

t s solutions

PRIVATE LIMITED

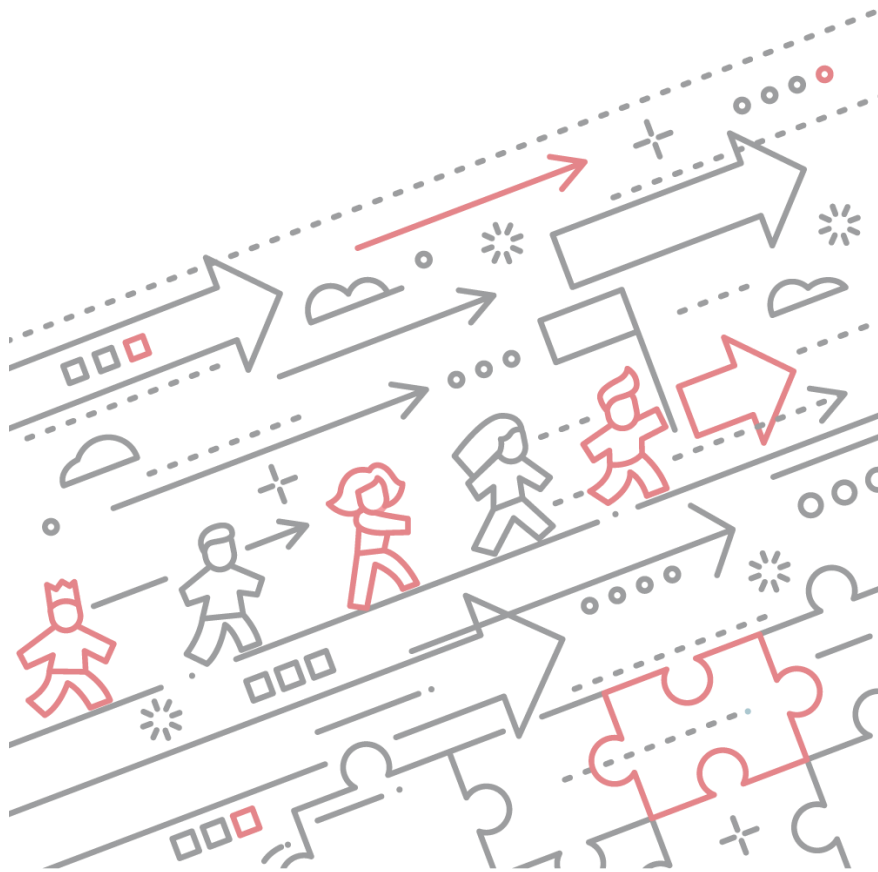
coding thoughts..



Services We Offer

Services we offer

- Customized ERP Software
- Customized Point of Sale (POS) Software
- ASP.NET Development
- AWS Cloud Consulting
- Database Oriented Applications
- Custom Software Development
- IT Support
- Bootstrap Development
- MEAN Development
- Technology Migration



1. Customized Enterprise Resource Planning (ERP) Software

ERP - a strategic business process management tool that is used to manage information within an organisation. The ERP system integrates all levels of an enterprise into one comprehensive information system that can be accessed by individuals of that organisation.

Customised ERP: We understand that no two businesses are identical, that's why the software solutions that work for someone else may not work as effectively for your business. Every software solution has its own unique features that are meant for the specific customer. So, we deliver Customized ERP Solutions.



Industries we had served and counting:

- Transformer Manufacturing
- Electronic Goods
- Sports Goods Manufacturing
- Carpet Manufacturing
- Shoe Manufacturing
- Locks Purchase & Distribution System
- Custom Clearance System
- Warehouse Management System
- Sugar Manufacturing
- Paper Industry
- Automobile Industry

General Information: ERP can be provided in different forms, such as On-Site in this form the software is installed locally on client's hardware and servers and managed by the client's IT staff, or Cloud-based in this form, the software exists off-site and is managed by a service provider. Through ERP, the client can integrate business partners like Vendors and Customers. In the current interconnected world, we also provide the ability to access data through your ERP from anywhere, and by using mobile devices.

