



BTE Consulting Solutions Private Ltd
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BTE Consulting Solutions is founded with the vision of providing quality software solutions in the Healthcare space. The promoters of the company are Doctors and IT professionals with experience of over 20 years in their respective fields.

ATMA HMS is a comprehensive Hospital Management System created by a team of Doctors and Engineers to provide affordable software solutions to Hospitals and Clinics. It enables organizations to optimally manage finance and resources with appropriate controls. ATMA automates much of your hospital operations making hospital management efficient and effective.

ATMA integrates all functions of the enterprise bringing in seamless information flow between various departments within the organization. Multiple check points exist in the system for effective management control. It supports multiple locations and multiple companies. The software's open architecture enables integration with third party software easy.

The solution is based on time tested and proven open source software. This significantly brings down the Total Cost of Ownership making the solution very affordable.

Key benefits organizations derive from implementing ATMA HMS

- 1. Efficient Patient management and a Happy Patient:** The entry of the patient, services requested / provided, accurate billing and patient exit are tracked. Information is in the fingertips of the Front Desk staff to assist the patient. Overall, it provides a very pleasant experience to the Patient
- 2. Effective Distribution of work:** Every Department or Service area uses the application to capture data and view information. This reduces the workload on the Front Desk and Billing Staff



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3. **Seamless integration:** Every module in the application is integrated minimizing the need for paper based communication. Relevant information is available to Department staff
4. **Controlled Access Management (Security):** Every user is provided with a unique user name and password. User has access only to modules and screens for which access has been provided. This brings increased levels of accountability on the employee
5. **Prevention of Revenue Leaks:** Charges are raised before or at the time of providing the service. Every staff providing service has the information to verify the charge before providing the service to the patient
6. **Ease of use:** User Interface is designed in a manner which requires minimum mouse moves or key strokes thus improving employee productivity.
7. **Multi-Location Support:** Single installation of ATMA can support all your hospital locations. This enables the management to monitor the activities in each location. In addition, it also makes it easy to provide technical support

Overview of the Solution

General

1. Template based approach to reduce data entry time
2. Upload any file (documents, images, audio, video, etc.) under respective categories (Prescriptions, Photographs, Examination records, Insurance card, etc.)
3. Ability to review previous visits. Printing of case summary for each visit.
4. Supports drawing on images for Slit lamp / Fundus examination
5. Frequently used list for easy selection
6. Automated data backup to internal or external hard disk where available

Workflow

1. Define your workflow based on your organization setup for handling the patient
2. Assign pre-defined set of activities to each departments



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3. Monitor the status of each activity, time spent by the patient in each department

Front Desk:

1. Patient registration data is captured and patient photo can attached.
2. Current and future appointments

Medical Records Management:

1. All medical records in paper form are maintained in this department.
2. Medical Records issue upon request and returns are tracked.
3. All Medical Certificates are given by this department to the Patient.

EMR

1. Recording Chief Complaints & Presenting Complaints
2. Capture Patient History (General & Ocular)
3. Preliminary Examination by Consultant
4. Define your Case sheet using the available set of EMR Components
5. Multiple case sheet can be associated with each visit of the patient
6. Support for drawing in EMR components where drawing is needed
7. ICD-10 coding for diagnosis and procedures. Custom codification supported
8. Treatment Plan & Reviews which includes Drug Prescription, Glass Prescription, Contact Lens Prescription, Procedure recommendation. Any treatment provided on the premises should also be recorded in the treatment plan
9. Surgery module helps plan surgeries. It captures information with respect to the surgery including pre-operative notes, surgery notes, post-surgical notes and follow-up actions



The table below gives the list of pre-defined case sheet templates, the associated EMR components and their sequence

