooting
- Version upgrades and enhancement
- Comprehensive user support
- Performance monitoring and testing
- Documentation development and maintenance

Benefits:

- Match lower return activities with lower cost resources
- Refocus the in house team on higher value adding activities.
- Rapidly enhancing the application's relevance



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Methodology

Strong methodologies and quality assurance processes are in place for all our work. Our skills, methodologies and experience, combined with the fact that all we do is software development; put us in a position to deliver a solution that fits - faster and more cost effectively.

Seamless coordination among strategy, implementation, and management of our client's technology programs and our expertise in focused industries, strong quality control, cross-technology expertise, and distributed project management capabilities immensely benefits our clients. Our in-depth knowledge of various technology areas enables us to provide end-to-end solutions and services to our clients. We maximize the benefits of our depth, diversity and delivery capability, ensuring adaptability to client needs, and thus bringing out the most innovative solutions in every business and technology domain while justifying ROI (Return on investment) for every order. SDS Solution does supplement client's IT resources, when needed, without maintaining an ongoing overhead by managing client's technology projects through the full life cycle, ensuring that they meet required service levels and provide headroom for future growth once they enter production

Technology

Technology is an enabler to great business ideas and processes. The inception of any application/system starts with a clear definition of the business need and its evolutionary nature. SDS Solution details the business requirements and scope out the growth strategy. S .D.S. Solution has years of experience in system design using the latest SSAD, OOAD and RAD Techniques. The use of state-of-art case tools for database design and backed by experience OOPS professional, the design of application layer and database server is achieved. This is followed by complete system documentation line, Data Flow Diagrams E-R Diagrams, functional Specifications etc

At SDS Solution, we have the understanding of different business processes as well as different development environments. We have executed various projects in the following platforms:

- Architectures: Microsoft.Net, J2EE
- Application Servers/ Middleware : BEA Web logic, Microsoft Transaction Server and Message Queuing, Tomcat
- Web servers : Microsoft IIS, apache Server



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- Server Languages : Active Server Pages (ASP), Java Server Pages(JSP), Servlets, CGI/Perl , PHP, Java Applet, ASP dot net in C#, ASP dot net in Visual Basic;
- Programming Languages : C, C++, java, Visual Basic, Visual C++
- Mark Up Languages : HTML, DHTML, XML
- Scripting Languages : Java Script, VB Script
- Distributed Object Technologies : COM/ DCOM, Enterprise Java Beans
- Communications : SOAP, JMS, Java Mail, RMI, SSL
- RDBMS : Oracle, MS SQL Server, Ingress, My SQL, Sybase
- Operating system : Windows NT, Windows 2000, Netware, Linux and UNIX
- Designing Tools : Rational Rose

Quality

A major concern for customers looking to outsource software development is quality. Can they trust the cost and time estimates they have been given? Will the finished Product is to a high Standard? SDS Solution emphasizes quality as the basis of its growth and success. As a part of the firm's Quality program, we use systematic procedures to assure, assess and continuously improve the processes of serving our client. While the Quality Program is a firm wide effort, we believe achieving quality is every employee's primary responsibility. We have empowered each employee to take the steps necessary to achieve quality, and we have formulated the following system as a part of the exercise:

- a. Process Quality
- b. Developer's Quality

A brief outlay of the above mention exercises maintained by SDS Solution are as follows:

- The inception of any application/ system starts with a clear definition of the business needs and its evolutionary nature. Requirement analysis, in software engineering, is a term used to describe all the tasks that go into instigation, scoping and definition of a new or altered computer system. This does identify all the stakeholders, give them all an appropriate form of input, and document all their input in a clear and concise manner and along with its constraints whereby enabling the business analyst or software developers in a position to design a solution.
- S.D.S Solution has trained software professionals with several man-years of expertise in development and implementation of time-critical quality based application software both on site and offshore projects. The experts are technically qualified from renowned



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engineering colleges and business schools. Introduction to latest software platforms, corporate training to achieve mastery over newer platforms, workshops to hone the skills of software professional and access to a wealth of modern system documentation has been a regular practice in the company. A well-equipped research and development team provides the technical backbone. Thus our system is tailored to the specifications of the project and allows our client's the opportunity to experience the quality and value of the product.