Technologies: To provide one stop solutions, we use the following technologies to accomplish our client's requirements:

Web Applications: ASP.NET, ASP.NET MVC, ASP.NET AJAX, ASP.NET DYNAMIC DATA

UI Components: ASP.NET AJAX CT, DevExpress

Web Services: ASP.NET Web Services, WCF Services, WCF DATA Services, JSON

Security: HTTPS/SSL, RSA

Database: Oracle, SQL Server, MySQL, Microsoft Access

Mobile App: iOS, Android

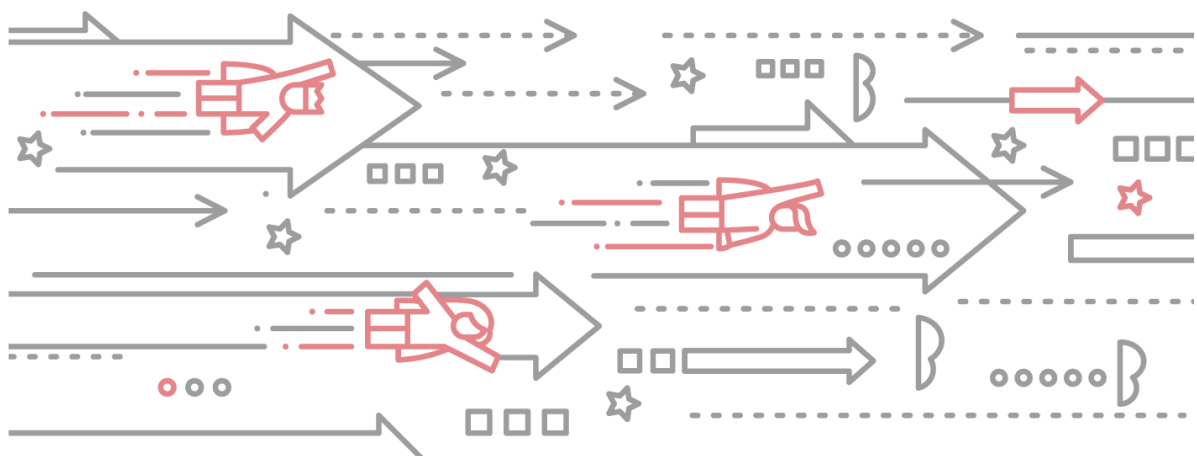
Desktop & IDE: Windows Form, Visual Studio, Android Studio, XCode

2. Customized Point of Sale (POS) Software

A point of sale system is a combination of software and hardware that allows business to take transactions and simplify key day-to-day business operations. The POS system is the place where your customer executes the payment for goods or services bought from your company's retail outlet.

We understand that ready-made POS software does not always fulfill the requirement of your business-specific need, so we deliver Customized Point of Sale Software. In our POS, we provide the following features:

- a. Customer Details with Mobile Number, Email, History, DOB etc., and we can send promotional SMS to customers.
- b. Through our POS, the user can generate an Invoice with bar code scanning, Sale Returns, Credit Notes, Stock-in, Material Return, Stock Transfer
- c. Complete Audit system is inbuilt
- d. EOSS (End of Season Sale) Maintenance
- e. Gift Vouchers
- f. Discount Coupons
- g. Premium Customer special offers based on purchase history (Auto analysis)
- h. Connected with Finance
- i. Sale Analysis (Web-based)
- j. User role-wise security to perform actions
- k. Daily expense management (Petty-cash)



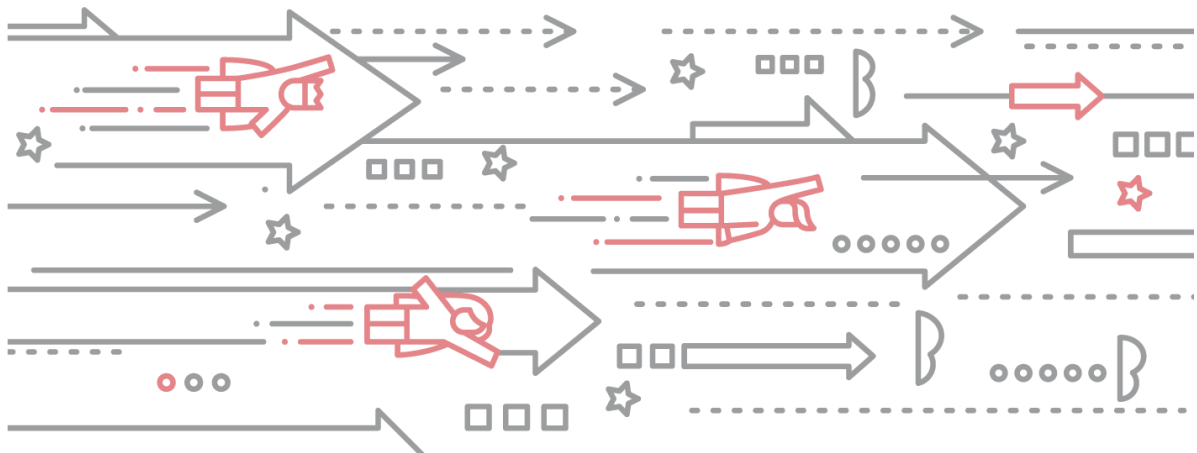
3. ASP.NET Development

ASP.Net is an open source server-side web application framework designed for web development to produce dynamic web pages. It was developed by Microsoft to allow programmers to build dynamic websites, web applications and web services.

