



Transform your health information into better healthcare

Hospital Management Information System

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healthcare



Targeted Items

Role of Paper in
a Organization

Scope of the
Project

Bottlenecks and
Threads

Implementation
Strategy

Infrastructure
Requirement

PACS

HIPPA

HL7

Role of Paper in a Organization

- Documents are an integral part of any business process and play a pivotal role in the functioning of any organization.
- They are a vital means of organizational communication, an important constituent of organizational memory and play a significant role in enhancing the business process
- For a Hospital, Various documents are used to record patient information starting from Patient Registration to finally patient discharge.
- These documents are required for monitoring patient previous medical history and current progress as per given medical treatment.
- Record are also being used to monitor Patient Complications, and future need for healthy life.
- These documents may also be required for legal purposes

Why a paperless system ?

Proper Record Management.

Mobilization of record from / to users.

Patients lost / destroy the record.

International standards can be applied e.g., HL7.

Patients can view their report online.

Helps in providing data to analysis agencies.

History and Track of Record.

Interfaces with Standards



PATHOLOGY MODULE – INTERFACING WITH DEVICES



**Beckman
Coulter**



Sysmex



Swelab Alpha



**Barcode
device**



**Hematology
Analyzer**



Cobas

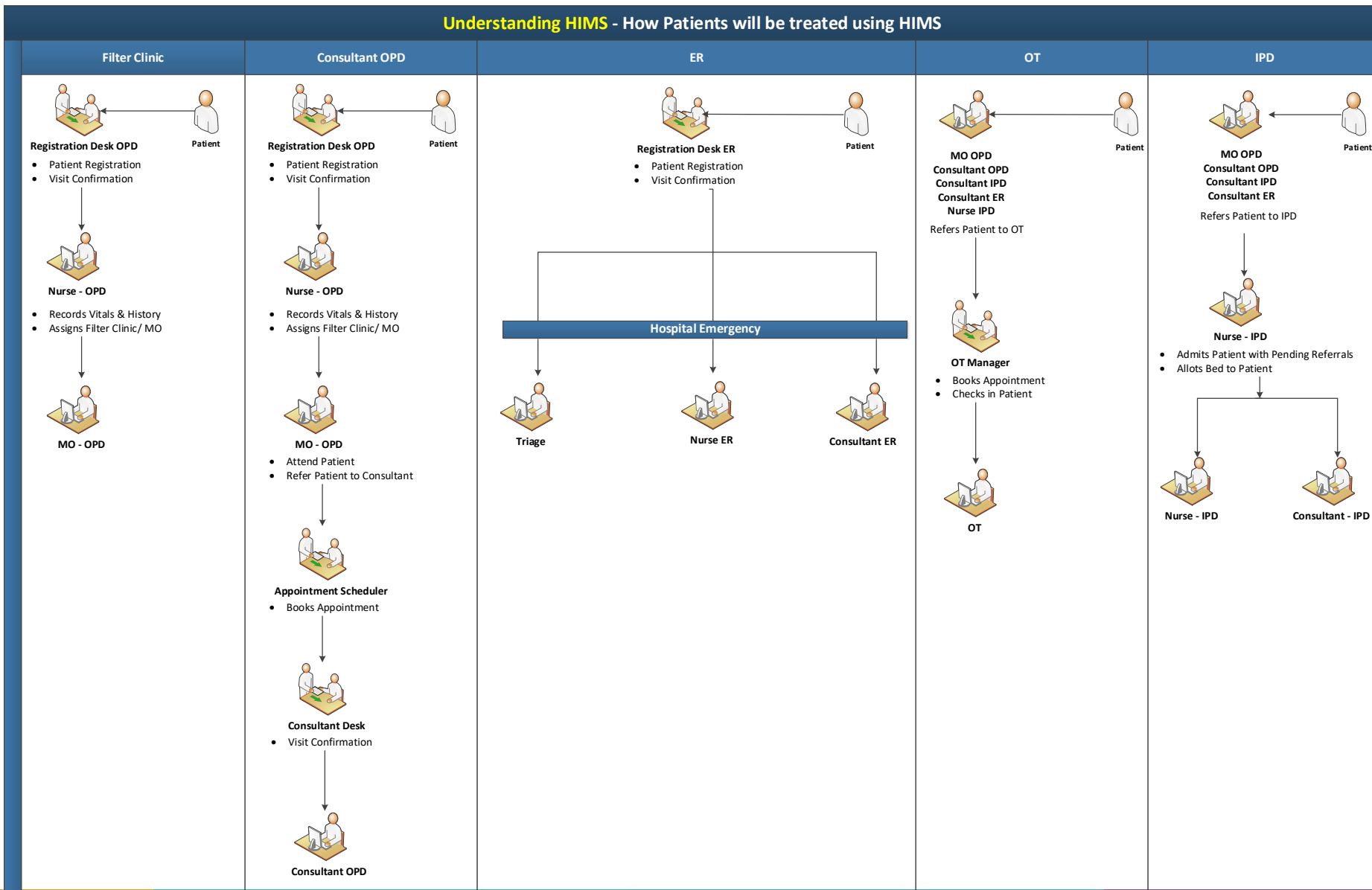
