

Hospital Management Information System (HMIS)



Trio Corporation Pvt. Ltd.

www.triocorporation.in



Company Overview

Particulars	Details
Entity Registered Name	Trio Corporation Pvt. Ltd.
Entity Type	Pvt. Ltd. Company
Entity Registered Office	Office no 104 &105,Dhruta Complex ,Kelkar Road Narayan Peth Pune -411030
Communication Address	Office no 104 &105,Dhruta Complex ,Kelkar Road Narayan Peth Pune -411030
Date of Formation of the Company	19/07/2013
Website	www.triocrporation.in

Solution Overview





- ❑ Trio Corporation Pvt. Ltd. is serving the Global Healthcare Industry as integrated IT Solution Provider Company located in Pune, Maharashtra , India.
- ❑ Trio Corporation Pvt. Ltd. incorporated in 2012, previously it was known as Sonic Infotech which was established in 2005, has seen growth in all aspects i.e. Technology, Territory and subsequently Turnover!
- ❑ Our main product HMIS (Hospital Management & Information System), an ERP for multi-specialty hospitals, with more than 25+ modules takes care of all aspects required for successful running and management.
- ❑ Through our low cost, high quality and reliable offshore software services, we serve our clients giving them value for money and thus client satisfaction.



The main vision of Trio Corporation is to float technologies that fulfill all requirements in a hospital. Hospitals still have paper record systems and we aim to have a completely automated medical record system in all hospitals.

“Our mission is to build a different kind of software company which listens to client needs, values innovation in development and solves customer problems with brilliant simplicity.”

Key Solutions – Our Focus Areas

Building User friendly, low cost, and integrated solutions spread across all stakeholders



We endeavor to build solutions that can be plugged to a single platform covering patients, providers, payers & regulators

INTEGRATED SOLUTIONS COVERING ENTIRE HEALTHCARE ECOSYSTEM

Patients



Remote Monitoring



HC Mobile/ Tablet Apps



HC Web Portal



Telemedicine

Providers



Small Clinics/
SC/ PHC/ CHC/ CSC



Hospitals
(District Hosp., Private
Hosp., Remote Area
Hosp)



