



Birlamedisoft Pvt. Ltd
We Care Health Care...
Quanta WebHIMS

Quanta WebHIMS

The Complete Web-based
Hospital Information Management System

Birlamedisoft Pvt. Ltd.

(AN ISO 9001:2008 COMPANY)

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1. ABOUT QUANTA WEBHIMS

Birlamedisoft Quanta WebHIMS V 2.0, Web based Hospital Information Management System is an ERP suite of software modules to computerize any large scale hospital and connected clinics and its branches. It is fully online web based software. The information is available anytime, anywhere. There are plenty of exhaustive modules available in Birlamedisoft Quanta WebHIMS V 1.0, which makes it User friendly, Highly versatile, Quick installable, Completely Database driven, Centralised Database, Hospital Information Management System ERP software available in the market today, Please take a look on the features described below.

Birlamedisoft Quanta WebHIMS V 2.0 addresses all major functional areas of Hospital. The development environment ensures that Birlamedisoft Quanta WebHIMS has the portability and connectivity to run on virtually all standard hardware platforms, with stringent data security and easy recovery in case of a system failure.

Birlamedisoft Quanta WebHIMS V 2.0 provides the benefits of streamlined operations, enhanced administration and control, improved response to patient care, cost control, and improved profitability. The main features of Birlamedisoft Quanta WebHIMS V 2.0 include Modular Structure, Integrated Design, Multi Level Security, Easily Customizable, GUI Based and User Friendly.

2. SALIENT FEATURES

1. Centralised Database system
2. User Friendly design
3. Complete database Driven
4. Easy to be customized
5. Modular Structure
6. Graphical user interface
7. Highly secured, user wise authentication of modules
8. Easy to install, Easy to maintain
9. Voice tutors of complete software operations
10. Graphical Presentation of MIS
11. Single window view to locate patient Billing, Collection, Discharge Detail, Patient Medical History, clinical notes, OT details etc.
12. Package Supports Adaptability & Scalability of Software making it more robust.
13. General and Standardized Health Packages for the OPD & IPD Patients generated.
14. Authentication & Verification of entries through Audit Trail Facility.
15. Easy Query Handling for instant decision of Bed Allocation for Patients, and request for the Bed Transfers.
16. Effective Search Facility to Search any type of Information related to Patient.
17. Graphical Presentation of the Data for Top Management for Analysis.
18. Comprehensive Performance Reports.
19. Built in Work Flow Management for all Functional areas.
20. Multiple Store Accounting.
21. Interface facility with the Smart Card Technology.
22. Interface with the Bar Code.
23. Interface with Biometric Devices



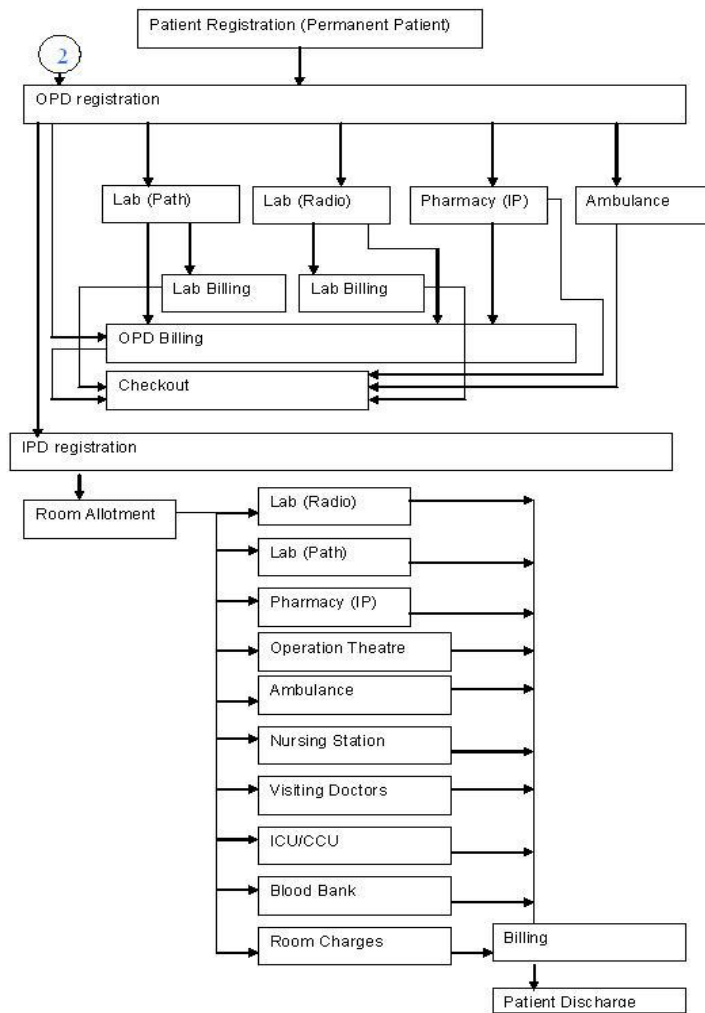
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- 24. Interface with various Laboratory Equipments for Data Capturing.
- 25. HL7, HIPAA Compliance programming
- 26. Connect multiple branches of Hospitals
- 27. Access patient record from anywhere
- 28. ICD 10 Incorporated
- 29. Remote accession of database for instant support

