Bespoke Development Services

THINVENT TECHNOLOGIES PVT. LTD.

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About Us

Founded in 2007 by a group of technocrats.

Providing IT solutions to large enterprises by creating a unique set of proprietary technologies that enable service delivery.

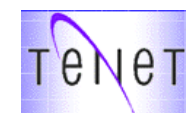Focusing on customer delight by delivering the highest quality products and solutions.

Dedicated team of well trained and experienced engineers for software development and testing.

Founding Team and their Background

Saurabh Jain, B. Tech. M. Tech. IIT Madras 2003

S B Sarin, B. Tech. M. Tech. IIT Madras 2003

Sadhna Jain, DoEACC B Level 2002

Our Customers

and many more…

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Our Development Team

First rate team consisting entirely of Computer Science and Electronics Engineering graduates.
Team has a breadth of experience in different domains and technologies.
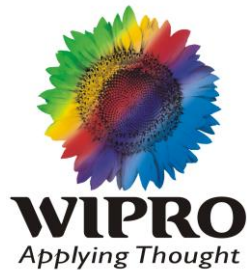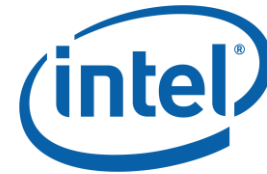Four members with Masters or higher qualifications.
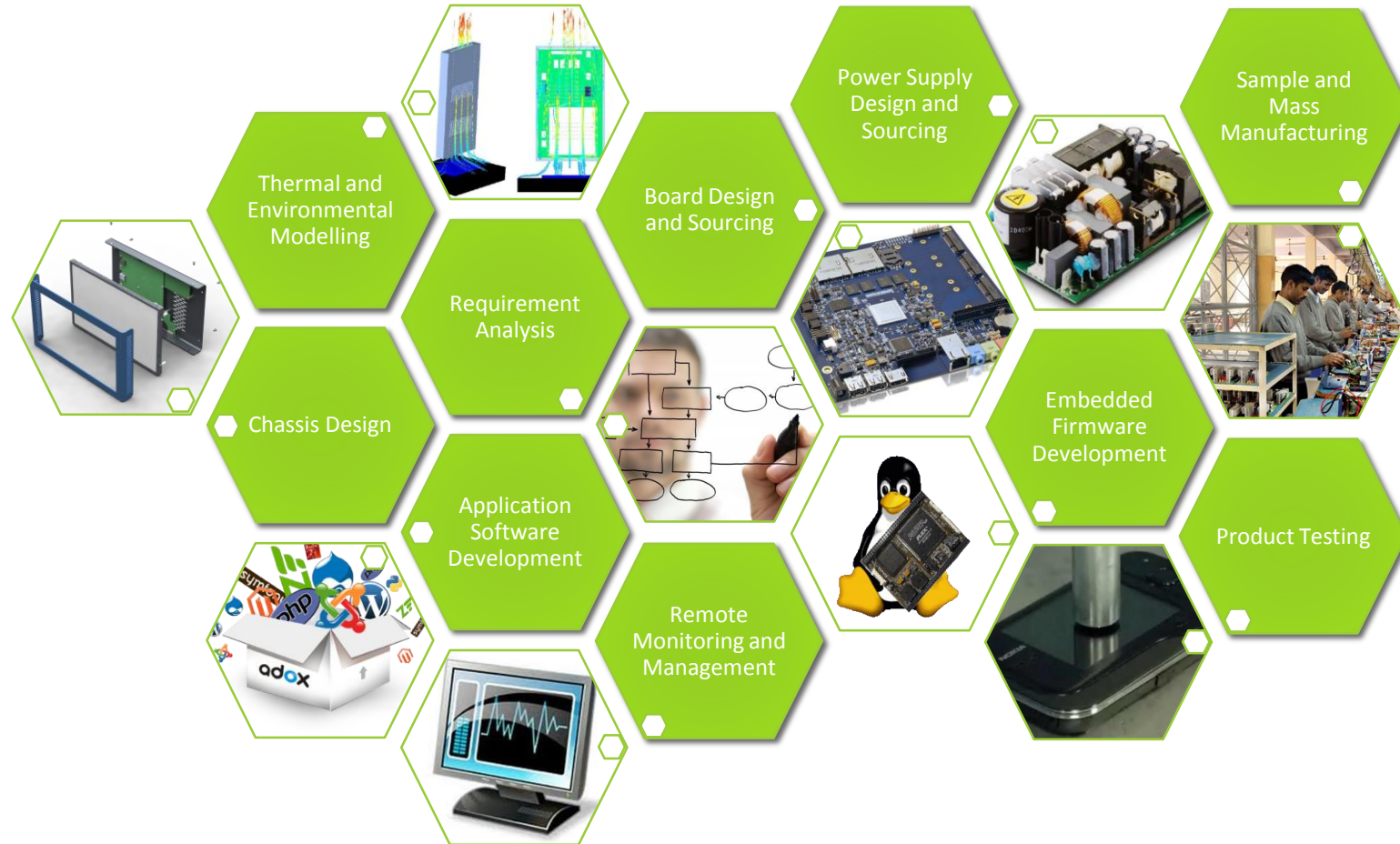
Our Partner Network