The next generation version of Microsoft ASP is a programming framework used to create enterprise-class web sites, web applications, and technologies. By using ASP.NET we can build a small business website or a large corporate web application distributed across multiple networks.

ASP.NET Programming Models includes:

- ASP.Net Web Forms
- ASP.Net MVC
- ASP.Net Web Pages
- ASP.Net Web API
- ASP.Net Handler
- ASP.Net AJAX
- ASP.Net Dynamic Data



4. AWS Cloud Consulting

Amazon Web Services (AWS) is a secure cloud-services platform, offering computer power, database storage, content delivery and other functionality to help businesses scale and grow.

We use the following services of AWS

a. EC2

Amazon Elastic Compute Cloud (Amazon EC2) is a webservice that provides secure, resizable compute capacity in the cloud. It is designed to enable web-scale cloud computing for developers.

b. S3

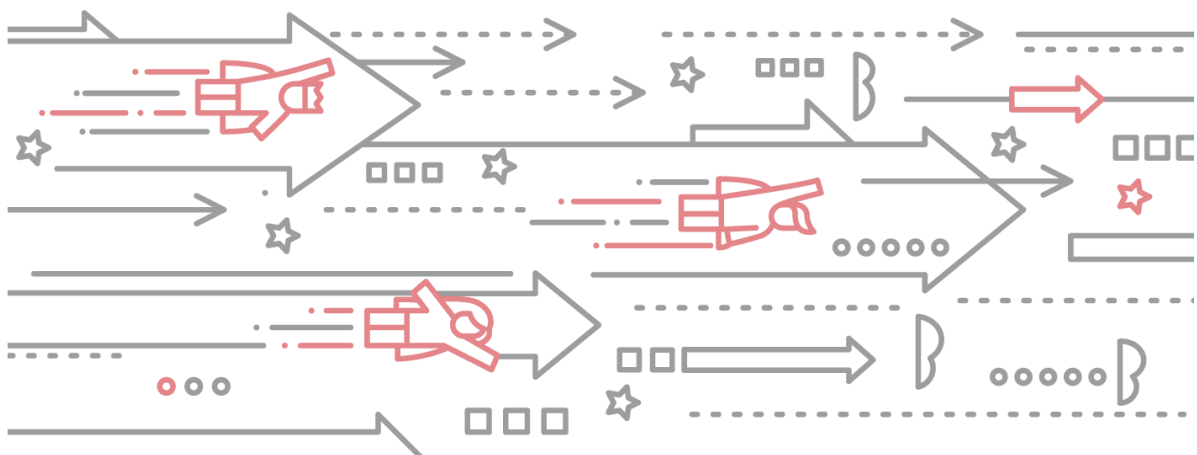
Amazon S3 is object storage built to store and retrieve any amount of data from anywhere websites and mobile apps, corporate applications, and data from IoT sensors or devices.

c. SNS

Amazon Simple Notification Service (SNS) is a flexible, fully managed pub/sub messaging and mobile notification service for co-ordinating the delivery of messages to subscribing end points and clients. With SNS we can fan-out messages to a large number of subscribers, including distributed systems and services, and mobile devices.

d. SES

Amazon Simple Email Service (SES) is a cloud-based email-sending service designed to help digital marketer and application developers send marketing, notification, and transactional emails. It is a reliable, cost-effective service for businesses of all sizes that use email to keep in contact with their customers.



5. Database Oriented Applications

A database oriented application is a program whose primary purpose is entering and retrieving information from a computerised database. A database application facilitates simultaneous updates and queries from multiple users. For this kind of application there are two types available SQL database and NoSQL database. In SQL databases we work with the following:

a. Microsoft SQL Server

A relational database management system developed by Microsoft. SQL Server is commonly used for Data Warehousing, Online transactions processes, e-commerce web sites. Microsoft markets atleast a dozen different editions of Microsoft SQL Server, aimed at different audiences and for work loads ranging from small single-machine applications to large internet-facing applications with many concurrent users.

b. MySQL

MySQL is an open-source relational database system. The main purpose of MySQL is for web databases. It is most commonly used for e-commerce, data warehousing and logging applications.

c. Oracle

Oracle database is a multi-modal database management system. Produced and marketed by Oracle Corporation, it is a database commonly used for running online transaction processes, Data warehousing, and mixed data work loads.