3. SYSTEM FLOW





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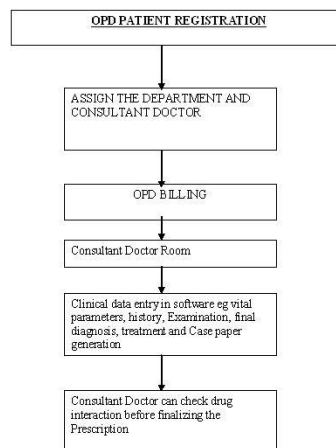
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4. MODULES

4.1 PATIENT REGISTRATION

- **Permanent Patient Registration** - When any patient visits for the first time, we enter the demographic information of patient and generate Permanent Patient registration Number. That number is unique for every patient. This number governs complete software. With the help of MRN (Medical Record no.), we can able to retrieve complete OPD / IPD, history, billing (clinical as well as billing). Information of a patient at any time.
- **OPD Patient Registration** - Every time patient visits to OPD, Patient has unique MRN, now he/she enters into OPD, there they get OPD no. that is OPD Registration of a patient. Then selection consultant doctor, Referral doctor Dr write complain of a patient in OPD.



- **IPD Patient Registration** – Dr suggests patient to admit in a hospital, he/she gets admitted and IPD registration is made, ward/room is selected while doing PD registration.

4.2 WARD / ROOM MANAGEMENT

- Define Room type – General, Semi private, Private, deluxe etc
- Assign room numbers to particular type, describe the floor on which it is situated.
- Occupancy status of wards/ Rooms
- Daily Bed Availability
- Shifting of patient from one Ward/Room to Another Ward/Room.
- Shifting of patient from one Department to Another Department.
- Discharge / Death of a patient will automatically vacate bed occupancy.

4.3 EMERGENCY/ CASUALTY

- Medical Emergency / Accidents will be handled by this module
- Patient can be admitted in casualty ward or can be admitted to other ward.
- After 4 hrs of admission, patient can be shifted to other ward.



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4.4 DOCTORS WORKBENCH

4.4.1 THE DOCTOR'S APPOINTMENT MODULE

- Should keep track of individual doctor out patient OPD & IPD patient's appointment.
- Print daily appointment list of patient
- Facility to assign time slot and days to a particular doctor's schedule in advance.
- Facility to cancel appointment.
- Direct Registration or OPD entry of a patient from appointment list.