Risk Management

S.D.S. Solution emphasizes on project risk management. The main object is to identify risk conditions, prioritize them based on their impact on project goals, identify plan and execute project goals, identify plan and execute project steps and track risk during entire project life. The process-oriented approach, a well-defined method to review system guidelines and a watchdog to monitor each stage of project almost eliminates the risk of project failure, infra-structural problems and cost or time overruns

Infrastructure

The company's infrastructure is in accordance with international standard. The company also has large offshore development facilities. The hardware setup has several servers of RISC and Pentium family along with GUI workstation and character-based terminals for development and testing software on various platforms.

Manpower

The HR policy of the firm is to attract, hire, and retain top talent. Our robust recruitment processes amplified by the power of cutting edge technology enhances delivery capabilities and ensures our clients achieve potent and reckonable results. S.D.S Solution has trained software professionals with several man-years of expertise in development and implementation of time-critical quality based application software both on site and offshore projects. The experts are technically qualified from renowned engineering colleges and business schools. Introduction to latest software platforms, corporate training to achieve mastery over newer platforms, workshops to hone the skills of software professional and access to a wealth of modern system documentation has been a regular practice in the company. A well-equipped research and development team provides the technical backbone. The company is also backed by a customer support division comprising of a group of experts with excellent application experience. We are a complete and strategic mix of professionals from Technology, Marketing



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and Business management domains that earned us a standing in league with one of the best in the business

Significant PROJECTS

Brief Description :

Project : *SDS Task Manager*

Client : **Eastern Zone Billing Centre, BSNL**

Overview :

Business tasks are the activities generated either by the organization's underlying business processes or by the users themselves as reminders to themselves or in order to delegate work to colleagues. The sooner users complete the tasks, the quicker the processes run. The easier it is for users, departments and companies to generate and track the tasks, the higher the quality of the output from the processes and the higher the transparency of processes within an organization.

This 'web based software has been developed for BSNL, Eastern Zone Billing Centre to facilitate the management manage their assignments in a well defined manner. SDS Task Manager's functionality ranges from collaboration tasks generated manually in response to exceptions to work items generated from automated business processes. *SDS Task Manager* is greatly simplified because the tasks generated by the automated processes (workflows) are all generated by the same *Business Process Management* (BPM) runtime software. This means that the administration, such as locating tasks without owners or archiving, can be done on a uniform basis, irrespective of the source of the tasks. This reduces the total cost of ownership and ensures that the business processes run as fast as possible.

Visit: www.vas.bsnl.co.in/stm/index.jsp

Key Features:

The *Business Task Management* IT scenario allows you to coordinate, monitors, and execute tasks arising from automated process flows.

Business Task Management provides the following benefits:

- Enables simple and centralized access to SAP tasks.
- Provide business and technical users with event-driven tasks, alerts, business context and Guided Procedures to effectively react upon process exceptions and tasks.



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- Provides procedures for exception-handling and knowledge-worker integration set up by local experts.
- Encourages individual control at the lowest level of granularity.
- Provides one-step access to tracking task progress.

Technology :

This web based application is developed in **JSP** as front-end and **Oracle** as back-end (Database) with **Apache Tomcat** as web server and **Solaris** as operation system.

Project : 'Mobile Application' for SMS based Management Information System

Client : ISD

Overview :

The 'Mobile Application' for SMS based Management Information System has been developed to facilitate the company's SVLE s (Super Village Level Entrepreneurs) and VLE s (Village Level Entrepreneurs) working at the rural locations of India to capture sales, stock, and marketing at the transaction originating point. The application will be supported by a backend application to feed information required at the market place. A web application will be there to view MIS details generated on the basis of backend data. The mobile solution will be developed with standard open technology, which can be deployed on the low-cost mobile devices across majority of known brands. Both the mobile and backend application will use SMS mode of information exchange due to availability on all mobile devices, service providers at anywhere, is robust and secured.

