



Thinksol At A Glance

Company Profile

Thinksol Overseas Pvt Ltd
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Introduction

The world's best inventions and solutions are the end product of great thinkers. It is a conscious effort towards the quintessential reasoning and assimilation of immaculate thoughts. From the age of Aristotle and Socrates to Einstein and Stephen Hawkins, all success stories are backed by superlative form of **innovation** and **thinking**.

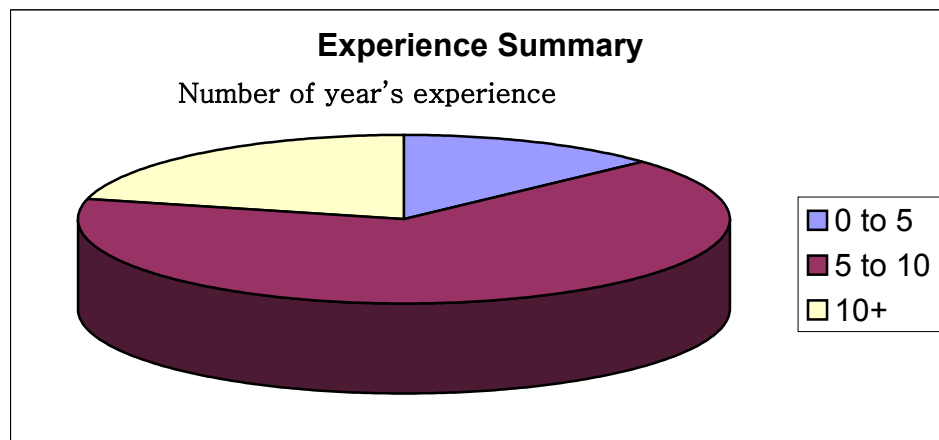
Thinksol Overseas Pvt. Ltd., a young and vibrant **Kolkata** based company in the field of IT, provides application-outsourcing services, enterprise-consulting solutions, consulting and IT services to organizations in government, business and industry globally - as partners to conceptualize and realize technology driven business transformation initiatives, Our methodology has helped organizations to achieve an international standard of technical excellence for less than half the cost of any outsourcing leader.

Our service offerings are varied, and encompass all most all the industrial verticals, like Steel, Coal, Finance, Banking, Insurance, Telecommunications, Transportation, Retail, Manufacturing (discrete and process), Pharmaceuticals, utilities, Logistics, Healthcare, Travel & Tourism, Entertainment et al. Our clientele includes small, medium to large companies, and our consulting engagements vary from a small projects of few man -months to huge about thousand of man-years in effort.

Organization & People.

Thinksol's senior management, form a core team of professionals with extensive experience in manufacturing, strategic consulting, telecommunications, networking and hardware. Having advanced qualifications ranging from MBAs to Doctoral degrees, they have held senior positions in universities and high-performing multinational corporations. The wealth of their experience coupled with vision imbibes in the others a sense of pride and spirit of dedication leading to a desire to excel themselves in their respective fields.

People



Infrastructure

Infrastructure: The backbone of innovation

Different elements of our infrastructure comprise:

- Development center in India
- Client connectivity infrastructure
- Information infrastructure
- Training infrastructure
- R & D infrastructure



Core Competency

Our goal is to deliver technology solutions offering value to client's enterprise. 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 manage your technology projects through the full life cycle, ensuring that they meet required service levels and provide headroom for future growth once they enter production.

To meet these goals, we offer full life cycle enterprise consulting services covering:

- Technical Architecture & Systems Consulting
- Application Development
- Application & Systems Migration & Re-engineering
- Web enabled development
- Customer Relationship Management (CRM)
- Enterprise Resource Planning (ERP)
- Data Warehousing
- Program Management
- Wireless



Enterprise Applications development team focuses on application specific architectures and technologies. This team combines traditional languages such as COBOL with newer technologies and application specific toolkits. The skills from our Enterprise Application team can be used or combined with skills from our other technology streams for the purpose of systems integration.

