## Lifetrenz Healthcare Information Solutions

Solutions for Care Anywhere



Suite of World Class Information Management Solutions Comprehensive and Affordable



#### **Lifetrenz Vision**

Lifetrenz Healthcare Information Solutions are designed to be the best in class and meet current state of the art standards. Solutions to support clients achieve their goals by helping to deliver health care anywhere.

#### Lifetrenz Values

Lifetrenz believes in the values of Honesty that earns trust, Transparency in Transactions, a Commitment to deliver on our Promises and integrity in all our dealings. We grow by engaging ethically with all our stakeholders - our human capital, our customers and our partners..





## **Lifetrenz Solutions**

Lifetrenz integrated solutions provide data, information and knowledge management tools to support healthcare delivery. The State of the Art solutions empower healthcare providers and healthcare organizations to deliver quality care that's safer and achieves better outcomes. The solution designs incorporate the newest tested technical features developed to meet international standards in health information systems. The suite of Lifetrenz Solutions are modular in design. This allows Lifetrenz to serve clients of all size, with the entire suite or a selected set of applications. The standards based design supports interoperability across the modules and allows Lifetrenz to interface with other existing solutions in the organization. The suite of solutions comprises of independent modules integrated with a patient-centric focus. The solutions support the care team to deliver care anywhere. The Modules support

the care deliver in the outpatient settings, inpatient settings, remote care monitoring and telecare, including administration, operational support, care coordination, resource utilization and Revenue cycle management. Lifetrenz solutions are developed for deployment in the cloud or at dedicated data centers/ or on premise.

The Lifetrenz Technology Framework is designed as an extensible Technology stack. The architectural design incorporates features to support growth, scalability and security, with an emphasis on ease in set-up to reduce go-live requirements. The solution is truly a blend best of functionality with User-friendliness to support adoption and usability. Lifetrenz team starts with provision of training the client organization end-users, designing with the client team workflows as required to ensure productivity is not lost and supports the client organization end-users to adopt upgrades and modifications as needed.

Lifetrenz solutions are available as a complete turn-key solution that makes it possible to capture, store and retrieve patient clinical data using EHR standards. The solutions help healthcare organisations manage operations, revenue cycle and Business Intelligence and Analytics, to support the individual patient and population health management.

The current client base includes Polyclinics, Physician Offices and Hospitals. A health system with more than 14 sites across a nationwide geographic spread has a single instance of the shared database. This allows a patient to access any site of care with technology supporting the continuity of care. Lifetrenz community of end-users are supported and encouraged to adopt the Best Known Practices through the built-in workflows in the system. Any professional person or organization in Healthcare wishing to streamline their practice and align their work at the level of International standards and best practices will find that Lifetrenz makes this journey painless.



### **Lifetrenz Value Propositions**

Lifetrenz provides compelling reasons to choose its products based on the strong credentials of its Professional Team, their technical expertise, the Technology Framework and the realtime customer support system we provide. The patient-centric focus has driven us to build EHR Standards-compliant clinical documentation solutions, to meet the primary reason for a person seeking healthcare services. We have then added the support modules to complement the functions of information management in the delivery of care. There are also other unique differentiators in our products when compared to other products available in the market today, such as:

#### Lifetrenz - The Total Package

The solutions offered are a complete package covering clinical data management needs and operational support to deliver coordinated care. Our Solutions are designed to demand minimal data entry by the clinical staff. We strive to meet the need for IT enabled delivery of clinical care, with the aim of improving the quality and safety of patient care. This is the value proposition that makes Lifetrenz the choice, as many of the current solutions in the market are not amenable to creating an end-to-end, well integrated, enterprise- wide solution. Lifetrenz products are built keeping the patient at the center, whilst catering for all the clinical requirements, Administrative, Operations and Finance workflows. The Revenue Cycle Management remains as critical a module as the Electronic Health Record (EHR).

#### Lifetrenz Built on Standards

The Lifetrenz Solutions are designed and structured to incorporate appropriate standards recommended by the World Health Organization and adopted standards mandated by National governing bodies. In contrast, many vendor offerings in the Health Information Technology market do not adhere to any standards. However, this is changing very fast with Governments across the world moving towards the adoption of EHR standards. It will soon be a necessity for all Healthcare providers to adopt these standards in their practice to ensure transparency, interoperability, and delivery of safer healthcare..



