

Health Examination & EMR System (HE-EMR)



Company: Large Multinational Corporation

Location: Japan

Customer Description

The customer is a medical subsidiary company of a large multinational corporation, whose medical equipment and related software are being sold throughout the world, including Japan, US, The America's, Australia, Asia and Europe.

Business Need

The customer required us to develop an EMR (Electronic Medical Records) and Patient Examination system for the medical centers, hospitals and clinics that use their software around the world. The customer delivered a number of basic requirements, including,

- I An attractive, intuitive and easy-to-use interface
- I Flexible interface and features, so that it can be tailored to meet the different medical centers work processes and have comprehensive data collection support for the doctors to use
- I Have an intelligent data processing capability
- I Save patients annual examination records for comparative analysis
- I Allow for intelligent data sharing between contracted or related medical centers, patients are able to go to any related medical center and their medical history will automatically be available through the integrated data sharing system

Solution Offered

In order to deliver the best solution possible, Intechno needed to research and solve two major challenges;

Firstly we needed to understand the workflow of the different medical centers and discover the major differences between them or issues that needed to be resolved. We then helped to improve these workflows and reflect them into our system design. Our expert spent a month's time researching this and successfully completed the task.

Secondly, how to achieve integrated data sharing between these centers, after completing the detailed analysis, our technical experts designed a set of architectures based on EHR, XDS, ebXML, DICOM, HL7 and solved the question of intelligent integration.

The delivered HE-EMR system provided a whole set of process management features, including,

- I Patient check-up and examination reservation
- I Reception Management
- I Data entry of selected items
- I Data analysis and processing
- I Automatically produce a patient examination report and make payment

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Solution Offered

We designed an “Examination Package” feature for HE-EMR; administrators can tailor a variety of examination packages according to the requirements, such as:

- I Pre-employment physical examination
- I Pregnant women health examination
- I Senior citizens health examination

Each package includes a series of examination items; users can simply select the appropriate package before or during the examination.

HE-EMR provided a convenient historical data search feature, where doctors can easily check to see patient’s past case history and make statistical comparison between the examinations.

We designed practical templates for HE-EMR, used for the following functions,

- I Examination data input and output
- I Generation of examination reports and analysis reports
- I Printing invoices of payments due

We designed a set of customized controls named “Uni-control”, enabling the display of required information to be processed and operated in a single easy-to-use screen, so that first time users can easily understand the input process. Furthermore, in order to make the UI more aesthetically pleasing for the user, we incorporated the use of eye-catching colors and icons.

Using the above features and functions we were able to create an intuitive user friendly interface and system for the customer.

Benefits to Customer

- I Intecho’s time tested methodologies and vast medical software domain expertise resulted in us delivering an intelligent, innovative solution for our customer that surpassed their expectations and provided a robust, powerful platform to be used in their hospitals around the world.
- I The delivered solution provides a cutting-edge EMR system that enables the doctors to easily input patient details into an intuitive interactive electronic panel. Offers assistance with symptom evaluation, past and present medical history examination and analysis, helping to greatly increase the hospitals, medical centers and clinics efficiency and effectiveness.

Technology Used

- C#
- .NET
- XDS, ebXML, DICOM, HL7
- Storing Process
- log4net
- Oracle 10g

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