Key Features:

- Enable VLEs and SVLEs to enter relevant Data as per specification through Mobile Phones for secondary and tertiary sales.
- Capture sales, stock, collection and travel report at originating moment and store in backend.
- Format and display data generated by the system.
- Enable online information exchange across sales forces hierarchy.

Technology : J2ME based application.



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Project : *Online Value Added Services*
Client : **Eastern Zone Billing Centre, BSNL**

Overview:

Value-added Services (VAS) refers to advanced and/or additional services a content provider (network operator) offers to their customers. The Cellular Mobile subscribers of BSNL now can access and download the rich content like Polyphonic ring tones, MP3 tones, SMS tones, Themes, Color wallpapers, Java Games etc. The detailed catalogue of different services can be seen through <http://www.vas.bsnl.co.in/>

Technology: This web based application is developed in **JSP** as front-end and **Oracle** as back-end (Database) with **Apache Tomcat** as web server and **Solaris** as operation system.

Project : *Website of International Roaming of BSNL*
Client : **Eastern Zone Billing Centre, BSNL**

Overview:

The website "<http://ir.bsnl.co.in>" is an interface for delivering all necessary information and instructions primarily to the BSNL consumers availing the service called "International Roaming" while on abroad. The information and instructions ranges from the list of service providers/operators in the concerned country the 'BSNL' consumer is travelling along with the respective 'Tariff' chart, the detail process of availing their services e.g., Configuration of the set, 'Network' registration with the respective operator and all other relevant information. On the other hand this website also acts as an interface for the Consumer from the foreign country comes to India and wants to avail BSNL's services. Furthermore it does consists of a segment where in the departmental staffs of the 'International Roaming' section can avail all concerned details concerning the section by 'Logging' in through their respective 'User Id' and 'Password' allotted by the Administrator. Here in the staffs are facilitated with "Content Management System" for continuing Upgrading the site.

Technology: This web based application is developed in **JSP** as front-end and **Oracle** as back-end (Database) with **Apache Tomcat** as web server and **Solaris** as operation system.



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Project : *Online Application for integration of user services with the Ericsson AIR Server using User Communication Integration Protocol [UCIP]*

Client : Eastern Zone Billing Centre, BSNL

Overview:

UCIP (User Communication Interface Protocol) is a library which will become a component of SMSC gateway. The function of this library is to implement UCIP a proprietary protocol supported by Ericsson's AIR/Billing server. Library forms an XML-RPC request using the parameters that are passed by calling application, connect to the remote AIR server via HTTP and POST the request. After receiving a response from the server, the library parses the response and returns the values to the SMS gateway/calling application. Though the library is itself single threaded, it is designed to be thread-safe. The library is portable on Solaris (Sun OS) and Linux and will be ported on Windows. It makes use of libXML (1.4.0) - an open source library for parsing the XML response from the server

Environment: Linux, Sun OS, Windows, JAVA, TCP/IP, Socket Programming, VI Editor, XML Parser, XML RPC.

Project : **Electricity Billing Management Software (SDS Bill Power)**

Client : **Energy & Power Department, Govt. of Sikkim**

Overview :

The software has been developed on our enriched domain knowledge of the industry nuances caters to the monthly billing within a definitive time span. The broad objective of this software does facilitate the Energy & Power Department, Govt. of Sikkim to manage and benefit the asset management by conceiving the billing, collection and realization activities in a well defined manner. This software enables proper monitoring and better Information Management therefore improves customer service, increase transparency and ensures the efficiency & enhanced service delivery in the workings of the department. This in turn does bring about cost effectiveness and ensure better management of data.

The software does facilitate the billing process commenced from insertion of the Meter Reading Data, incorporating business decisions as and when necessary, accepting the payment for matching using state-of-the-art Point of Collection machines [Bar-Code Scanner], keeping track of realisable outstanding dues, monitoring of disconnection activities, extending credit control



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functions and to the printing of bills in hard copy and electronic presentment of duplicate bills in the departmental website.