Dialysis Centers/
Diagnostic Centers/
Asset Light Formats



Mobile Clinic/
Outreach Centre



Healthcare Workers/
ASHA/ ANM

Payers & Regulators



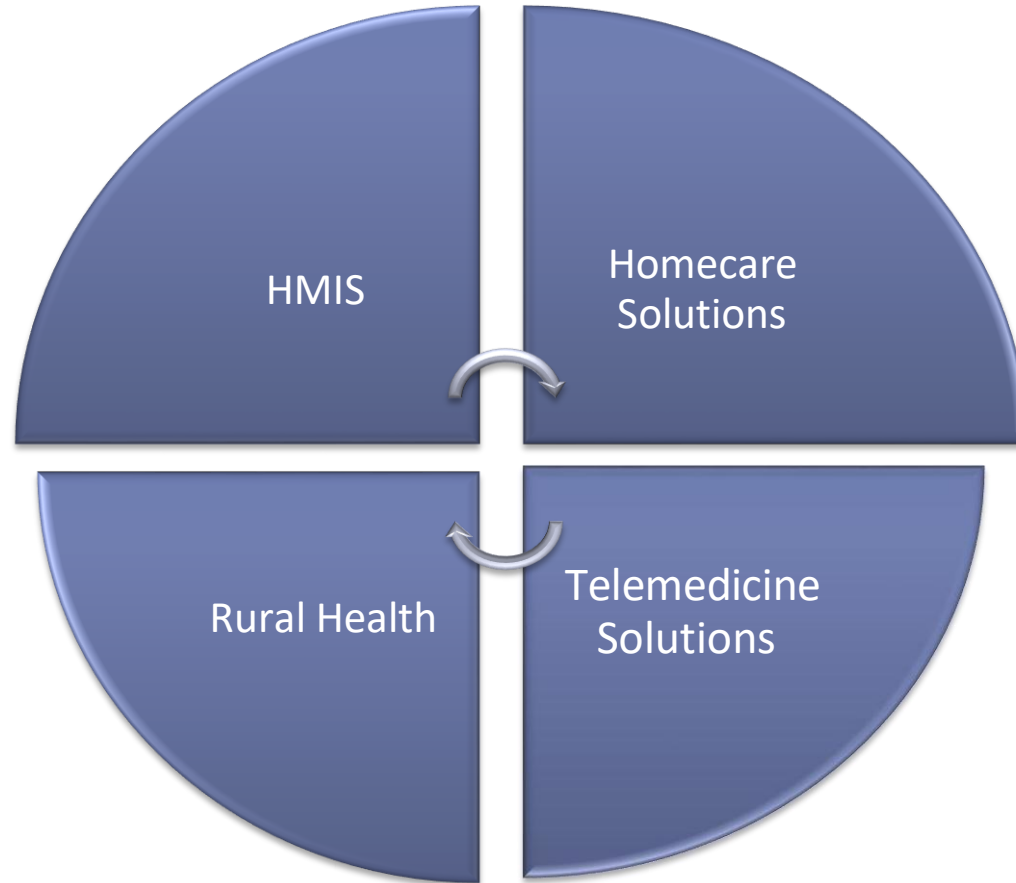
Government Health Departments



Insurance Schemes/
companies



Others



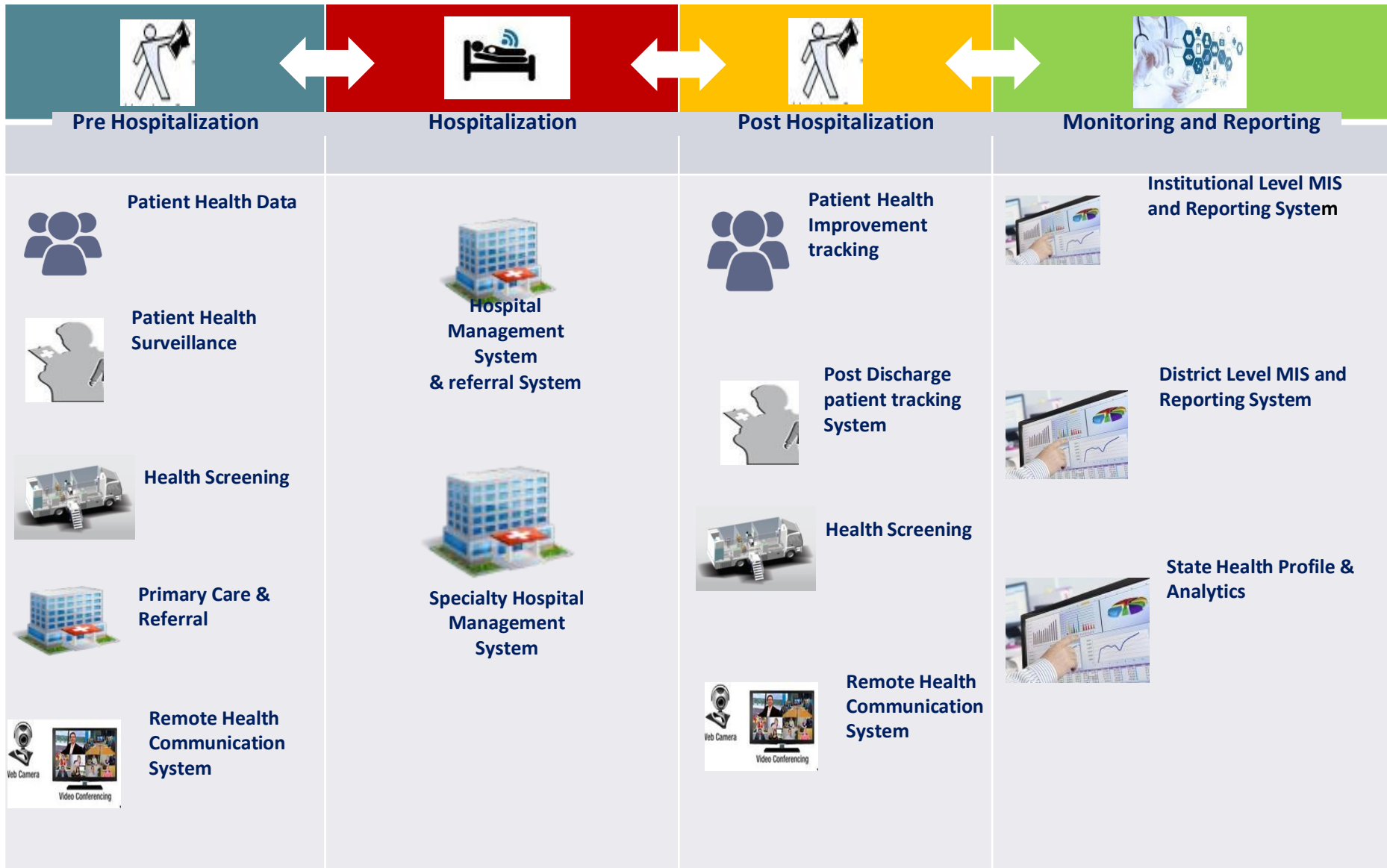


- ❑ We are leaders in Hospital Management Information System, Healthcare IT Solutions, Telemedicine and other maintenance services.
- ❑ With deep domain knowledge and singular focus, we have built a robust, feature rich suite of solutions to deliver value to the healthcare industry worldwide.
- ❑ TCPL offerings are built with inputs from industry veterans, clinicians, medical authorities and patients. Designed with intuitive user-interface, our modular products are scalable and easy to implement, making us the obvious choice for small, mid-sized and large private as well as public sector hospitals.
- ❑ TCPL solutions meet the needs of healthcare service providers spanning tertiary, secondary and primary care to urban, rural, and home care.

We are driven by our focus to deliver “Excellence in Healthcare Management.” Our solutions transform the way clinical information is captured and used to improve the quality of patient care, their safety and service delivery.

Our Health Management Information System (HMIS)

Integrated solution across the patient value chain to improve health profile

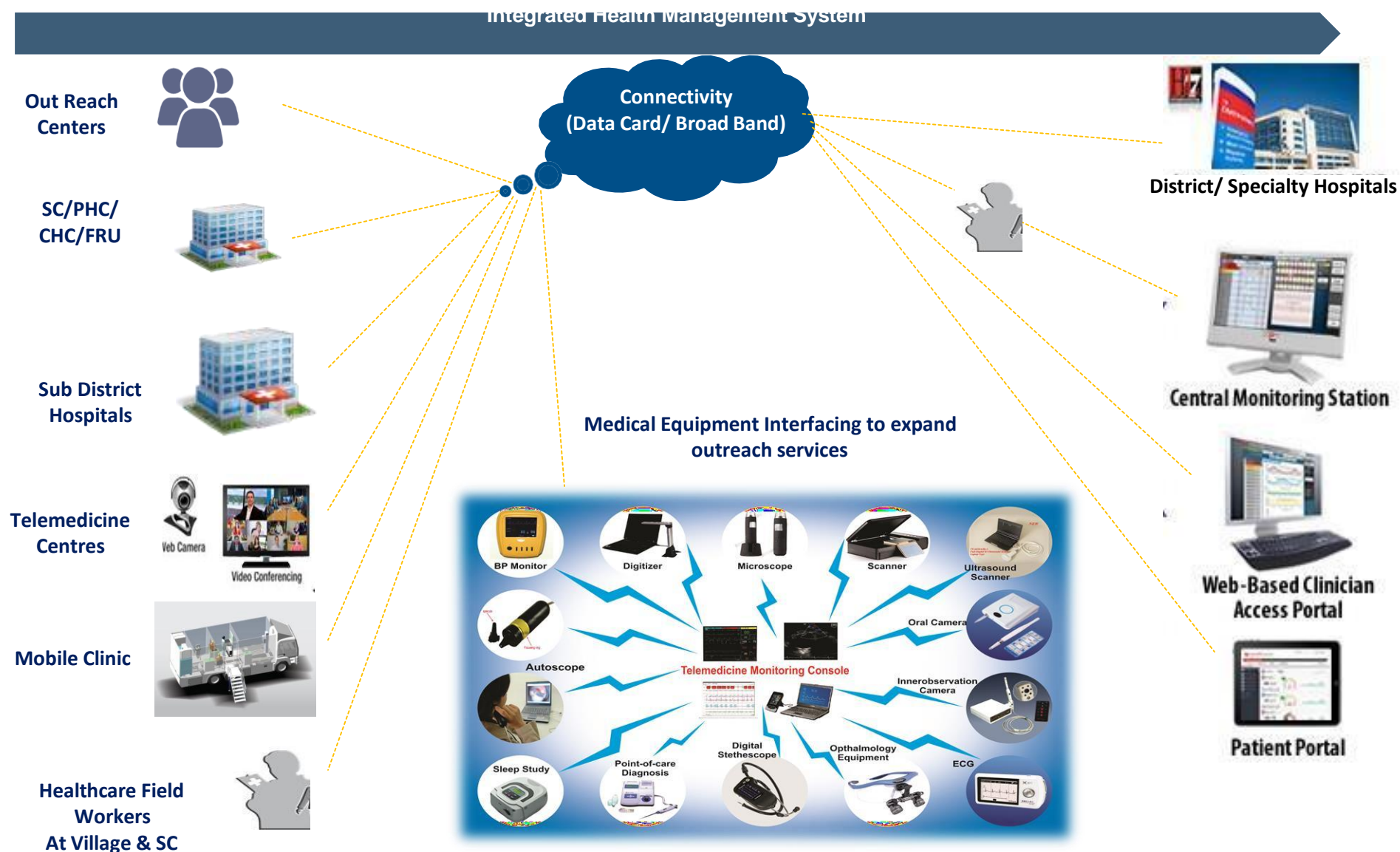




- ❑ Assure a steady quality by guarantee high quality of our deliverables.
- ❑ Our software development process is continuously monitored and improved to maximize productivity.
- ❑ Understand in-depth clients' business requirements.
- ❑ Deliver world-class end-to-end IT solutions.
- ❑ Adopting International and best practice standards.
- ❑ 24/7 client support via phone
- ❑ 99.99% up-time with high speed internet connection
- ❑ VoIP
- ❑ Video conferencing
- ❑ Instant Messengers
- ❑ Sophisticated Project Management System
(to enable constant and ongoing updates during project development – involving all the aspects of the projects with key individuals)

Integrated Health Management System - Functional Architecture

Build an integrated solution to make healthcare accessible and affordable





- ☐ Trim down costs.
- ☐ Complete a specified project within budget.
- ☐ We are fully Commitment to deliver your expectation.
- ☐ Deliver projects on time.
- ☐ We value good working relationships.
- ☐ We work to your time frames.
- ☐ Meet changing customer demands.
- ☐ Handpicked team of skilled professional.
- ☐ Creative solutions that deliver results.
- ☐ Focus on Core Competencies.
- ☐ We know what we doing. We have done it before.
- ☐ A time tested development process.
- ☐ Obtain Reliable Experts.



