Crystal HIS

Crystal Hospital Information System

*C*rystal Technology Bangladesh Ltd. (cTech) follows and implements best practices for ICT development, automation, project management, quality control and quality assurance to ensure that projects are delivered to clients with the highest quality and minimal cost within schedule. Our team consists of highly dedicated and experienced members such as project managers, programmers, QA engineers, documentation specialists, trainers and support personnel who are capable of implementing and sustaining the project in the short, medium and long term.

Crystal HIS

Crystal Hospital Information Systems (Crystal HIS) is an open source and web based software. Which is comprehensive, integrated information system designed to manage all the aspects of a hospital operation, such as medical, administrative, financial, and legal and the corresponding service processing. Crystal HIS is very accurate in its approach and suit all environments including large, medium or small size hospitals. Crystal HIS enables hospitals and doctors to better serve their patients. This system offers paperless environment and accelerate administrative process.

A Complete Solution for Hospital and Diagnostic Center...

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Crystal HIS Modules

01 Registration	12 Operation Theatre Management System
02 OPD (Out Patient Department)	13 Electronic Medical Record Management
03 IPD (In Patient Department Management)	14 Linen & Laundry
04 Laboratory	15 Inventory Management
05 Emergency Department	16 Radiology & Imaging
06 Pharmacy Control	17 Nursing & Doctor Workbench
07 Material Management	18 Human Resource Management
08 Billing	19 PACS
09 Accounts & Finance	20 Laboratory Interfacing System (LIS)
10 Blood Bank	21 User Control Security and Administration
11 Information/Scheduling	

Development Tools
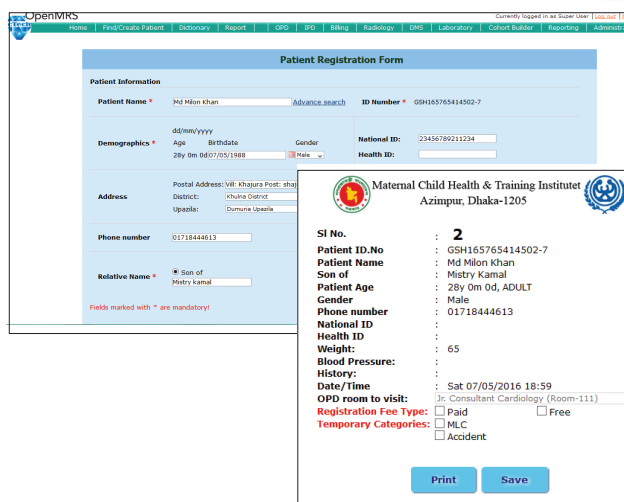
Front end	:	Jquery, HTML, XHTML, JSP
Application Framework	:	Spring
Language Used	:	Java
Data Model	:	REST API
Database	:	MySQL
ORM Tools	:	Hibernate
Reporting Tools	:	Jasper report, BIRT report

Patient Registration & Appointments

This module maintains doctor's appointment (walk in and future), registers patient with relevant information (Hospital ID, Name, Address, Age, Sex, DOB, Photograph etc.) to keep and track records for current and future references.
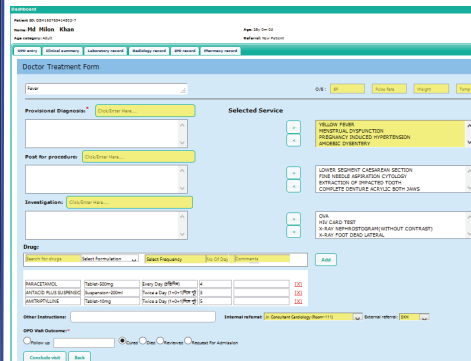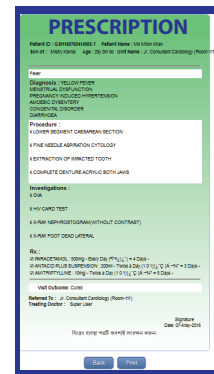
Registration

1. New patient registration
2. Patient details information

   i. Patient ID

   ii. Fathers / Mothers name

   iii. Date of Birth

   iv. Health ID

   v. Birth Registration

   vi. Mobile No.