INTERFACES WITH MEDICAL EQUIPMENT



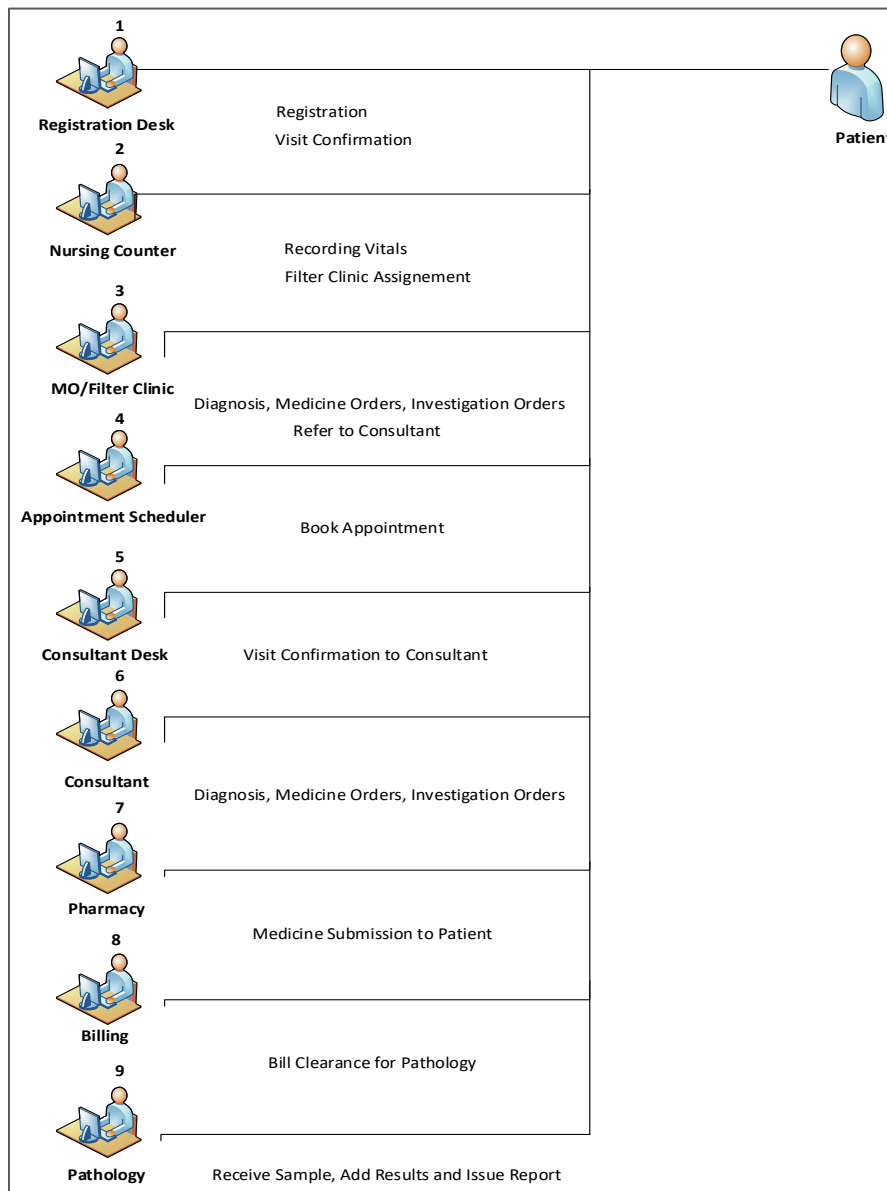
NON-DICOM



Imaging & Pathology Devices
(Bi and Uni)



OPD FLOW





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Modules

System Administration

- Users Management
- Departments
- User Privileges

Registration Module

The Patient Registration module covers all the processes required for the registration of patients.

- Patient Registration with complete maintaining of demographics with
- generation of unique medical record number.
- Patient Triage Process
- Registration Card Print
- Wristband Print
- Patient Visit Confirmation
- Reports

Appalment management

- Consultant Appointment Desk
- Appointment Block
- Appointment Cancelation

Out - Patient Medical Record (OPD)

- Presenting complain,
- Allergy
- Vaccination
- Medication history
- Drug history
- Diet history
- Family history
- Personal history
- Out-side investigation
- History of Present Illness
- Follow-up
- Physician order
- Other
- Examination
- Medication order
- Investigation Order
- OT / Procedure Scheduling
- CVS
- Respiration
- Abdomen
- CNS
- Users define Template
- Vitals
- Admission Schedule
- Final Diagnosis
- Current Diagnosis
- Generate Investigations
- Integration with pharmacy.
- Description of prescription.
- Referral System



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Investigations / LAB

The lab module is an integrated function of pathological tests and results. It has a capability to integrate machines that helps to directly fetch results smartly against patient MR.