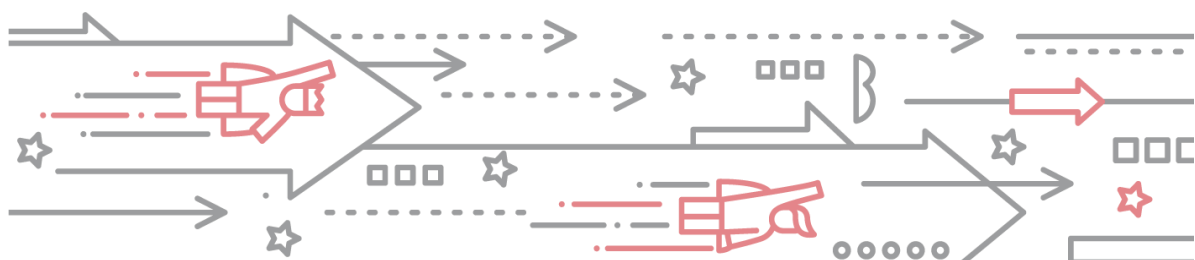
d. Microsoft Azure SQL Database

Microsoft's cloud database service is based on SQL server database technology and built on the Microsoft Windows Azure Cloud Computing Platform. It enables organizations to store relational data in the cloud and quickly scale the size of their databases as required.

And in NoSQL database:

MongoDB

Mongo DB is an open-source database, which stores and indexes data in the form of collections of documents. In this way, it offers higher performance in data retrieval, when compared to conventional SQL databases.



6. Custom Software Development

Sometimes in industry we have very specific requirement that can not be fulfilled by ready-made solutions. And sometimes the requirements of the customer are so specific that only he/she needs that solutions, so there is no ready-made solution available in the market. For these types of cases, we provide custom software development. Some typical projects are:

a. SMS Machine Communication

One of our telecommunication clients needed a front-end for their GSM-based terminal, which is used for Customer Support. It was designed to send pre-defined SMS in response to incoming SMS from any customer, dealer or support staff.

b. Dyeing Colour Calculation

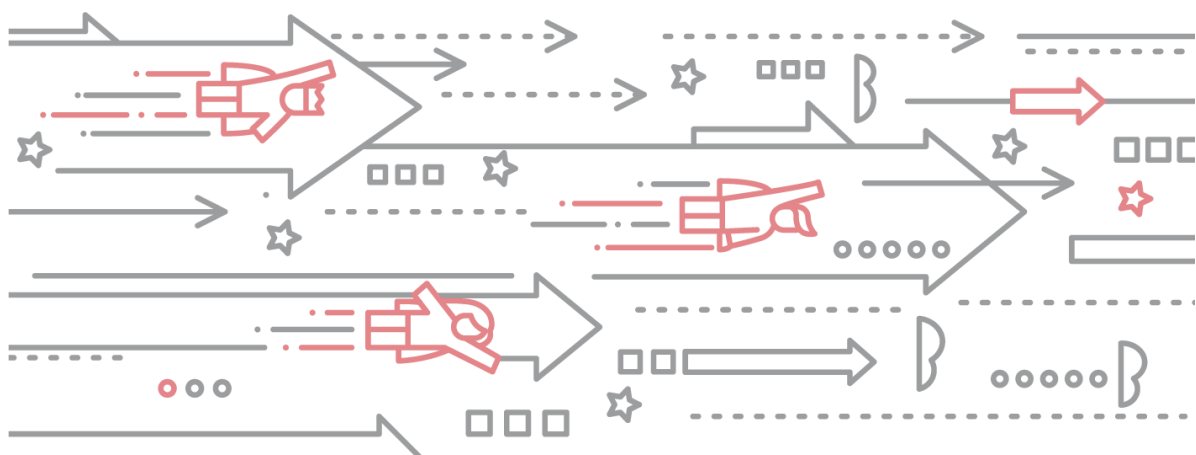
While working with our Carpet Manufacturing client, they needed a solution for a Colour-wise area calculation in a given picture of carpet. It has ultimately provided for the calculation of colour-wise yarn usage in any specific design of carpet.

c. Online Test Program for Institutes

This program is used for conducting online test for students in particular Institutes or Colleges. It allows students to connect with exams online and take their test. It includes parameters like Exam Time, Number of Questions, Subject and Lessons. It is designed in such a way that each student gets a distinct set of questions.

d. Big file Transfer

One of our clients was facing issues in online transfer of their product design and catalogues to China to enable local product manufacturing due to the restricted internet environment in China. This program helps users to upload bigger files of several GB and share it with different users anywhere. The program sends a link to download the bigger file in an email to users.



7. IT Support

We love taking technology problems off your hands. And we do that by providing great flexible IT support services in whatever the way customer require. With us, you will get over 18+ years of expertise and experience from a team of friendly, approachable and knowledgeable technical specialists.

