CASE STUDY

LABORATORY INFORMATION SYSTEM (LIS)

THE CLIENT

Medical Laboratories have to provide timely and accurate test results to help save lives. A Laboratory Information System (LIS) that efficiently manages the entire gamut of operations and processes in a laboratory is fast becoming critical.

BUSINESS NEED

The client wanted a state-of-the-art Laboratory Information Systems (LIS) that would manage and automate all the operations in their laboratory.

TECHNOLOGY USED

- Microsoft .NET
- SQL Server
- Crystal Reports

BUSINESS BENEFITS

- Compliance with CLIA (Clinical Lab Improvement Amendments)
- Optimum and efficient use of staff resources
- Increased data accuracy through equipment interfaces, quality control tests and analysis
- Improved quality through reliable tests
- Decreased paper work and easy generation of reports
- Seamless Integration with Reference Labs and Other Clinical System by HL7

SOLUTION DELIVERED

ALTEN Calsoft Labs’ solution for the client is a comprehensive Laboratory Information System product useful for both hospital and independent clinical labs. The LIS helps the client manage all the processes in their Lab - from ordering a laboratory test to scheduling tests for patients at a future date, transmitting these orders directly to instruments interfacing with the solution, uploading and validating the results from these instruments, performing Quality controls for various instruments and generating reports for the Lab Technicians to view.

Additionally, the solution is seamlessly integrated with the client’s other systems such as Order Management, Patient Registration, and Billing, functioning as an integrated Hospital Information System.

Key features of the Laboratory Information System include:

- Compliance with CLIA (Clinical Lab Improvement Amendments)
- HL7 Interface to send tests to external Reference Labs and receive results
- Test ordering and results
- Duplicate Order Checking
- Delta Checks and Reflex checks
- Panic Reports
- Equipment interfaces using Dawning APIs and RS-232 for transmitting orders and receiving results
- Quality Control Tests for instruments and analysis using Levey-Jennings Chart, Multi Rule analysis (with Graphical display) based on Westgard standards
- Auto Fax and Print of results for Physicians/Facility
- Easy access to Master Patient Index

ABOUT ALTEN CALSOFT LABS

ALTEN Calsoft Labs is a next gen digital transformation, enterprise IT and product engineering services provider. The company enables clients innovate, integrate, and transform their business by leveraging disruptive technologies like mobility, big data, analytics, cloud, IoT and software-defined networking (SDN/NFV). ALTEN Calsoft Labs provides concept to market offerings for industry verticals like education, healthcare, networking & telecom, hi-tech, ISV and retail. Headquartered in Bangalore, India, the company has offices in US, Europe and Singapore. ALTEN Calsoft Labs is a part of ALTEN group, a leader in technology consulting and engineering services.

www.altencalsoftlabs.com
business@altencalsoftlabs.com