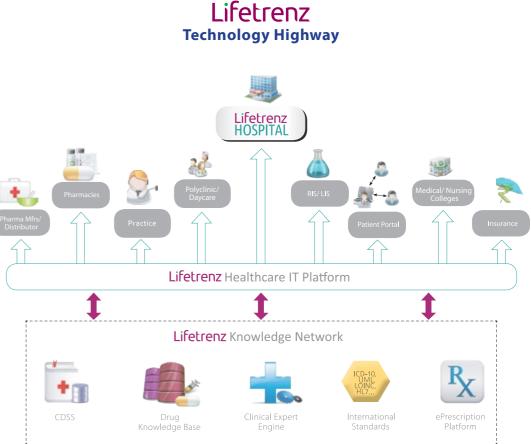
Lifetrenz solutions today fully comply with International and National EHR and Healthcare IT standards. In adopting our products Healthcare Organisations can ensure that their investments are future- proofed.

#### Lifetrenz Technology Platform

Lifetrenz solutions are built on State of the Art Technology platform as a stack. It was optimized for the CLOUD, as a hosted private or shared instance, to optimize the investment value. Lifetrenz architecture is ready for the emerging needs as the market is expected to become more oriented towards standards- based, mobile enabled and fully integrated solutions developed on Cloud technology platforms. They can be delivered either from our Cloud Platform or as an On-Premise solution, based on the individual choice our clients make.

#### Lifetrenz Support

Lifetrenz recognizes the importance of providing the highest level of service support to its users post-implementation. Lifetrenz has designed and deployed a unique, solution, where-in users can raise customer support requests on-line, during the usage of the application for a quick resolution of their issues. The request raising and resolution is addressed through customer support tickets with appropriate levels of escalation for unresolved



support requests. The uniqueness of this process is that, the users can rest easy knowing fully well that the professional support for disruption-free operation of their facility is available whenever needed. Due to this robust solution, customers can say "Good Bye" to waiting for customer support to arrive on-site and resolve the issues. This "Then and There" approach of Lifetrenz has been highly appreciated by our network of Customers.



## Lifetrenz HIS, EHR & ERP Features

## IIS Modules

o Patient Registration o Appointment Management o Billing o Charge Masters

- o Healthcare Packages
- o Professional Fees Management
- o IP ADT
- o Bed Administration
- o Corporate/ Organisations Management
- o Insurance Management
- o Indents Management
- o Medical Equipment Services Management
- o Lab Information System
- o Radiology Information System
- o Nursing Information System
- o Blood Bank Management
- o Ward Information System
- o Pharma Information System
- o IP Formulary Management
- o Diet & Nutrition Services
- o Medical Records Module
- o CSSD Management
- o Laundry & Linen Management o Housekeeping Management o Help Desk

## EHR Modules

- o Standards Compliant Electronic Health Records (EHR)
  o Clinical Workflow Management
  o Clinical Decision Support System (CDSS)
  o Clinical Care Pathways
  o Order Set Management
  o Drug Database & Information Frame Work
  o Computerised Provider Order Entry (CPOE)
- o e-Prescription Platform
- o Electronic Medication Administration (eMAR)
- o ER & Daycare Module
- o OT Management
- o Anesthesia Management

## ERP Modules

o Financial Management System o Accounts Receivable o Accounts Payable o Purchase Management o Stores & Inventory Management o Fixed Asset Management System o Human Resources Management o Pay Roll Management o Performance Management System

## BI & Analytics

o Top Management Dashboards o Financial Dashboards o Operations Dashboards o Clinical Dashboards o Analytics & Consulting

## Remote Healthcare

o Chat & Video Consulting o Remote Monitoring Solution o Home care

## Integration Capability

- o Laboratory & Medical Equipment o Bar Codes & RFID o Biometrics
- o PACS
- o SMS Gateway
- o Credit / Debit Card Swipe Machines
- o Payment Gateways
- o Third Party Solutions

## Patient Interfaces

o Patient Portal o Patient Mobile Apps Lifetrenz Hospital, the complete patient centric end-to-end solution for Hospital Management that surpasses the expectations of all the important Stakeholders of a Healthcare Organization.

#### **Decision Makers:**

The solution is designed taking into account the perspectives of the top management for efficient functioning of healthcare organizations with emphasis on all-round growth.