With the availability of high speed internet, it is possible to provide IT support to remote customers. It is cost effective and quick. We provide the following additional services to our customers:

a. Implementation Support

Once we deliver Customized Solutions, we help our customer with Installation issues and provide awareness regarding the software solutions to the team.

b. User Training

Detailed training for customized solutions to the customer's team. We handle the day-to-day working issues of the customer to their level of satisfaction.

c. E-mail Management

We also take care of the email management of our customer. We can purchase accounts on the customers' behalf, and emails can be via Exchange or POP e-mail services. We manage storage space and help the user setup their e-mails on different devices.

d. Domain Management

We purchase/reserve domain names as per customer demand and manage their expiration and renewals. We set up domains for e-mail, websites and web servers.

e. Web Server Management

We manage Dedicated Web servers and Cloud-based web servers for Databases and Websites. We take care of back-ups of server data and optimize the smooth working of the server.

f. RSA SecurID Implementation

The RSA SecurID authentication mechanism consists of a token, either hardware or software, which is assigned to a computer user and which creates an authentication code at fixed intervals, using a built-in clock and the card's factory-encoded, almost random key. For better security, we implement RSA SecurID security in our Customized solutions for our clients.

a. SMS-OTP based Security Implementation

OTP offers a secure login solution at the same security level as RSA SecurID hardware tokens, but without requiring an additional device. OTP codes are valid for only one login session or transaction occurring at one digital device for a limited time. All that's needed is a username (or email address), password, and mobile phone.

Different from traditional passwords which are static, OTP codes are not vulnerable to replay attacks. The expiration element reduces the chance of an unauthorized third-party abusing access. Because humans do not select the codes, it helps users who are prone to reusing the same or similar passwords from being attacked. However because OTPs are difficult to memorize, they require an additional device like a mobile phone to work. Since most people have mobile phones (which they use for multiple purposes), OTP technology is easy and cost-effective to implement.

b. AWS-SNS & AWS-SES

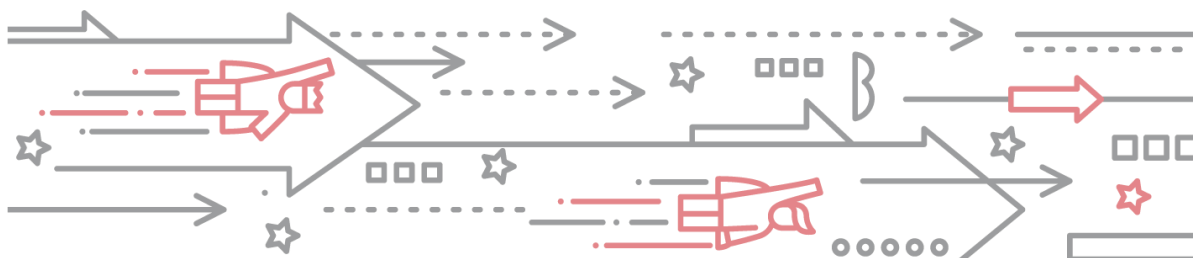
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SNS

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SES

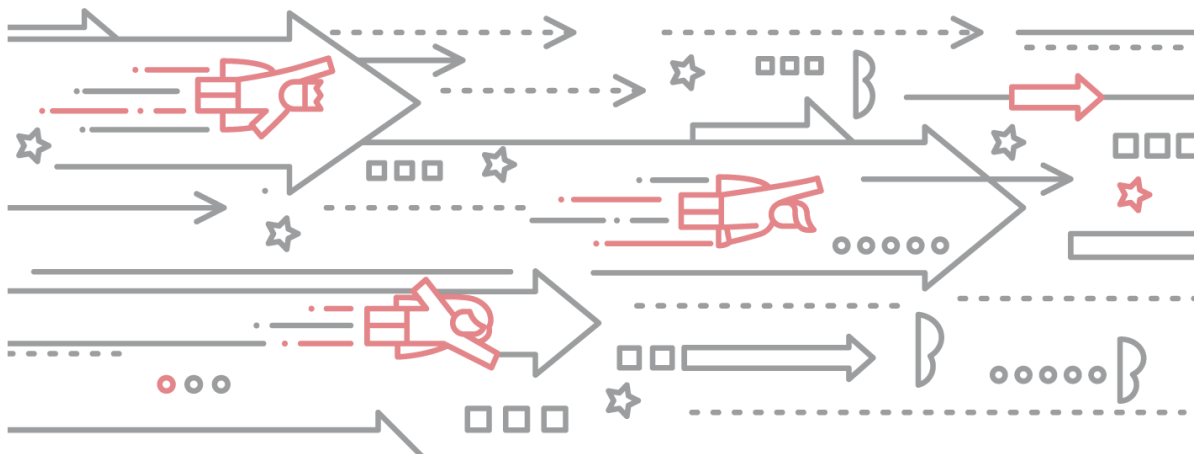
Amazon Simple Email Service (SES) is a cloud based email sending service designed to help digital marketer and application developers send marketing, notification, and transactional emails. It is a reliable, cost-effective service for businesses of all sizes that use email to keep in contact with their customers.