Thinksol can supplement client's IT resources, when needed, without maintaining an ongoing overhead. We're ready to be there when you face the changing business requirements that are, inevitably, ahead.

Offshore Software Development Centre (OSDC)

The purpose of OSDC is to provide efficient and feasible remote extensions to client's own IT team while maintaining the synergistic leverage to client's core competence with our highly specialized IT skills, and to ensure a smooth transition for complete application outsourcing (maintenance) to offshore dedicated, responsive teams.

Product companies and end clients keen on complete applications. OSDCs are meant for situations where large continuous and planned resources are primarily required for the success of the product.

ODC is client's software development team's virtual extension in India. It comprises:

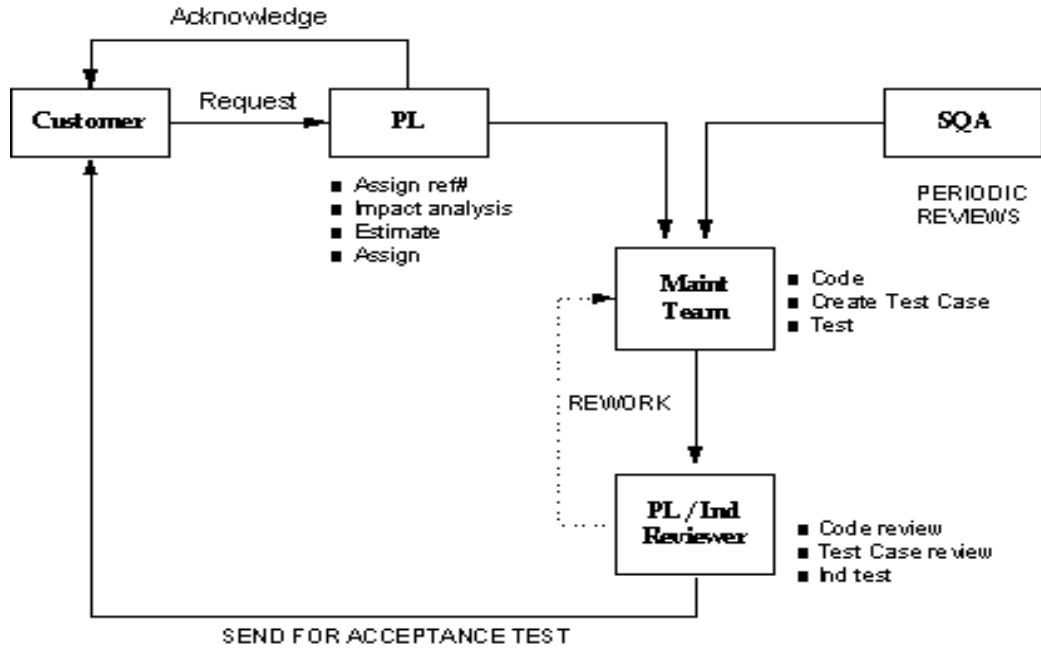
- Knowledgeable, experienced and dedicated team of developers.
- State-of-the-art infrastructure with all the latest facilities like hardware, software structured networking, centralized Air-conditioning etc.
- Round the clock service through a dedicated high-speed communication Internet links.
- IP protection mechanisms.
- Well defined, structured and strictly maintained, ISO certified offshore Software Development Methodologies.

OSDC primarily consists of two services;

- OSDS – Offshore Software Development Services
- OMS – Offshore Maintenance Center



Schematic Request flow



Quality Assurance

Quality Assurance

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 be to a high standard? There are three ways in which Thinksol addresses this concern.

1. Process Quality
2. Systems Engineer (staff) Quality
3. Product Warranty



Advantages

The Thinksol Advantages:

- You can concentrate on client's core expertise.
- Our OSDCs have innovation as their motto.
- Improved efficiency.
- Scalability of skilled resources in a short time frame.
- Our comprehensive repository of knowledge and skills at client's service.
- ISO 9001 systems and processes.
- Cost effectiveness.