The Application Software conforms to 3-tier architecture & the application is accessible by any client through a web-browser. The application software provides for a centralized system i.e. centralized processing and database with facility for decentralized input and output. This approach was planned keeping in view variety of factors like integrity of data, share access, security, and reduced data redundancy, reliability/availability of stored information, and consistency of data, maintenance, upgradeability and ease of audit.

Technology: The Software is developed in Microsoft Visual Basic and Microsoft ASP as Front-End tools and Microsoft SQL Server 2000 as Database and Microsoft Internet Information Server [MS- IIS] as Web Server.

Project : 'On-line Billing Information System' & Revamping of the official website of Energy & Power Department (www.sikkimpower.org) in ASP.net

Client : *Energy & Power Department, Govt. of Sikkim*

Overview:

The project has been developed to enable the Department to facilitate its consumer simplify their needs by accessing the detail billing information and concerned utility services 'On line' and negate the existing information gaps and enhance the system. This benefits the department better Information Management whence improving customer service, and ensures the efficiency & enhanced service delivery in the workings of the department.

The website shall be facilitated with the following Billing information:

- Online Current Electricity Bill View (*e-bill*)
- Download of duplicate Electricity Bill in its original format
- On-line Payment status updating for consumers
- Online application for new electricity connection.
 - Submit Application.
 - Online Acknowledgement of the application.
- Application status viewing.
 - User can view his/ her application status by entering Application No.
- E-mail messaging of the acknowledgement of the receipt of Payment.
- Designing exclusive menu box/bar in the home pages
- Indexing and synchronizing of the database



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- Tender Announcement on immediate basis
- News flash in the home page and other pages through pictorial presentation.

Technology: The Software is developed in Microsoft Visual Basic and Microsoft ASP as Front-End tools and Microsoft SQL Server 2003 as Database and Microsoft Internet Information Server [MS- IIS] as Web Server

Project : Sub Ledger for BSNL International Roaming

Client : BSNL Eastern Zone Billing Centre

Overview :

This Windows based Application generates Monthly Invoice, Issue of Credit Note & Debit Note, Issue of Journal, monthly Sub ledger review, party-wise ledger, Service Tax payable amount, outstanding list etc for both piggybacking roaming provider and direct roaming provider.

Our Solution:

The software shall facilitate the following functionalities:

1. Preparing invoice for the services of BSNL network accessed by the Foreign Operators and corresponding payments detail and vice versa.
2. Generation of service tax report and allied tax report.
3. Keeping track of the payment in accordance to daily foreign currency rate with respect to INR.
4. Generating report of the foreign operator's party ledger.
5. Monthly collection report along with the outstanding status.
6. Revenue earning details both in terms of Month wise/Party wise.
7. Invoice Generation & status report.

Technology: The Software is developed in Microsoft Visual Basic and Oracle in the back-end as Database

Project : Print Management Software (: SDS_PCL Viewer)

Client : BSNL Kolkata Telephones. BSNL West Bengal Telecom Circle, BSNL Orissa Telecom Circle, BSNL Assam Telecom Circle

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This Windows based Application is a 'Print Management Software' named 'PCL Viewer' has been developed particularly for the BSNL Mobile (*GSM & CDMA*) Billing section that enables 'Printing' and 'Viewing' of the PH files as generated by BSNL in Binary PCL (Printer Command Language) format. PCL Viewer also has many high-level PCL analysis and management tools that can make the overall printing process much more efficient. The software facilitates 'Bar-Code' facility in code 128C format in existing GSM & CDMA Billing system of BSNL along with the required fields, like account no., invoice no., invoice date & bill amount. The software also facilitates sorting and printing of 'Pin - Code wise' *GSM & CDMA* bill, Sorting of 'CUG (Corporate)' print files of Cell One bill, Suppression of printing the 'Zero Usages Bills', 'Auto ECS Mark Up' in *GSM & CDMA* bill.