#### Finance Management:

The solution captures all the financial processes and ensures financial integrity whilst providing analytical support and is business intelligence with an eye on the Key Financial Performance Indicators, for improving top and bottom lines of the Hospital.

#### Operations Staff:

The system is designed to integrate the mission critical functions of Operations' staff with all other functions in the Hospital, through efficient monitoring and timely interventions, for optimal functioning of Healthcare organizations.

## Ancillary Staff:

Lifetrenz has complete modules for Ancillary Staff supporting care delivery, such as the Pharmacy, Lab, Radiology, Physiotherapy, CSSD Staff & Technicians, to enable them to go fully digital in their work, reducing the effort to carry out their functions and improving efficiency.

#### **Nursing Staff:**

The Nursing workflows and processes are designed to intuitively and intelligently aid the nursing staff in providing effective support in delivering efficient and quality care to the patients whilst avoiding errors. Minimal data entry ensures maximum time spent on patient care.

#### **Doctors:**

The Doctor's applications are built keeping the Patient at the Center with emphasis on timely and efficient clinical processes and workflows for delivering Quality Patient care – Anywhere, Anytime. The system intelligently learns and adapts to a Doctor's practice, thus ensuring easy adoption with no loss of productivity.

#### **Quality Team:**

Lifetrenz ensures realtime Quality in care, apart from reducing manual documentation requirements, thereby reducing number of manhours required for Quality certification process.



Lifetrenz HIS Hospital Information System





Lifetrenz Hospital is a patient centric & standards compliant Hospital Management System, that is highly configurable to provide automated, end to end, streamlined integration of various processes in your hospital like:

#### Lifetrenz Hospital's Outpatient Management

**System** is an integrated solution that covers various processes from Patient Registration, Appointment Management, Billing, Physician Consultation, e-Prescription for medications, Laboratory investigations, Radiology Tests and other OP services and their billing and patient check-out. Incase a patient needs to be admitted either to the Hospital's Day care services or as an In-Patient, these are also handled electronically by the OP Management System. These processes can be fully electronic and customizable depending on the workflows of each healthcare facility. The Outpatient Management System automatically creates the Patient's Electronic Health Record (EHR), as per International and Indian EHR standards and maintains the patient medical record digitally for storage and retrieval for future use.

#### Lifetrenz Hospital In-Patient (IP) module

is highly configurable and automates all the processes related to In-Patient services in your hospital, from Admission to Follow up to Discharge. It has Admission Discharge Transfer (ADT), Inpatient Electronic Health Record (EHR) and Hospital billing functionalities incorporated within it. It dynamically ensures that the patient's clinical and billing activities are reliably and accurately carried out. The system has a provision to admit patients directly from out-patient or the emergency department of a hospital, with all the accompanying admission orders flowing in along with the patient's EHR. Lifetrenz Hospital In-Patient is well integrated with modules such as Operation Theatre, Laboratory, Radiology and other allied services which are associated with patient care in a healthcare organization.

- Lifetrenz Hospital Management Solution has a comprehensive module that can handle the Emergency Room (ER) and Day Care functionalities. The Emergency Room being a fast moving, dynamic, transient and high turnover clinical environment needs Quick registration, Triage and Tracking of patients, Speedy and easy input of data and orders, High usage of protocols, provision to handle Medico Legal Cases (MLCs) and Continuum of care, if patient is admitted to IP. The Lifetrenz ER & Day Care Management process is designed to register and handle patients guickly with nil or minimal personal information, yet ensure that no data of any patient is mixed up or lost. This becomes extremely important in an ER to ensure that care is delivered without any delay. All Medico Legal Cases are handled separately and the system ensures that all mandatory data are captured. The user friendly and easy to use, comprehensive patient track board from which all delivery of care can be completely handled is mainly icon driven and touch screen enabled, with minimal need to keyboard in information.
- The Lifetrenz Hospital Management Operations module covers all the important functions of the Hospital Administration such as - Stores and Inventory management, Healthcare Packages design and deployment, Corporate and Contractual accounts management, Insurance Management, Professional fee management etc. The Operations Management Module also sets up the Charge Masters, based on which all the billing is performed in the Hospital Management System. This module also handles Capabilities management to differentiate between the external and internal capabilities for service provision within

the Hospital. Based on the diverse range of activities performed by the Operations Module, it is evident that, this function must be very flexible and easy-to-use, learn and adopt by the users. Lifetrenz Hospital Management's Operations module is built with "flexibility and ease of use" as the core of our design philosophyand has various reports for the Operations Team that will enable them to analyse & improve operational efficiency and also contribute to the business of the Hospital. Lifetrenz Hospital Management System captures clinical data compliant to International EHR standards, which helps in providing Clinical Reports with detailed trends & analysis. Such detailed clinical reports and analysis helps the Hospital to monitor the quality of care being delivered.

