International Journal of Scientific Research in Computer Science, Engineering and Information Technology
© 2018 IJSRCSEIT | Volume 3 | Issue 4 | ISSN : 2456-3307

A Cloud based Healthcare Information System using J2EE

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ABSTRACT

Our application is a 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. Traditional approaches encompass paper-based information processing as well as resident work position and mobile data acquisition and presentation. This product can used by small hospitals, clinics & health centres for their internal & external purpose. Our application can defined as massive, integrated systems that support the comprehensive information requirements of hospitals, including patient, clinical, ancillary and financial management.

Keywords : J2EE, Healthcare Information System, HIS, PDA

I. INTRODUCTION

Application can be define as massive, integrated systems that support the comprehensive information requirements of hospitals, including patient, clinical, ancillary and financial management. Hospitals are extremely complex institutions with large departments and units coordinate care for patients. Hospitals are becoming more reliant on the ability of hospital information system to assist in the diagnosis, management and education for better and improved services and practices. In health organization such as hospitals, implementation of HIS inevitable due to many mediating and dominating factors such as organization, people and technology. Easy access to doctor's data to generate varied records, including classification based on demographic, gender, age, and so on. It is especially beneficial at ambulatory (outpatient) point, hence enhancing continuity of care. As well as, Internet-based access improves the ability to remote access such data. It helps as a decision support system for the hospital authorities for developing comprehensive health care policies. Efficient and accurate administration of finance, diet of patient, engineering, and distribution of medical aid. It helps to view a broad picture of hospital growth

- ✓ Principals of healthcare info system:
- ✓ Patientdetails
- ✓ Appointment details
- ✓ Hospital purchase invoices
- ✓ Reports

Patient details: All databases contain the following personal details for each patient: first and last names, sex, age on admission in years and months, approximate year of birth and residential address at time of admission. This record has a unique identity number, which makes sure patient treatment histories are link together. Each month, the payment schedule report contains a section detailing the patients we have received a claim for. Although matched to the unique record of that patient, the

details are slightly different. With the presence of a Patient Master Index, patient records are stored in a central location, which can be access by any health professional with the required rights. As demographic information entered centrally, this will reduce the repeated questioning of patients and reduce the number of opportunities of inputting errors and data discrepancies. Once information has recorded on the PMI, it will be available throughout all areas of the system based on highly configurable user rights options.

Appointment details: Sharing appointment information is easy with Patient Appointment Manager. More than one computer can access scheduling information at the same time and changes has been seen instant. With customizable fields, you can track information important to you and your business. Send appointment reminders and messages to patients via e-mail or letter. E-mail employees their appointments for the day for access via any web browser or PDA. Export or print your appointment calendar and reports in various formats, such as PDF, Word, Excel, or HTML.

The appointment form includes fields for all the information you need to schedule an appointment with a patient. Choose or add the employee's name, patient's name, service(s), start and end time of the appointment and much more.

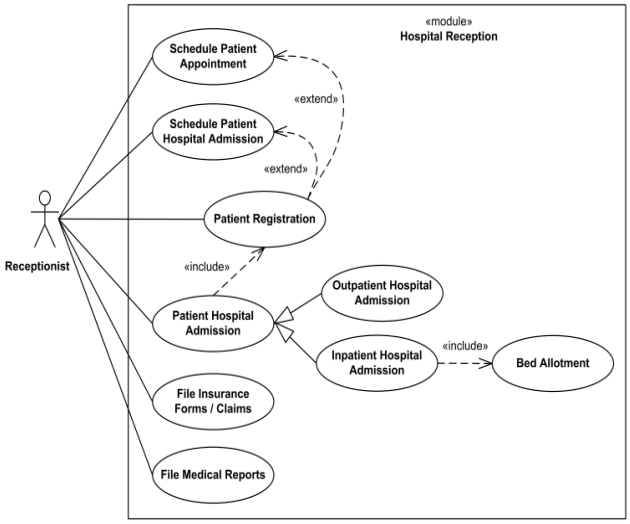

Figure 1

Hospital purchase invoices: Purchase invoice window allows registering and managing supplier's invoices. A purchase invoice is an itemized statement of the medicine or services provided by a vendor or supplier. It indicates the quantity and price of each product or service provided or to be provide. Suppliers could send the corresponding purchase invoice/s together with the delivery note/s attached to the medicine, that implies that a "Purchase Invoices" can been automatically generated from the "Medicine Receipt" window, but it could be that is not the case, therefore a purchase Invoice can also be created from scratch in the "Purchase Invoice" window. Hospital sales invoices: Sales invoice window allows issuing and managing customer's invoices. Sales Invoice is an itemized statement of medicine or services provided to a Patient. It indicates the quantity and price of each product delivered. Transaction document defaulted as "AR Invoice" or Sales Invoice document type, which can be manually change to either "AR Credit Memo" or "Reversed Sales Invoice".

Reports: Application can generate different types of reports-Bed Status & Monthly Bed Occupancy Report. Department wise & Service Head wise Revenue. Stock Movements of items from store and pharmacy. Doctors, Commission & Test wise Commission. Diagnostic Test Count. Payments Outstanding, Income for the Period, Diagnostic Test Listing & Patient Registration. Admission Related Information, Discharge Related Information & Doctor wise Revenue. Bill status and bill pending status of current patient. Generate order level item list of store and pharm

II. CONCLUSION

The required administrative needs of any hospital can be proper structured with the help of our application as it provides a company has integrated information system that will synchronize all the activities in *respective* of departments and users. The

system is designed for different aspects of Administration where we require a proper channel in between different departments that has to be control for various operations whereas even all the services activities can be properly organized with simple understandable functionality provided. The super administrator will add multiple groups those who will be having different aspects of working accessibility rights that will be undertaken as according to the requirements.

III. REFERENCES

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