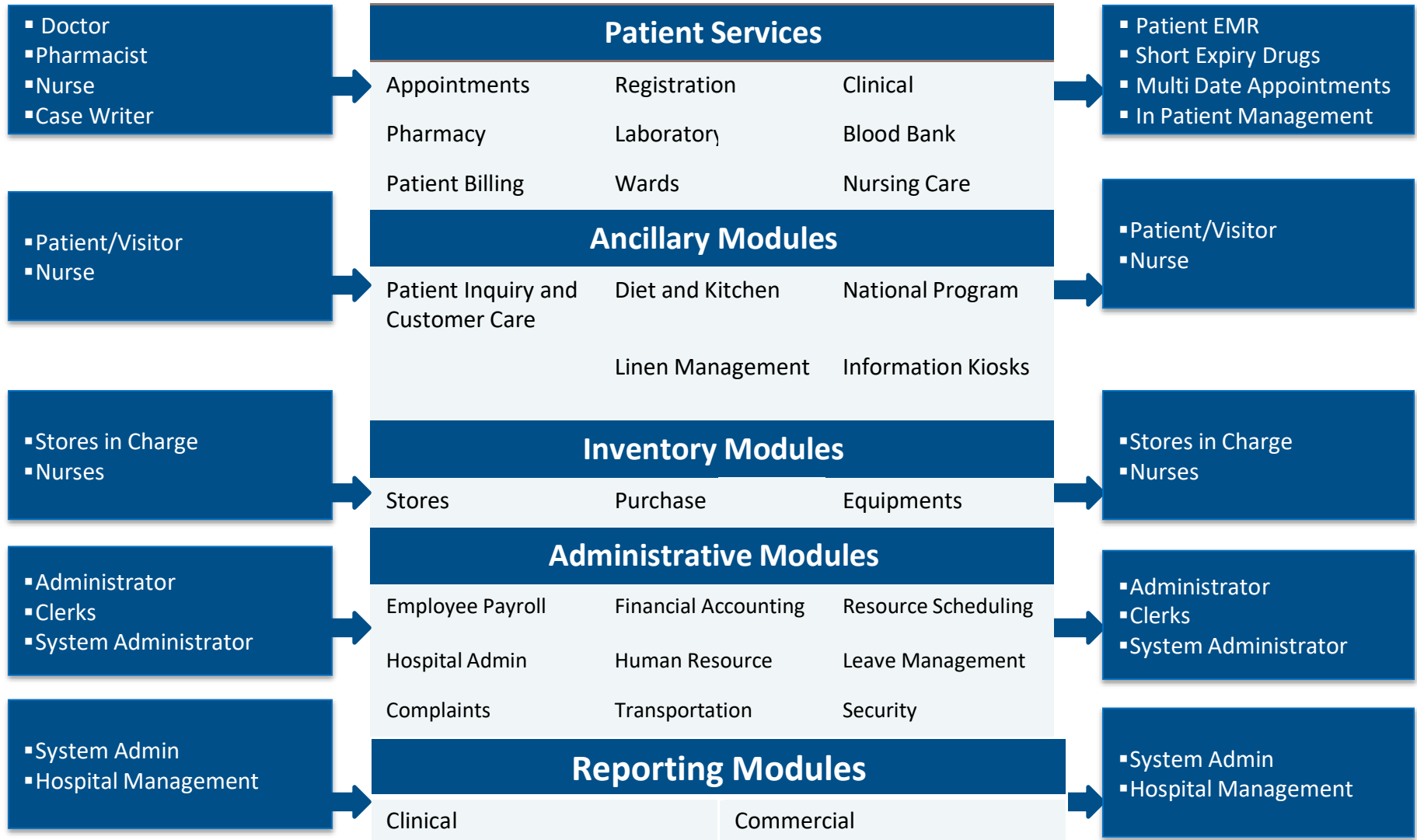
HMIS

Modules

**RADT Module**

- **Patient Registration**
- **Admissions**
- **Discharges**
- **Transfers**

Billing & Cash Counter**Patient Consultation – O/P and I/P****Electronic Health Record****Lab. Information Management System****Radiology Information System****Blood Bank****Diet and Kitchen****Operation Theatre (OT)****Infection Control & Quality Control Management****IVF****Nursing Care Desk****Roster Management****Stores and Inventory Management****Pharmacy****Financial Accounting****Human Resource Management System****Patient Inquiry and Customer Care****Asset Management System****Maintenance****Linen Management****Medical Record Department****License Management****User Management****Administration****Interface with external equipments**





Patient investigative care time reduced by 50%

Shorten length of stay for OPD / IPD patients

Prevention of duplicate treatment orders, reduced clinical errors

Better diagnosis and fast treatment process through Electronic Health Record, Past history, current report

Single window accounting across various hospital functions such as Pharmacy, Pathology, Radiology, OT, Services etc.

Revenue leakage stops – Checks and Locks at discounting

Inventory Control Checks

Removal of losses due to medicine being expired.

Decision Support System



Manpower scheduling / Optimization specially for Nurses and Ward boys

Employee productivity is measured consistently with identifying performance metrics such as No. of Bills handled everyday, for Nurse – No. of Patient attended, for Doctors – No. of OPD, Surgeries, Visit etc.

Automated Payroll, Leave Management System

Integration with Nurse Calling System, Patient Display etc.

Follows Industry standards ISO, NABH, NABL standards



Various performance Analysis based on the performance monitoring like :

