Paper Less Hospital Service

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Abstract:-

Paperless Hospital Service is a system which is to register and store patient details/doctor details and retrieve these details automatically. In this project the data will be entered in electronic format by anesthetists in the hospital. This automatic updating process saves lot of time, work and gets information within no time. The main objective of this paperless hospital management java based project is to leverage the paperless service where patients need not do any paperwork while admitting the hospital. To provide patient and doctors a automated service which saves lot of time. To develop software this is user friendly, simple, fast, and cost – effective.

I. INTRODUCTION

Paperless hospital system is a java based project used to computerize the front office management of hospital automatically. This project deals with the collection of patient's information, diagnosis details. While the system output is to get these details on to the monitor when required by the management, and also to manipulate these details meaningfully.

This system gives a unique id for every patient and stores the details of every patient and the staff automatically. User can search availability of a doctor and the details of a patient using the id. In this system user can be entered using a username and password. It is accessible either by an administrator or receptionist only they can add data into the database. Many general hospital practices are they are maintaining patients records in papers or documents so that managing those bundle of records is very difficult to manage in future like: delay when transferring paper medical records. Information can be shared difficult. Less security and confidentiality because it is readable every one. Modify of data very difficult. Increase costs of storage space.

There are many Different document-related activities that can be analyzed for investigating the practical implications of migrating towards a paperless medical organization. For example, analysis of the preoperative risk assessment (PRA) form can illustrate how the practical use of documents by medical practitioners can often fundamentally be at odds with organizational aims and purposes. Data entry into electronic format by anesthetists using the PRA form is tedious and an additional activity that is required purely for reasons outside the local concerns of the medical professional.

Modules:-

This application consists following modules.

Patient/Relative

Patient will go to hospital and get admitted by giving their information to the Admitting Clerk. If Patient is in serious state, relative will help in giving information about the patient to the Admitting Clerk. If the incoming patient is New, then Admitting Clerk will create a new record in Web Portal and store the patient information by collecting all necessary details and also about health history. And will provide Patient ID.

Admitting Clerk

Admitting Clerk will assign the In-coming Patient Record to the Department Admin and direct the Patient to meet the Department Admin.

Department Admin

Department Admin will assign the Patient to the respective Department like ENT, ICU, Surgery, etc and also will assign Doctors/Nurses who will be responsible to treat the Patient

Doctor/Nurse

Doctor will get patient information by querying on Patient ID and will conduct series of tests and will update their test report along with comments in the Application

Billing Department

Billing Department will calculate the expense and will be responsible to verify if Patient has Insurance Policy, if so then they will open a secure session to charge the cost to Insurance providers. If Patient doesn't have Insurance Policy, then he must pay either in cash
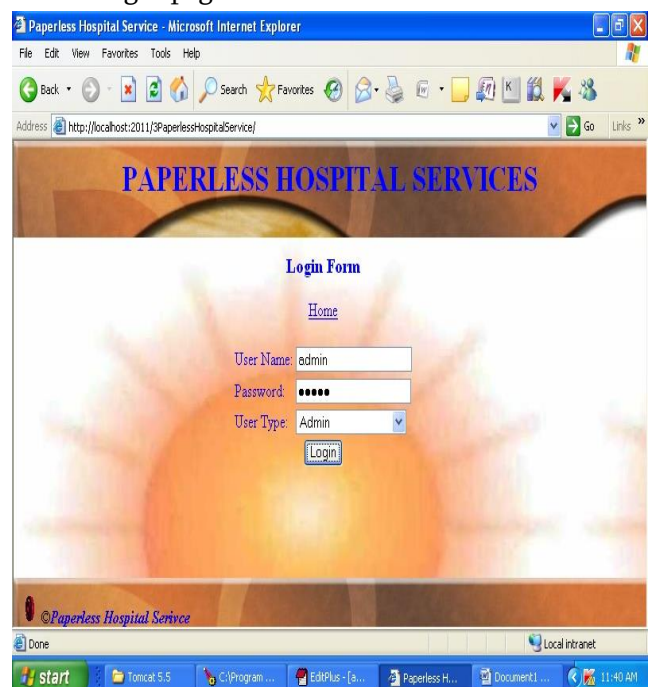
Healthcare Insurance Providers

