EMR Integrated Platform

inforich
technology solutions

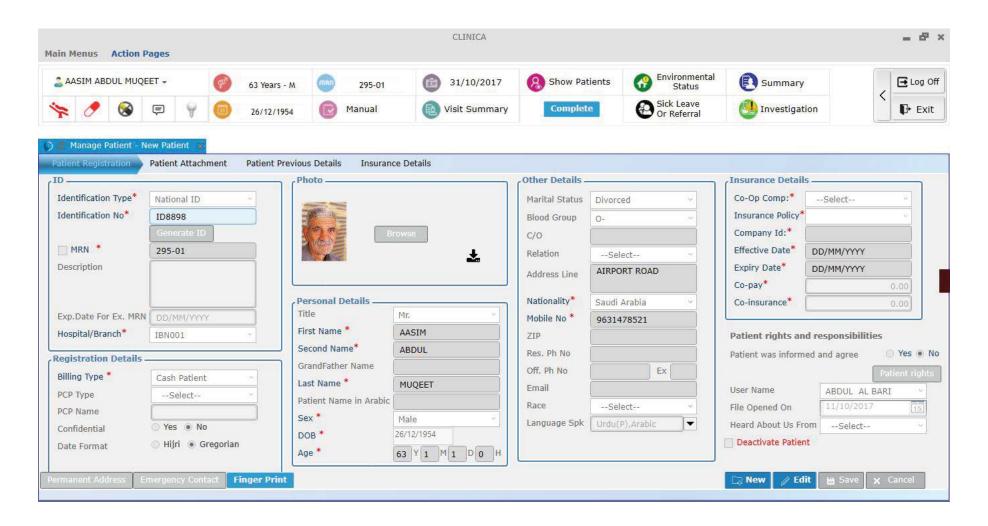**Pioneers in developing the first CBAHI compliant solution**

Product

- The core focus and objective are set on delivering end-to-end solutions that integrate EMR seamlessly with Patient Services, Treatment, and Administration in clinic

- The EMR Integration Platform is an integrated software solution in on-premise and cloud environment for individual units and chain of units

- We follow standards and compliances that incorporate into a dynamic system, and develop data validation that provides interactive and intuitive responses to clinical and non-clinical users

Functionality

- The system is **fully customizable** to meet the requirements of the clinic. Sample screenshots are given in following slides illustrating various tasks.

- Multiple functionalities include:

  - Registration of Patients
  - Making patient appointments
  - Outpatient billing
  - Nurse desk
  - Doctors desk
  - Lab and Radiology
  - Pharmacy
  - General procedures

- The solution is completely cloud-ready for future upgrades. Search tools are available as per requirement and auto popping option is also given.
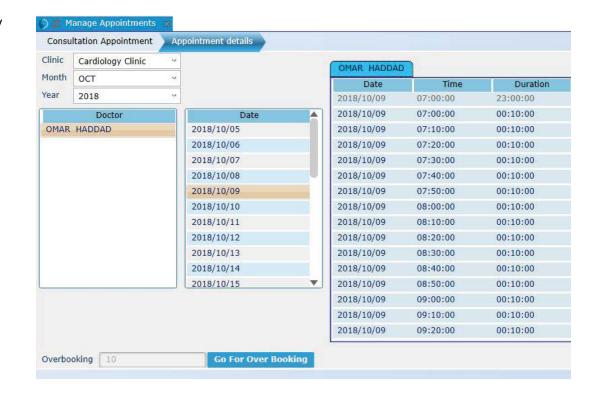
Patient registration