   vii. Address

Out Patient Management

This module prepared for the physicians to keep detailed record on patient clinical information. It provides opportunity to request required investigation, drugs, diagnosis (ICD 10) and finally generate prescription for the patients.
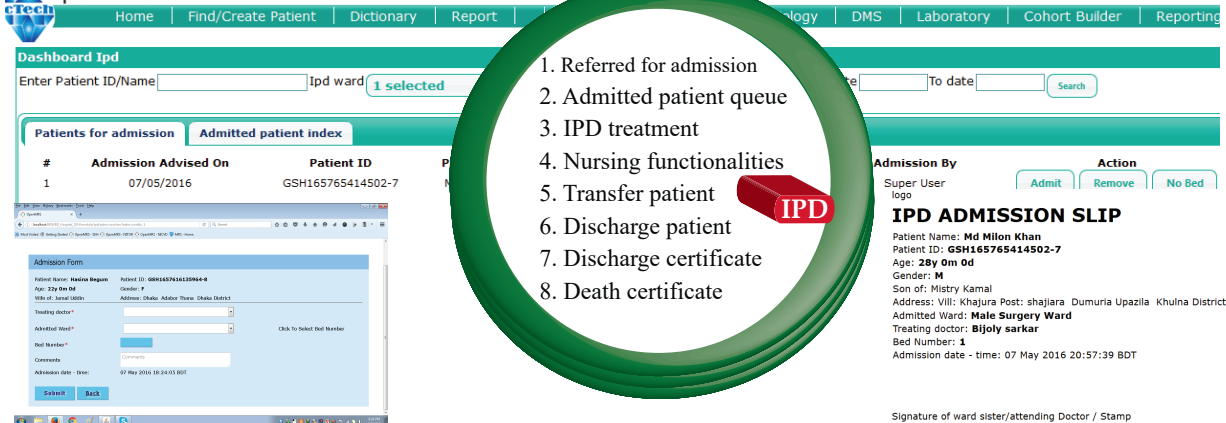

OPD

1. Treatment
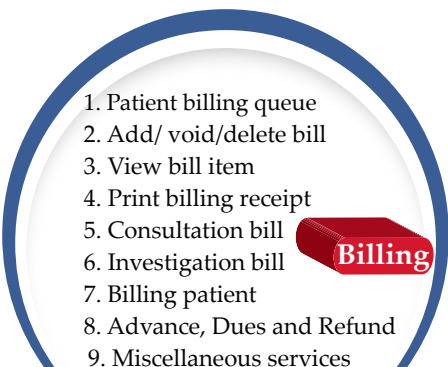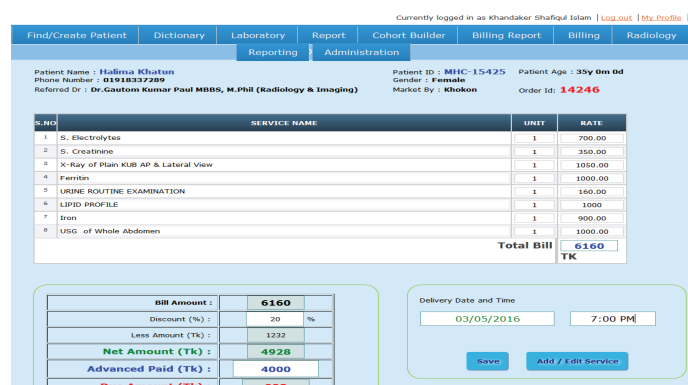2. Observation
3. Diagnosis
4. Post for Procedure
5. Investigation
6. Drug add
7. Admission Request
8. Internal Referral

In Patient (Ward) Management

In patient or ward management module prepared for those patients who were recommended for admission at hospital. This module also provides opportunity to keep record on doctors' visit, patient clinical information, request required investigation, drugs, diagnosis (ICD 10), pathology, imaging and other advises to nurses by using both computer and mobile devices with barcode system. Prepare patient case sheet/summery and patient discharge certificate.