Insurance Providers will verify the claim and will confirm whether the Insurance ID and policy coverage is valid or not.
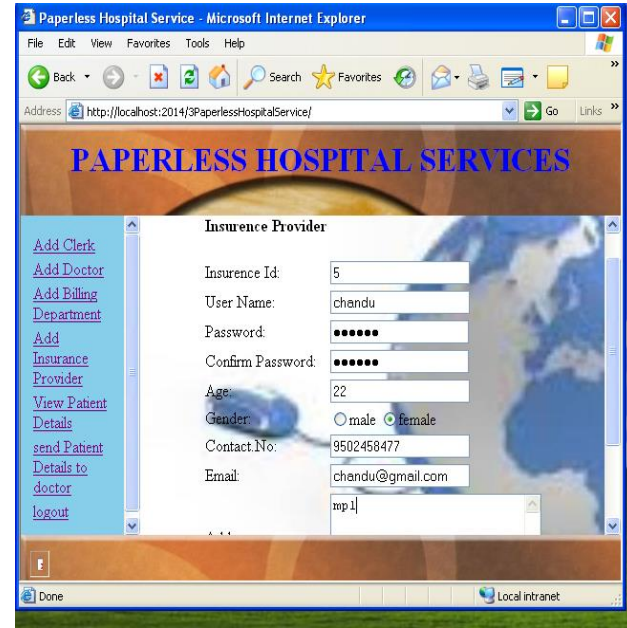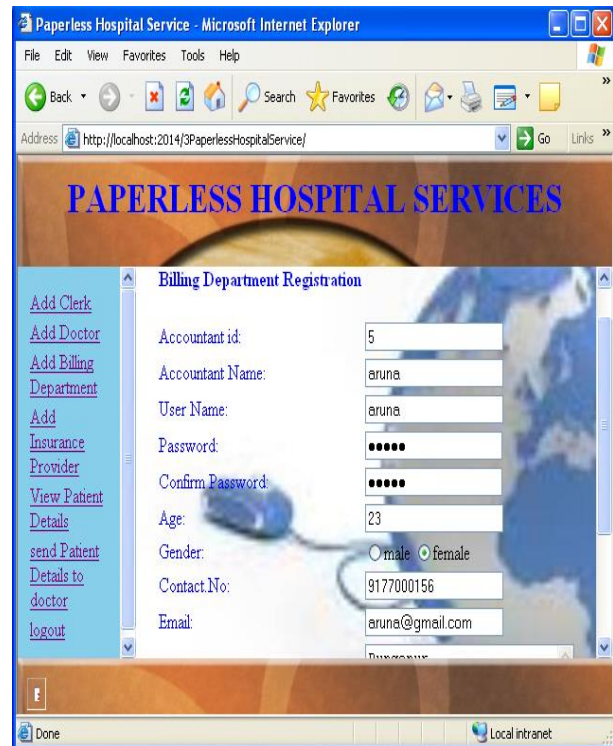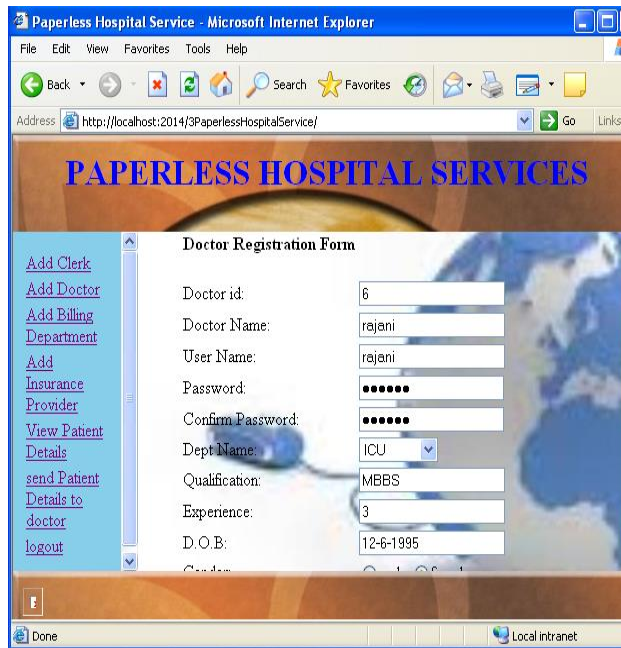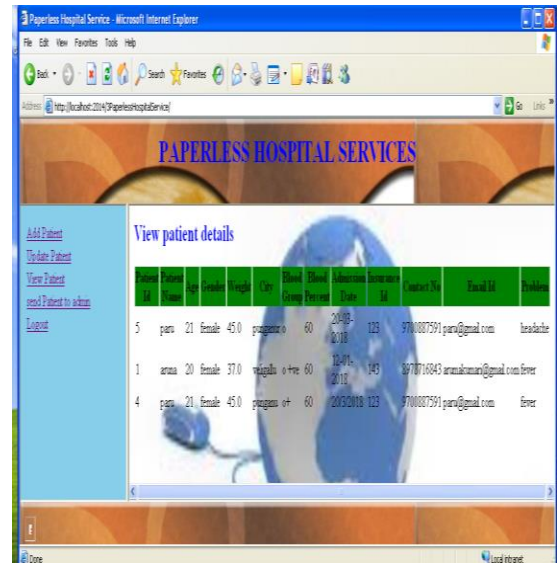
Screenshots:-