Patient registration

- Patient detailed Demographic details entry with Confidentiality specification

- Patient Registration with Minimal patient details for emergency cases

- Patient Registration Card printing with barcode

- Easy re-registration and patient search with barcode reader

- Patient Insurance/Corporate/Sponsorship details entry

- Medical Alerts and Patient Annotations

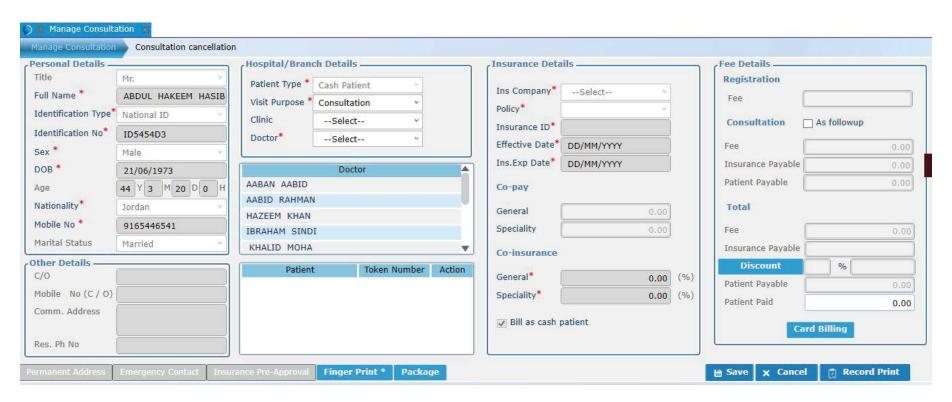- Integration with RFID tags for patient Queue management

Patient appointment

- Template based appointment scheduling

- Defining Doctor Appointment template for a Day/ Month

- Patient Appointment scheduling based on Doctor appointment template for a day

- Cancel or rescheduling patient appointment

- Converting patient appointment to Visit

- Blocking appointment slots for emergency and walk-in patients

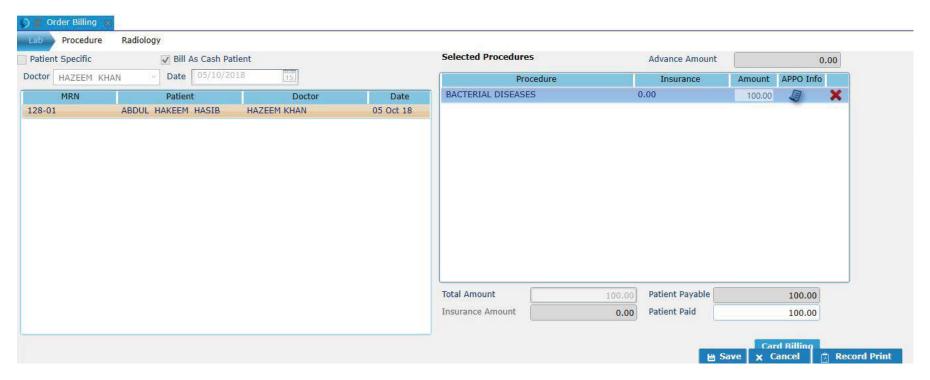- Doctor Schedule Summary and Daily Schedule List

Manage consultation

Manage consultation

- Entering personal details of patient
- Entering details in hospital visit
- Entering Insurance details of patient
- Entering fee details

- Integration of payment gateway
- Scanning biometrics of patient
- Printing previous records of patient
- Discounting patient fees
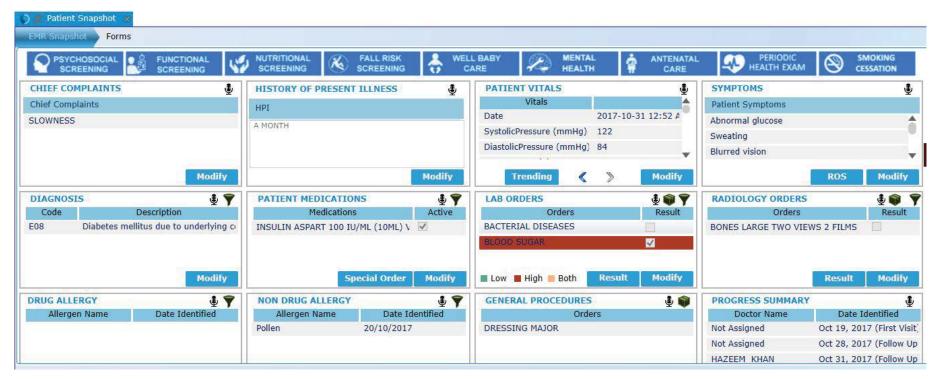
Out Patient billing (Lab)