Doctor Performance for various parameters at given period

Bed occupancy ratio

OT utilization ratio

Investigations suggested from given period

Drug brand prescribed from given period

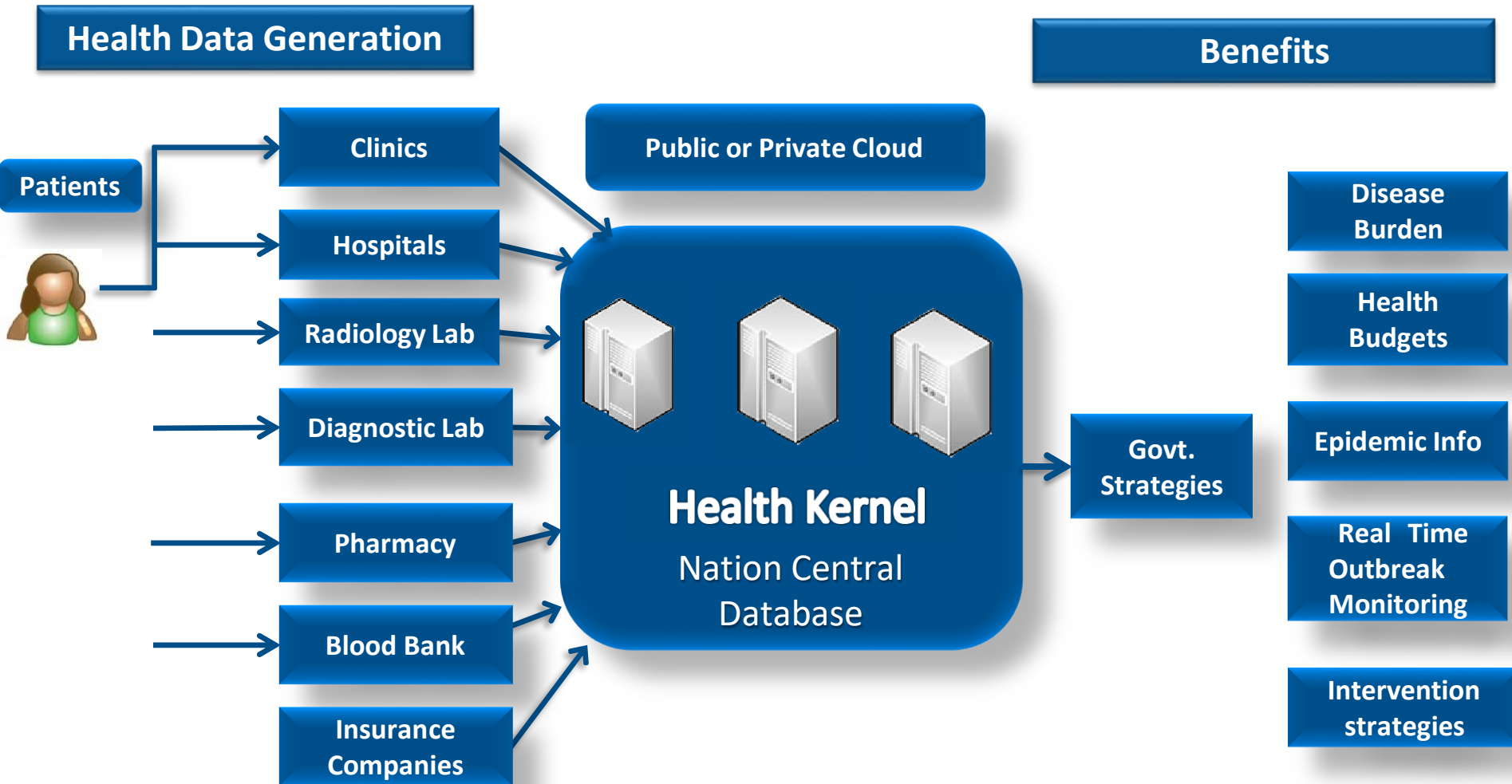


Direct benefits

- Easier patient record management
- Reduced paperwork
- Faster information flow between various departments
- Enhanced availability of timely and accurate information
- Reduced length of stay
- Reduced test requests
- Greater organizational flexibility
- Reliable and timely information
- Easier resource management
- Minimal inventory levels
- Reduced wastage
- Reduced waiting time at the counters for patients and reduced registration time for patients.

Indirect benefits

- Optimizes the resources to be deployed and helps in prioritizing the developmental activities of the hospital
- Better administration and control
- Enhanced fund management
- Better reporting to aid strategic decision making
- Improved patient care and satisfaction
- Improved image of the hospital and increased competitive advantage