Home page

Admin login page

Clerks adding form

Doctor's registration page

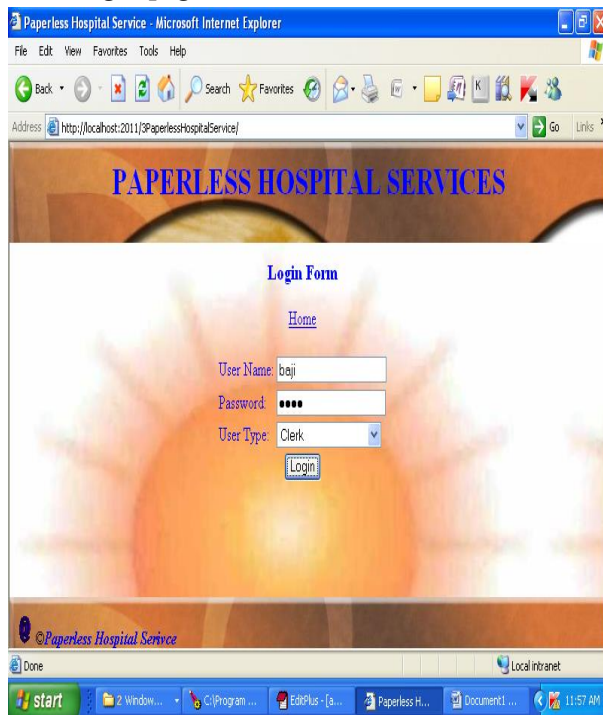Billing department registration page

Insurance provider registration page