- Lab Request Process
- Lab sample Collection
- Lab Receiving Sample
- Result Entry General
- Result Entry Microbiology
- Result Entry Histopathology
- Labs Machine Integration Module

Pharmacy

- In- Patient Pharmacy
- Central Pharmacy
- Out-Patients Pharmacy

Modules

ICD Management (ICDM)

An interface control document (ICD) in systems engineering and software engineering, provides a record of all interface information (such as drawings, diagrams, tables, and textual information) generated for a project. Lab Request Process

- ICD Management (ICDM)

Blood Bank

- Donor Registration List
- Donor Master List
- Donor Matching List
- Requisition
- Issue Transfusion
- Component separation
- Blood stock

In-Patient

The In-patient management module manages patient que, patient electronic medical record, doctors' orders includes investigation, medication and general treatment along nursing administration till patient discharge. Please find following details of in-patient features:

- Ward Admission Process with allotment of bed #.
- Bed wise Status
- Ward Wise Status
- Admission Cancelled / Reschedule
- Patient Shifting Orders by Doctors
- In-patient Medication Administration process by nurse
- Patient wise Doctors Medication orders
- Patient wise Doctors Medication orders Schedule
- In patient Clinical Management
- Vital signs data punching records in different time bands.
- ICD 9 Diagnosis with the option to enter multiple entries.
- General Physical Examination
- Physician / Consultant Notes
- Maintain Patient History / Records
- Ward / Crash trolley Medicine Management
- In-patient Intake-Output Chart
- Patient Discharge Process

Nursing

Nursing is integrated with the orders given by doctors. Spectrum allows to follow international medical protocols by having the systematic nursing with time punching process. Following are the features of nursing module:

- Nursing Notes Management
- Nursing Handing over taking over notes
- Nursing Event
- Nursing Orders Administration of Doctors
- Nursing vitals Management

Modules

Sub-Store (Part of Inventory)

- Sub store Medicine Request
- Sub store Medicine Issue
- Sub store Medicine Issue Acknowledgement
- Sub store Medicine Consumption
- Sub store Medicine Return
- Sub store Medicine Return Acknowledgement
- Sub Store ledger
- Sub store Issues Reports
- Sub Store Consumption Reports
- Sub store Return Reports

Reports

- Patient Census Report
- Departmental Issue Report
- Purchase Requisition pending Status
- Short Expiry Item Report
- Re-Ordering Level Report
- In-patient Pharmacy Ledger Report
- Daily Supplies Reports
- Sub store Issues Reports
- Sub Store Consumption Reports
- Sub store Return Reports
- IPD Admitting/Discharge Status Reports

Inventory management

Inventory management is the integral part of **Health20**.