IPD

1. Referred for admission
2. Admitted patient queue
3. IPD treatment
4. Nursing functionalities
5. Transfer patient
6. Discharge patient
7. Discharge certificate
8. Death certificate

Billing

Billing system is highly automated and proven systems that optimize workflow, provide real-time system interoperability, and include robust safeguards that reduce errors, and compliance risk. Our solution is specifically designed to improve the accuracy of claims submissions, increase cash collections, ensure compliance, and supply unique visibility into opportunities for growth.

Billing

1. Patient billing queue
2. Add/ void/delete bill
3. View bill item
4. Print billing receipt
5. Consultation bill
6. Investigation bill
7. Billing patient
8. Advance, Dues and Refund
9. Miscellaneous services
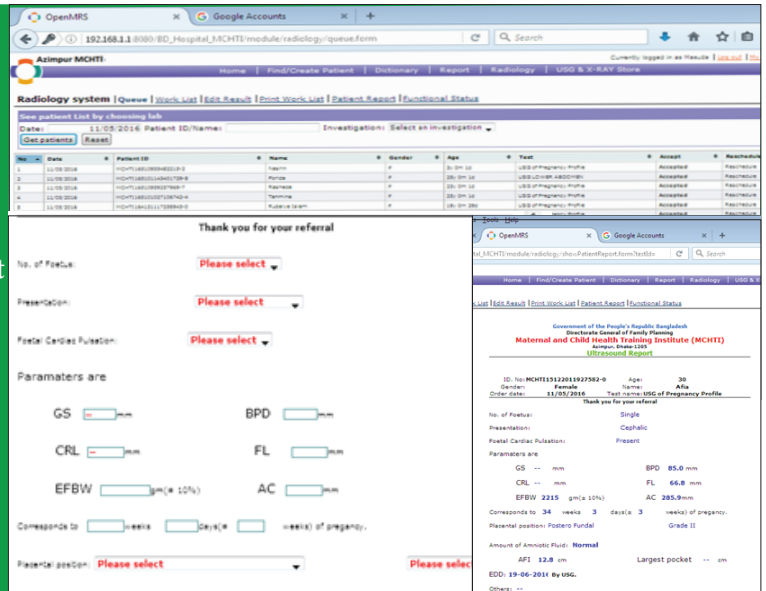
Radiology

Radiology module is one of the important module for Hospital and Diagnostic Center, enabling a center to operate more efficiently in every aspect. With the right suite of solutions, centers are able to create effective workflow, read more images faster.

1. **Patient queue for Radiology investigation**

2. **Accept or Rescheduling**

3. **Input, edit, print radiology investigation result**

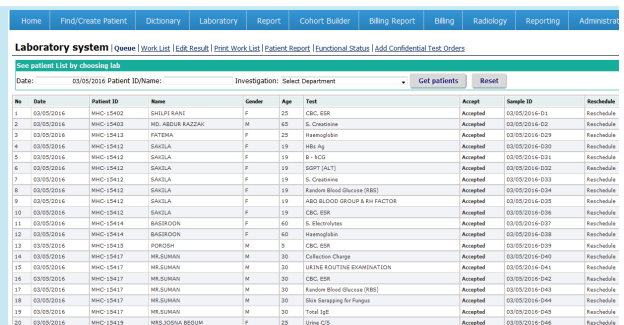4. **Find paient's report**

5. **Functional status**

6. **Integrated with PACS**

Pathology

This module covers all ranges of diagnostic test requested from OPD, IPD and Emergency. It will also generate sample collection label with barcode to reduce human error. Final report will be provided with digitalized signature of authorized person and will be displayed to consultant, emergency ward and nurse station as well as report will be delivered to the patients through email (if any).

1. Patient queue for lab investigations

2. Accept or Rescheduling investigation date

3. Input, edit, print radiology investigation result

4. Find paient's report

5. Functional status (enable/disable) of all laboratory investigations

6. Integrated with LIS

Pharmacy Control

Crystal HIS has identical pharmacy management system for pharmacy. Both the system has the option for placing purchase order of products from central store, distribution to other relevant departments, sale/issue to patients (with instructions) and return to store. This system will allow configuring product details such as setting TP, actual cost price, MRP, sale price as well as alarm expiry data of products. Finally, it creates stock ledger, consumption and requirement analysis of the product.

Inventory

Through Inventory module we can issue and indent drugs or any item. We can easily check stock availability of drugs or items. It has facility to create store as per need.