8. Bootstrap Development

Bootstrap is one of the most popular mobile-first front-end responsive web design frameworks used for building responsive websites and web applications. It has HTML and CSS-based design templates for buttons, navigation, typography, forms, tables, grids, and other essential interface components that make the entire interface component developments process easy for web developers. The biggest benefit of Bootstrap is that its website is accessible to Mobile Phones, PCs, Tablets and Laptops. Beyond, it has many features like:

- Future compatibility
- Impressive documentation
- Easy to customize
- Simple standardization of HTML syntax
- Available with basic styling
- Simple to learn and implement
- Preconfigured layouts and background
- Predefined styles
- Plug-in integration for jQuery
- Compatible with every browser



9. MEAN Development

The complete MEAN Stack provides an integrated way for producing web applications, which comes with performance and flexibility advantages over other popular stacks such as the LAMP (Linux, Apache, MySQL, PHP) stack. MEAN provides flexibility in the operating system choice, higher performance in main data retrieval operations, as well as compelling performance for CPU-intensive server-side operations.

MEAN stands for
mongoDB

mongoDB is the leading NoSQL database, empowering businesses to be more agile and scalable.

express

Express is a minimal and flexible node.js web application framework, providing a robust set of features for building single and multi-page, and hybrid web applications.

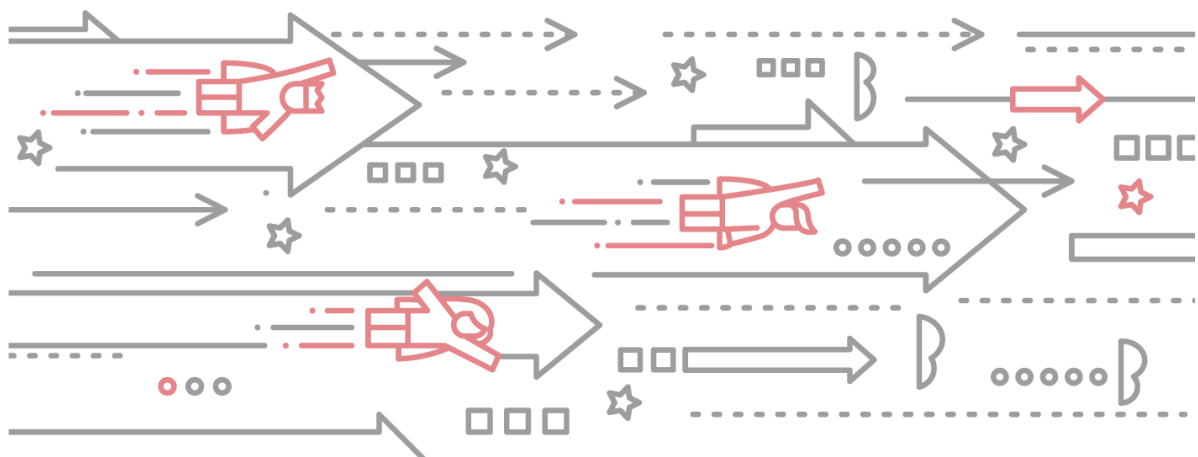
angular js

Angular JS lets you extend HTML vocabulary for your application. The resulting environment is extraordinarily expressive, readable, and easy to develop.

node js

Node.js is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications.

Node.js has an over-100% annual growth rate, while being used in products like LinkedIn and Uber.



