



Project Report

COURSE- CSE 202: Database Management System Sessional

Project Name: Hospital Management System

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Project Report

“Hospital Management System”

Chapter 1: Introduction

• Introduction

Health of citizen is the wealth of Nation. Hospital Management database System is a computer base software system automate the hospital management system. It is designed to improve the quality and management in areas of clinical process analysis.

The Project Hospital Management Database System include the registration of patients, Doctors, Nurses, Receptionists and Rooms storing their detail into System by using database. The software has facility to give the unique id to Patient, Doctor, Nurse, Receptionist and room and store their details. Hospital Management Database System have User Friendly interface. This system also has the Queries option.

• Problem: Storage time accuracy efficiency

1. This system is manual.
2. The information is very difficult to retrieve for example to find the patient history.
3. Manually data entry has a chance of inaccuracy.
4. Manual data entry in inefficient
5. Wastage of time

• Solution

1. It will be the Computer base system
2. Data entry become more efficient
3. Reduction Of errors
4. No Wastage of time

Chapter 2: Motivation

The motivation for developing a Hospital Management System (HMS) with a Database Management System (DBMS) lies in optimizing healthcare operations. By streamlining administrative tasks, enhancing data accuracy, and promoting collaboration among healthcare providers, the system aims to improve patient care, ensure financial efficiency, and keep the hospital technologically advanced and compliant with regulations. The use of a DBMS ensures organized and reliable data management, contributing to a more efficient and patient-centric healthcare environment.

Chapter 3: Related works

As of my last knowledge update in January 2022, I don't have specific information on the most recent works or projects related to Hospital Management Systems integrated with Database Management Systems. However, I can suggest general areas where you might find up-to-date information on related works:

1. Academic Journals:

- Explore recent issues of academic journals related to healthcare informatics, database systems, and software engineering. Journals such as the Journal of Medical Systems or the Journal of Healthcare Engineering may feature recent research in this area.

2. Conference Proceedings:

- Look into proceedings from recent conferences on health informatics, database management, and software engineering. Conferences like the International Conference on Health Informatics (HEALTHINF) or the Healthcare Information and Management Systems Society (HIMSS) Annual Conference often showcase cutting-edge research.

3. Online Databases:

- Utilize online databases like PubMed, IEEE Xplore, and ScienceDirect to search for recent articles, papers, and conference papers related to Hospital Management Systems and Database Management Systems.

4. Open Source Projects:

- Explore GitHub and other repositories for open-source projects related to Hospital Management Systems. This can provide insights into the latest technologies and trends in this field.

5. Industry Reports and Whitepapers:

- Check for industry reports and whitepapers published by healthcare IT companies, consulting firms, or technology providers. These documents often highlight current challenges, trends, and solutions in healthcare management systems.

6. Professional Organizations:

- Visit the websites of professional organizations in healthcare informatics, such as the Healthcare Information and Management Systems Society (HIMSS) or the American Medical Informatics Association (AMIA), for updates on industry standards and best practices.

7. News and Magazines:

- Stay informed about recent developments by reading news articles and magazines focused on healthcare technology. Websites like Healthcare IT News or Becker's Health IT & CIO Report often cover innovations in healthcare systems.

8. Research Institutions and Universities:

- Check the research publications and projects from renowned institutions and universities that focus on healthcare informatics and database systems.

9. Online Forums and Communities:

- Engage with online forums and communities where professionals and researchers discuss healthcare IT and database management. Platforms like ResearchGate or Stack Overflow may have relevant discussions.

Chapter 4: Objectives

The objectives of developing a Hospital Management System (HMS) with a Database Management System (DBMS) are to enhance operational efficiency, improve patient care through streamlined access to accurate medical information, ensure data accuracy and security, promote financial transparency, enable collaboration among healthcare providers, comply with regulations, leverage technological advancements, optimize resource utilization, provide a user-friendly interface, incorporate data analytics, support mobile integration, and design the system for scalability.

