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Web based Secure Collaborative Healthcare Management Software

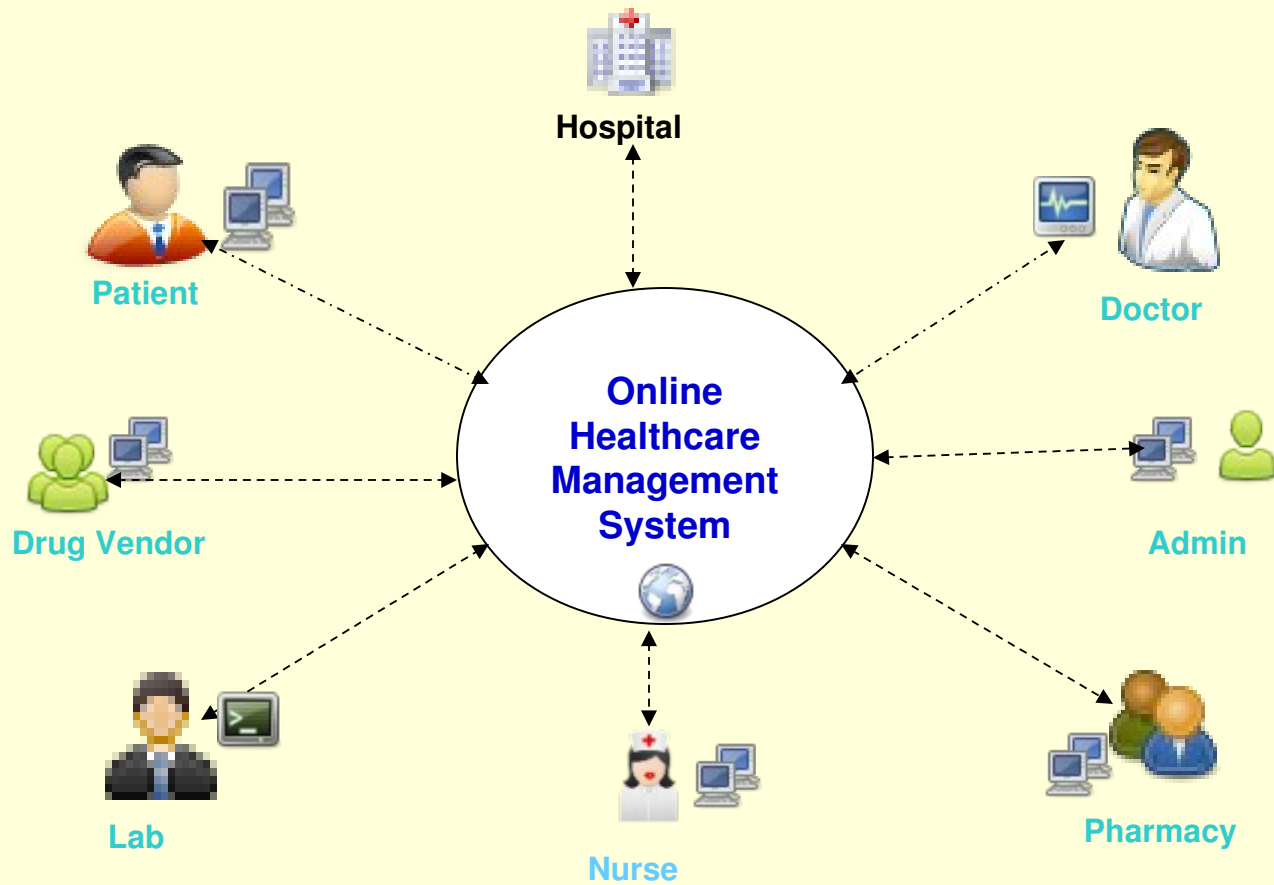
Workflow:

- Patient finds doctor into the system
- Patient creates appointment
- Doctor confirms it, keeps patient record which patient can access
- Doctor sends diagnostic test request to Clinics and Labs.
- Clinic uploads pathology test results
- Radiologist uploads image and updates diagnosis to doctor.
- Doctor sends prescription to pharmacy.
- Drug vendor publishes drugs to doctors.
- Doctors collaborate with patients, clinic and other entities remotely over internet

Benefits:

- Doctor, Patient, Clinic, Pharmacy all register into this and collaborate over internet in real time yet securely and complete paperless way. Workflow is quick, easy and simple.
- **No installation and maintenance** of software. It's accessible from anywhere
- Appointment scheduling through web
- Physician Practice Management
- Patient Health Record Management
- **Quick and Timely Remote Diagnosis**
- Medical Data Encryption and Backup
- PACS and Radiology Information support (Tele-Radiology)
- **Go to <http://healthcareutility.com>** to start using