PCL Viewer displays monochrome and color LaserJet print files (PCL PS) with improved PCL rendering accuracy and optional 600 dpi resolution. PCL Viewer's enhanced rendering quality and PCL color support is also available which enables automated batch conversion to PDF and high-performance rendering for final printing. PCL Viewer's enhanced rendering quality and PCL color support is also available which enables automated batch conversion to PDF and high-performance rendering for final printing. This software allows efficient management of documents as PCL, repurposing them on demand in other formats.

Technology: The Software is developed in Microsoft Visual Basic and Microsoft Access in the back-end as Database

Project : **Integrated Administrative Software (SDS_IAS)**

Client : **Inter University Consortium for DAE Facilities (An autonomous Advance Research Institution of U.G.C., Govt. of India)**

Overview :

The Application software is an Integrated system that has been developed to automate and integrate the Entire Purchase & Stores section, Personnel Section and the Accounts Section. The modules did include the development of 'Purchase & Store Automation System', 'Personnel Database Management System' and 'Financial Database Management System'. The other key feature of this software is the 'Privilege Permission" for different category of user level viz. Administrator and User.

The application software provides for a centralized system i.e. centralized processing and database with facility for decentralized input and output. This approach was taken keeping in view variety of factors like integrity of data, share access, security, and reduced data redundancy, reliability/availability of stored information, and consistency of data, maintenance, upgradeability and ease of audit.



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The “IAS” aid in the control and communication of activities, such as

- Management and analyses of operations within an interactive environment
- Synchronization of activity within the sections i.e. Purchase & Stores, Personnel and Accounts.
- Monitoring, sharing, and tracking information throughout the organization.
- Maintenance of Stock Ledger & Stock status
- Maintaining and Accessing the Personnel database like Employee personal details, service record details and leave details.
- Facilitation of Automatic Fax and e-mail transmission of relevant documents.
- Issuing Certified Stores Receipt Voucher.
- Automization of the ‘Book keeping’ of financial records and the salary records.

Technology: Developed in JSP, JAVA Servlet (as server tools) & My SQL (as Database). And Apache Web Server on Linux 7.x platform has been used at some places as required.

Project : TAX Data Capture Software.

Client : West Bengal Telecom Circle, BSNL

Overview :

This application software has been developed for the Telecom Sector. This high end software enables online data capture from the different Telephone Exchange under the West Bengal Telecom Circle to measure the call performance ratio with various MIS generated at the CellOne Technical Centre of Eastern Zone Billing Centre. The broader objective of the software is to reduce data redundancy, reliability/availability of stored information, and consistency of data, maintenance, upgradeability and ease of audit.

Technology: The software has been developed in Visual basic 6.0 and Oracle 8i in the back - end.

Project : TAP RECONCILIATION Software

Client : Eastern Zone Billing Centre, BSNL

Overview :

This is a customized software developed for the Monthly reconciliation of TAP (Transfer Access Protocol) files both for the in roaming (TAP-IN) and out roaming(TAP-OUT) received from RBS server and invoiced TAP files by M/s Spice and M/s MACH in case of piggybacking roaming and direct roaming respectively. The details of data are provided in soft form.



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Technology: The Software has been developed C#.net and Oracle 9i in the back end.

Project : Purchase Management Software in Browser Mode

Client : DIRECTORATE OF PURCHASE & STORES, DEPARTMENT OF ATOMIC ENERGY, GOVT. OF INDIA

Overview :

This is Windows based Application software that has been developed to automate the entire Purchase process and enable the organization to streamline the activity and optimize operations. The software has been developed to facilitate the entire purchase system of the Central Govt. department viz., Tendering, Comparative Study, PO Generations, print of different type of reports and letters in totally automated matter. The software also keep track of the Tender Invitation letters, generates reminders against unexecuted orders, maintaining Purchase order register, vendor wise product list along with price history, fixed asset register The software is well secured and does ensure security to any mal practice in the purchase process of the department.