Concerns:

1. **Knowledge Retention:** We have additional resources lined up to ensure that the knowledge transfer is continuous. All clients' key requirements are updated all the time. We have unique incentive plans linked to ownership and performance on the project. The team follows rigorous documentation standards for the entire duration of the project.
2. **Work Structure and Work Flow Management:** Project planning and contingency planning goes hand in hand. We are aware of the problems associated with long distance project management. We have experience in managing Onsite/Offshore teams. That is why we insist on proper and detailed communication and well thought out milestones.
3. **Ownership of Delivery:** We pride ourselves on our smooth delivery schedules. This is due to entirely our unique Single point of contacts (SPOC) for the client, to ensure complete responsibility for development and deliverables with project milestones.
4. **Configuration Management:** Our OSDCs work as a seamless extension of client's development unit. This requires close monitoring of common software, documents, and other items that client's firm and our offshore team may be simultaneously accessing/modifying. Our Quality Management System implements a formal method to address the complex configuration management issues that need solutions in any collaborative efforts spanning across many locations.

Thinksol provides complete software development lifecycle services, as well as care for systems after implementation. Our services encompass project management, software design, software development, quality assurance, documentation and support.

Case Study

A Live Case Study Report

Currently one of the major project TSL is working, is for a leading Shipping Container Line Management Company based in the USA. This project is the re-engineering of their multi-tier web based application. We are developing the internet version of that, a two-tier client server application developed in PowerBuilder with Oracle backend.

This project is meant for a leader in the North Atlantic Trade and one of the most respected names in the ocean transportation for last 30 years. This application provides their customer a complete and personalized service like managing customer profile, placing order, quote generation, invoice generation, dispatch, shipment control, managing security etc.

Underlying architectural and design decisions:

This application is a multi-tier Web enabled solution by partitioning the application cleanly into client, application logic, and data sections. In selecting the architecture, we took into consideration the need to deploy and reuse objects. Resulting system has enhanced flexibility, scalability, adaptability, reusability, security, and manageability.

The System has been designed in UML using Rational Rose 2000. The system leverages MVC based model, fully J2EE compliant solution comprising of Servlet, JSP, EJB and Java Bean deployed on application server communicating with backend database Oracle9i. The solution is running on Oracle9ias application server.

Technical Architecture

This is an n-tier J2EE web application designed with J2EE best design patterns. All requests are handled by single front-controller. Which in turn converts the event into application command and executes the command, if the request comes from a authenticated and authorized user then the command calls the SessionBean (implements the business logic) method to get the request processed and return the result to client if the process is successful, else notify the client about the error occurred.

As the application has been designed and developed using J2EE best design patterns and deployed with Oracle 9iApplication Server, it provide ACID (Atomicity, Consistency, Integrity and Durability) for all transactions and better performance. The MessageDrivenBean is used for time-consuming background operations e.g. mail services and logging services.

- Client Layer: HTML, JavaScript running on IE
- Presentation Layer: Front-Controller, JSP, Servlet.
- Business Layer: SessionBean, DataAccess Objects
- EIS Layer: Oracle 9iDB

**Current
process of
Interaction**

Thinksol follows the following steps to interact with client.

Weekly Tele-conference: Twice in a week we organize a tele-conference with our client and discuss the issues at length.

Web bases bug notification: TSL and his client a web based bug notification methodology so that every day what all we develop we forward the same to client via mail for their review. While reviewing if any bugs are found they put it in a secure web area which we can see and take the necessary action very next day.

Secured Net link : Through secured net link client can enter our server and review our code as well as progress. The same way for small bugs client allows us to enter their server through the same route for bug fixing.

Quarterly visit : Every quarter client visit us for the review of our progress and quality.

Modular Approach : We work on a modular approach basis. We take up one model first and finish it up before we move into next module.

Achievement

In spite of having a huge penalty clause on the delivery time line, for last three years span Thinksol has never paid a single \$ as penalty.