Healthcare Management System in a Cloud



OHMS™ platform

- OHMS is hosted software as service platform that enables the multiple users to login from anywhere and any device and execute healthcare activities in secure way.
- Users or Actors who are part of this system are Physician, Patients, Clinical Labs, Radiologist, Pharmacy, Drug Vendor, Patient Care (Nurse), Hospitals Admin etc
- This brings the paradigm shift of creating relationship among doctors, patients, clinic and pharmacy by enabling them to always communicate and work together in a very sociable manner.
- This platform also changes the traditional system of patient record management, diagnosis and medications, electronic document management. Based on the electronic health record (EHR), patient treatment, health monitoring, analysis can be performed in much more scientific way
- Rising costs, limited access, high error rates, lack of coverage, poor response to chronic disease and the lengthy development cycle for new medicines—most of these could be improved if we could link diagnosis to drug discovery to healthcare providers to insurers to employers to patients and clinical labs to drug vendor. Today, these component processes and participants that comprise the vast healthcare system aren't connected.
- User can perform collaborative activities like sharing, referring, updating, deleting, notifying, tracking on Electronic Medical Records (EMR).

Salient Features & Benefits

- **Online Appointment Scheduling and management**
- **Patient Health Record Management**
- **Clinical Examination & Lab Record Management**
- **Secure Electronic Content management**
- **Online Patient Diagnosis**
- **Medical Data security and backup**
- **In Patient Management**
- **Report And Analysis Utility**
- **PACS and RIS**
- **Patient Referral Management**
- **Secure Collaboration and Health Information Exchange**
- **User Group Access Control and Security**
- **Personal Calendar and Reminder Alert through E-mail & SMS**
- **Custom Form Template for Patient Records**
- **Subscription based usage**

Salient Features & Benefits contd..

- **Secure and Maintenance free**
- **No licensing cost and service charge**
- **Simple and Interactive User Interface**
- **Patient Record Analysis when offline**
- **24X7 uptime**
- **Remote Diagnosis and Treatment**
- **Clinic & Pharmacy collaboration**
- **Drug advertising**
- **SSL 128-bit encryption**
- **Timed logout - proactively hindering unauthorized access to OHMS**
- **User tracking - traces every user logging in and out**
- **Audit - tracks changes to patient data for review by administrator**
- **Mobile access**

Health Information Exchange & Collaboration (HIE)

- Collaboration could be between physician and patient, physician and clinical labs or pharmacy, physician and nurse etc
- Patient can view the complaint, diagnosis or medications record created by physician. Similarly, clinical labs can view patient diagnosis record when diagnostic tests mentioned as part of diagnosis record, are requested to that lab
- Patient clinical tests and radiological diagnostic images are uploaded so that referring physician and concerned patient can view it.
- Physician also notifies the pharmacy by the patient medications record so that pharmacy can collaborate both with physician and concerned patient for the drug availability.
- In this system, users like physician, patients, or clinic initiates healthcare activities like creating event, schedule and electronic medical record
- The medical records are kept in this protected region under the ownership of given user. The system provides user identity (authentication) based security and role based access control.

