



UITS

UNIVERSITY OF INFORMATION TECHNOLOGY & SCIENCES

project name: Hospital Management System

Course Code- CSE 316

Course Title-Database Management System lab.

<u>Submitted by-</u>	<u>Submitted to-</u>
Group Member: Mohammad Shakibul Hasan 2215151115 Sakib Ahmed 2215151123 Batch- 51 Section- c1	Susmita Paul Lecturer, Faculty Of CSE

Introduction:

Hospital Management Database Management System (DBMS) is a software system designed to manage various aspects of a hospital's operations, including patient records, medical history, appointments, staff management, inventory, billing, and more. The goal is to streamline processes, improve efficiency, enhance patient care, and maintain accurate and secure data.

Problem:

- Manual Record Keeping
- Data Redundancy
- Data Security
- Limited Access
- Inefficient Processes
- Communication Issues

Solutions:

- Database Implementation
- Electronic Health Records (EHR)
- Access Control
- Integration
- Automated Processes
- Data Analytics

By addressing these challenges and implementing solutions, a Hospital Management DBMS can streamline operations, improve patient care, enhance data security, and optimize resource utilization within the hospital environment.

Project Scope:

The proposed software product is the Hospital Management System (HMS). The system will be used to get the information from the patients and then storing that data for future usages.

The current system in use is a paper-based system. It is too slow and cannot provide updated lists of patients within a reasonable time frame.

The intentions of the system are to reduce over-time pay and increase the number of patients that can be treated accurately.

In the context in Bangladesh where most of the hospital is not using computerized technology to manage hospital management system, this program will be a perfect way to manage the hospital system. This application contains login form, patient registration, doctor registration. Hospital Management application allow patients to edit their information like patient name, contact number, address, disease from which he is suffering from etc. It can be used in any Hospital, Clinic, Dispensary or Pathology labs for maintaining patient details and their test results.

Methodology:

Analysis:

- system planning and initial investigation
- Information gathering

Design:

- E-R diagram
- database design

coding:

- HTML
- CSS
- MYSQL
- PHP
- JAVA SCRIPT

SERVER:

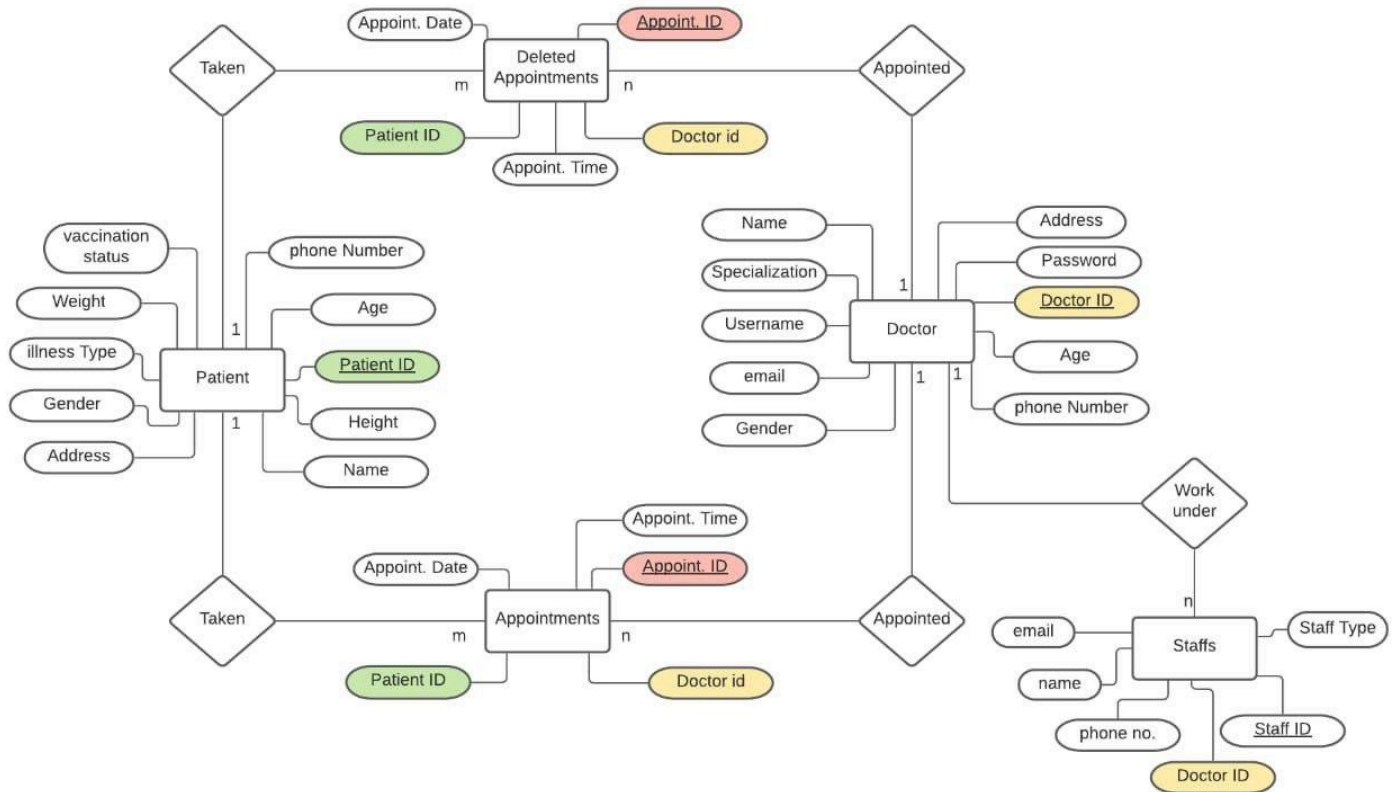
- XAMPP

Goal:

The goal of a hospital management database management system project is to streamline operations, enhance efficiency, and improve patient care through better data management. Key performance indicators (KPIs) to measure success could include:

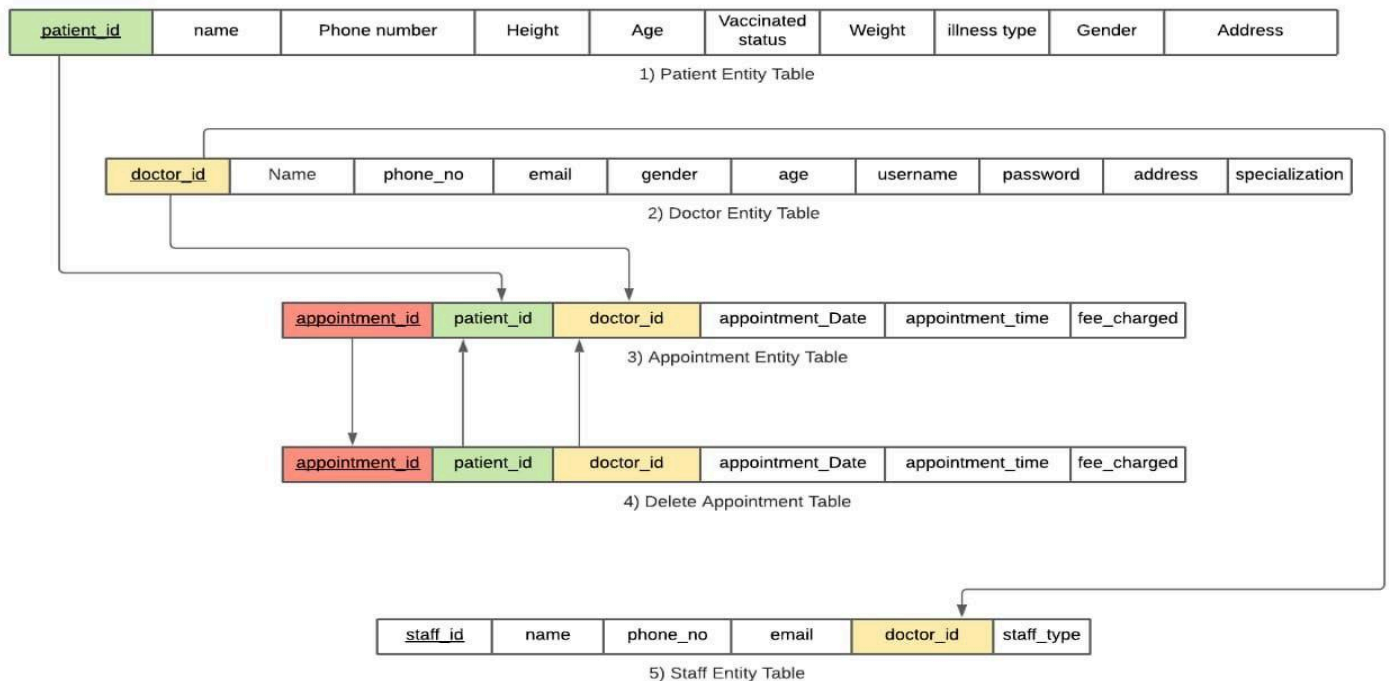
- Efficiency
- Accuracy
- Patient Satisfaction
- Cost Reduction
- Compliance
- Data Security
- Accessibility

ER-Diagram:



E-R Diagram for Hospital Management System

Schema Diagram:



Conclusion:

I chose to work on a hospital management database management system project because it offers a great opportunity to apply my skills in organizing and managing complex data, which is crucial in healthcare settings where patient information must be accurate, accessible, and secure.