Technology Partners

Certifications and Awards

Services: Bespoke Product Development

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Product Development Services

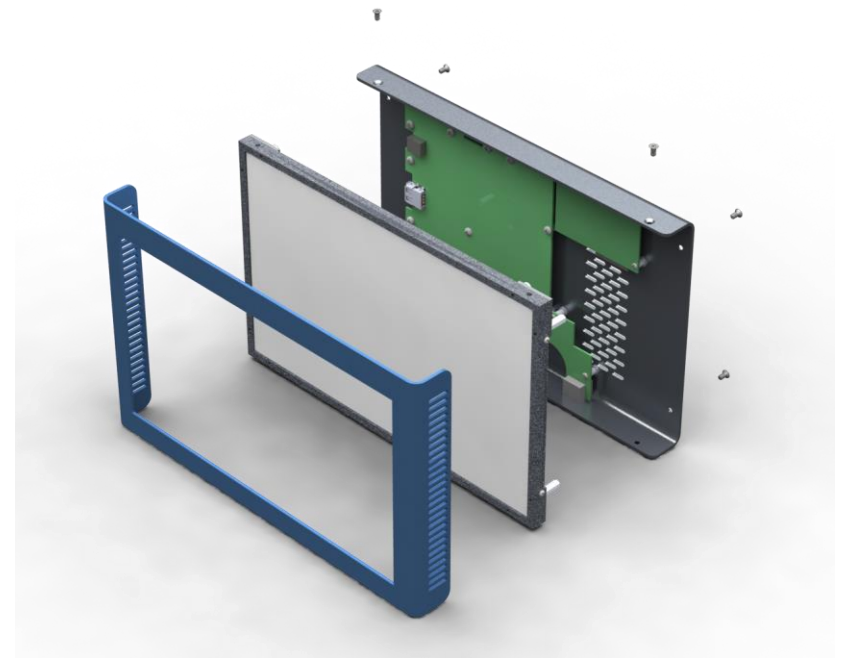All of Thinvent's products are developed in-house by its hardware and firmware team.

The same team is available to our customers for the development of their customised products.

We provide turnkey design services that include industrial design, electronics and firmware development. We will prototype your products, and test them for thermal, mechanical and environmental performance.

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Software Development Services