The software does the following activities:

- Efficient handling of order processing
- Dynamic control of the Purchasing process.
- Synchronization of Order entry, quote processing, and reporting.
- Keep track of Order status & Year-wise commitment details.
- Generating Comparative Statement of the tenders.



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<i>Clients</i>	<i>Scope of the work</i>
BSNL. Eastern Zone Billing Centre - Kolkata	Website of International Roaming of BSNL. http://www.ir.bsnl.co.in
BSNL. Eastern Zone Billing Centre - Kolkata	Online Value Added Services Portal. http://www.vas.bsnl.co.in
Energy & Power Department [Govt. of Sikkim]	Bar-Code enabled 'Electricity Billing Management' Software & viewing, downloading and printing of 'Duplicate Bill' through the Departmental website.
BSNL. Eastern Zone Billing Centre - Kolkata	CellOne Bill Printing management software with Bar-Code.
BSNL. Eastern Zone Billing Centre - Kolkata	Online Application for integration of user services with the Ericsson AIR Server using User Communication Integration Protocol [UCIP]
BSNL. Eastern Zone Billing Centre - Kolkata	Sub Ledger for International Roaming for both piggybacking roaming provider and direct roaming provider
BSNL. Assam Telecom Circle	GSM & CDMA bill print management system [using Bar-code technology]
Energy & Power Department [Govt. of Sikkim]	Time Attendance Management Software along with Bio-metric device
BSNL. Orissa Telecom Circle	GSM & CDMA bill print management system [using Bar-code technology]
BSNL. West Bengal Telecom Circle	GSM & CDMA bill print management system [using Bar-code technology]
BSNL. Kolkata Telephones	Development of 'Refund Management Software' in VB 6.0with Oracle 9i in the back-end.
BSNL. Kolkata Telephones	Development of "Adjustment Extractor from PH files and Reconciliation with Bill Register of GSM & CDMA Bill" in VB 6.0with Oracle 9i in the back-end.
BSNL. Kolkata Telephones	'Last Usage Analyzer' Software tool developed in VB 6.0with Oracle 9i in the back-end.
BSNL. Kolkata Telephones	Development of 'Web based software for Manik-Jod call details analyzer of GSM Mobile Bills'. Developed in ASP.net
BSNL. Kolkata Telephones	GSM & CDMA bill print management system [using Bar-code technology].
BSNL. Kolkata Telephones	Development of 'Reconciliation Software for Manik Jod GSM Mobile bills '. Developed in VB 6.0
BSNL. Kolkata Telephones	Development and implementation of 'Bulk adjustment Project for GSM Mobile Bills'. Developed in VB 6.0 and Oracle 9i in the back -end.
BSNL. Kolkata Telephones	Development of 'Call details analyzer of GSM Mobile Bills'. Developed in ASP.net
BSNL. Kolkata Telephones	Development of 'Print File Extractor and refund management Software for GSM Mobile Bills'

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SDS Solution – Company Profile

