

EMR Integrated Platform

inforich
technology solutions

Connecting the healthcare divide

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

CLINICA

Main Menus **Action Pages**

AASIM ABDUL MUQEET
63 Years - M
295-01
31/10/2017
Show Patients

Environmental Status
Summary

Log Off

26/12/1954
Manual
Visit Summary
Complete

Sick Leave Or Referral
Investigation

Exit

Manage Patient - New Patient

Patient Registration
Patient Attachment
Patient Previous Details
Insurance Details

ID

Identification Type*

Identification No*
Generate ID

MRN*

Description

Exp.Date For Ex. MRN

Hospital/Branch*

Registration Details

Billing Type*

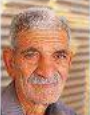
PCP Type

PCP Name

Confidential Yes No

Date Format Hijri Gregorian

Photo


Browse

Personal Details

Title

First Name*

Second Name*

GrandFather Name

Last Name*

Patient Name in Arabic

Sex*

DOB*

Age* Y M D H

Other Details

Marital Status

Blood Group

C/O

Relation

Address Line

Nationality*

Mobile No*

ZIP

Res. Ph No

Off. Ph No Ex

Email

Race

Language Spk

Insurance Details

Co-Op Comp:*

Insurance Policy*

Company Id:*

Effective Date*

Expiry Date*

Co-pay*

Co-insurance*

Patient rights and responsibilities

Patient was informed and agree Yes No

Patient rights

User Name

File Opened On

Heard About Us From

Deactivate Patient

Permanent Address
Emergency Contact
Finger Print

New
Edit
Save
Cancel

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

Manage Appointments

Consultation Appointment Appointment details

Clinic Cardiology Clinic

Month OCT

Year 2018

Doctor

OMAR HADDAD

Date

2018/10/05

2018/10/06

2018/10/07

2018/10/08

2018/10/09

2018/10/10

2018/10/11

2018/10/12

2018/10/13

2018/10/14

2018/10/15

OMAR HADDAD

Date	Time	Duration
2018/10/09	07:00:00	23:00:00
2018/10/09	07:00:00	00:10:00
2018/10/09	07:10:00	00:10:00
2018/10/09	07:20:00	00:10:00
2018/10/09	07:30:00	00:10:00
2018/10/09	07:40:00	00:10:00
2018/10/09	07:50:00	00:10:00
2018/10/09	08:00:00	00:10:00
2018/10/09	08:10:00	00:10:00
2018/10/09	08:20:00	00:10:00
2018/10/09	08:30:00	00:10:00
2018/10/09	08:40:00	00:10:00
2018/10/09	08:50:00	00:10:00
2018/10/09	09:00:00	00:10:00
2018/10/09	09:10:00	00:10:00
2018/10/09	09:20:00	00:10:00

Overbooking 10 Go For Over Booking

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
✕

Manage Consultation
Consultation cancellation

Personal Details

Title: Mr.

Full Name*: ABDUL HAKEEM HASIB

Identification Type*: National ID

Identification No*: ID5454D3

Sex*: Male

DOB*: 21/06/1973

Age: 44 Y 3 M 20 D 0 H

Nationality*: Jordan

Mobile No*: 9165446541

Marital Status: Married

Other Details

C/O:

Mobile No (C / O):

Comm. Address:

Res. Ph No:

Hospital/Branch Details

Patient Type*: Cash Patient

Visit Purpose*: Consultation

Clinic: --Select--

Doctor*: --Select--

Doctor

AABAN AABID
AABID RAHMAN
HAZEEM KHAN
IBRAHAM SINDI
KHALID MOHA

Insurance Details

Ins Company*: --Select--

Policy*:

Insurance ID*:

Effective Date*: DD/MM/YYYY

Ins.Exp Date*: DD/MM/YYYY

Co-pay

General:

Specialty:

Co-insurance

General*: (%)

Specialty*: (%)

Bill as cash patient

Fee Details

Registration

Fee:

Consultation As followup

Fee:

Insurance Payable:

Patient Payable:

Total

Fee:

Insurance Payable:

Discount %

Patient Payable:

Patient Paid:

Card Billing

Permanent Address

Emergency Contact

Insurance Pre-Approval

Finger Print *

Package

Save

Cancel

Record Print

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)

Order Billing

Lab Procedure Radiology

Patient Specific Bill As Cash Patient

Doctor: HAZEEM KHAN Date: 05/10/2018

MRN	Patient	Doctor	Date
128-01	ABDUL HAKEEM HASIB	HAZEEM KHAN	05 Oct 18

Selected Procedures Advance Amount: 0.00

Procedure	Insurance	Amount	APPO Info
BACTERIAL DISEASES	0.00	100.00	

Total Amount: 100.00 Patient Payable: 100.00
Insurance Amount: 0.00 Patient Paid: 100.00

Save Cancel Record Print

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

Patient Snapshot

EMR Snapshot Forms

PSYCHOSOCIAL SCREENING | FUNCTIONAL SCREENING | NUTRITIONAL SCREENING | FALL RISK SCREENING | WELL BABY CARE | MENTAL HEALTH | ANTENATAL CARE | PERIODIC HEALTH EXAM | SMOKING CESSATION

CHIEF COMPLAINTS Chief Complaints SLOWNESS Modify	HISTORY OF PRESENT ILLNESS HPI A MONTH Modify	PATIENT VITALS Vitals Date: 2017-10-31 12:52 A Systolic Pressure (mmHg): 122 Diastolic Pressure (mmHg): 84 Trending Modify	SYMPTOMS Patient Symptoms Abnormal glucose Sweating Blurred vision ROS Modify																		
DIAGNOSIS <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>E08</td> <td>Diabetes mellitus due to underlying c</td> </tr> </tbody> </table> Modify	Code	Description	E08	Diabetes mellitus due to underlying c	PATIENT MEDICATIONS <table border="1"> <thead> <tr> <th>Medications</th> <th>Active</th> </tr> </thead> <tbody> <tr> <td>INSULIN ASPART 100 IU/ML (10ML) V</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> Special Order Modify	Medications	Active	INSULIN ASPART 100 IU/ML (10ML) V	<input checked="" type="checkbox"/>	LAB ORDERS <table border="1"> <thead> <tr> <th>Orders</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>BACTERIAL DISEASES</td> <td><input type="checkbox"/></td> </tr> <tr> <td>BLOOD SUGAR</td> <td><input checked="" type="checkbox"/></td> </tr> </tbody> </table> Low High Both Result Modify	Orders	Result	BACTERIAL DISEASES	<input type="checkbox"/>	BLOOD SUGAR	<input checked="" type="checkbox"/>	RADIOLOGY ORDERS <table border="1"> <thead> <tr> <th>Orders</th> <th>Result</th> </tr> </thead> <tbody> <tr> <td>BONES LARGE TWO VIEWS 2 FILMS</td> <td><input type="checkbox"/></td> </tr> </tbody> </table> Result Modify	Orders	Result	BONES LARGE TWO VIEWS 2 FILMS	<input type="checkbox"/>
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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

The screenshot displays the 'EMR Snapshot' interface with a navigation bar at the top containing tabs for: Snapshot, EMR Snapshot, Forms, Initial Pediatric History, Initial Adult Assessment, Vaccination, Non communicable diseases, Communicable Diseases, Geriatric Care*, and Dental Treatment. Below the navigation bar are icons for various screening and care categories: PSYCHOSOCIAL SCREENING, FUNCTIONAL SCREENING, NUTRITIONAL SCREENING, FALL RISK SCREENING, WELL BABY CARE, MENTAL HEALTH, ANTENATAL CARE, PERIODIC HEALTH EXAM, and SMOKING CESSATION.