10. Technology Migration

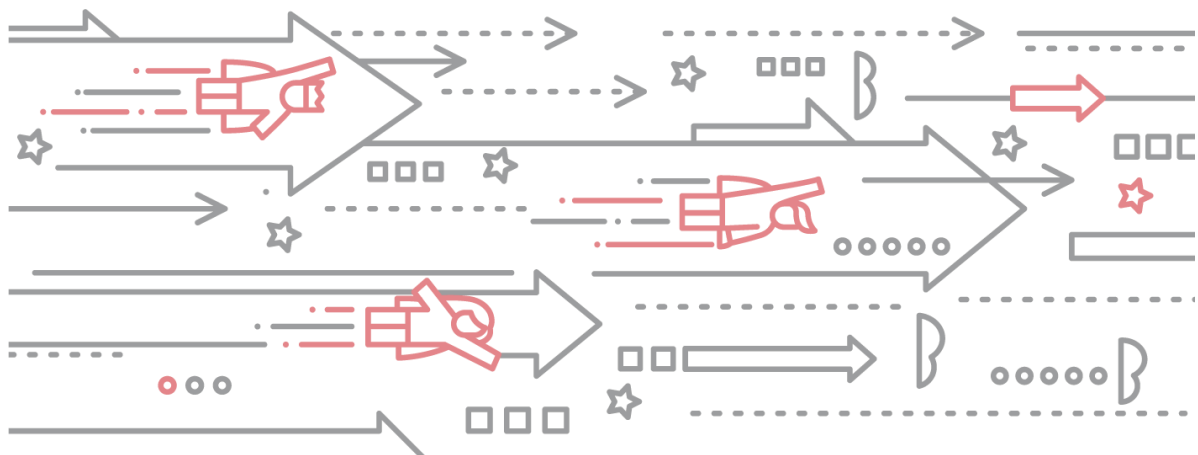
Get your old trusted buddy (i.e. software project) upgraded with new technologies to increase performance and usability with the same trust level.

a. Outdated Technology

Technology migration is needed when your technology is outdated like projects on Visual Basic, Fox Pro, Delhi etc. These types of projects are no longer sustainable and do not meet user's expectations. And there are no updates available.

b. Weak Current Technology

There are cases where a current technology project can no longer handle market demands and tasks. There could be small projects on which we need to work to make them internet friendly or make their operation robust through new technical modifications.



List of clients:

- Quality Group Limited, Tanzania E. Africa
- Delco Remy Electricals India Limited, Noida India
- Vishal Transformers & Switchgears Private Limited, Meerut India
- PEP Infotech Limited, Meerut India
- Accord Communications Limited, Meerut India
- Indian Army (Signal Regiment)
- Atlanta Systems Private Limited, New Delhi India
- Ratika Computronix Private Limited, New Delhi India
- Saru Silver Alloy Private Limited, Meerut India
- Sareen Sports Industries, Meerut India
- Modi Industries Limited, Modi Nagar India
- Bhalla International (Vinex), Meerut India
- Stag International (Stag), Meerut India
- Deepeeka Exports, Meerut India
- AVA Handfab, Meerut India
- Kumar Steels Inc. Haryana India
- Jainsons Exports, Panipat India
- National Sports, Meerut India
- Franco Leome Shoes Private Limited, New Delhi India
- Magnum Industries Limited, Israel

Case Study: Locks Purchase & Distribution Industry

3C - a complete Sales & Purchase Management Software. It covers Product Details, Product Pricing, Customer Management, Sales Order Booking, Purchase order Generation and Invoice Management etc. with Accounts integration. 3C automates the process of order execution and shipment detail calculations. In 3C, user logins from distributed locations world-wide were previously secured by RSA SecurID (Hardware Token) and now are secured with OTP-based services, integrated with Amazon SNS.

The client

Magnum Industries Limited, Israel

The Solution

Customized ERP for Lock Purchases & Distribution

The Challenge

In this business, product details are maintained per Vendor. And all the pricing is set with Level and Cost Price. As soon as the company receives any Customer Order and enters that into the system, the Purchase Orders are automatically generated and e-mailed to the respective vendors. Orders are processed through several stages, like Pending for Ship Date, Confirmed Ship Date, Open and Close.

The main challenges faced:

- Automation of the Order Execution Process
- Connection with External - Vendors and Customers
- Detail management of Product, Product Pricing, Customer, Customer Contacts
- Distribution Emails and Target Customers

The Technology

- Web Client
 - VB.net, DevExpress, SQL Server, Web services, Windows Services, SMS-OTP, Amazon SNS, Crystal Reports

Key benefits

3C is a web-based solution and this allowed our clients' customer, administrative team, and vendors to login and perform/get their respective tasks/information. This enabled more efficient and real-time information flow.

All financial reports and task are performed seamlessly with 3C, including bill payments, payment receipts, credit, debits and account statements.

Case Study: Shoe Manufacturing Industry

The footwear industry has matured from the level of the manual footwear manufacturing method to the automated footwear manufacturing systems. Now footwear production units are installed with world class machines. Manned by skilled technicians, these machines help to turn any new innovative idea into reality.

The client

Franco Leome Shoes Private Limited, New Delhi India

The Solution

Customized ERP for footwear manufacturing company

The Challenge

The company required a tailor-made ERP Solution that would help standardize and streamline their business processes across the organization and improve operational control through comprehensive financial and management reporting.