S.No	EMR Components	Pre-defined Case Sheet Templates											
		Normal	PMT	Single Day Refraction	Infection	Infection Review	Foreign Body	CL Workup	Cataract Workup	Glaucoma Workup	Diabetic Workup	Surgery	Surgery Followup
1	History												
1.01	Chief Complaints	X	X	X	X	X	X		X	X	X		
1.02	Presenting complaints	X		X	X		X		X	X	X		
1.03	Ocular History	X		X					X	X	X		
1.04	Previous Glass Power	X	X	X				X	X	X	X		
1.05	Systemic Illness (Duration and Treatment)	X		X	X		X		X	X	X		
1.06	Family History	X		X					X	X	X		
1.07	Attention (One Eyed)	X		X					X	X	X		
2	Examinations												
2.01	Vital Exam	X		X					X	X	X		
2.02	Visual Acuity (Initial Assessment)	X		X	X	X	X	X	X	X	X		
2.03	Binocular Vision	X		X									
2.04	Slit Lamp	X		X	X	X	X	X	X	X	X		
2.05	Auto Refractometry			X				X			X		
2.06	Subjective Refraction		X	X				X	X	X	X		
2.07	IOP	X		X						X	X	X	
2.08	Dilatation	X		X						X	X	X	
2.09	Auto Refractometry after Dilatation	X		X						X	X	X	
2.10	Retinoscopy												
2.11	Fundus (Optic Disc & IDO)	X		X						X	X	X	
3	Diagnosis	X		X	X	X	X		X	X	X	X	
4	Investigations												
4.01	Keratometry							X	X	X	X		
4.02	Biometry								X	X	X	X	



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Pharmacy:

1. Drugs, IOL, surgical and non-medical items sales. Credit sale for in-patients
2. Store level inventory maintenance with physical stock verification
3. Numerous reports for monitoring stock (minimum stock, non-moving / slow moving / fast moving stock, sales, returns, etc.)
4. Support for multiple pharmacies (OP, IP, Ward, OT etc.) and multiple warehouses

Accounting & Finance:

1. Maintains Cash and Bank Balances
2. Supports OD Bank Accounts and Multiple Cash Accounts.
3. Track of cheques issued and Cheques received and their clearance status (Bank Reconciliation).
4. Receive remittances from billing counters

Accounts Receivable (Billing & Collections):

1. Centralized billing for collections with multiple payment modes.
2. Additional charges can be added during bill finalization.
3. Patient outstanding is tracked.
4. Daily cash remittance to accounts
5. Petty expense payments from the billing counter

Accounts Payable (Payments):

1. Manage vendor payments
2. Vendor invoices posted directly when goods are delivered.
3. Approvals are required to make the payment.
4. Payments cannot be made in excess of available cash or bank balance.



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Insurance Claims Management:

1. Insurance registration and authorization
2. Multiple authorizations supported in case of enhancement
3. Approved amount by insurance is passed to billing for final settlement
4. Claims submitted are tracked until the final payment is received.

Optical Shop

1. Sale of Frame and Lens to patients and general public
2. Sale of sun glasses and other spectacle accessories
3. Real-time Inventory maintenance
4. Barcode support (reading and printing)
5. Receipt and Return of items from/to vendor / manufacturer
6. Job work order for Lens fitting into the selected frame. This includes dispatch of patient orders to the manufacturer, receiving the finished product and verifying the product with the order
7. Supports fitting lens in-house. Damaged lens during manufacture is accounted
8. Replacement of Frame / Lens after delivery in case of customer complaints
9. Supports collection of cash advance and adjustment against final payment
10. Multiple optical shop setup

Contact Lens

1. Sale of Contact Lens to patients and general public
2. Collection of Advance
3. Real-time stock maintenance. Stock reduced at the time of delivery
4. Receipt and Return of Contact Lens from/to Vendor

User Administration & Security:

1. Provide access to the system to users by module
2. New users can be created, passwords can be changed
3. Log of user activity can be viewed.



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Recommended Hardware

Server	Intel Xeon Processor, 4 GB RAM, 2 Nos of 250GB Hard disk, DVD-RW Drive Ubuntu Linux 12.04 OS Support Branded Servers like IBM, HP or Dell is recommended
Back up Disk	External Hard Drive 160GB and above
Client	Intel Dual Core processor, 2 GB RAM, 160GB Hard Disk, Support Windows or Ubuntu Operating System Mozilla Firefox Browser Branded or Assembled
Printers	TVS 250 STAR Printer for Dot-matrix printing Laser / Inkjet printer with Print Drivers for Ubuntu Linux. HP Printers recommended
UPS	Half Hour Battery backup for Server UPS is optional for Client systems. But it is recommended to have one to prevent any hardware problems