The main content area is divided into several panels:

- HPI And Symptoms:** COMPLAINT :SLOWNESS, HPI :A MONTH. Buttons: View, New.
- Analysis of Complaint:** BP : 122 /84 Temp : 37 Celslus, HR : 72 B/min RR : 18 R/min, HT. : 175 cm Wt. : 75 Kgs, BMI : 24 Kg/m2 HeadCircum : 56 cm TakenBy : ABDUL AL BARI. Buttons: Trending, Vitals, View, New.
- Past History:** DrugAllergy: SULFADOXIME 500MG + PYRIMETHAMINE 25MG SCORED TAB., NonDrugAllergy: Pollen. Buttons: View, New.
- Examination:** Inspection :NORMAL, Auscultation :NORMAL, Palpation :NORMAL, Percussion :NORMAL. Buttons: View, New.
- Investigation:** Lab :BACTERIAL DISEASES, Radiology :BONES LARGE TWO VIEWS 2 FILMS, General Procedure :DRESSING MAJOR. Buttons: Result, View, New.
- Diagnosis:** Diabetes mellitus due to under. Buttons: View, New.
- Plan:** Pharmacological :INSULIN ASPARI 100 IU/ML (10ML) VIAL. Buttons: Collateral Referral, Referral, View.
- Progress Summary:**

Not Assigned	Oct 19, 2017 (First Visit)
Not Assigned	Oct 28, 2017 (Follow Up)
HAZEEM KHAN	Oct 31, 2017 (Follow Up)

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 Result Entry

Lab Result Entry

Lab Name* LAB 1 Patient Type All Patient Specific

Clinic Chronic Disease Clinic Doctor HAZEEM KHAN Patient Problem

Date between 01/10/2018 08/10/2018 Search

Name	Type	Date	Code	Name	Result Status
ABDUL HAKEEM HASIB	Out Patient	05 Oct 18			

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

CLINICA

Main Menus Action Pages

AAHIL ABDUL BASEER 47 Years - M 971-61 31/10/2017 Show Patients Environmental Status Summary Log Off

14/08/1971 Manual Visit Summary Complete Sick Leave Or Referral Investigation Exit

Radiology Result

Result Entry Result View Panic Form

Requisition List

Date	Type	Patient
Oct 20, 2017	Out Patient	AAHIL ABDUL BASEER
Oct 20, 2017	Out Patient	SHAMNA SALIM AMEEN
Oct 20, 2017	Out Patient	AMINA ALEEM ABDUL

Radiology Lab Name Radiology Lab Two Patient Type All

Date on 20/10/2017

Result Note* Patient Specific Search Patient Problem Result Image

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 Billing

UnOrdered Billing | Ordered Billing | Pending Request | Refill Request | Drug Return

Pharmacy* PHARMACY 1

Date 08/10/2018 Doctor Name HAZEEM KHAN Identification Type* National ID

Patient Name* ABDUL HAKEEM HASIB DOB* 21/06/1973 Identification No* ID5454D3 Generate

Patient type Existing Patient Age* 44 Y 3 M 20 D Phone number 9165446541 Pay from Advance 0.0

MRN 128-01 Sex* Male Female

Add Drug +

Drug Name	Drug code	Batch No	Expiry	Available Qty	Required Qty	Unit Price	Tax Amount	Discount %	Discount	Total Amount
ACETAMINOPHEN (PARACETAMOL) TABLET	545021100	MANUAL ENTRY	01/01/2019	5000	30	100.00	150.00	0	0.00	3000.00
AMOXICILLIN CAPSULE 250MG/CAP.	540011150	MANUAL ENTRY	01/01/2019	5000	60	100.00	300.00	0	0.00	6000.00
MONTELUKAST 5 MG /TAB	549021275	MANUAL ENTRY	01/01/2019	5000	30	100.00	150.00	0	0.00	3000.00