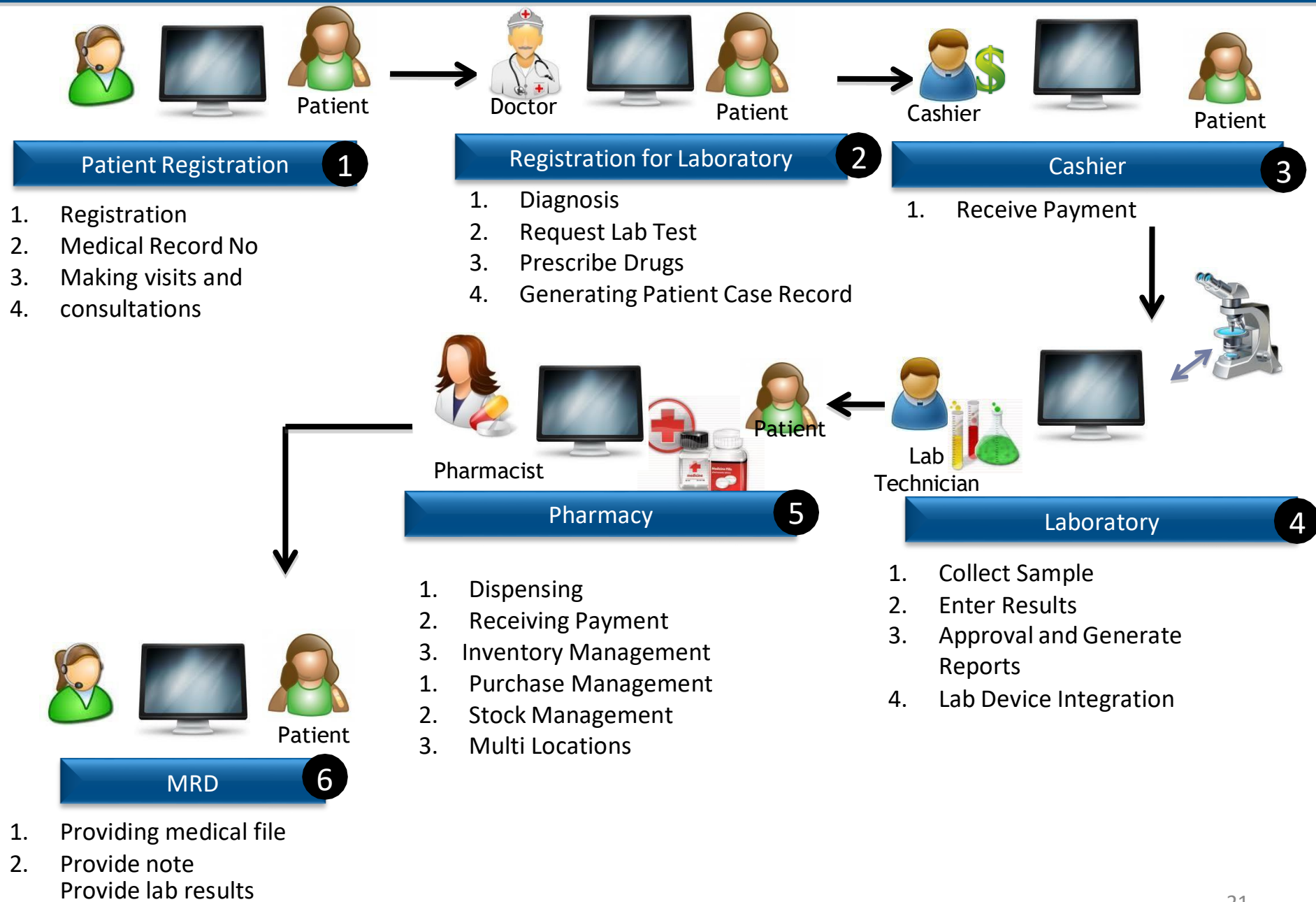




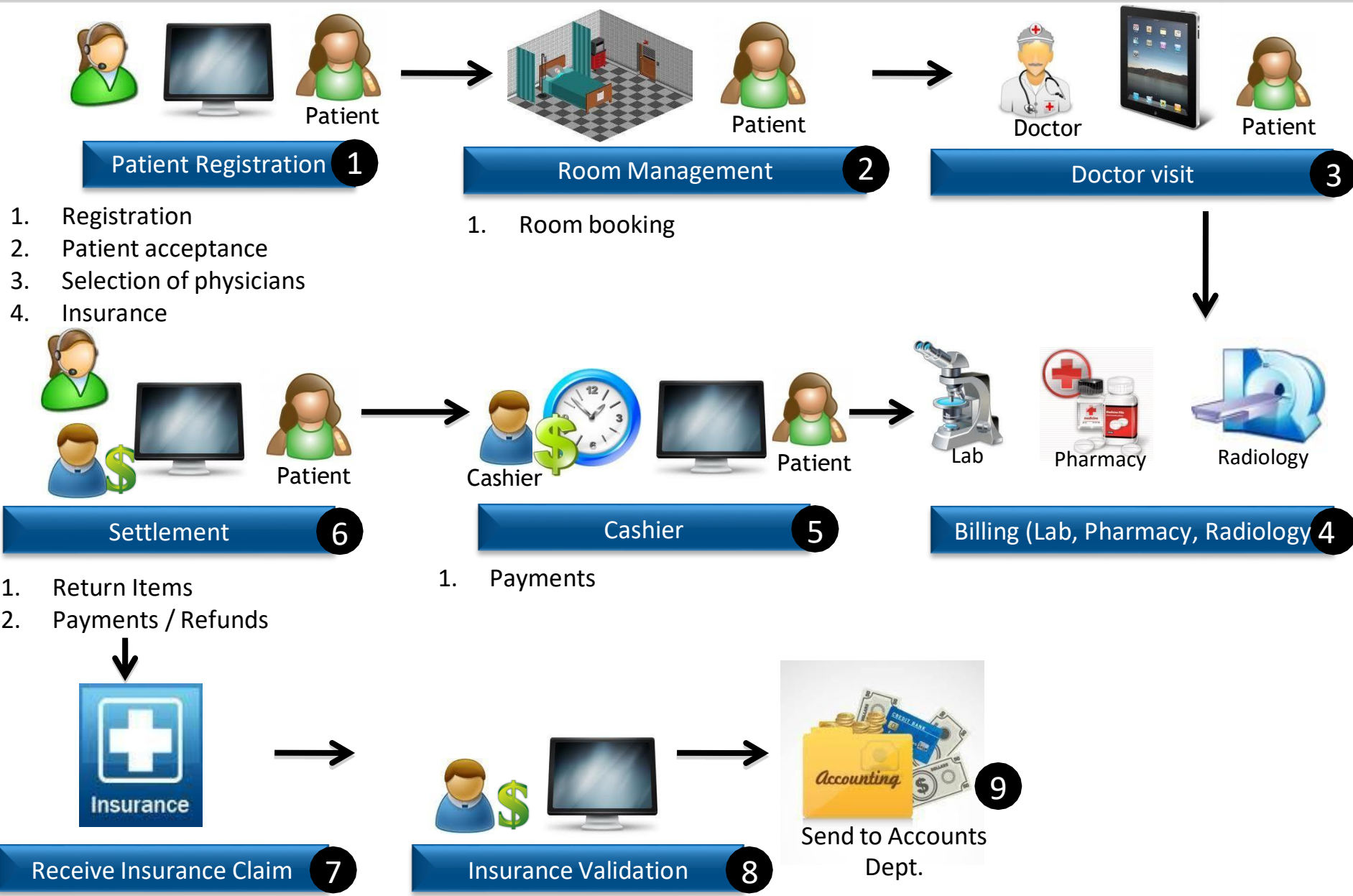
HMIS

Work Flows

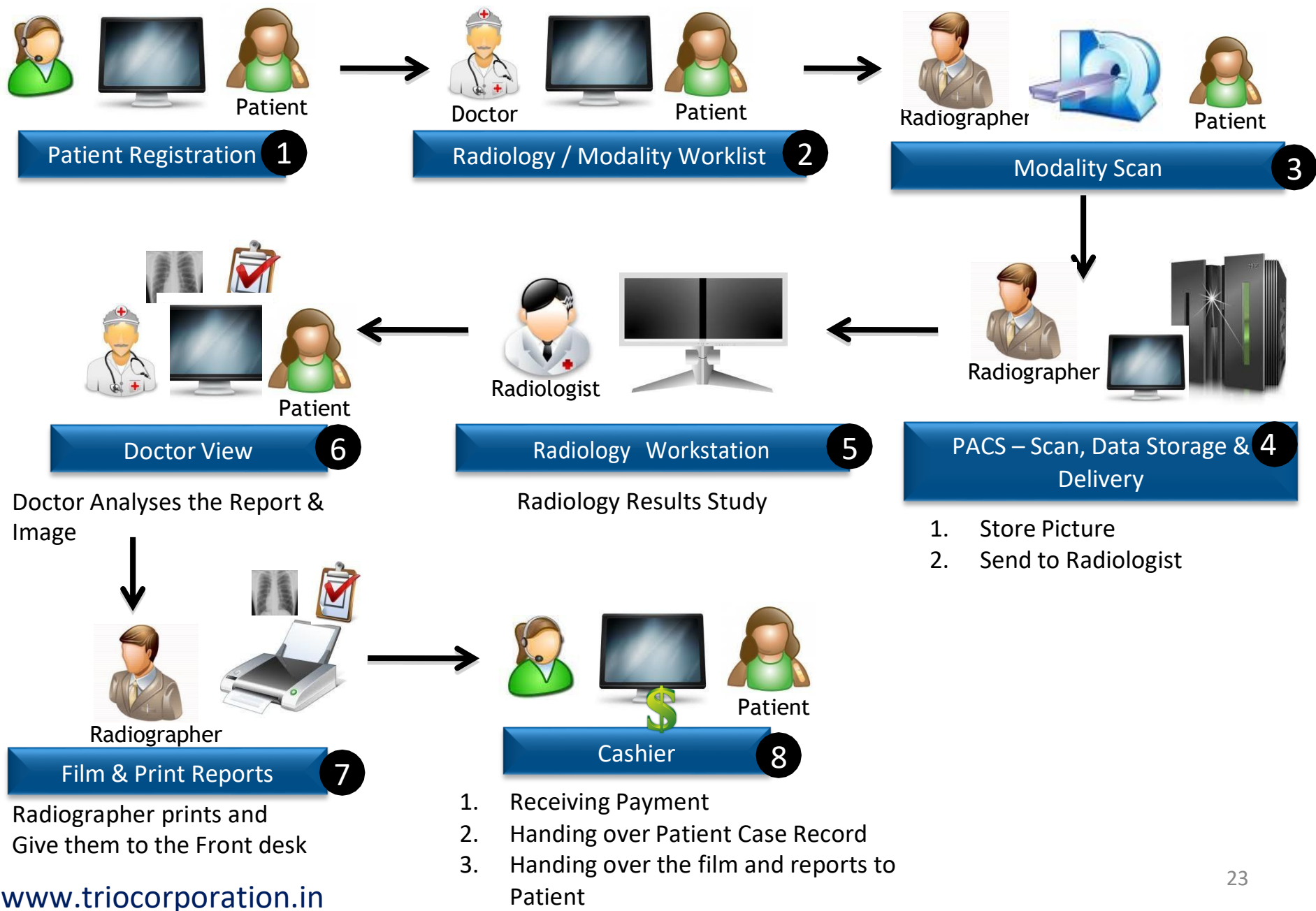
Out-Patient Work-Flow HIS + PACS + Tele-radiology