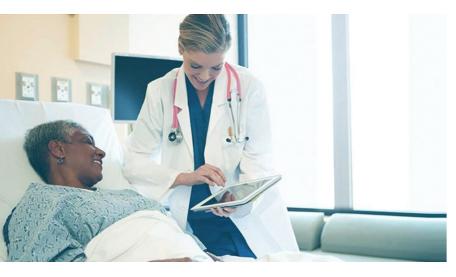
- Financial Management module covers the important processes of Billing and Accounts Receivables management. Due to the Patient-Centric Business Process Workflows all Processes are linked to the services rendered to the patient, right from the time the patient checks in to the hospital to avail any service to the time they check out of the hospital. This end-to-end process oriented design captures all the billable activities for each patient. The Billing process in the Finance Module takes its inputs from the various processes in the Operations and Clinical modules and generates accurate and reliable bills. There is a patient level ledger that is maintained for each patient and the ledger is updated in real time based on the various financial transactions captured for the patient in the system. The ledger can be exported to Excel and pdf formats. While the billing module generates and dynamically updates the patient ledger and shows the Credit or Debit balance against the Patient, the Accounts Receivables Module provides a One-Stop information source to see all the receivables from different payers, at any point of time.
- MIS & Reports module built into the Solution captures all the necessary data required for creating reliable Operational, Financial and Clinical Reports. Lifetrenz Hospital Management's Financial MIS & Reports module offers accurate and timely reports that are needed by the Finance Department to analyze and improve the Financial Efficiency of the Hospital.





## Lifetrenz EHR Electronic Health Record

Clinical Care Pathways, to ensure Quality of Healthcare Delivery
 Compliant to Standards like ICD-10, SNOMED-CT, LOINC, UMLS, RxNorm,
 NIC, NOC, NANDA, DICOM, CCD / CCDA, HL 7 etc
 Integrated HIS with EHR, no service ever goes un-billed
 CDSS to reduce/avoid Clinical Errors & Medico Legal Cases



- The Electronic Health Record (EHR) is a longitudinal electronic record of patient health information generated by one or more encounters in any care delivery setting.
- The Lifetrenz (EHR) is an advanced and comprehensive EHR that forms the fulcrum for automation of your clinical workflows.
- Being patient-centric in design, it integrates your financial, clinical, inventory and operation processes in your clinical setting to bring about efficiencies with reduction of redundancies such as duplication of tests. At the same time no necessary steps such as billing for a service are missed out.

- It's powerful Clinical Decision Support System (CDSS) powered by Lifetrenz's extensive drug information framework and knowledgebase, results in avoidance of clinical errors, enhancing patient safety and clinical assistance at the appropriate points of clinical decision making.
- Being compliant to International EHR standards, healthcare data can be imported from or exported to other standards compliant healthcare systems thus making it interoperable.
- Being integrated with an HIS system it provides all the functionalities for complete Outpatient and Inpatient cycles, while simultaneously being intuitive and easy to use.
- The Lifetrenz EHR solution can either be deployed on top of any standards compliant third party Hospital Information System (HIS) or along with Lifetrenz HIS as a single solution.
- Lifetrenz EHR solutions are available for Healthcare Organisations of all sizes from single facility to networks of facilities.