4.4.2 CONSULTANT DOCTOR MODULE

- Consultant doctor can see the list of Registered OPD Patient, which is registered for him/her.
- Can able to write complete past history, family history, personal history, professional history, present history and chief complains of patient.
- Write examination of patient.
- Assign Provisional Diagnosis.
- Order investigations (Electronically) , Direct order goes to respective Lab
 - Pathology
 - ❖ Biochemistry
 - ❖ Clinical Pathology
 - ❖ Serology
 - ❖ Microbiology
 - ❖ Histopathology
 - ❖ Cytology
 - ❖ Molecular Biology
 - ❖ Cytogenetic
 - ❖ Immunology
 - Radiology
 - ❖ X-Ray
 - ❖ Ultrasound
 - ❖ CT Scan
 - ❖ MRI
 - ❖ Color Doppler
 - ❖ Stress Test
- Prescribe Treatment to patient
- View Investigation result of a patient (Electronically), Report can be viewed on doctors computer.
- Assign Final Diagnosis
- Doctor can review all previous history, examination findings, investigation report, and treatment given of a patient from his/her computer.

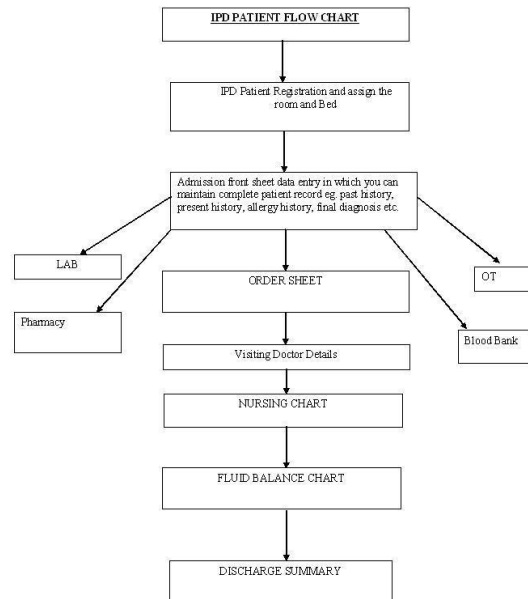


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4.5 IPD PATIENT MODULE



- Admission Front sheet
- IPD Patient History sheet
- IPD Patient Examination sheet
- Daily Progress Chart
- Nursing Assessment chart
- Assign Diagnosis as per ICD 10 list
- Treatment advised by consultant doctors
 - Able to view treatment prescription doctor wise
 - Daily drug prescription
 - Daily non drug prescription
- Complete charting of treatment given by nurse
- IV Fluid chart – it maintain start time, end time, type of fluid given, name of Nurse who has given to the patient
- Input / Output chart
- Order investigations (Electronically) , Direct order goes to respective Lab
 - Pathology
 - ❖ Biochemistry
 - ❖ Clinical Pathology
 - ❖ Serology
 - ❖ Microbiology
 - ❖ Histopathology
 - ❖ Cytology
 - ❖ Molecular Biology
 - ❖ Cytogenetics
 - ❖ Immunology
 - Radiology



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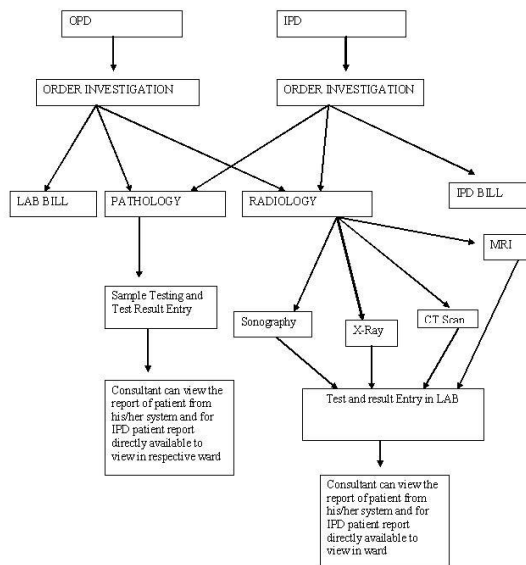
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- ❖ X-Ray
- ❖ Ultrasound
- ❖ CT Scan
- ❖ MRI
- ❖ Color Doppler
- ❖ Stress Test
- ❖ EEG
- ❖ ECG
- ❖ Any new test group can be incorporated immed.