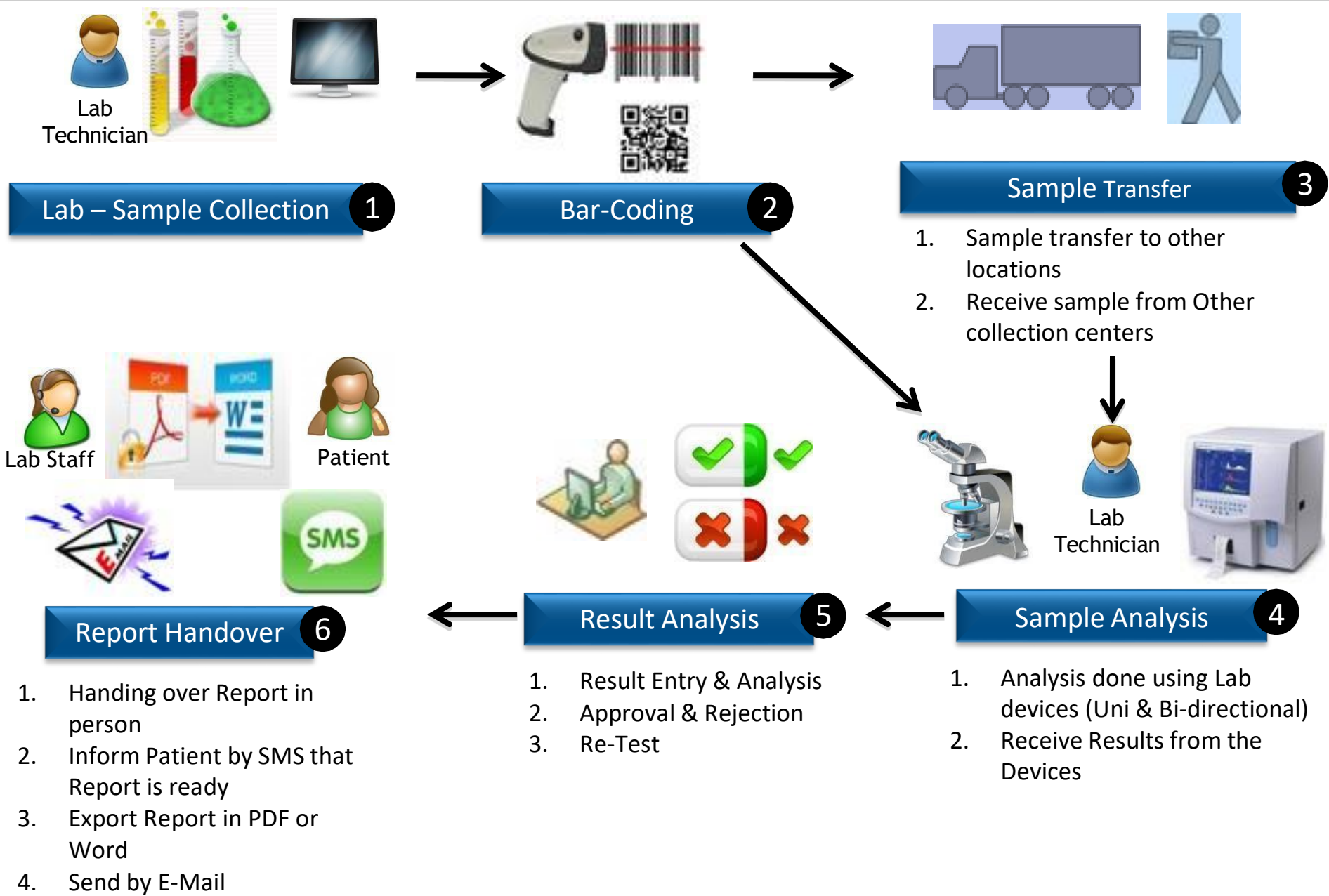
In-Patient Work-Flow HIS + PACS + Tele-radiology



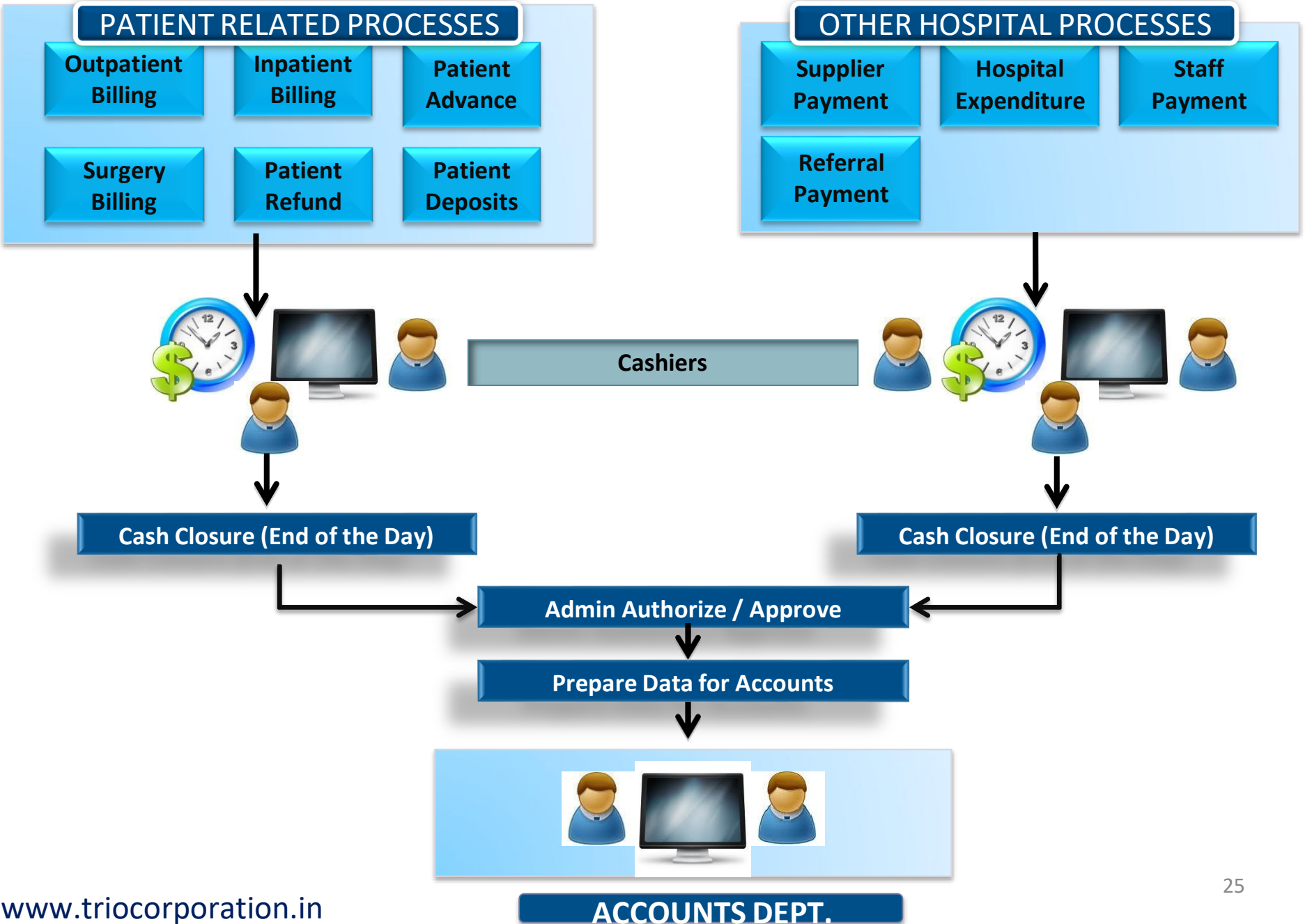
Radiology Work-Flow HIS + PACS + Tele-radiology

