



# SecuraMED

Hospital Management System (HMS)





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## Hospital Management System (HMS)

### Modules

- + In Patient Department
- + Out Patient Department
- + Operation Theater Scheduling
- + Inventory Management
- + System Administration and Security
- + Laboratory Management
- + SecuraMEDICOM
- + Daily Prescription
- + Video Conference

### Description of Each Module

#### + In Patient Department

The module manages admissions, intra & inter hospital transfers & discharges. Advance bookings for admissions, rescheduling etc is possible from the admissions counter. Patient data retrieval & at a glance information about the admitted patient & the available vacancies / occupancies/ under maintenance-rooms is easily accessible. Admission registration & scheduling is cross-linked with consultants, services etc. Cash management & billing is also available in the same module.

The In Patient Department includes the following sub modules

1. Central Registration
2. Admissions / Transfers / Discharges
3. Services and Charges
4. Reception and Enquiry
5. Ward Management and Room Management
6. Management Information System (MIS)

Complete details for each sub module is given below

1. Central Registration  
( ID given to patient is lifetime ID )  
Add / Update / View / Search Records.  
Various types of registrations, eg. Corporate, Scheme, Staff, Level etc.  
Additional ID for IPD registration.
2. Admissions / Transfers / Discharges  
Schedule Admissions, Transfers, Discharges.  
Search, Confirm Admissions, Transfers, Discharges.  
Reschedule Admissions, Transfers, Discharges.
3. Services & charges  
Additional services provided in each room / class.  
Charges levied for individual service.
4. Reception / enquiry help  
At-a-glance patient info ( registration, Admission, Transfers, Discharges )  
At-a-glance hospital info ( Vacancies, Occupancies, Under maintenance rooms etc)  
Appointments' help.
5. Ward Management  
As per requirement.
6. MIS (Management Information Systems)  
Analysis of the data mined to convert info meaningful info required for informed decision-making.  
Basic MIS of utilization, category-wise revenue generation daily, periodically etc in-built.  
Special analysis, report-generation as per requirement.



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### + Out Patient Department

Basic front desk module which assigns each patient with a unique lifetime registration ID to enable easy data retrieval anytime. Registration contains all mandatory demographic details of the patient. Registration can be for general patients, for corporate clients as well as staff / scheme enrollees.

Updating / editing of data easily done thru the screens. Registration can be for clinical consultation, diagnostics, corporate health check-ups, immunization camps etc & are cross linked with referring doctors, visit details, appointments scheduled etc. At glance info of appointments taken, confirmations, rescheduling possible from reception / registration desk.

### The Out Patient Department includes the following sub modules

1. Central Registration
2. Appointments
3. Reception and Enquiry Help
4. Billing and Cash Management
5. Management Information System (MIS)

### Complete details for each sub module is given below

1. Central Registration  
(ID given to patient is lifetime ID)  
Add Update, View, and Search Records.  
Various types of registrations, eg. Corporate, Scheme, Staff, Level etc.
2. Appointments  
Maintain database of consultants.  
Consultant timings, days etc.  
Appointment scheduling for patients.  
Search / confirm appointments.  
Reschedule appointments.
3. Reception / enquiry help  
At-a-glance patient info (registration-demographics)  
Appointments' help.  
Generation of print-outs for registration, billing, OPD tickets etc.
4. Billing / Cash Mgmt  
Cash mgmt of the registration for OPD, IPD can be done at this stage itself.  
Generation of bills for registration, follow-up.  
Payment statements for the admin for MIS as per requirement.
5. MIS (Management Information Systems)  
Analysis of the data mined to convert info meaningful info required for informed decision-making.  
Basic MIS of utilization, category-wise revenue generation etc in-built.  
Analysis / report-generation as per requirement.

### + Operation Theater Scheduling

Basic front desk module which assigns each patient with a unique lifetime registration ID to enable easy data retrieval anytime subsequently. Registration contains all mandatory demographic details of the patient. Registration can be for general patients, for corporate clients as well as staff / scheme enrollees. Updating / editing of data easily done through the screens. Registration can be for clinical consultation, diagnostics, corporate health check-ups, immunization camps etc & are cross linked with referring doctors, visit details, appointments scheduled etc. At glance info of appointments taken, confirmations, rescheduling possible from reception / registration desk.



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The Operation Theater Scheduling includes the following sub

1. Registration and Admission
2. Patient Evaluation
3. Cross-Linking with Inventory
4. Scheduling
5. Management Information System (MIS)

Complete details for each module is given below

1. Registration & Admission  
Common from the OPD & IPD modules.
2. Patient Evaluation  
Clinical evaluation of the patient by surgeon.  
Clinical evaluation & approval for surgery of the patient by anesthesiologist.  
Generation of pre-surgery procedure list, consent forms etc.
3. Cross-linking with inventory  
Standardization of each surgical procedure.  
Cross-linking with the inventory.  
Effective control tool.
4. Scheduling  
Scheduling of surgical procedure.  
Cancellation of surgical procedure.  
Rescheduling of surgical procedure.  
Alerts for allocated dates / time of specific resource previously scheduled.
5. MIS (Management Information System)  
Analysis of the data mined to convert info meaningful info required for informed decision-making.

### + Out Patient Department

The inventory management system basically divided into two separate sub- systems

1. Inventory Management Systems ( Pharmacy )
2. Inventory Management Systems ( Non - Pharmacy )

#### Inventory Management [ Pharmacy ]

Complete database of Pharmacy inventory is done according to the generic molecules, as it ensures standardization across health systems. All generics & their respective brands, batch ids & expiry dates, used by the hospital are maintained in a database with the relevant commercial terms applicable from time to time. Generation of goods received note, goods rejected note, purchase order, ward indent, dispatch note etc. Supply made to individual patient as in the case of a chemist shop & to a department / ward for an inpatient.

