

# Hospital Management System

Sem IV Section C Group 3

# Overview

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Methon Group 3

Manual Section Group 3

Manual Section

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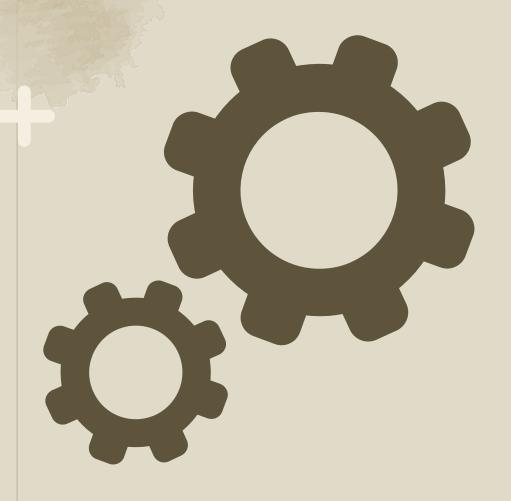
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# Objective

In the world where everyone doesn't have time for themselves but is struggling with surviving, it would be a nuisance if we all have to wait unnecessarily long hours for doctors' appointment for our health issues. The hospital management system is specifically designed to make such tasks convenient with less time consumed in case of emergency.

The HMS makes records for the patients, pharmacies, doctors and hospital rooms while also giving easy access to the receptionists in terms of appointments, paying bill and booking ID for the appointments.