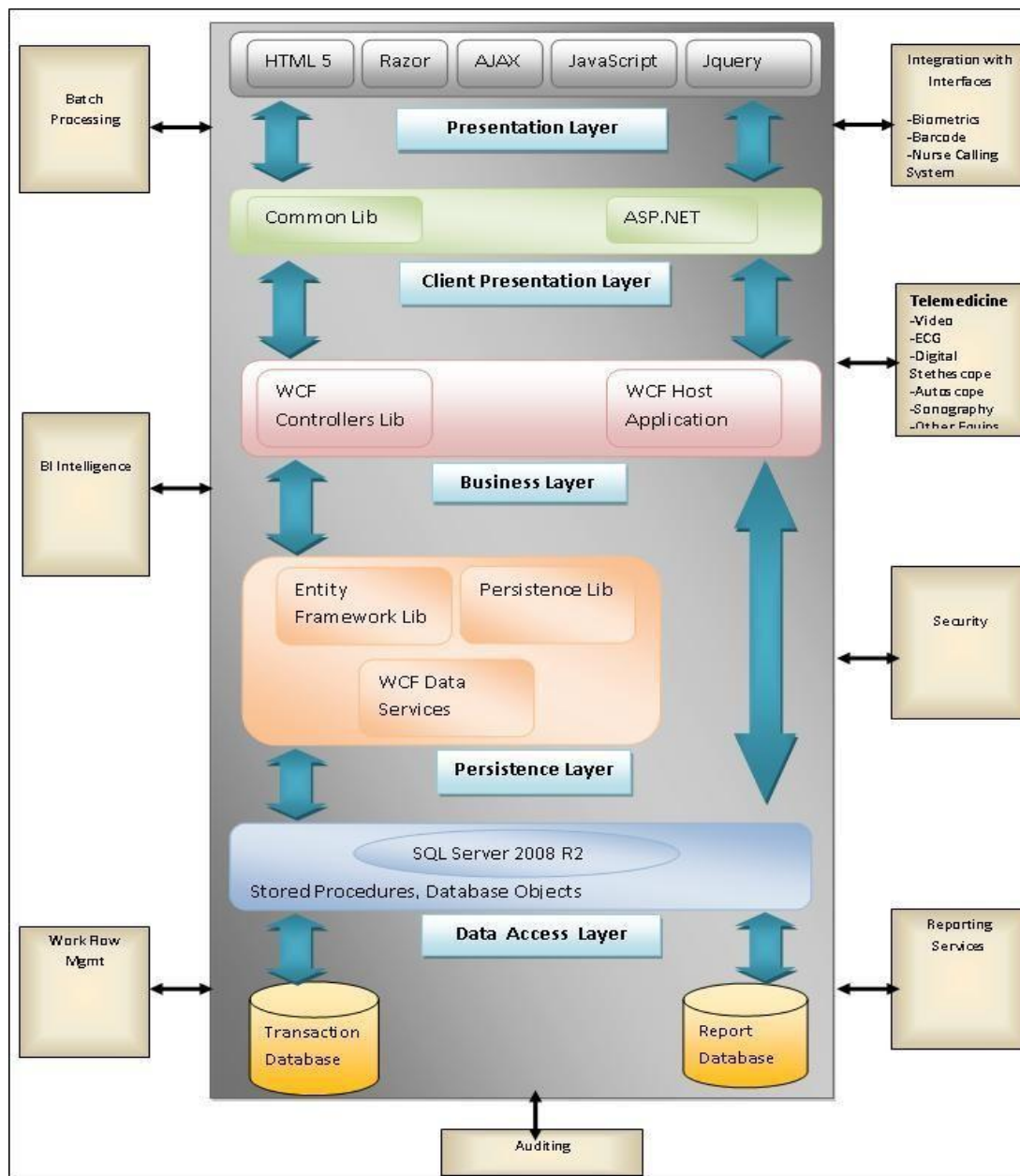


Laboratory Work-Flow



Accounting System Integration Functional Flow





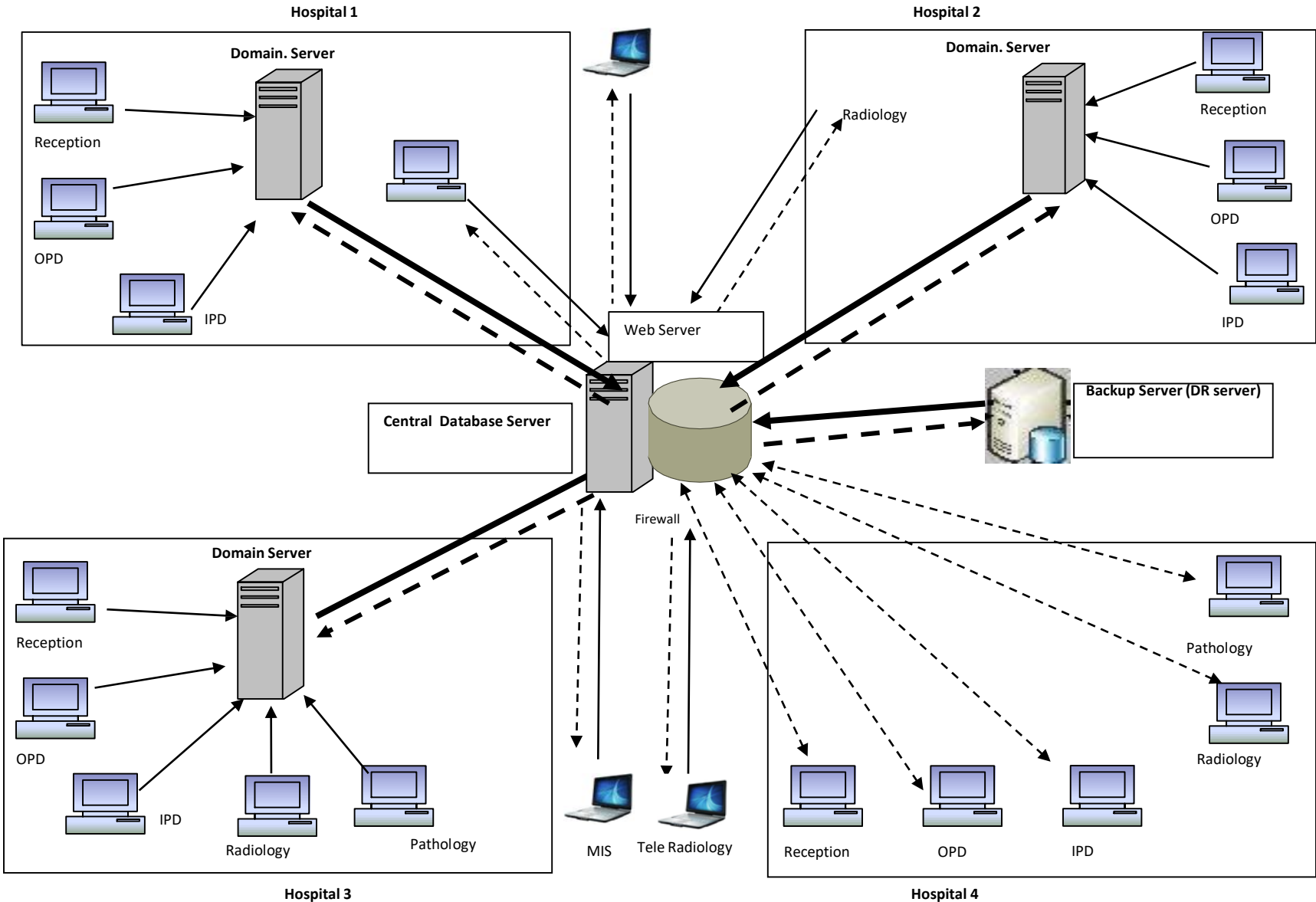
Different Architectures Supported by Solution