#### Inventory Management [ Non - Pharmacy ]

Complete database of non-pharmacy inventory like equipment [medical as well as non- medical ] , linen, stationary, sundry items etc. Database of the approved suppliers for each item is maintained with relevant commercial terms & specifications. Each item is located & logged for uptime & downtime, thus tracking its maintenance too. Generation of goods received note, goods rejected note, purchase order, ward indent, dispatch note etc. Supply made to individual patient as in the case of a chemist shop & to a department/ward for an inpatient.

The Inventory Management includes the following sub modules

1. Master Maintenance
2. Inventory Maintenance
3. Enquiry
4. Report Generation

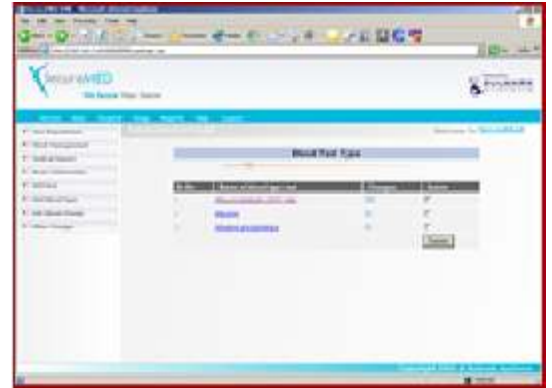


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## Hospital Management System (HMS)

Complete details for each sub module is given below

1. Master Maintenance
  - Item group Master
  - Item Maintenance
  - Manufacturer maintenance
2. Inventory Processing
  - Requisitions
  - Inventory Transactions
  - Issue Items
  - Receipts
  - Item Return
  - Item Disposal
  - Indents
  - Rounding of balance
3. Enquiry
  - Requisitions
  - Batch Details
  - Indents
  - Item Master
4. Reports
  - System Data Reports
    - Item Master
    - Item Group Master
    - Item Master ( By Item Code)
    - Item master ( By Group )
    - Item Master with Price
  - General Reports
    - Pending Requisitions
    - Expiring Batches
    - Reorder Advice
    - Stock Statement
    - Consumption
    - Pending Indents
    - Overdue Requisitions
    - Item Card
    - Issue Register
    - Receipt Register
    - Transaction Notes
    - Print Indents
    - Print Requisitions
  - Print Returns
    - Print Receipts
    - Print Issue



Management



Reports

### + System Administration and Security

This module goes with every module implemented by the client. The system admin module allows the system administrator to set users & their rights [read only, only add new records, modify / edit records, delete records etc] for accessing the HIMS from any given workstation in

The System Administration and Security includes the following sub

1. User Maintenance
2. User Access Maintenance
3. Enquiry
4. Reports
5. Work Station Maintenance



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Complete details for each sub module is given below

1. User Maintenance
  - Add User
  - Update User
  - Delete User
  - Change Password
2. User Access Maintenance
  - Add User Access
  - Delete User Access
  - Change User Access
3. Enquiry
  - System Users
  - Users Access
  - Workstations
4. Reports
  - System Users
  - Users Access
  - Workstations
5. Workstation Maintenance
  - Add Workstation
  - Delete Workstation
  - Change Workstation



Administrator View

### + Laboratory Management

This module performs laboratory tests assigned to the patient and upload the test result so the doctors can directly analyze test and diagnose the patient. Registration contains all mandatory demographic details of the patient. Registration can be for general patients, for corporate clients as well as staff / scheme enrollees. Updating / editing of data easily done through the screens.

The Laboratory Management includes the following sub modules

1. Registration and Admission
2. Patient Evaluation
3. Cross-Linking with Inventory
4. Scheduling
5. Management Information System (MIS)

Complete details for each module is given below

1. Registration & Admission
  - Common from the OPD & IPD modules.
2. Patient Evaluation
  - Clinical evaluation of the patient by chemist.
  - Generation of pre-test procedure list
3. Cross-linking with inventory
  - Standardization of each test procedure.
  - Cross-linking with the inventory.
  - Effective test tool.
4. Scheduling
  - Scheduling of test procedure.
  - Cancellation of test procedure.
  - Rescheduling of test procedure.
  - Alerts for allocated dates / time of specific test previously scheduled.
5. MIS (Management Information System)
  - Analysis of the data mined to convert info meaningful info required for informed decision-making.



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## Hospital Management System (HMS)

### + SecuraMEDICOM

SecuraMEDICOM is a public domain Java image processing program. It runs, either as an online applet or as a downloadable application, on any computer with a Java 1.1 or later virtual machine.

It can display, edit, analyze, process, save and print 8-bit, 16-bit and 32-bit images. It can read many image formats including TIFF, GIF, JPEG, BMP, DICOM, FITS and "raw". It supports "stacks", a series of images that share a single window.

It can calculate area and pixel value statistics of user-defined selections. It can measure distances and angles. It can create density histograms and line profile plots. It supports standard image processing functions such as contrast manipulation, sharpening, smoothing, edge detection and median filtering.

It does geometric transformations such as scaling, rotation and flips. Image can be zoomed up to 32:1 and down to 1:32. All analysis and processing functions are available at any magnification factor. The program supports any number of windows (images) simultaneously, limited only by available memory.



Home Page

Doctor Information



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