Out Patient billing

- Consultation and Procedure (lab / procedure / radiology) Billing

- Different Billing Modes

- Patient Billing details and Receipt printing

- Cancellation and repayment of Bill Receipts

- Billing of Procedures requested online from Doctor Desk

- Insurance/Corporate/Sponsor Verifications

- Recurring Charges and Retroactive Billing

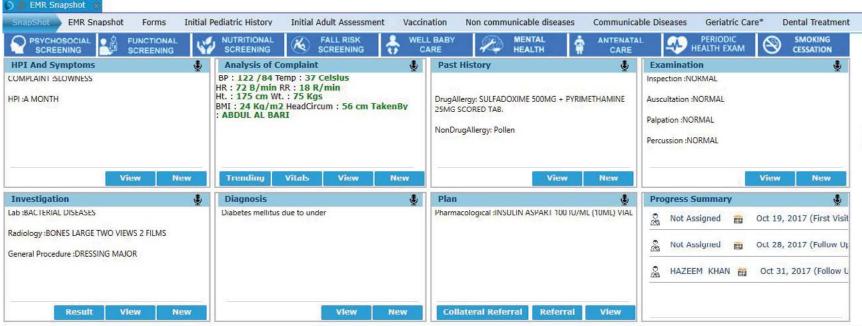- Provision for pre billing and post billing

Manage consultation

OP Nurse desk

- View patients (Booked/Arrived) of a Doctor for the day

- Update Patient Past Medical/Social/Surgical/ Family History

- Enter Patient Reason For Visit, HPI (History of Present Illness) and Vital Signs

- Order for Patient Procedure (Lab/Radiology) in assistance to a Doctor

- Send Online Prescription to Pharmacy in assistance to a Doctor

- Facility to enter the service charges for a specific procedure after or before the procedure completion

- Update Drug Administration details at OP Nurse Desk
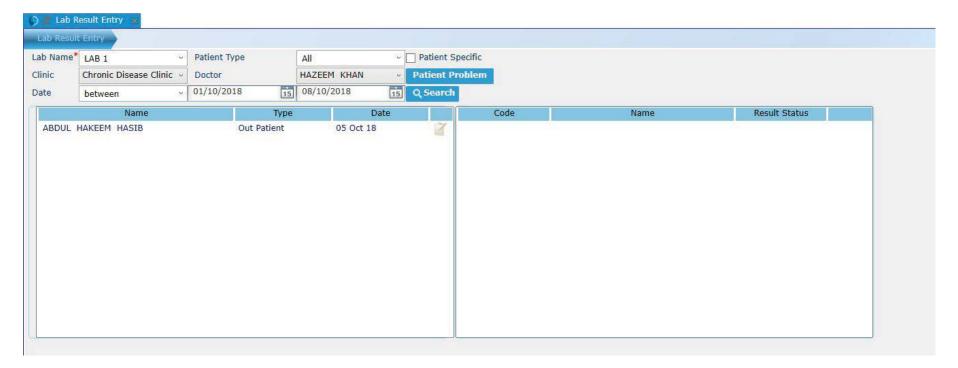
Doctors desk – patient EMR snapshot

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Doctors desk

- View patients (booked/arrived) for the day

- Update patient past medical/social/surgical/family history

- Enter patient reason for visit, HPI (History of Present Illness) and vital signs

- Order for patient procedure (Lab/Radiology)