- Centralized Architecture
- De-Centralized Architecture

Centralized Architecture of Solution

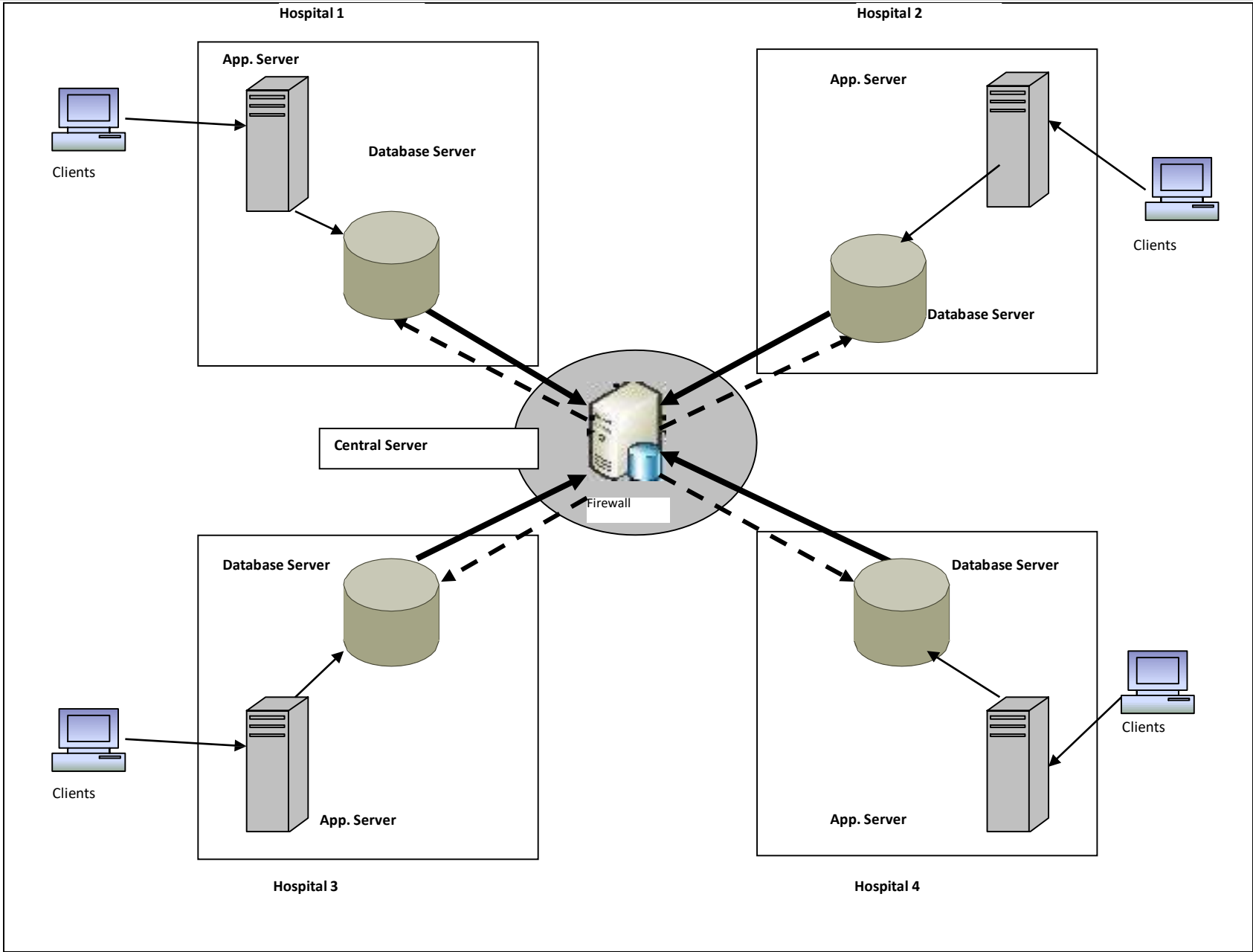
- In this solution web application is hosted on a central server, or data center, along with the database server. More than one hospital can connect to the central server with a URL from internet browser.
- Each hospital can have a domain network or independent computers with internet connectivity. The domain members can connect via domain server to the central server through shared internet connection or else individual computer can connect directly to the web server via internet dongle.
- Only online mode of data storage is supported, so connection must be available round the clock.
- The database at the central server location has a backup server for data security.
- Each hospital will save their data in central database.
- Application will be available to the authenticated users only, which will be maintained at the central database.
- User information like password is stored in 128 bit encrypted form.
- Reporting Server (DSS) will be in the normal form and will receive the data at a regular basis so that the users can view the earliest information.

Diagrammatic Representation of Centralized Architecture of Solution



- There will be 2 application users one for transactional server (OLTP) and one for reporting server. This will help in distinguishing the application logically, increasing the maintainability, manageability and performance of the application
- Server with the database preferably SQL Server 2008 R2 with Reporting Server, Data Warehouse Server at the central location
- At every hospital, there will be separate local one application server and one local database servers. This local database server will have limited data required for that hospital
- All hospital users will connect to the local App. server
- All Administrator will connect to the central server
- All local servers will communicate with the central server over intranet connectivity
- All the data, master as well as transactional, will be synchronized between the central server and the distributed servers nightly or as per decision using Replication Services where the Central SQL Server will pull the changed data from distributed servers and stores in the staging (Replication) schema and vice versa. From staging, all the data will be inserted or updated in the production schema.

Diagrammatic Representation of De-Centralized Architecture of Solution





Client Server Technology

Microsoft Visual Studio – Is an integrated development environment (IDE) from Microsoft.

Languages : Visual Basic 6.0

Database Tools : Microsoft SQL Server 2005/2008/2012

Reporting Tool - Crystal Reports 8.5

Web Technologies

Dot Net Framework 4.5

Languages : ASP. Net , C# , AJAX, MVC

BI Tool - SQL Server Reporting Services 2005

Database Tools : Microsoft SQL Server 2005/2008/2012

Mobile Technology

Android Framework

Platform : Android 3.0 (Honeycomb)

32 Few of Our Esteemed Clients



DR. HEDGEWAR HOSPITAL
Dr. Babasaheb Ambedkar Vaidyakiya Pratishthan



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