



A White Paper On Dhii-CHiMS

***Intelligent Product for Innovative Needs of
Hospital***

Healthcare, a growing industry

Healthcare is one of the world's most knowledge intensive industries. It is also one of the most used service industries by an individual in his lifetime. Yet the practitioners on its front lines and the people are cut off from the network connectivity tools that could deliver information to those who need it. Few attempts have been made to codify systematically physicians' experience in treating patients so that the resulting knowledge could be more efficiently shared among colleagues. Few attempts have been made to educate the patients and the members to understand the complexity and evaluate the alternatives.

Few attempts have been made for the providers to access, deliver and operate on this information.

About Dhii-CHiMS V1R1

Dhii possesses a world-class product in **CHiMS-Online Healthcare Information Management System**. Dhii-CHiMS V1R1 is a high performance user-friendly system based on n-tier architecture. It caters to the healthcare industry and is designed keeping in mind the needs of large to medium sized hospitals and super specialty clinics. Using an integrated development tool and the competence of domain experts, Dhii-CHiMS V1R1 has been created as the next generation information management system for today's healthcare needs.

An easy to use document imaging, archival/retrieval module helps in keeping the records of the patient for historical and diagnostic purposes. Creation of database with wide variety of input documents like scanned images, multi windowing capability for access of information with formatted screen, print outputs forms an integral of Dhii-CHiMS V1R1 software.

The system provides for both operational and strategic reporting features and links the database to the graphical layout. It also takes care of creation of information reference base and provides connectivity to different medical databases. The built-in routing functions keep the data accessible to relevant personnel for reference. A mailing system provides information about data and its status at user-level.

Comprehensive in nature, Dhii-CHiMS V1R1 covers every major area of operation in the healthcare provider space, from front office functions like patient registration/admission to back-office functions like billing, accounting, stock and inventory. The system covers areas like patient management, diagnostics, disease diagnosis, database referencing and personnel database.

System Features

User friendly - Recognizing the importance of user-friendliness, **Dhii-CHiMS V1R1** is based on simple and intelligible screens for the unassuming non-technical user. The system uses icons to represent functions which are easy to understand and are universal.

Flexible and parameterized - Flexibility is the key strength of the system. It allows for user-defined and easily modifiable screens and reports. Being parameter-driven, the software is easily tunable to individual taste and needs.

Modular and integrated - Modular and functional approach of the system helps in enhancing it for the various requirements of different level of clients.

Data integrity - Security of data and access to data, a key issue in any on-line system, is controlled in Dhii-CHiMS V1R1 at system, operational and functional levels. Access rights are completely administrator definable and ensure secrecy and security to both system and data.

Data consistency - Robust data management guarantees information consistency. Native client data management ensures protection to investment in case of upgrades.

Visually rich fronted - Dhii-CHiMS V1R1 is based extensively on graphics and graphical user interface.

Driven by business rule - The software allows the user to enter business rules regarding patient billing, service costing and banking/insurance details into the database and ensures consistent implementation. The system allows for exception billing as well.

Database – Database Independent

Dual currency system – Daily exchange rates are fed into the system for easy conversions.

Unique medial record number – During registration patient is allotted a unique medical record number which lasts as long as the hospital maintains its records.

Architecture & Hardware Platform

Technology Platform – Built on latest Microsoft Dot Net technology - Web based Hospital Information Management solution.

Scalable – The system can easily be scaled to meet present and future needs. Simply add more middle tier servers as the number of clients increases

Highly Available and Redundant – At the middle tier level, there can be more machines than necessary to perform the daily operation of the hospital. If one machine fails, the others can take over the workload of the failed unit.