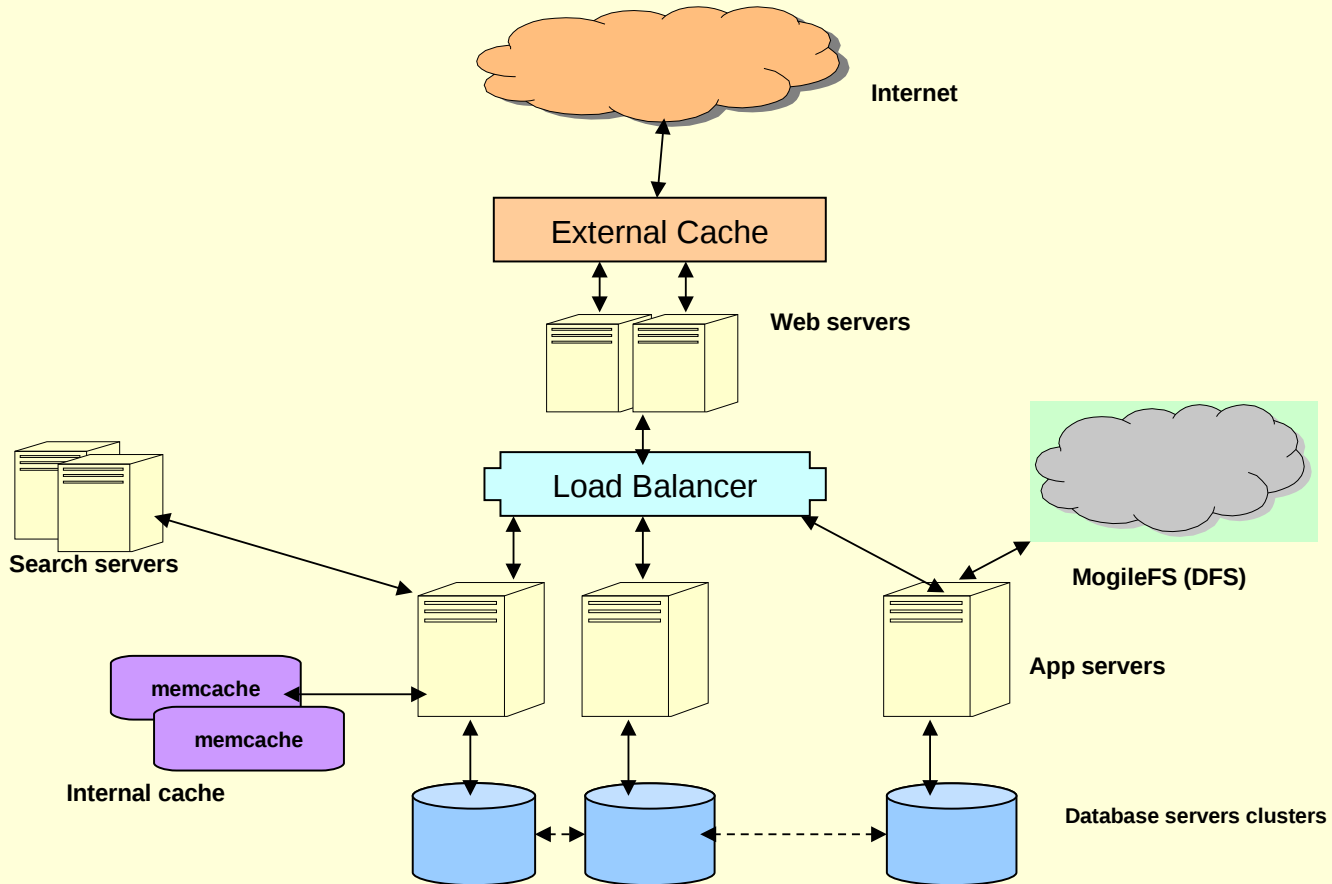
Collaboration Workflow

- Users register into the system
- Respective users log into system with username and credential
- Patient search doctor into the system over internet.
- Patient creates appointment with the concerned doctor.
- Doctor logs into system and confirms/cancels appointment
- Patient gets notified about this.
- Doctor keeps patient record (complaint to treatment) into the system.
- Doctor sends diagnostic test request to Clinical Labs.
- Clinical Lab logs into the system and checks test request.
- Clinical Lab schedules appointment with patient for sample collection and clinical tests.
- Clinical Lab uploads test results.
- Radiologist uploads image and updates his/her diagnosis (Radiology Information) to the referring doctor.
- Doctor sends prescription to pharmacy.
- Patient collects medicine from the pharmacy.

Applications to be built on this platform

- Clinical Decision Support System (CDSS)
- Medications Management and Therapy using Drug Interactions, de-duplication of drugs and it's doses
- Patients Disease Surveillance System for a given demography
- Remote and Distributed advanced Hospital Information management system
- Integrated provider and payer medical billing system workflow satisfying patient and provider claims processing and settlement