## Lifetrenz EHR Advantages



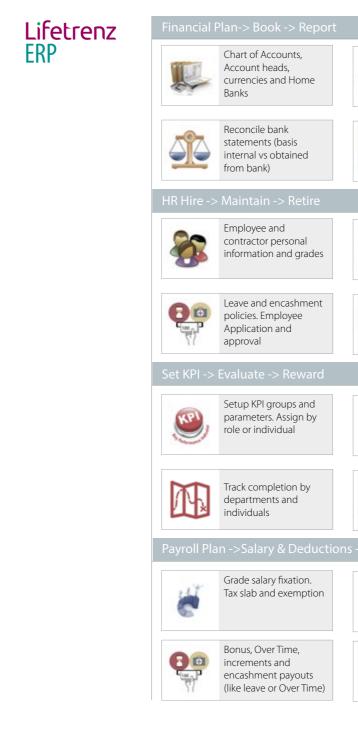
Accelerate Healthcare Delivery
Automate the End-to-End Management
Reduce Clinical Errors
Reduce Cost of Healthcare Delivery
e-Prescriptions to avoid errors
Patient centric Workflows
CDSS to reduce/avoid Clinical Errors
Patient Lifecycle management
Simplify the Coordination of Care
Eliminate the Constraints of Place

TAHM

- ▶ Framework to switch from Paper-based to Digital Hospital
- ▶ Integrated HIS with EHR, no service ever goes unbilled
- ▶ Clinical Care Pathways, to ensure Quality of healthcare Delivery
- ▶ Inter-operable & standards compliant Patient Health Records
- Dashboards for Financial, Operational & Clinical Efficiency
- ▶ High Functionality & High adoption by clinicians
- ▶ Low Total Cost of Ownership (TCO)
- ▶ Highly stable, secure and scalable
- Constantly evolving cutting edge technology
- ▶ Ideally suited to leverage the cloud delivered Software









Budgets, Financial year and period open/close



Book invoices (general or purchase) and expenses. Register advances and payments

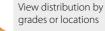


View outstanding and analyze by age. Review payment proposals (e.g. for vendor payments)



**Report Balance Sheet** and P&L statements







Reward employees for performance



Employee tax declarations and filings



Consolidated payroll runs or regeneration of runs



Reimbursement claims and loan deductions



Tax reports and employee self service to view earnings and deductions





## Modules



Lifetrenz has joined hands with TAHPI, the developer and manager of popular international web-based software platform known as the HFBS, the essential tool kit for specialist Health Planners, Healthcare Designers, Project Managers and Operators.

HFBS is a powerful web based platform for detailed Project Planning, Briefing, Design, Asset Management and Auditing for healthcare facilities. Registered users can log onto the HFBS website, access comprehensive International standards for Health Design and obtain ready-made, editable "Standard Components" including briefs, room data sheets and layout sheets.

These are even customized for use in particular regions of the world such as the Middle East and India. The HFBS technology benefits Health Authorities, Designers, **Owners, Operators, Builders, Equipment** Planners and Maintenance Managers.

HFBS is a worldwide system customized for use in each Domain, being a Country, State or Region. It is available for private as well as public health projects and assets. Furthermore, the mapping module of the HFBS tracks all Healthcare properties visually over a map of the world with direct links to each facilities data.

HFBS has thousands of trained users, projects and healthcare properties. It is offered on annual subscription basis, registered users receive training via web+ free telephone + email support. More information, instructions and online training can be found at:

www.healthdesign.com.au/infohub

#### **Health Service Planning Modules**

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HFBS

Demand Module uses customized reference files and population catchments to project health service demand in domains around the world

Supply Capture Module contains features intended for Health Authorities to capture all information on healthcare facilities in their jurisdiction.

Supply Planning Module maps the
health service gaps to geographic
catchments and provides powerful tools
to plan for the future supply to bridge
the gaps.

Assets Mapping Module takes its detailed information from the Supply Capture Module and displays the information on a catchment map.

Briefing Module rapidly creates detailed project briefs using the Health Facility Guidelines as the base. All operations are based on intuitive drag and drop.

Auto-specs Module takes the Briefing Module contents and expands into detailed specification for FF&E including all Medical and Non-medical equipment.

Printing Module is integrated into all relevant modules. It utilizes over 40 templates to generate a variety of reports for immediate use by the project team.

#### **HFBS Mobile Modules**



Defects Management Module captures and manages the project defects and deviations from the brief, generate reports and tracks history.

#### **HFBS Facility Planning Modules**

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Purchasing Module manages the scheduling, pricing and ordering of FF&E including Medical and Non-Medical equipment synchronized with Briefing.

Product Module provides the tools to catalog healthcare related products which can be then used in briefing, FF&E schedulina or interior desian.

Budgeting Module provides the earliest project budget cost based on briefing information captured by the Briefing Module.

