# DEPARTMENT OF COMPUTERSCIENCE

**ALIGARH MUSLIM UNIVERSITY**

**ALIGARH**



**Synopsis of E-Healthcare System**

**Submitted By:**

**Mohammad Owais**

**20MCA052**

**GJ7490**

**Submitted To:**

**Dr Naved Iqbal**

**Abstract**

Most of the reasons for implementing the EHS (Electronic Healthcare System) focus on improving medical care as a whole for Patient, Physicians and Doctors. However, achieving an excellent quality of best medical care through EMR (Electronic Medical Record) is neither low cost nor easy. Based on our qualitative study on physician practices we have found that quality improvement depends heavily on doctors’ use of the EMRs, not use of papers for their daily tasks. I also identified Key barriers to physician’s use of EMRs and also observed that EMR software becomes useless for doctors due to its complex interface. E-Health System for Outdoor patient is the complete comprehensive solution for hospitals and clinics. This solution caters the full life cycle of modern hospitals and clinics, using this system patients can take appointment form their homes and confirm the availability of particular doctors. A consultant can access the medical record of their patient, and prescribe to their patient using this system.

**Introduction:**

## The rapid growth in Information & Communication Technology (ICT), and the power of Internet has strongly impacted the business and service delivery models of today‘s global environment. Health Management Systems provide the benefits of streamlined operations, enhanced administration & control, superior patient care, strict cost control and improved profitability. Hospital Management Systems are in high demand to handle increasing population needs and also aids the practicing doctors and hospital service and support staff with timely service and precision. There are varied metrics available to assess the performance of services like hospital industry, and the successful implementation and usage of Hospital information system forms a crucial role. My Cloud based web application of E-Healthcare system will provide comprehensive, effective and efficient solution for carrying out management of hospitals and clinics fulfilling the needs and requirements of all stakeholders such as doctors, patients and staffs

## Objective:

The E-Health Management System has following goals:

* Authorize doctors and assisting staffs to access the medical history of patient efficiently
* Appointment and reminder system for Patients
* To build a built-in medical solutions repository on the basis of historical and statistical data
* To let the doctors and surgeons build their profile and personal repository in which they may store their routine medicines names, precautions instructions and can take required help from this repository later when needed.
* Generate reports for researcher of the epidemiology

**Existing System:**

## There are couple of Hospital Management Software are currently present, I will discuss two of them as follows: 

## Hospital Management Software (Tirupati International) 

## INSTA HMS Hospital Management System (ACG Infotech)

## Common Features:

## All these systems have the following common functionalities

## ****Proposed system:****

The proposed Online Library Management System project will help the students and librarian to maintain the details of the library. A student can view the details of the book issued by them, and the system will notify the students about the last date of submission of books. Student can search book availability without going to library, their location in the library and number of copy remain in library. And renew the book online also.

**System Description:**

The system comprises of 2 major modules with their sub-modules as follows:

**Admin:-**

1. **Login:** Admin can login with his personal id and password.
2. **Manage Books:**

* Add New Books.
* View Current Books
* Remove Book
* Edit Book

1. **Issue Book:** Keep Issue Book details.
2. **Manage Students Accounts:**

* Active
* Canceled
* Blacklisted

**Students:-**

**Login:** Student can login with his email id and password.

**Search Catalog:** Student search book without going to library, by title, author name and subject and check availability of that book.

**Pay Fine:** Member can pay fine online.

**Reserve Book:** Student can reserve book online and issue after some time.

**Renew Book:** Student can renew book online.

**Tools/Platforms, Hardware and Software Requirements:**

**Hardware Requirements**

Processor : i3 CPU 1.90 GHz

RAM : 4GB RAM

**Software Requirements**

Operating System : Windows 7 or above

Developing Tool : VS code

Database : MySQL

**Language to be used**

Frond End : HTML, CSS, JavaScript

Back End : Python(Django)