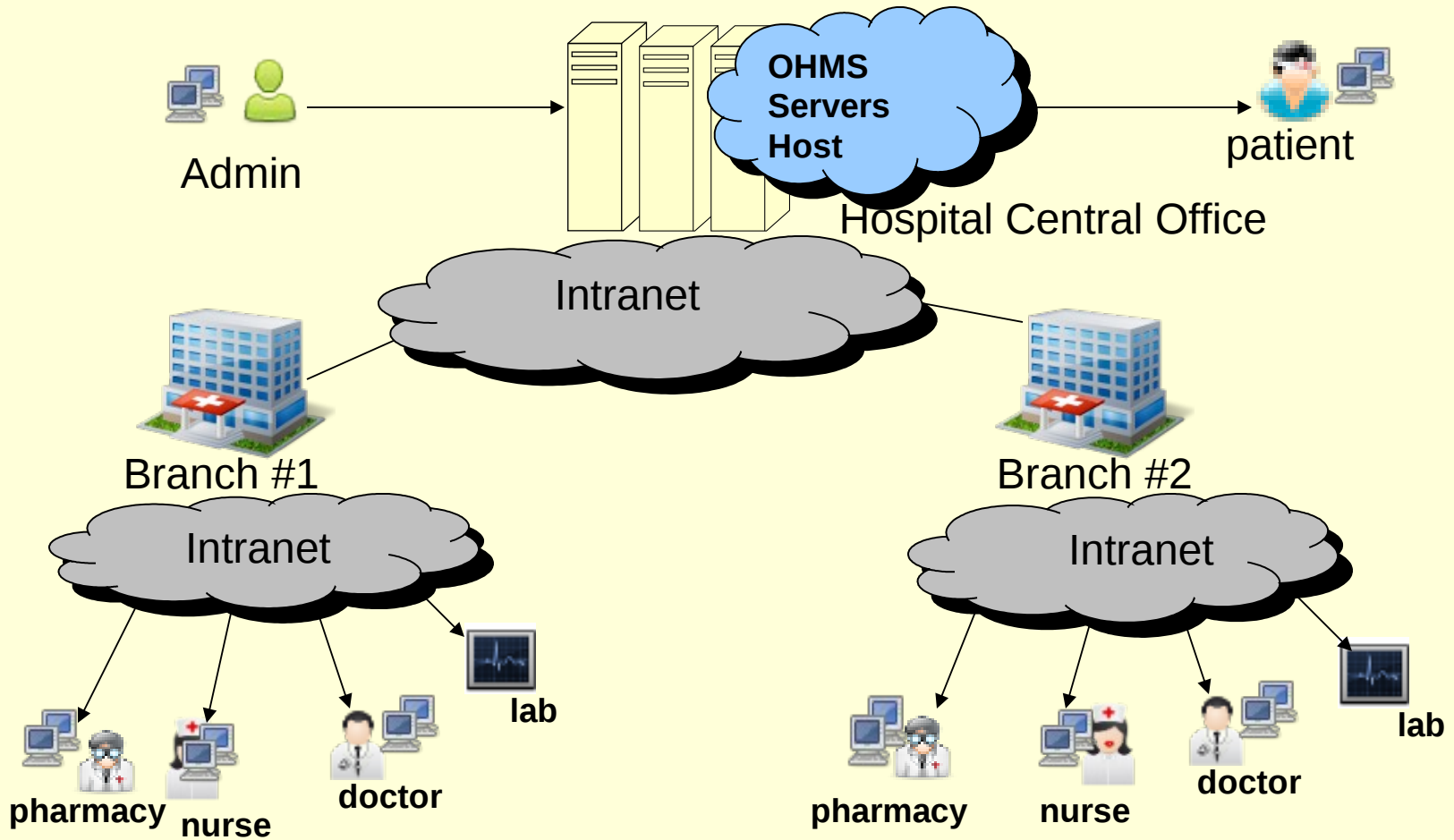
SaaS Infrastructure (Public Cloud)



Benefits of Public Cloud

- No installation and maintenance of software. Upgrade of software is also automatic.
- The pricing of the software is based on time or usage. Hence the cost of software becomes very cheap compared to the licensed one.
- The data is kept in secure place and regular backup is taken so that there is absolutely no loss of data.
- The system is up 24X7 so the user can access as long as internet is available.
- The complete collaboration among the users is possible as this enables pervasive health information and exchange.

SaaS infrastructure



Benefits of private Cloud

- Multiple branch of the hospitals or other organizations can share the same infrastructure within it's own private domain and security.
- The Whole administration of the system is under the tight control of the authority.
- Unlimited users (doctors, lab, pharmacy, nurse, radiologists) can use the software over intranet from anywhere, anytime and any device.
- Collaboration and exchange of patient EMR becomes very easy, timely, paperless and automated
- The infrastructure is shared in a private cloud, so the cost of client devices goes down a lot.
- The external users can also be given access like public cloud. For example, patient being treated in the hospitals can be given free access to their patient record and other lab report.
- There is no installation and maintenance for each branch of the hospitals as long as each branch can connect to the OHMS servers over internet/intranet. This reduces drastically the IT expense for the hospitals which are widely located in different parts of the country.
- The deployment of OHMS in private cloud mode expedites the customization of the software.