- View Investigation result of a patient (Electronically), Report can be viewed on doctors computer.
- Discharge Summary, Automatically filled and ready when opened.
 - Clinical history
 - Examination Finding
 - Patient Condition at Discharge
 - Reason for Discharge
 - Procedure Detail if Any

4.6 LABORATORY INFORMATION SYSTEM (LIS)

LAB FLOW CHART



- This Module contains Following Modules
 - Biochemistry
 - Clinical Pathology
 - Serology
 - Microbiology
 - Histopathology
 - Cytology
 - Molecular Biology
 - Cytogenetic
 - Immunology



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➤ Any new test group can be incorporated immed.

- Request Comes directly in the lab from Consultant doctor / from ward
- Test Samples of OPD Patient taken in lab
- Test Samples of IPD Patients taken in ward
- Result are entered by Technician / Doctors
- Result are Verified by Doctors before release.
- Investigation Report can be viewed by Consultant doctor in their chamber or in wards electronically.
- Interfacing with lab instruments can be done with our software, so data is automatically entered in software, no human errors can occur.

4.7 RADIOLOGY INFORMATION SYSTEM (RIS)

- This Module Contain Following Module
 - X-Ray
 - Ultrasound
 - CT Scan
 - MRI
 - Color Doppler
 - Stress Test
 - EEG
 - ECG
 - Any new test group can be incorporated immed.
- Electronic Request comes to lab directly from consultant doctor /ward
- Patient viewed by radiologist and enters the investigation result
- Report can be viewed by consultant doctor in their chamber/ward

4.8 OPERATION THEATER MANAGEMENT MODULE

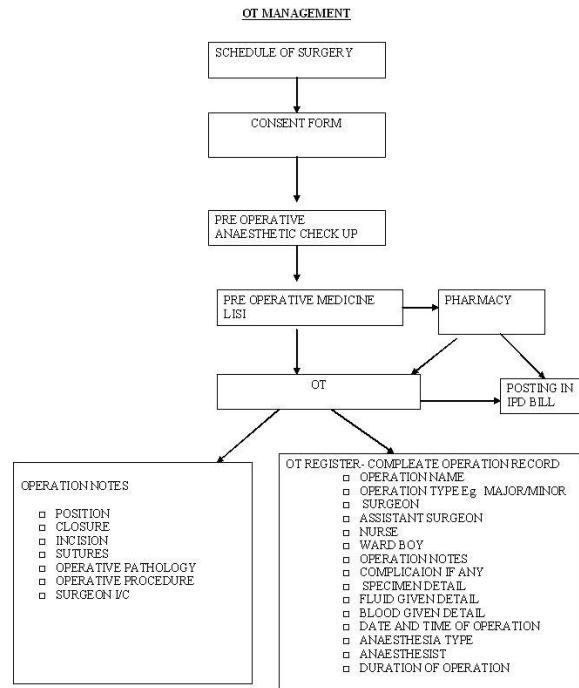
- Can able to define operation by OT name
- Check the availability of time slot for particular OT
- Check the operation list by surgeon name
- Check the operation list by Anesthetist name
- Check the operation list by department name
- Able to search the record of particular patient
- Can able to print complete OT schedule for particular dates



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- It maintains complete record of operation
 - Patients information
 - Operation name
 - Surgeon name
 - Assist. Surgeon name
 - Anesthetist name
 - Nurse name
 - OT boy name
 - Blood given or not
 - How much Fluid Given
 - Swab Counting
 - Any Complication
 - Sample for HPE
 - Operation Notes

- Search OT Register
 - By Date range
 - By Surgeon name
 - By Anesthetist name
 - By Patient ID
 - By Operation name

4.9 CERTIFICATES ISSUE MODULE

- Birth Certificate
- Death Certificate
- Fitness Certificate
- Referral Letter



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- Thanks Letter
- Sickness Certificate

4.10 ROSTER MODULE

- Maintains Duty Chart of all staff
- Can be searched by date range
- Can be searched by staff name

4.11 COMMUNICATION MODULE

- This is intranet-messaging system.
- Any user can send message to other user through the software.
- If receiver is already logged at some terminal, he/she will get message instant message.
- If user is not logged in system, he / she will get message when they will login.
- Doctor can send message to lab for immediate test result.
- Any communication is possible without phone lines.
- File can be attached
- SMS alerts will be incorporated shortly.