Discount Individual Discount

Total Amount 12000.00

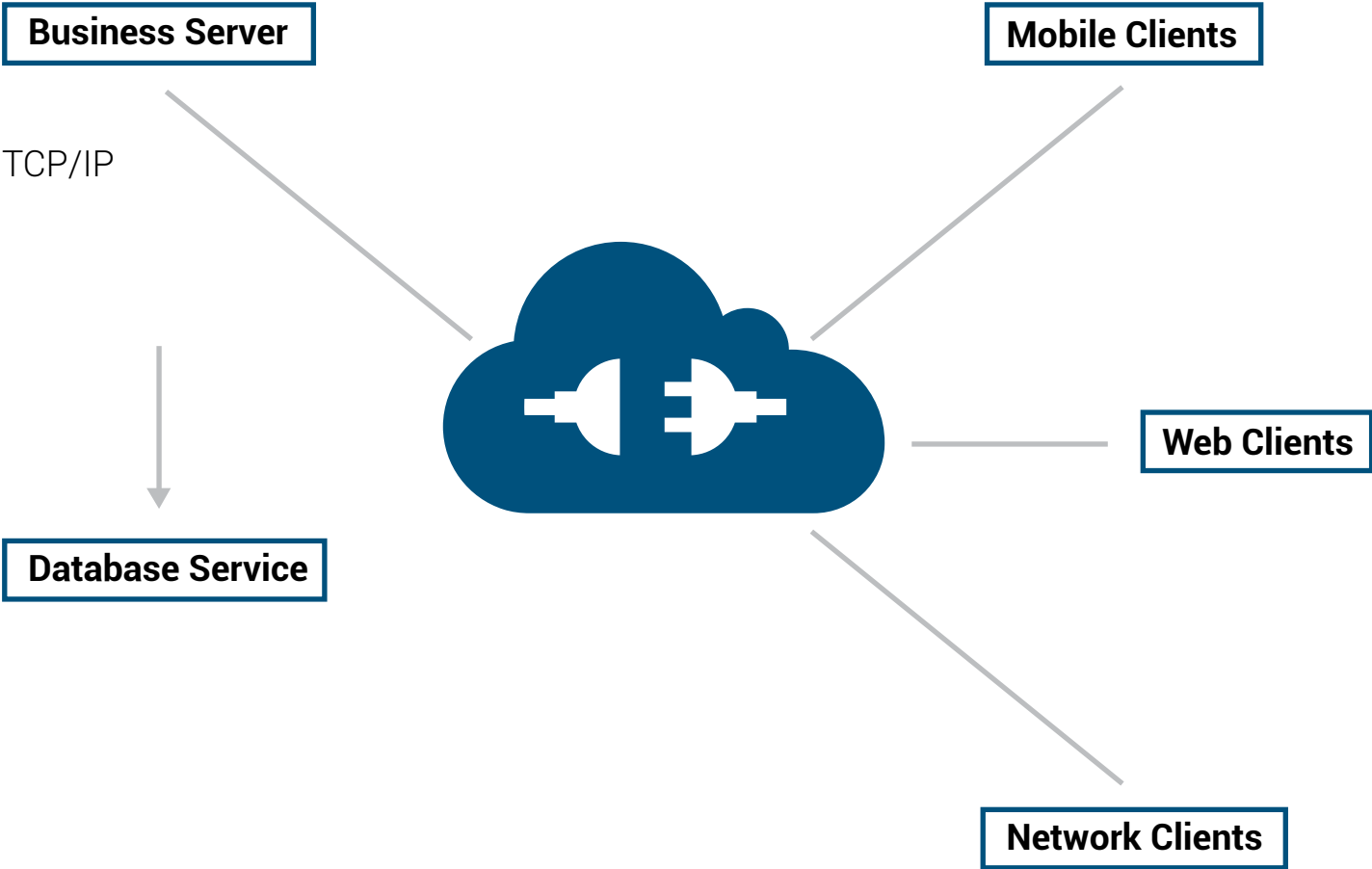
Discount Requested Patients

Save Cancel Record Print

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



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 Framework 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 Framework 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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