OT Management

Operation Theater Management System (OT) helps for booking OT, assesses cost of surgery and provides details of pre-post operative diagnosis records and final OT reports.

Blood Bank

This module keep records and provides reports of stock availability of blood, donors data to meet the request of specific blood group for the patients.

Master Health Setup

This module offers one stop services for the patients for regular health checkup. It helps physicians to compile all clinical and pathological records of patients for suggesting diagnosis and advice if required.

Information Desk and Scheduling

Reception is the first point of interaction for anybody coming to the Hospital. We can pick all the information in short about patients, doctors, departments and activities by using this module. It has online and walk in patient scheduling facilities.

Medical Record (MRD)

The purpose for this module is to utilize the patient's medical information and use it for analysis thereby improving patient care. The features of the module are Statistical reports based on diagnosis, age, sex, geographical areas and other parameters, Discharge Summary with details of test reports, Reports on departments, consultants, etc. Birth & Death Records with full details.

PACS

Picture Archiving and Communication System (PACS) is a technology for the short- and long-term storage, retrieval, management, distribution and presentation of medical images.

LIMS

A laboratory information management system (LIMS), sometimes referred to as a laboratory information system (LIS) or laboratory management system (LMS), is a software-based laboratory and information management system with features that support a modern laboratory's operations.

Diet & Nutrition

This system provides opportunity to the ward management staff for sending dietary request for patients to the diet and nutrition department. Then this department will prepare an instruction of menu/ food to meet the required calories and will send it to the food and beverage department/canteen for prepartion and supply.

Finance & Accounting

This system establishes a linkage among all departments to maintain financial issue. It maintain chart of account, financial data posting, cost center wise (account head) general ledger and other entry. It is integrated with General Ledger (GL), Accounts Receivables (AR) and Accounts Payable (AP).

Bed (ATD) Management

This system offers patient's admission record with notification to the respective consultant, transfer provision from bed to bed and doctor to doctor for consultation and provide discharge certificate. This will support to provide information about bed occupancy.

Management Information System (MIS)

This system is truly web based system so any one can easily view all sorts of reports from the compaunter and mobile devices. It has facility to view statistical report of clinical and administrative information to all concerned wing of hospital.

Crystal Diagnostic Management System

Crystal Diagnostic Management System (Crystal DMS) is a fully integrated web based Diagnostic Management System specially designed for diagnostic centers. It consists of several modules that cover all activities of diagnostic center, which includes Patient Registration, Appointments, Billing, Consultation tracking, Investigation, Pathology, Imaging & Radiology etc. Crystal DMS also provides valuable management information in the form of MIS (Management Information System) Reports allowing effective and easy management from smaller operations to global network of Diagnostics Centers. Anyone can view any report through using PDA or mobile phone as well. It can be deployed in any size environment, from a single center to a full-fledged, multi-location Diagnostics center.

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Networking

01 Crystal has an extraordinary record in networking tasks. It also has some high quality professional and efficient manpower to build any kind of networkig infrastructure within a specific time-frame.

Web Development

02 Crystal has a professional web development team for website development an maintenance.

Web Application

03 In computing, a web appliction or web-app is a client-server software application in which the client runs in a web browser. Crystal can also offer consultancy services for web applications.

Data Entry

04 Crystal has an efficient data entry team to provide services anytime anywhere.

Hopital Automation

Diagnostic Centre Automation

IT Consultancy

ICT Training

Software Development

MAJOR CLIENTS

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NIKDU

National Institute of Traumatology & Orthopedic Rehabilitation (NITOR), Dhaka

Sarkari Karmachari Hospital

বাংলাদেশ সচিবালয় ক্লিনিক
Secretariat Clinic

ICT DIVISION

MCHTI & MFSTC
Directorate General of Family Planning

Bangabandhu Sheikh Mujib
Medical University of Bangladesh

Ministry of Health and Family Welfare
Government of the People's Republic of Bangladesh

Government of the People's Republic of Bangladesh
Directorate General of Health Services (DGHS)
Directorate General of Health Services

Dhaka North City Corporation

MHC
Medisun Health Care

MEMBERSHIP

MEMBER BASIS

BCS

e-CAB

DCCI