Recurrent Cost and HR module determines the HR requirements as well as Goods and Services (G&S). These are used to calculate the Recurrent Cost.

Document Management Module is a powerful and yet intuitive web-based document management system for all project designers and stakeholders.

HFBS for Revit Module brings the functions of HFBS briefing into Revit and provides two-way synchronization between Briefing and Design data.

Door Schedule Module is a template based tool for the rapid scheduling of all standard and specialized door types in a healthcare facility.

#### Standards and Guidelines for Design

HFBS is the host of International Health Facility Guidelines (iHFG) for many iHFG countries. These are available as Apps for IOS and Android devices.

> HFBS Revit Family Market is an online marketplace containing a collection of over 1700 FF & FE items in full 3D and compatible with iHFG



#### Lifetrenz Team

The Lifetrenz team includes interdisciplinary Healthcare Domain Software Experts. Their experience in clinical care and health service management is supplemented by smart software technologists well versed in emerging technologies. Together they have operational experience at all levels of care delivery, in use of Information systems and in systems development. The Lifetrenz team will be your partner to support adoption. The team will work with your clinical and other team members improved client experience on Go-Live.

# Lifetrenz

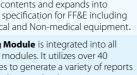
#### Lifetrenz Suite of Products for Healthcare Organisations:

Lifetrenz Hospital - The Next Generation Hospital Information System (HIS) with different editions to meet the requirements of Small, Medium and Large Hospitals. Lifetrenz EHR - A World-Class EHR product, designed and developed based on International & WHO EHR Standards. This product is designed on the philosophy of Patient-centricity and can enable all Hospital functions like Administration, Operations, Finance and Clinical Functions "Go Paperless" in a seamless, integrated fashion delivering desired outcomes across the Healthcare Enterprise

Lifetrenz ERP - A comprehensive ERP designed and developed for Healthcare organisations that help them manage all their back-office operations such as Financial Management, Inventory Management, Purchase Management, Fixed Assets Management, HR Management & Pay Roll. Lifetrenz Homekare - Remote Monitoring & Home Care System that truly helps deliver Care Anywhere. A patient's parameters such as Vitals and ECG can be monitored remotely and corrective actions facilitated.

Lifetrenz PolyClinic - This solution has been designed taking into account the requirements of Multi-specialty Polyclinics to enhance their efficiency and effectiveness of operations.

Lifetrenz Consultz – A Practice Management Solution & Standards compliant EHR with an e-prescription platform, that can fully automate Primary Care Physician Offices.



#### State of the art, Healthcare Information Solutions from dWise Healthcare IT Solutions for delivery of Care Anywhere

Lifetrenz LIS - This solutions is ideally suited for Diagnostic Centers and Diagnostic Laboratories - whether they are standalone entities or interconnected

Lifetrenz RIS – Lifetrenz standards compliant Radiology Information System that can interconnect with any standards compliant PACS.

Lifetrenz Pharmacy – A complete Pharmacy Management Solution built on a strong foundation of Drug Database that can help automate both single pharmacy or a chain of pharmacies.

Lifetrenz CDSS – A Clinical Decision Support System, built on Drug Information Framework compliant to international standards that can screens for drug-drug, drug-allergy, drugdisease, duplicate therapy, dose-range, drugfood, pregnancy/lactation, geriatric, paediatric precautions, renal & hepatic dosage adjustments etc.

Lifetrenz Patient Mobile App – A mobile Application available both on Android & iOS platforms, through which Patients can interact with their Lifetrenz EHR Platform. The mobile Application also offers a number of value added services such as Appointment Management, Patient Education, Medication Management, Monitoring of Home Vitals, a unified Health calendar etc

Lifetrenz Patient Portal – A web based Portal with all of the functionalities of the Patient Mobile App and much more. The portal can be customised and integrated with any Healthcare Organisation's website.



	Hospital Information System (HIS)	Electronic Health Records (EHR)
5	Healthcare ERP	Remote Monitoring & Home Care System
0	Poly Clinic Solution	Primary Care EHR Platform
	Lab Information System (LIS)	Diagnostic Center Solution
6	Radiology Information System	Pharmacy Information System (PIS)
1 Ref	Drug Database & Drug Knowledge Framework	Clinical Decision Support System (CDSS)
1949	Patient Portal	Patient Mobile App
	BI & Analytics	Consulting Services





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