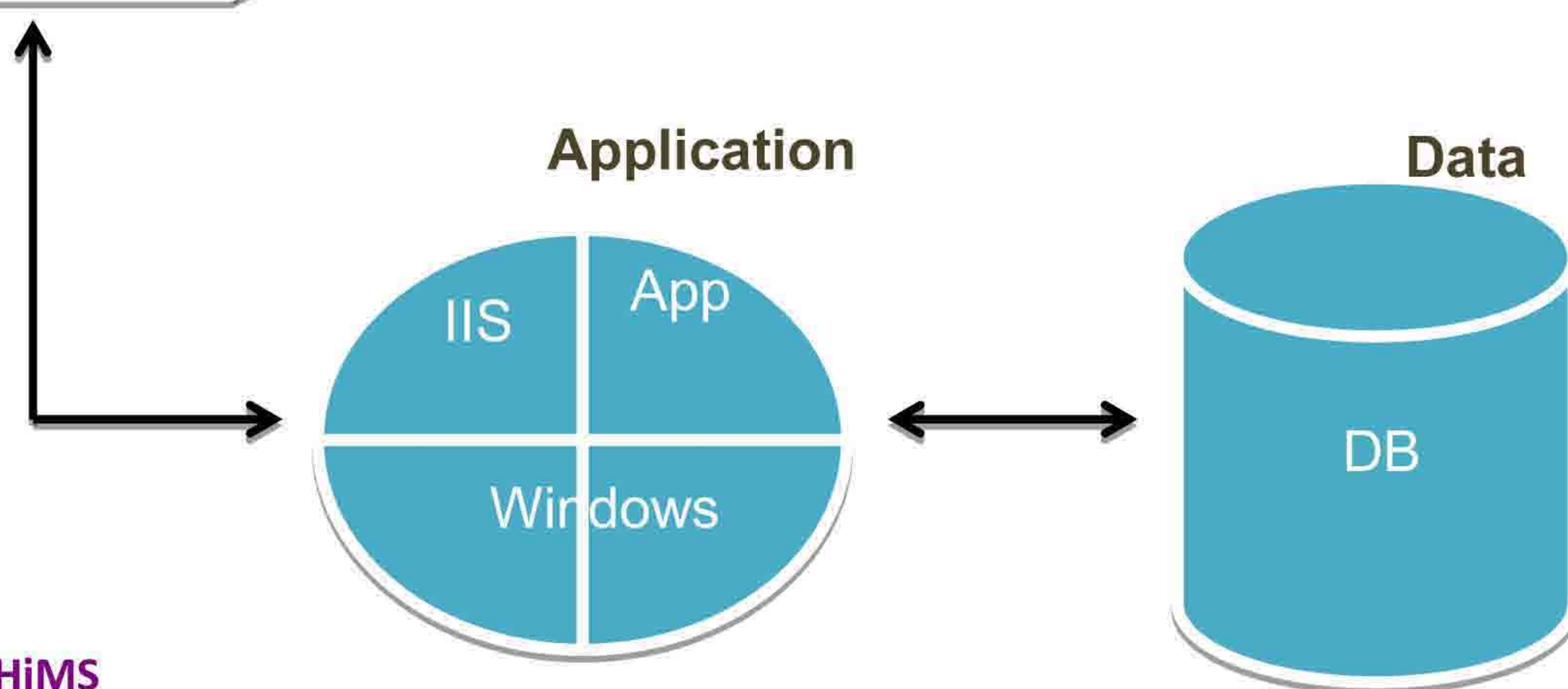
Load Balanced – Dhii-CHiMS randomly allocates the clients to different middle tier servers to spread the load evenly. This prevents one middle tier server from becoming a bottleneck

Flexible – Business logic components on the middle tier can be upgraded easily and efficiently in one central location

High performance - The software development process employed by Dhii includes an unusually high level of performance tuning. This helps to achieve staggering transactional volumes on relatively modest hardware. The software development environment used by our programmers includes several powerful analysis tools. These tools can be used to monitor transactions at test site or even in production if necessary.

Presentation

ASPX Pages / Forms /
Dynamic Content



Key Features of CHiMS

User driven Dash Board - Powerful business management tool provides an “at a glance” view of definable key performance indicators, which enhances monitoring.

Personalised work list: User-wise work list can be configured and accessed

Browser Based: A Browser based application that supports Open Source platform with N tier architecture, allows anywhere - anytime access.

User Friendly GUI: Graphical User Interface designed and developed with user-friendly approach and ease of navigation with human factor interface compliance.