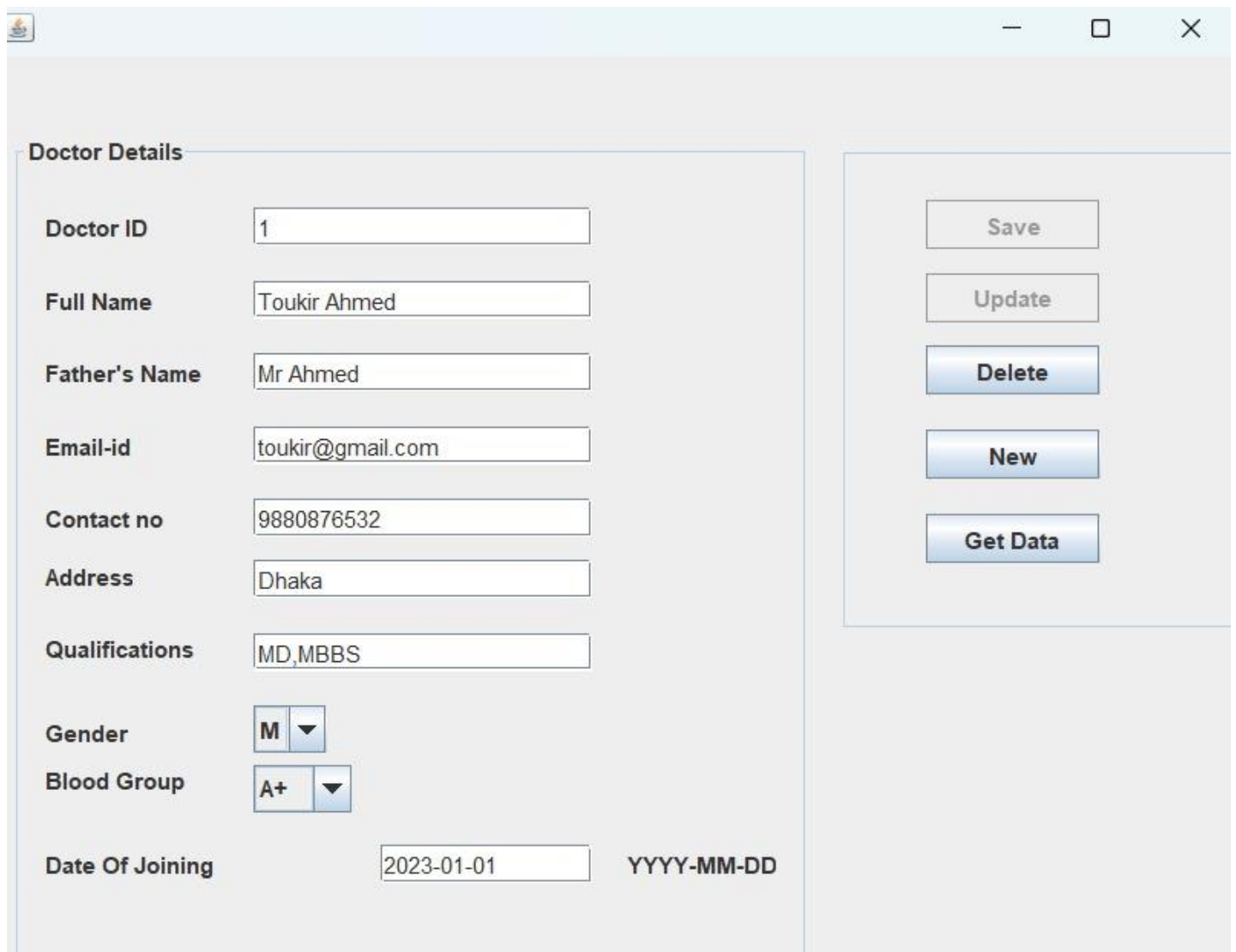
Chapter 5: Number of features and description

• Patient Side Features:

1. There is a separate interface for patients. Patients have a separate login.
2. Patients can book appointments.
3. Patients can give previous medical history.

- **Doctor Side Features:**

1. There is a separate interface for doctors. Doctors have a separate login.
2. The system takes into consideration doctor schedules and does not allow appointments when a doctor is already busy or has a break.
3. Doctors are able to access patient history and profile, and add to patient history.
4. Doctors are able to give diagnosis and prescriptions.
5. Doctors are able to modify diagnosis and prescriptions.



The screenshot shows a web application window with a title bar containing a logo, a minus sign, a maximize button, and a close button. The main content area is divided into two sections. The left section, titled "Doctor Details", contains a form with the following fields:

- Doctor ID:
- Full Name:
- Father's Name:
- Email-id:
- Contact no:
- Address:
- Qualifications:
- Gender: (dropdown arrow)
- Blood Group: (dropdown arrow)
- Date Of Joining: YYYY-MM-DD

The right section contains a vertical stack of buttons: "Save", "Update", "Delete", "New", and "Get Data".

Room Info

Room No.

4

Room Type

General ▼

Room Charges
(Per day)

2000

New

Save

Update

Delete

Get Data

Room No.	Room Type	Room Charges	Room Status
1	General	5000	Vacant
2	General	2500	Vacant
3	Deluxe	10000	Booked
4	General	2000	Vacant

Chapter 6: Conclusion

In summary, the Hospital Management System (HMS) with Database Management System (DBMS) is a comprehensive solution designed to streamline healthcare administration. With features ranging from patient registration to financial management and security measures, the system aims to enhance operational efficiency, improve patient care, ensure data accuracy, and comply with regulations. The user-friendly interface, mobile integration, and scalability contribute to a modern, interconnected, and patient-centric healthcare environment. This integrated system represents a significant advancement in healthcare management, aligning with the goals of efficiency, security, and improved patient outcomes.