- Send online prescription to Pharmacy

- Facility to enter the service charges for a specific procedure after or before the procedure completion
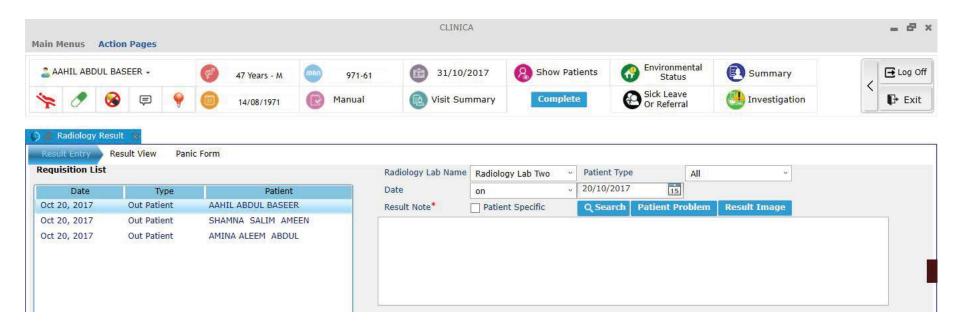
- Update drug administration details

Lab desk

Lab desk features

- Send online Procedure request to Laboratory from Front Desk, Doctor Desk and Nurse Desk

- Option for handling unregistered external patient coming only for Lab Test

- Sample collection and tracking with support of Barcode

- Set reference range for test in gender and age wise

- Enter result for various Lab Tests

- Online review of Test result from Doctor Desk and Nurse Desk

- Can attach additional documents and scanned laboratory results for a procedure

- Integration with Lab equipments for online result update
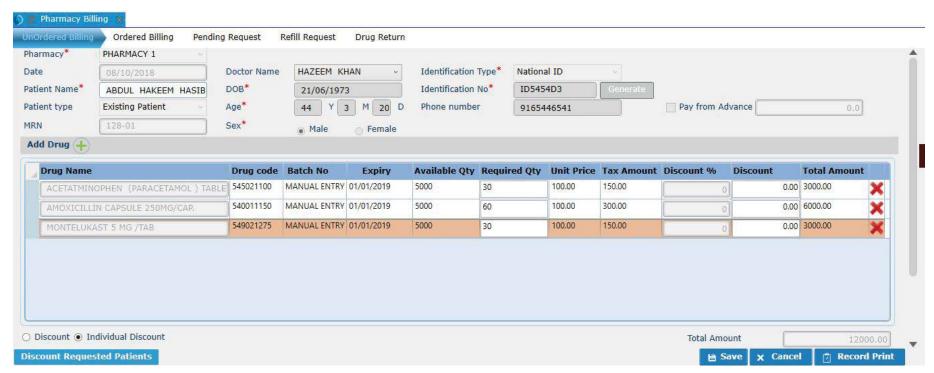
Radiology desk – Result entry

Radiology desk features

- Send online request to Radiology Station from Front Desk, Doctor Desk and Nurse Desk

- Option for handling unregistered external patient coming only for Radiology Test

- Prepare reports for various Radiology Procedures

- Online review of Reports from Doctor Desk and Nurse Desk

- Attach additional documents and scanned images and documents for a procedure

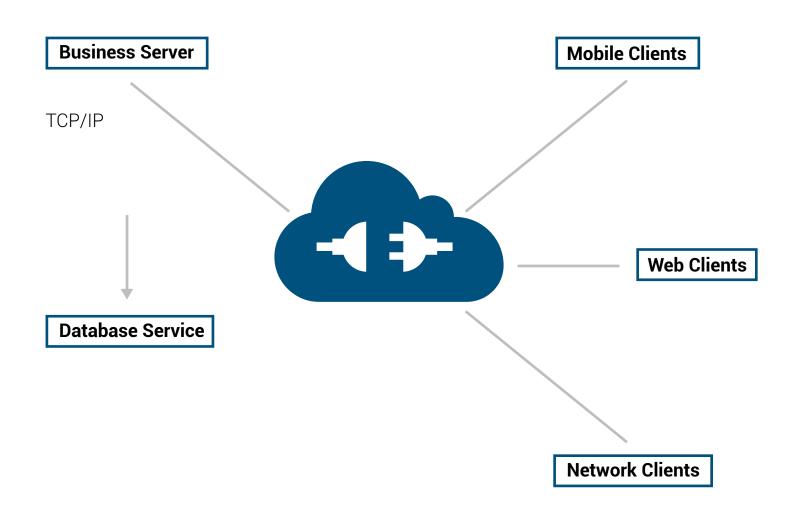- Integration with PACS systems using HL7