Analyse

Design

Implement

Test
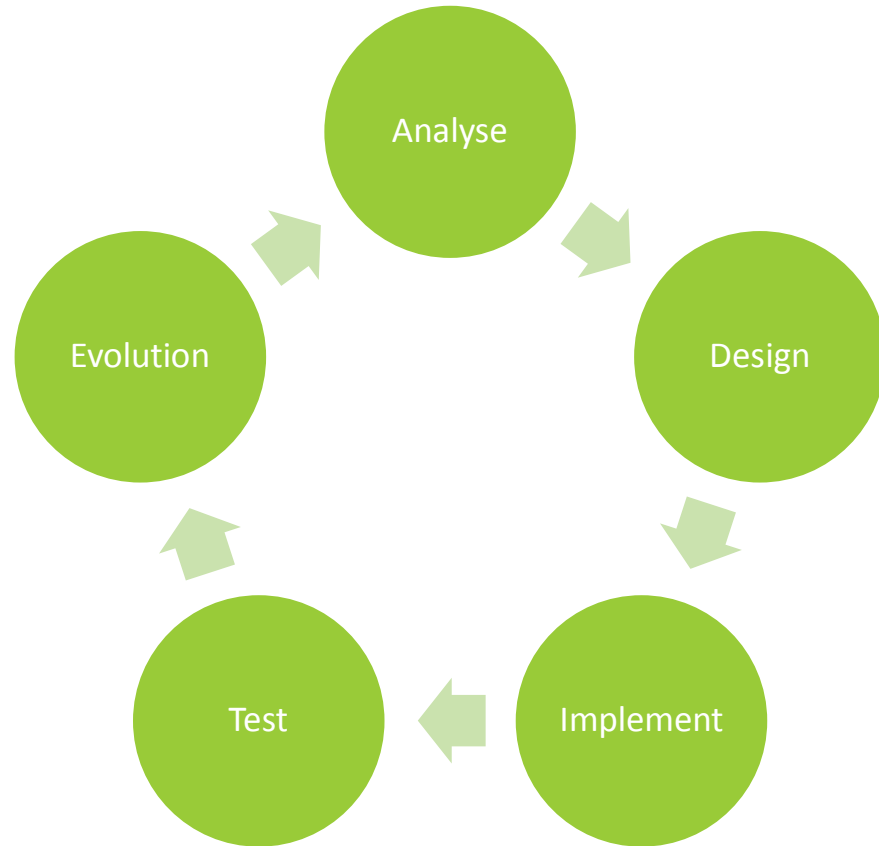
Evolution

Thinvent provides end-to-end Software Development Services.

Our expertise is in the development of web based software that automates business processes.

We have provided software solutions to a customer base as diverse as the Indian Railways, JK Tyre and ESQ Management Solutions.

Our software is in use by lakhs of users and enables thousands of transactions per second in some of the most mission critical applications such as ticketing and ATM operations.

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Technological Expertise

Java Programming Language

J2EE, Spring and Hibernate

Tomcat Web Server

Jetty Web Server

HTML5 and CSS3

Javascript

Python Programming Language

Django Framework

.NET and ASP.NET

Windows Embedded

Linux Operating System

MySQL Database

PHP Web Development

C and C++ Languages

Munin Monitoring

Nagios Monitoring

AWS Cloud Services

Hadoop and MapReduce

Case Study: Crew Management

Customer: Indian Railways.

Challenge: Development of centralised system for 24x7 management of 100,000+ drivers and guards.

Location: 500+ remote locations across India.

User Base: 2,000+ kiosks and desktops.

Salient Features:

Web based software built on J2EE stack.

Biometrics for attendance and login. Breath analyser for alcohol testing. Touchscreen interface for easy operation.

All HR activities such as attendance, training, certification, leave application, grievance, payslip generation are provided through the kiosk interface.

Complete crew management workflow of Indian Railways was studied and mapped. Easy to use interface was developed since Railways staff was not computer literate.

Touch Screen KIOSK

BIO-Metric

Alchol Breath Analysis Device

Case Study: ATM Remote Management
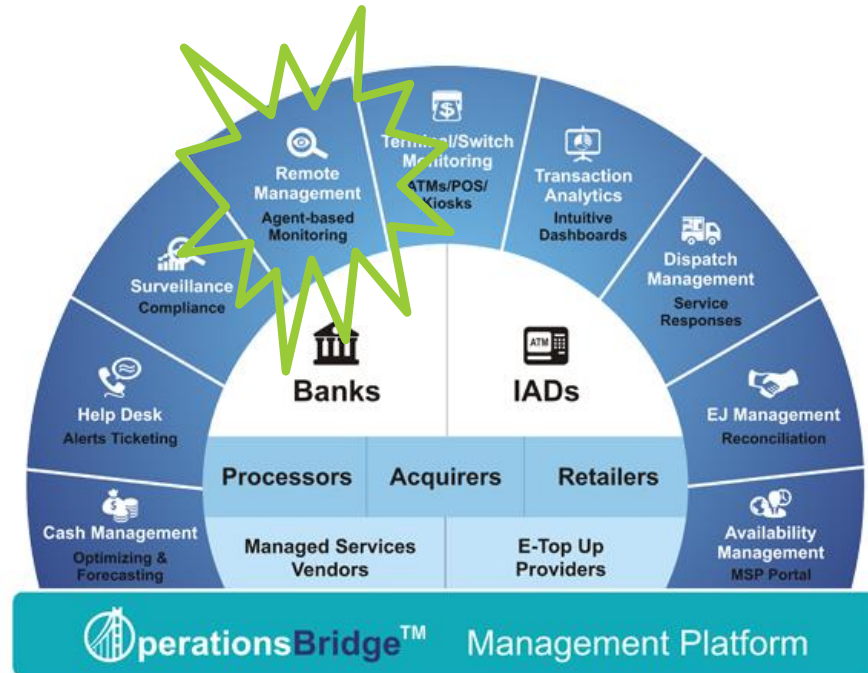
Customer: ESQ Management Solutions, Inc.

Requirement: Develop a centralised command and control agent for ATMs and POS terminals.

Challenges: Compatibility with a wide range of Operating Systems and technologies. Stringent security and reliability requirements.

Technologies Used: Java, Jetty, SOA.

Current Status: Product is successfully installed across lakhs of ATMs worldwide, and enabling secure and continuous operation.