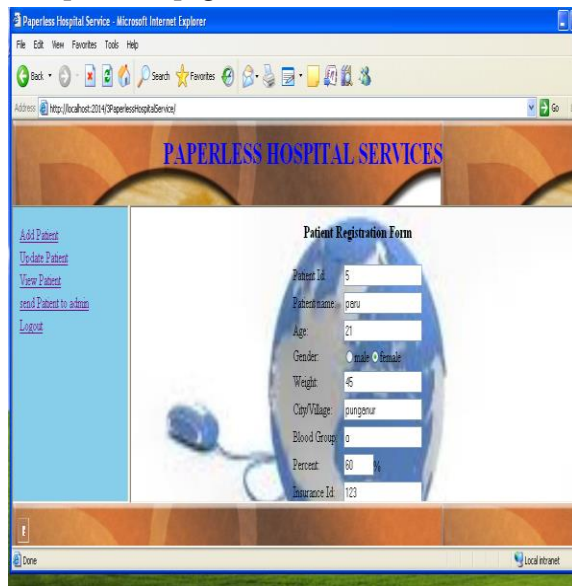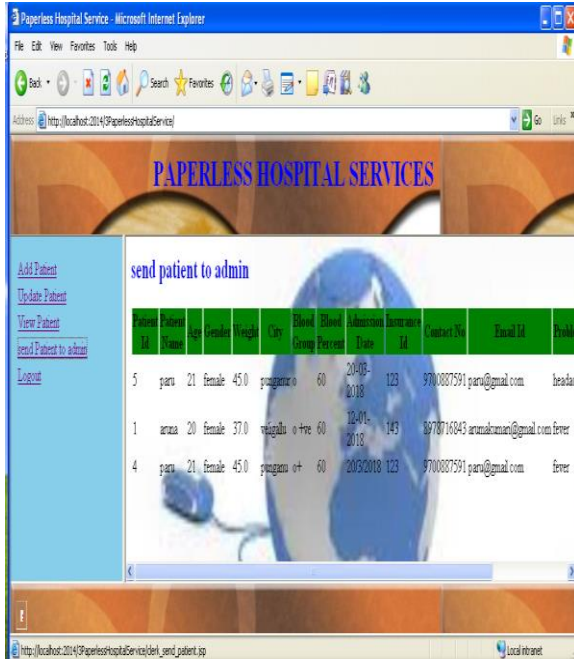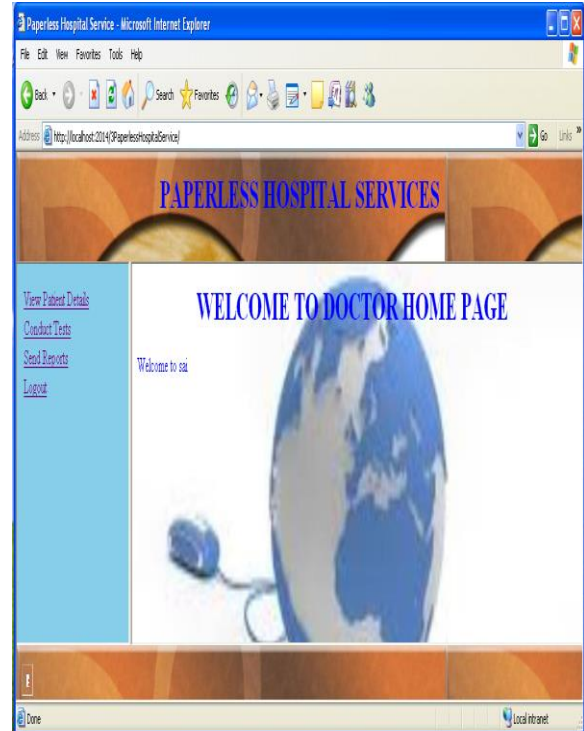Clerk login page

Add patient's page
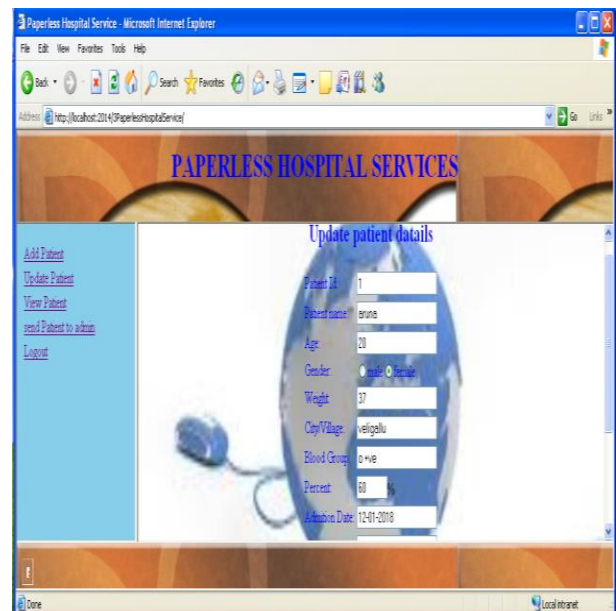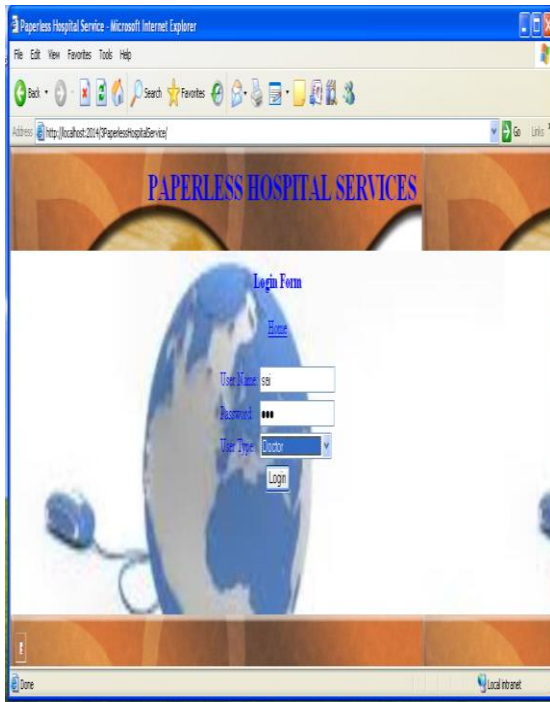