Pharmacy billing

Pharmacy feature list

- Send online Drug Request to Drug Stores

- Accept online Drug movement from Drug Store and manage Pharmacy stock

- Facility to add drug position/location hierarchy in pharmacy

- Pharmacy reorder level setting and stock alerts

- Return expiry items to Drug Store and manage Drug return from patient

- View online drug request from Doctor Desk, OP/IP Nurse Desk

- Billing Drug request from Doctor Desk and Nurse Desk

- Direct Billing to patient on printed prescription

- Stock Verifications and stock reports

- This section gives an overview of the application technical architecture. Also, the application is developed with a vision of decoupled centralization to support any level of future enhancement. The system provides different deployment options for the client.

- Keeping the vision of Software as a Service (SaaS) model and Cloud computing which are going to benefit the Clients in the coming future and the data security specifications, the real challenge for the above specified areas, the framework is designed with integrated two-level data security and encryption. The system will not need a third-party SSL certification for this.

System architecture – Physical view

Business Server

TCP/IP

Database Service

Mobile Clients

Web Clients

Network Clients

Implementation environment - Hardware

- Server – minimum 4+ GB Ram and Windows Server Edition

- Client Workstation machines – minimum 2 GB RAM of Quad core processor and Windows 8 or higher for serial port machines

- Separate machines for Application Server and Database. This is for better performance, but is optional.

- Infrastructure consultancy will be provided for the services mentioned: Office automation, Email service, Application server, Storage, Database, work station, printer, scanners, RFID readers, Data center, network equipment, Monitoring network performance, IP Communication, Video monitoring, Video conference.
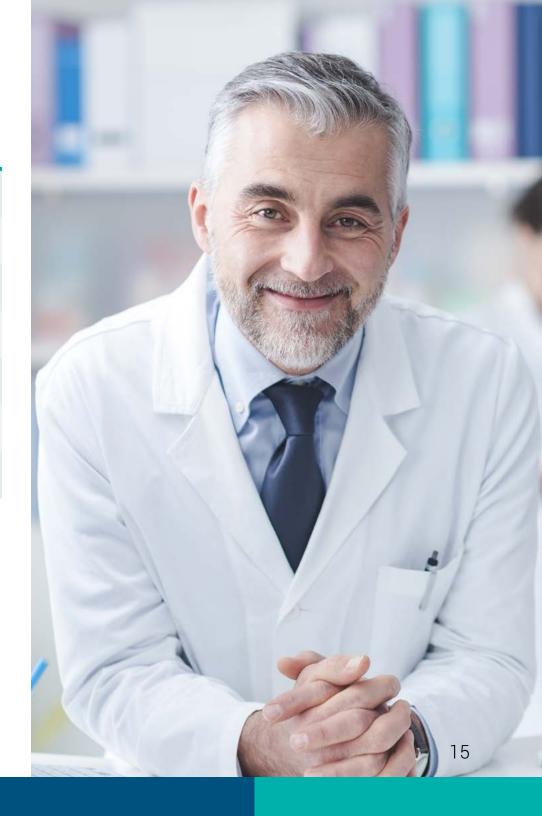
Implementation environment - Software

- The server machine should have the TCP/IP network components enabled.

- The server machine should be installed with .NET Frame work 4.0.

- If the database server and business server are the same machine, the server machine should be installed with Microsoft SQL Server 2012 with Windows Server 2008 or higher.

- The client machines should have .NET Frame work 4.0 installed in it.

- The client machines should have report client redistribution for reporting purpose.

- The client machines should have the third-party driver software if they use any third-party hardware like barcode reader, printer, token number generator, display unit, etc.

Development environment

.NET V 4.0	Development environment
C# V 4.0	Code implementation tool
Crystal report version	Reporting tool
MS Project 2003	Project planning and tracking
MS Visio	Design tool
Visual Source Safe	Version Control
SQL Server 2008	Relational Database

- Windows Server 2008 or above

- MS SQL Server 2008

- NET Framework V 4.0

- Crystal Report client runtime

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