

PathXprt™

LAB INFORMATION MANAGEMENT SYSTEM

LABORATORY INFORMATION MANAGEMENT SYSTEM (LIMS, LMIS, LIS)

Need to manage test requests, sample collection, test tracking, workflow automation, result authorization, billing & payments, and comprehensive reporting — all from a single integrated LIMS platform.



ABOUT US

PathXprt is a modern, cloud-based Laboratory Information Management System (LIMS) built for diagnostic laboratories, hospital labs, clinics, and healthcare organizations. Designed to streamline every stage of laboratory operations, PathXprt combines sample management, billing, reporting, workflow automation, and patient communication into one powerful platform.

With a focus on accuracy, efficiency, and scalability, PathXprt helps laboratories reduce manual processes, improve turnaround times, and deliver better patient experiences. Our intelligent, secure, and user-friendly solution enables healthcare professionals to manage laboratory data seamlessly while maintaining the highest standards of quality and compliance.

ARCHITECTURE

PathXprt is a next-generation, cloud-based Laboratory Information Management System (LIMS) developed using Microsoft .NET Core technology to deliver a secure, scalable, and high-performance platform for modern diagnostic laboratories. The application leverages a robust multi-tier architecture with an industry-standard Microsoft SQL Server database, ensuring reliable data management, fast processing, and enterprise-grade security.

Designed for flexibility and accessibility, PathXprt provides a fully web-based environment that can be accessed securely from desktops, laptops, tablets, and mobile devices through standard web browsers. The platform centralizes laboratory operations, enabling seamless management of test requests, sample processing, billing, reporting, and patient communication from a single integrated system.

Its cloud-enabled architecture supports multi-location laboratories, hospital networks, franchise labs, and diagnostic chains by providing real-time data access, centralized monitoring, and secure information sharing across branches. Advanced integration capabilities allow PathXprt to connect with analyzers, hospital systems, payment gateways, WhatsApp communication channels, and third-party healthcare applications.



Built with scalability, reliability, and user experience in mind, PathXprt empowers laboratories to streamline workflows, improve operational efficiency, reduce turnaround times, and deliver exceptional patient care while maintaining the highest standards of data security and compliance.

OUR FUTURE

PATIENT REGISTRATION

Quick and efficient patient registration with history tracking, appointment management, test requisitions, automated billing, discounts, and report delivery preferences—all in a single streamlined workflow.

SAMPLE CONTROL

Efficiently manage sample collection, barcode generation, tracking, transportation, outsourcing, and TAT monitoring. PathXprt provides complete visibility into sample status, collection details, and workflow control for accurate and timely diagnostics.

SAMPLE TRANSPORTATION & RECEIVING

Track sample transportation across collection centers with complete dispatch, receipt, temperature, and batch monitoring. Barcode-based receiving and discrepancy management ensure accurate sample handling and seamless laboratory operations.

WORKLOAD LIST MANAGEMENT

PathXprt intelligently assigns tests to the appropriate workstations, enabling technicians to monitor sample status, processing progress, analyzer results, and reporting in real time. Multi-level verification and authentication ensure accuracy, efficiency, and paperless laboratory operations.

ANALYZER INTEGRATION

Seamlessly connect laboratory analyzers with real-time, bidirectional data exchange. PathXprt supports barcode-driven workflows, automated result capture, abnormal value alerts, and industry-standard protocols such as HL7 and ASTM for efficient and accurate analyzer integration.

RESULT REPORTING

Capture results manually or directly from analyzers with automated abnormal value alerts and role-based access control. Multi-level verification, audit trails, and TAT monitoring ensure accurate, secure, and compliant report generation.

ADVANCED RESULT REPORTING

Enhance reports with images, graphs, analyzer outputs, clinical comments, and supporting documents. PathXprt supports specialized reporting formats, repeat test management, image integration, and comprehensive patient history for accurate diagnostic reporting.

AUTOMATED REPORT DELIVERY

Automatically delivers authenticated reports via Email, SMS, and web access with secure release control and complete delivery tracking.

REPORTING MANAGEMENT

Monitor report status in real time with advanced filtering, authentication tracking, TAT monitoring, and audit controls. Access patient history, attachments, remarks, and test records to ensure efficient and informed reporting workflows.

RESULT DIAGNOSIS

Record and manage patient diagnoses using standardized coding systems such as ICD-10 and SNOMED CT. Generate diagnosis-based reports and gain valuable clinical insights for improved patient care and analysis

DELTA CHECK

Improve result accuracy and quality assurance with automated Delta Check validation. PathXprt compares current and historical patient results to identify significant variations, helping detect errors and ensure reliable diagnostic reporting.

REPORT PRINTING & DELIVERY

Generate customizable reports with flexible formats, patient history, and attachments. PathXprt supports secure report delivery via email, SMS, doctors, hospitals, courier, or direct handover, with complete delivery tracking and audit records.





SALIENT FEATURES

- TRACK SAMPLES THROUGHOUT THEIR LIFECYCLE FROM CLIENT SIDE AND WITHIN ORGANIZATION AT EACH STAGE.
- ESTIMATION OF ACCURATE TURNAROUND TIME STARTING FROM SAMPLE RECEIPT USING TOKEN SYSTEM AS IN HOSPITALS TO REPORTING OF RESULTS TO CLIENTS.
- AUTOMATIC SCHEDULING TO DIFFERENT EQUIPMENT QUEUES WITH PROVISION LIKE RE SCHEDULE AND RETEST OPTIONS. (SAME TEST MAY BE ASSIGNED TO MULTIPLE INSTRUMENTS AND MULTIPLE INSTRUMENTS WITH THE SAME TEST.)
- EXPECTED DATE AND TIME OF COMPLETION OF TESTING BASED ON SAMPLE FLOW AND ESTIMATED TIME FOR TESTING.
- EMAIL AND SMS COMMUNICATIONS WHEREVER NECESSARY.
- PUBLISHING RESULTS BASED ON PAYMENT.
- BARCODE PRINTING INTEGRATION
- PAYMENT GATEWAY INTEGRATION
- RESULTS REPORTING FULLY CONFIGURABLE – DESCRIPTIVE REPORT/VALUE BASED REPORT. IT IS POSSIBLE TO ATTACH MACHINE PRINTOUTS WHEREVER NECESSARY.
- CLIENT SIDE TWO DIFFERENT TYPE OF USERS - REGISTERED USER SEPARATE DASHBOARD AND ONE TIME CUSTOMER -SEPARATE DASHBOARD.
- SOFTWARE WORKS WITH THE HIERARCHY – ORGANISATION -> DEPARTMENT -> LAB
- IT IS A GENERIC MODEL, CONFIGURABLE BUSINESS LOGIC WITHOUT PROGRAMMING.
- IT IS A ROLE BASED APPLICATION. SEPARATE DASHBOARD FOR DIFFERENT TYPE OF ROLES
- INTEGRATION TO INSTRUMENTS, ENTERPRISE SOFTWARE APPLICATIONS AND MOBILE DEVICES. SOFTWARE FETCHES DATA FROM HETEROGENEOUS DATABASES USING XML MAPPINGS.
- HYBRID SOFTWARE – SEPARATE PORTAL FOR EXTERNAL STAKEHOLDERS AND LOCAL INTRANET APPLICATION FOR ORGANIZATION USERS.
- SOFTWARE IS ALSO AVAILABLE AS AN ANDROID MOBILE APPLICATION.

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