Efficient Sample Processing: Multi stage sample tracking, Sample scheduling processes

Resource Scheduling: Scheduling and managing resources (Doctors/Rooms/Operation Theatre/Equipment's/Diagnostic Tests/others) to manage hospital operations.

Billing Structure: Fully parameterized Billing Structure with security features to implement new schemes and Services provided by the hospital.

Integration with insurance processes and insurance providers

Audit Trail: It automatically captures all transactions and maintains an Audit log.

Security: Robust Security mechanism defined on Role based access and Authorization. Maintains a totally secured database of Patients and business information.

ERP Modules: HR Management, Materials Management

Integration: Integration with Barcode, Smart card and medical equipment

Interface: Tally Interface for Finance & payroll module

Insurance Management System

Enabled with Internal messaging system, Mail messaging system and alert system

Multi location configuration and management

Module specific Reports

Work flow driven application with Electronic Medical Record

Modules/Functional Highlights

The system is grouped in 6 modules that are complete in themselves. Each module represents a distinct group of functions with extensive transaction and query facilities. The input screens of Dhii-CHiMS V1R1 have exhaustive data validation routines and can be operated with a keyboard or a mouse. Context sensitive help is available as a routine.

Front Office Management

Appointment Scheduling

Out-patient and in-patient registration/admission

Patient, personnel, equipment enquiries

Human and other resources schedule information

Hospital services and accommodation availability status

Billing, cash collection

Information distribution for doctors and administration

Patient Management

Out Patient Management

In Patient Management (ADT)

Ward Management

Clinical Management

Laboratory scheduling

Doctor's instructions for tests

Feedback of results to doctor

Archival and maintenance of reports and records

Inventory of consumables and equipment

Operation Theatre Scheduling

Electronic Medical Record- Specialty specific

Clinical Pathway Template Designer Tool

Support Services Management

Ambulatory – monitoring and emergency follow-up

Blood bank- supply, inventory, stocking, donor list

Diet – set and monitor patient's diet

Catering – dietician's instructions, pack/distribute

House Keeping

CSSD

Back Office Management

In-patient billing

Medical Records

Insurance Management

Equipment Management

Human Resource Management

Doctor Accounting

Materials Management System

Pharmacy Management System

Inventory Management System

Purchase Management System

Management Information System

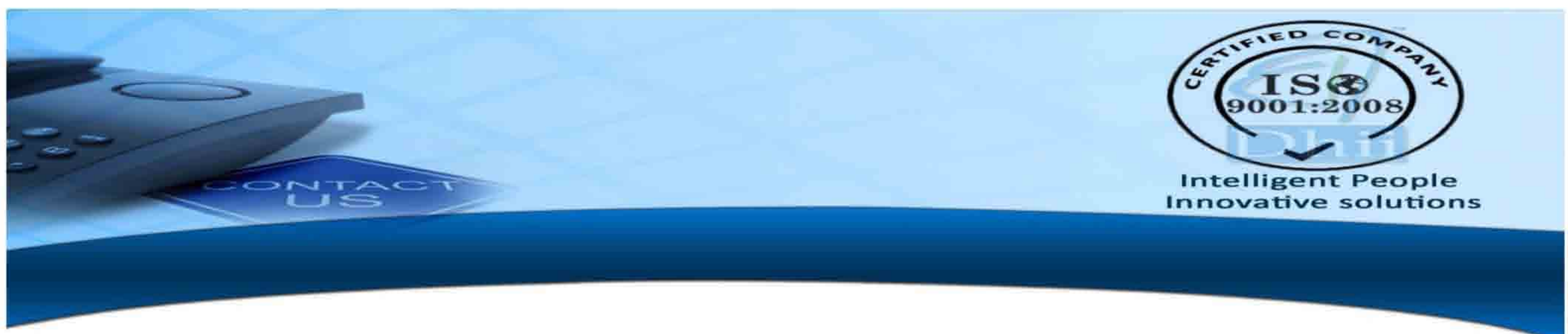
Senior staff internal control

Exception and statistical reports regarding

Information related to patient/disease profiles

Budgeted cost vs. achievements

Information dissemination/control



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