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Case Study: Production Automation

Customer: JK Tyre

Requirement: Automatically track attendance and productivity on each workbench in the factory.

Challenges: Industrial environment with noise, vibration, pollutants and EMI. User base hostile to adoption of new technology.
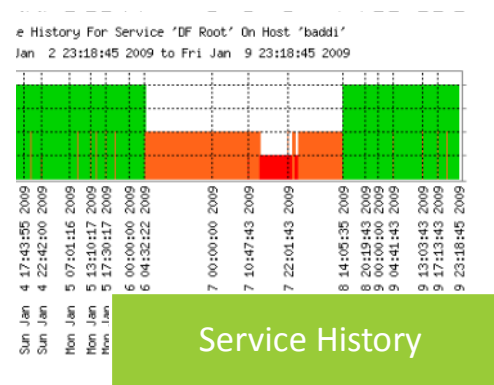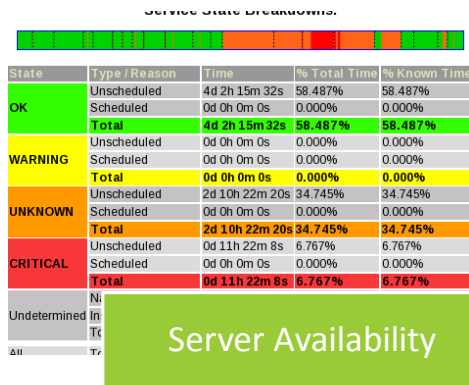
The Product: Operators login through touchscreen interface and track all their work through barcode scanning.

Results: Customer is successfully tracking all production activities. Connectivity to their SAP system has been implemented. Real time analytics is provided.

Technologies Used: HTML5, C, XML, Django, Linux.

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Case Study: Server Monitoring

Server Availability

Service History

Resource Utilisation

Network Topology Maps

Customer: Indian Railways.

Challenge: Provide Monitoring System for mission critical servers in the CRIS datacentre.
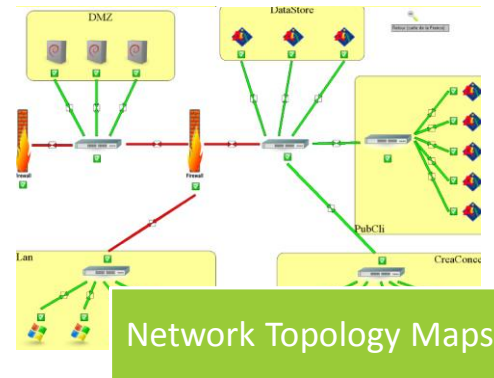
Complexity: Diverse range of servers – Windows Server, RedHat, WebSphere, IBM DB2, IBM AIX, Cisco switches.

Salient Features:

Web based software built on Linux + CGI-bin.

Continuous monitoring of all critical resources, with threshold and availability based alerting.

Alert despatch through email, SMS and web.

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Case Study: Dumb Terminal

Customer: Indian Railways

Problem: Develop a replacement for Railways' ageing fleet of dumb terminals.

- Built with latest technology: Available for next 10 years.
- Drop-in replacement: 100% compatible with existing legacy product.
- Reliable: Runs 24x7x365 handling the most mission critical application – train ticket sale.
- Stable: Handles peak load every morning during *tatkal* booking.
- Fast: Product prints tickets faster than any other terminal.

Successful: Thinvent has successfully developed the new product by leveraging its expertise in embedded systems. The system is performing very well and handling all kinds of Railways transactions with ease and reliability.

Other Software Development Projects

Unreserved Ticketing System for Indian Railways.

Automatic Ticket Vending Machine for Indian Railways.

Parcel Management System for Indian Railways.

VSAT and 3G VPN based ticketing for Indian Railways.

Centralised Training Kiosk for Maruti Udyog Ltd.

NGN Media Gateway development for Coral Telecom Ltd.

Soft Switch IP PBX development for Coral Telecom Ltd.

Linux porting to handheld platform for Aum Networks.

Digital Signage Solution for Laqshya Media.

Digital Signage Solution for Aum Networks for use in buses.

Digital Signage Solution for Crosspollen.

Web Applications

Enterprise Software

Embedded Software

Remote Monitoring and Management

Touch Interfaces

Cloud

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Total Solution: Kiosks

Enabling customers to get the right information, when they need it, where they need it.

Biometrics, bar code and smart card integration.

Cash and coin acceptors, dispensers and recyclers.

Customised kiosk development is Thinvent's forte.

Hardware and software integration with wide range of peripherals.

End to end solutions for:

Information and communication

Ticket Sales

Banking transactions

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Get in touch

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