4.12 INVENTORY & FIXED ASSET MANAGEMENT

- Hospital have central store, which purchases the items for hospital and maintains the complete stock.
- They can purchase drug items and non-drug items.
- Central store issues the items to wards and pharmacy store of a hospital.
- This module maintains, purchase of items, issue of items.
- Can able to search how many items issued to particular ward/ pharmacy store.
- Stock position of all items in central store.
- Expiry status of drug
- Reorder level of drugs

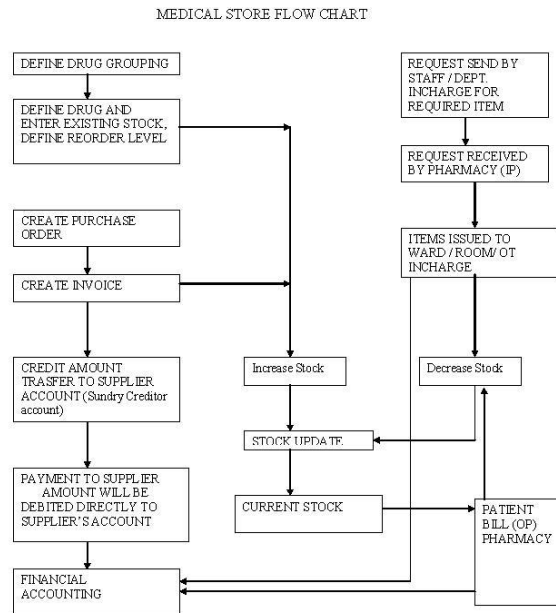


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4.13 MEDICAL STORE MANAGEMENT SYSTEM



- This is the drug dispensing counter.
- It maintains
 - Patient wise drug issue report
 - Date range wise drug issue report
 - Drug wise drug issue report
 - Stock position
 - Complete tracking of particular drug
 - Current stock
 - Expiry date warning of drug

4.14 WARD PHARMACY/INVENTORY MANAGEMENT SYSTEM

- It maintains
 - Patient wise drug issue report
 - Date range wise drug issue report
 - Drug wise drug issue report
 - Stock position of drugs
 - Complete tracking of particular drug
 - Current stock
 - Expiry date warning of drugs

4.15 PHYSIOTHERAPY MODULE

- This module has following features
 - Scheduling of physiotherapy
 - It maintains complete patient record for ex. Which exercise is advised/done



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- Follow up of a patient
- Can able to review the progress of patient

4.16 DIET MODULE

- Daily prescription of diet for particular patient
- Instruction to kitchen about patient diet
- Can able to view complete diet prescribed in particular date range.

4.17 HOUSE KEEPING MODULE (LINEN & LAUNDRY MODULE)

- Keeps the complete records of linen in the store
- Fresh linen issue to wards/OT
- Dirty linen received from wards/OT
- Damaged/ missing linens
- Dirty linens issue to the Laundry
- Clean linen received from Laundry

4.18 PAY ROLL MODULE

- Maintains complete employee Records
- Employee Pay Scale
- Employee Increment
- Employee leaves
- Allowances and deduction for salary calculation
- Salary calculation
- Pay slip Generation



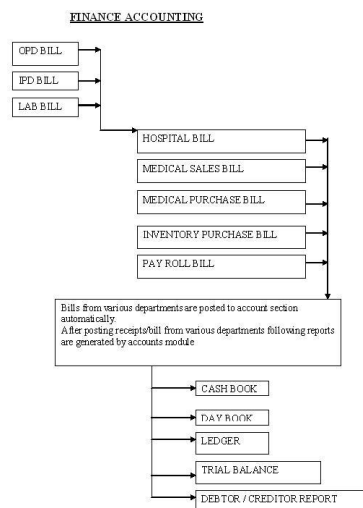
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4.19 FINANCIAL ACCOUNTING MODULE

- The Financial Accounting Module deals with Cash/Bank, Receipt/Payments, Journal Voucher and General Ledger etc. Books like Cashbook, Bankbook and Ledger book can be generated. This module generates reports like Trail Balance, Balance Sheet and Profit and Loss statement. The Financial Accounting Screens describe about the Account Payable, Account Receivable and General Ledger. It also describes the activities related to IPD, OPD and Bank, cost center related activities and keeps track of the Account Receivable and Revenue related activities.