Update patient's page

View patients page

Send patients to admin

Doctor's login page

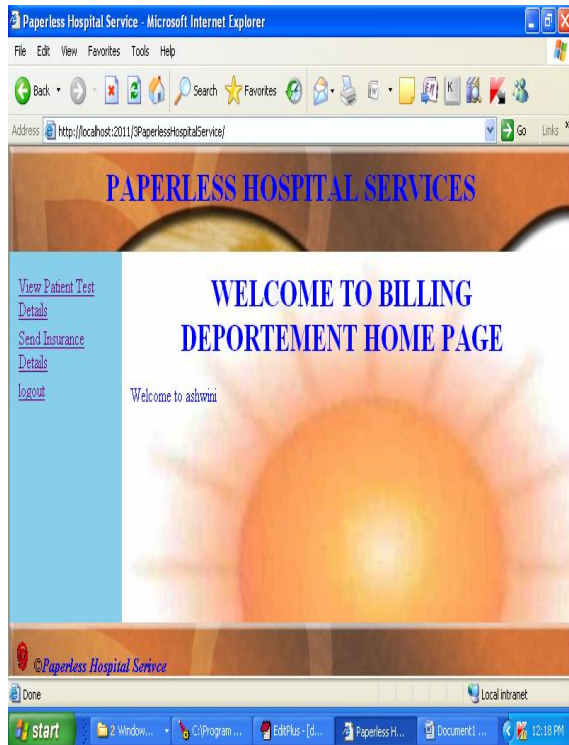Billing department login page
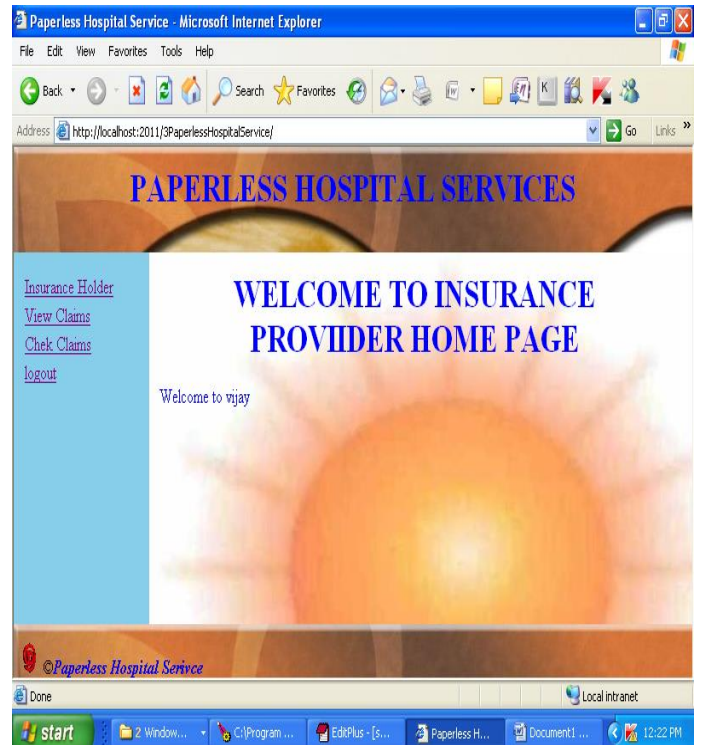