The main challenges faced

- Connecting multiple types of units:
 - Internal – Head Office, Manufacturing, Retailers, Distributors
 - External - Vendors and Customers
- Material purchasing with diversified taxation
- Managing Online Database
- Control of all units from Headquarters.
- Retail Software (Point of Sale)

The Technology

- Window Thin Client
 - VB.Net, DevExpress, SQL Server, Web services, Windows Services, Crystal Reports
- Web Client
 - ASP.net, SQL Server, Web services, Crystal Reports

Key benefits

Timely status of inventory across locations can be obtained by the click of a button. This will help in leaner inventory. With effective control & management over inventory stock, as well as accurate visibility & efficient fulfilments, competitive pricing can be derived

Inventory Management & Production help manage detailed warehouse data, track and record stock movements and plan and release production orders based on material requirements planning.

POS (Point of Sale), EOSS (End of Season Sale) Management, Discount Coupons, Customer Loyalty program, Gift Vouchers, SMS Marketing etc. are included.

Case Study: Transformer Manufacturing Industry

Transformer industry or electrical component manufacturing companies produces different types of transformer or components based on usage. In this industry, the manufacturer must manage the entire stock and production for different kind of assemblies and deliveries based on specific client requirement.

The client

Vishal Transformers & Switchgears Private Limited, Meerut India

The Solution

Customized ERP for Transformer manufacturing industry

The Challenge

The company required a tailor-made ERP Solution that would help standardize and streamline their business processes across the organization and improve operational control through comprehensive financial and management reporting.

The main challenges faced

- Quotation Management & Follow-ups
- Multiple level of Product Categorization (Product has up to 10 level of categorization)
- Production Planning & Control
- Quality Control of Finished and Semi-Finished Products

The Technology

- Window Client
 - VB 6.0, Crystal Reports
- Server
 - Oracle 8i & Oracle 10g

Key benefits

Our customized ERP is designed to handle complete needs in the most effective manner, which includes correct capture of the client's requirements, like commercial terms & technical terms. The information flows with the system until we complete any order for the client. Final product is easy to configure with product categorisation levels. Finance is integrated with the complete system. Our ERP enables the client to accelerate customer enquires with accurate product costing and deliveries, real time control over operations, and highly managed quality control of the production process.

Case Study: Sports Goods Manufacturing Industry

Undergoing a major change, the labour-intensive sports goods manufacturing industry has largely moved towards automation. The sports-goods Industry has a very high volume of inventory based on size, colour & weight. It also includes less skilled manpower to handle the manufacturing process. This industry also deals in multiple currencies to support their worldwide export. And for Indian manufacturer there is a need to complete export documentation.

The client

Bhalla International (Vinex), Meerut India

Stag International (Stag), Meerut India

National Sports, Meerut India

The Solution

Customized ERP for Sports Goods Manufacturing Industry

The Challenge

The company required a tailor-made ERP Solution that would help standardize and streamline their business processes across the organization and improve operational control through comprehensive financial and management reporting.

The main challenges faced

- Product Inventory based on Size, Colour and Weight
- Handling of Export Documentation
- Handling Multiple currency Invoices and Documents
- Packing List creation for multi-part products
- Product Stickers, Carton Stickers, Packing Labels Management

The Technology

- Window Client
 - VB 6.0, Crystal Reports
- Server
 - Oracle 8i, Oracle 10g, SQL Server

Key benefits

With the help of our customized ERP, the companies have achieved improved operational efficiency with better management of orders and inventory. Support to both in-house as well as contract manufacturing. Quick and easy to perform last minute changes in packing list. Handling of multipart products in one packing list. Analysis of products' sale for a complete group, as well as for different variants like for Size, Colour and Weight.

Case Study: Carpet Manufacturing Industry

Carpet Industry involves manufacturing of carpets, handicrafts, rugs, shawls & mats. During the manufacturing process raw materials go through several processes like dyeing, and for this we need to provide material to a contract service provider outside company premises. In this process we need to take care of all incoming and outgoing material quantity and a quality check. And we need up-to-date stock information of the company's and the contract service providers' stock.

The client

Jainsons Exports Private Limited, Panipat India

The Solution

Customized ERP for Carpet manufacturing company

The Challenge

The company required a tailor-made ERP solution that would help standardize and streamline their business processes across the organization and improve operational control through comprehensive financial and management reporting.

The main challenges faced

- Product Management with Size & Colour
- Sales order with area information, pricing based on area ordered
- Quotation & Order Management
- Job-work / Contract Service Providers stock handling with quality check.
- Export Documentation
- Bale-wise Packing List (Volume Calculation for Bales)

The Technology

- Window Client
 - VB, Crystal Reports
- Web Client
 - SQL Server & Oracle

Key benefits

Complete buyer order management system, Order-wise production summary gives information of quantity shipped and balance to ship. Order-wise Job work/contract services status and deliveries. Seamless management of inventory at our end, as well as at the contract service provider's end. Tabular reports for better and quick understanding of designs and area.