- Automatic transfer of hospital bill/receipts into the accounting module
- Accounts payable / General Ledger / Receivable
- Voucher entry
- Day book creation
- Cash book creation
- Trial balance Generation

4.20 DENTAL MODULE

- Dental history
- Dental examination
- Treatment advised
- Follow up of patient

4.21 BLOOD BANK

- Donor / Blood bag entry
- Patient entry
- Cross match entry
- Blood component generation
- Blood bag issue



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- Blood bag Billing
- Blood camp management
- Inventory Management
- Reports of blood bank. Some of them are :
 - Monthly CMIS Report
 - Donor Register
 - Master Register
 - Issue Register
 - Daily stock book
 - Daily donor records
 - Discard register

4.22 MEDICAL RESEARCH MODULE

- Databank of medical research cases such as record of HIV Positive cases.
- How many turn down to be full blown cases
- Demographic analysis of disease (for ex. Age wise, sex wise, area wise)

4.23 ICD – 10 DIAGNOSIS MODULE

- Complete ICD – 10 lists is incorporated in software.
- Statistical analysis of different diseases interlinked with ICD-10
- Find how many cholera cases found in a period.
- Searching of ICD No. of any disease.
- Searching of Diseases name by providing ICD No.

4.24 DONATION MODULE

- Donation module maintains the records of all donations which are given to the hospital.

4.25 BILLING MODULE AND DAILY TRANSACTIONS REPORTS

- Define patient type, for Ex General, CGHS, Metlife etc.
- Complete databank of CGHS entered.
- Enter bill pattern of any insurance company
- Define bill particulars
- Define bill sub particulars
- Define bill charges depending upon patient type.
- Define bill charges depending upon room type
- Automatic posting of consultant charges
- Automatic posting of operation charges, surgery charges, anesthetist charges etc
- Automatic posting of lab charges
- In wards, nurses can post complete procedures, visiting doctor details, medicine charges. It will automatically when bill is generated.
- Summary / detail IPD Bill Report
- Daily cash register
 - Operator wise
 - Shift wise
 - Patient type wise.
 - Department wise etc.
- Bill wise income report
- OPD / IPD/ LAB wise income report
- Detail lab income Report



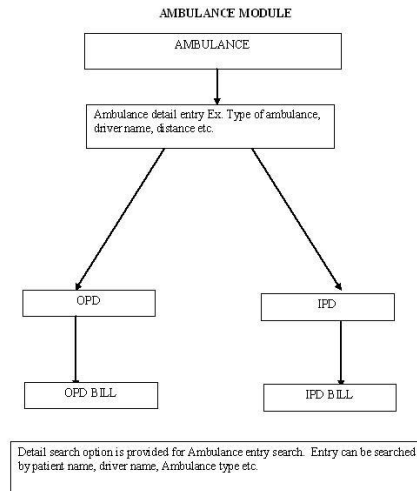
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- Payment by CASH / CREDIT / CORPORATE / TRUST
- See who is currently logged in the system.

4.26 AMBULANCE MODULE



- Define ambulance type
- Complete record of traveling of Ambulance
- Automatic posting of Ambulance Charges
- Records can be searched by patient name, Driver Name, Ambulance Name.

4.27 USER MANAGEMENT & AUTHORITY SYSTEM

- Add/modify user's information.
- Assign authorities to users
- Administrator can assign menu authority to users. For ex. Receptionist can see only menus related to reception
- User login status report

4.28 ADDRESS DIRECTORY

- Complete record of hospital employee, their address, telephone number, email address, Mobile Nos. Bday, Wedding Anniversary etc.
- If a Doctor, what is their speciality.
- Maintains the Record Department wise, category wise
- Searching of person by name, tel no, category, city etc.
- Direct sending Email/SMS to a person.