BSNL. Kolkata Telephones	Development & Implementation of 'Visitor Tracking Management System'. Developed in C#.
BSNL. Kolkata Telephones	Development, Implementation & Maintenance of required software for generation and printing of duplicate GSM & CDMA Bill with bar-code facility through Medha web site. Developed in PHP and MySQL.
BSNL. Eastern Zone Billing Centre	Development of IUC Billing Software in INR inclusive of all taxes for generation of IUC billing invoices for all circle under Eastern Zone Billing Centre
BSNL. NE-I Telecom Circle	Development & Designing of the website of NE-1 Telecom circle along with the Database design. Developed in PHP and MySQL in the back-end.
Inter University Consortium [An autonomous Advance Research Institution of U.G.C. Govt. of India]	Development & Installation of Integrated administrative Software in JSP, JAVA Servlet [as server tools] & MySQL [as Database]. And Apache Web Server on LINUX 7.X platform
BSNL. West Bengal Telecom Circle	Development, Maintenance and Administration of Bharat Sanchar Nigam Limited website name www.wbtelecom.net using HTML. DHTML. FrontPage. ASP. Java Servlet. VISUAL BASIC script. JAVA Script. Adobe Photoshop. Macromedia Flash.
BSNL. West Bengal Telecom Circle	Development, maintenance and Data Administration of GSM Mobile Mobile billing software running in Intranet & Internet using Microsoft ASP as a front end and Oracle as back end.
Directorate of Purchase & Stores, Department of Atomic Energy. Govt. of India	Design, Documentation and Installation of Purchase Management Software in Browser mode along with supporting application in VB.
GFS Consultancy Pvt. Ltd.	Development, Maintenance and Administration of GFS Consultancy Ltd. website name www.gfsconsultancy.com using HTML. DHTML. FrontPage. ASP. Java Servlet. VISUAL BASIC script. JAVA Script. Adobe Photoshop. Macromedia Flash.
Infodrive India Pvt. Ltd.	Development of Integrated Application Package containing Data Production Management, Customer Tracking System, Sales Management System, HR and Accounting System.
Burnpur Dream Way Network Marketing Pvt. Ltd.	Techno-Economic Feasibility Studies. Economic and Financial Analysis. Conceptual Design Planning Technical Specifications. And Development & Installation of Integrated Office Atomization Software.
CENTURY PLYWOODS [I] Ltd	Developed A CRM product for Century Plywood on Business Flow Tracking & Inventory System using Oracle as a backend and D2K as a front-end.
Asset International [A Division of Aptech Ltd.]	Development of web sites at regional level, with the facility of online training and online counseling of courses, and online enrollment facilities in association with Pugmarks India Limited. www.asset-it.com using HTML. DHTML. FrontPage. ASP. Java Servlet. VB script. JAVA Script. Adobe Photoshop.



SDS Solution – Company Profile

Kris System Pvt. Limited	Consultancy and Software Development of Electronic Commerce Solution and Transaction through Internet for the client of Kris System Pvt. Ltd.
Aforeserve. com Ltd	Developed a browser based interactive application [SQL SERVER 2000 as database] for internet as well as office intranet offering total stock control, purchase control, MIS. Using MS SQL Server, ASP, Front Page.
Asian Information Marketing and Social Research [P]. Ltd.	Development, Maintenance of Internet Application of Retail Stores-Data flow. Using MS VISUAL BASIC as front-end & MS Access as back-end.
German Machinery & Plant Manufactures' Association [VDMA]	System Atomization, Management Information System and Client Relation Management System. Using MS VISUAL BASIC and SQL Server
Lords InfoTech	Development of Database driven high level scanned image storage and manipulation. Using MS Visual Basic and SQL Server.
Rosni Consultant and Engineers	www. rosni.net - A interactive placement web site featuring HR Tips, Interview alert, Personality development work shop. Using HTML, ASP, IIS, Macromedia Flash 5.0, Adobe Photoshop 6.0,
Inter University Consortium for Department of Atomic Energy Facilities. [An autonomous Advance Institution of U.G.C. Govt. Of India]	Development / Customization & Installation of Integrated Administrative Software Package. Using JSP. JAVA Servlet [As server tools] and MySQL[Database] under Linux and Apache Web server environment.
NARMADA Equipment & Spares Co.	Development of Management Information System. Using MS Visual Basic and SQL Server 2000
SATCOM Elektroniks Ltd.	Interactive web page development and in house networking solution. Using HTML. DHTML. FrontPage. ASP. Java Servlet. VISUAL BASIC script. JAVA Script. Adobe Photoshop. Macromedia Flash.
Public Health Department. Govt. of West Bengal	Online Integrated Personnel Database Management System. - Linux Implementation - [Java Servlet, Linux 7.1. Database - MySQL. Apache Web Server] Implementation - Windows NT 4.0 - [Java Servlet, Windows NT 4.0. Database MS Access 2000. JSDK 2.0].



SDS Solution – Company Profile

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