View patients details

Billing department home page

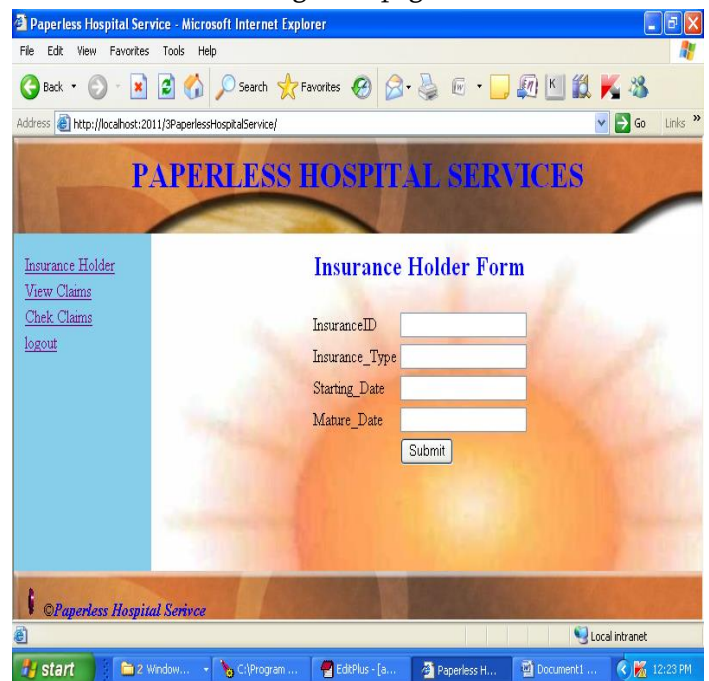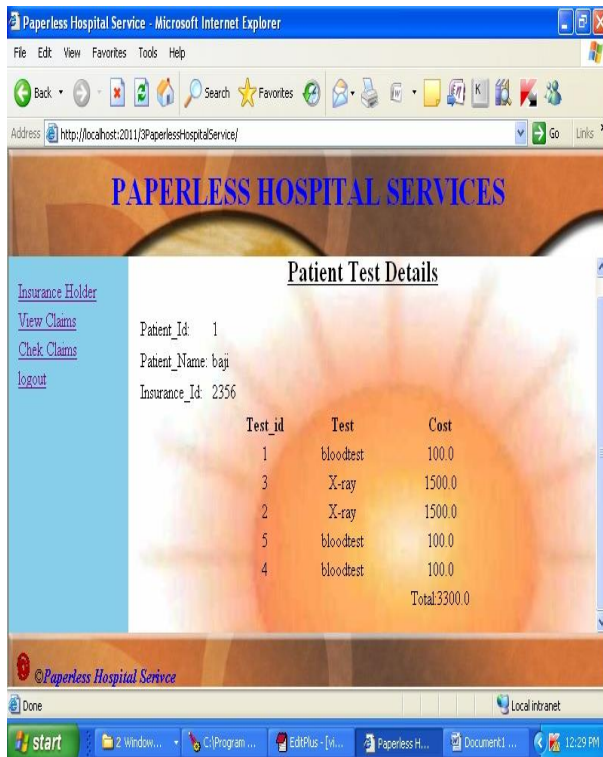Insurance provider login page

Insurance holder adding form page

Insurance provider home page

View claims

[2] JAVA Technologies: JAVA Complete Reference: Java Script Programming by Yehuda Shiran

[3] Head First EJB Sierra Bates

[4] J2EE Professional by Shadab siddiqui

[5] HTML: HTML Black Book by Holzner

[6] JDBC: Java Database Programming with JDBC by Patel moss.

[7] Software Engineering by Roger Pressman

II. CONCLUSION

The whole systems activities are divided into three major parts like patients, doctors, and admin. Each one has their own role to perform and system respond accordingly. Several agents have been created using web services and inter agent communication is done. By using this Paperless Hospital Service there would be no delay in transforming the medical records of the patient to the doctor. Information can be shared easily. This system provides high level security; data modification present in the database will be difficult.

III. BIBLIOGRAPHY

[1] References for the Project Development Were Taken From the following Books and Web Sites.