4.29 BACKUP/RESTORE MODULE

- Administrator can operate this module.
- Password protection to this module
- Only authorized person can perform backup & restore on database.



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4.30 MIS REPORTS

- OPD Patient list
- IPD Patient List
- OPD Summary Report
- Plenty of MIS Reports

4.31 EQUIPMENT MAINTENANCE

- This module provides the facility to keep the inventory of all the equipments/instruments which require regular check-up or maintenance. In this module Annual Maintenance Contract (AMC) records can be maintained along with the service and work orders. This also keeps the history of all previous services done on equipment.

4.32 CENTRAL STERILIZED SUPPLY DEPARTMENT (CSSD)

- The objective of this module is to ensure smooth functioning of a Central Sterile Supply Department in a hospital.
- This module keeps record of all instruments and other material which require sterilization before the surgery or any other procedure. This ensures that all instruments/materials are sterilized and are available at the required time and place for any agreed purpose in the Hospital as economically as possible, having regard to the need to conserve the time of users [especially Doctors And Nurses].

4.33 ENERGY AUDIT

- This module caters to the energy assessment, also known as energy audit, to assess how much energy your establishment consumes and to evaluate what measures you can take to make your establishment more energy efficient. An assessment will show you problems that may, when corrected, save you significant amounts of money over time.

4.34 COSTING

- This module collects, analyses the monitory data/information and prepares the reports which support in improving efficiency, increase effectiveness, enhance sustainability, and improve quality.
- Cost information is part of the basic information needed by senior managers and policy makers for making decisions about how to improve the performance of a hospital, where to allocate the resources within or among hospitals, or to compare the performance of different hospitals to one another. Hospital cost information is derived by relating the inputs of resources in monetary terms to the outputs of services provided by the hospital.

4.35 LIBRARY MANAGEMENT

- This module provides a comprehensive solution for your internal library. It takes care of following functions of a library.
 - Acquisitions (ordering, receiving, and invoicing materials)
 - Cataloging (classifying and indexing materials)



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- Circulation (issuing books/magazines/videos to patrons and receiving them back)
- Serials (tracking books/magazines/videos)

4.36 BUDGETS

- This module helps in setting and managing healthcare organization budgets, it includes:
 - Comparative benchmarks
 - Setting accurate, high-performance department budgets
 - Establishing a culture of accountability
 - Managing expenses
 - Monitoring variances and requiring corrective action plans
 - Employing a balanced scorecard

4.37 HELP DESK

- Help desk provides you the features in finding and quick reporting of very crucial information. This information may be required by patients, their relatives, doctors, nurses etc. The help desk user can quickly search the required information asked by staff within the hospital. Information such as patients ward/bed, doctors availability/schedule etc can be maintained and searched.

4.38 FACILITY MANAGEMENT

- Facility Management module helps,
 - Hospital to develop and execute strategies to achieve specific occupancy and management goals.
 - It also helps in maintaining the records in technical service (Power/electricity, UPS), housekeeping records etc.
 - The reporting and decision making tools help in enhancing the over all operation of facility.

4.39 WASTE MANAGEMENT

- This module helps in managing all sorts of waste generated in hospital during various phases hospital procedures. This module helps in storing different types of wastes and its handling and disposal procedure and alerts at appropriate time if there is a risk of infection.

4.40 PACS & TELE RADIOLOGY

- Birlamedisoft's product MAXIM PACS is a unique, indigenously developed web PACS by Birlamedisoft, which allows distribution of images within and outside the Hospital using, State of the art technology. It does not require installation of any additional software and can be operated directly from the browser providing unsurpassed ease of use from anywhere.
- MAXIMPACS can be easily connected to any digital modality or archival system through existing networks, immediately allowing users with standard PCs to view full-quality, non-compressed images over any type of network connection, including the Internet. Radiologists, clinicians, referring physicians are enabled to use the Viewer to view DICOM images in lossless quality from anywhere at anytime, in real time.