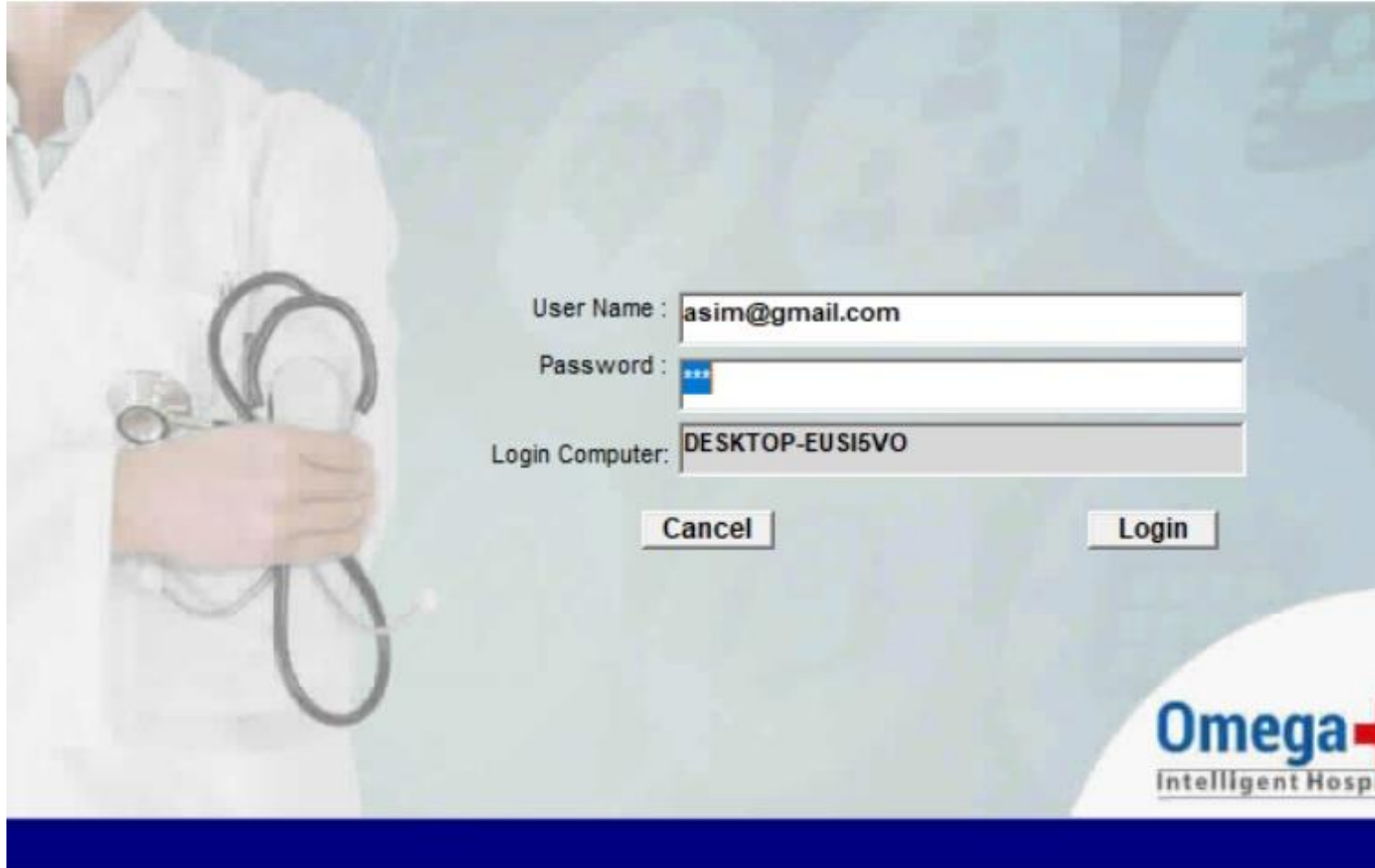
Following are the details of inventory module:

- Item Setup
- Item Category setup
- Item Subcategory setup
- Item Unit Define
- Supplier Entry Form
- Opening Stock Balance
- Departmental Stock Level
- Departmental Requisition
- Departmental Requisition Approval
- Purchase Requisition
- Purchase Requisition Approval
- Purchase Order
- Good Receiving Note (G.R.N)
- Purchase Return
- Departmental Issuance
- Department Material Issue Acknowledge
- Department Material Return Note
- Departmental Return Acknowledgement
- Departmental Ledger
- Main store Ledger
- Departmental Issue Report
- Purchase Requisition pending Status

User Menu

- Registration
 - Visit Confirmation
 - Registration Edit
- H C D System
- User Administration

Intelligent Hospital Management Information System



User Name :

Password :

Login Computer:

Omega+
Intelligent Hospital

User login

Patient Registration

The screenshot shows a web browser window titled "Omega + Intelligent Healthcare". The interface features a blue header with the "ecares TECHNOLOGY" logo on the right. Below the header, there are input fields for "Patient ID:", "Date:" (set to "14-03-2022"), and "Location:" (set to "Omega +"). The main form area includes fields for "Title:" (set to "Mr."), "* Name:", and "/O". Below these are fields for "Age:" (with sub-fields for "Years", "Months", and "Days"), "Date of Birth:", "Gender:", and "* Religion:". Further down, there are fields for "* City:" (set to "KARACHI"), "* Address:", "* Area:", "* Phone (Res):", "* House.#:", "Mobile:", "Phone (Off):", "Service:", and "NIC:". A large "Remarks:" text area is at the bottom of the form. The left sidebar contains four icons: a folder, a pencil, a magnifying glass, and a printer. The "ecares TECHNOLOGY" logo is also present in the bottom left corner of the sidebar. The bottom right corner of the window displays "SYS".

Out-Patient Medical Records

ecares TECHNOLOGY

M.R.# : 10220000904 Name : Mr. TEST S/O PATIENT Age : 22 Yrs 2 Mon Sex : MALE Visit Date : 14-03-2022

BP(Sys) : BP(Dia) : Temp : Pulse : Resp Rate : Height : Weight :

Visit Date	Visit Summary / Remarks	Doctor / Consultant	Specialty / Clinic

Family Medical History

Relation	Disease	Other	Duration

Final Diagnosis

Current Diagnosis

Visit Summary / Remarks

Next Plan

Admission Schedule

Vital Signs

Investigations

Medication Order

Complaints

History of Present Illness

Past History

Family Medical History

Personal History

Drug History

Allergies

Others

Outside Investigations

Follow Up

Physician Order

Examination

CVS

Respiration

Abdomen

CNS

History