## Software Used

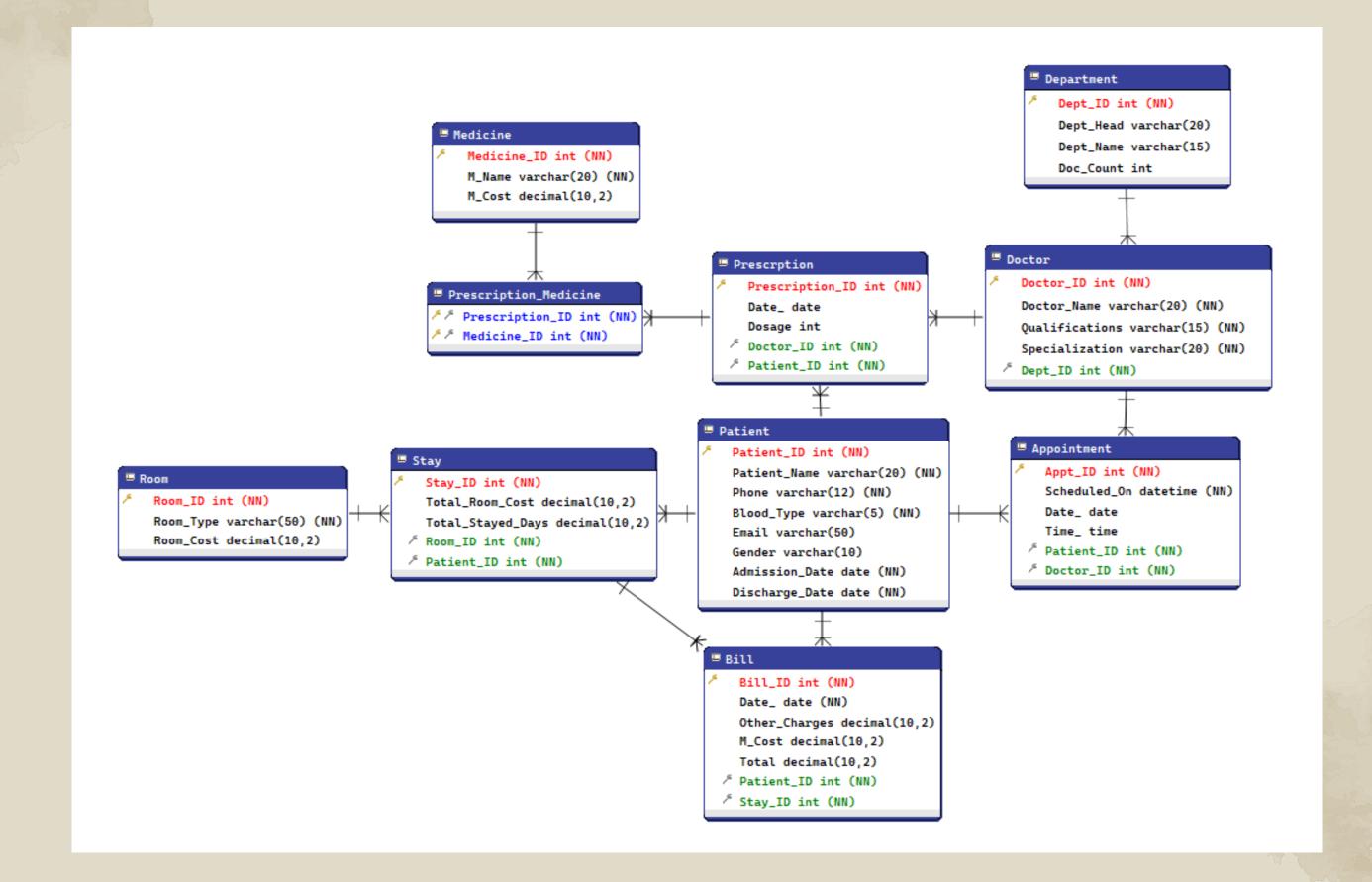




Xampp Server



# ER Diagram



# Queries (1)

## Display the total cost of medicines prescribed on January 1, 2024

# Queries (2)

## Retrieve the details of patients who stayed in premium room type:

```
mysql> SELECT Patient.Patient_ID, Patient.Patient_Name, Stay.Room_ID, Room.Room_Type
    -> FROM Patient
    -> JOIN Stay ON Patient.Patient_ID = Stay.Patient_ID
    -> JOIN Room ON Stay.Room_ID = Room.Room_ID
    -> WHERE Room.Room_Type = 'Premium';
+------+
| Patient_ID | Patient_Name | Room_ID | Room_Type |
+------+
| 14 | Thein Zaw | 90 | Premium |
+------+
1 row in set (0.00 sec)
```

# Queries (3)

## List all appointments scheduled for a specific doctor

# Queries (4)

# Retrieve the prescriptions along with the corresponding medicines for a specific patient

```
mysql> SELECT Patient.Patient_Name, Medicine.M_Name, Prescription.
Dosage
    -> FROM Prescription
    -> JOIN Prescription_Medicine ON Prescription.Prescription_ID
= Prescription_Medicine.Prescription_ID
    -> JOIN Medicine ON Prescription_Medicine.Medicine_ID = Medici
ne.Medicine_ID
    -> JOIN Patient ON Prescription.Patient_ID = Patient.Patient_I
    -> WHERE Patient.Patient_Name = 'Thein Zaw';
  Patient_Name | M_Name
                           Dosage
  Thein Zaw
               | Aspirin |
1 row in set (0.00 sec)
```

# Queries (5)

# Retrieve the list of doctors with the total number of appointments and patients they have

-> Doctor.Doctor_ID,			
-> Doctor.Doctor_Name,			
-> COUNT(DISTINCT Appointment.Appt_ID) AS Total_Appointments,			
-> COUNT(DISTINCT Patient.Patient_ID) AS Total_Patients			
-> FROM I	Doctor		
-> LEFT JOIN Appointment ON Doctor.Doctor_ID = Appointment.Doctor_ID			
-> LEFT JOIN Patient ON Appointment.Patient_ID = Patient.Patient_ID			
-> GROUP BY Doctor.Doctor_ID, Doctor.Doctor_Name;			
	ł	+	+
Doctor_ID	Doctor_Name	Total_Appointments	Total_Patients
	}	<u> </u>	<u>+</u>
100	Dr Tin Zaw	1	1
101	Dr Yuyu San	1	1
102	Dr Htate Htar	0	0
102	Dr Mya Kyi	0	Θ
		1	1
103 104	:	0	0

# Queries (6)

## Show doctors and their departments

```
mysql> SELECT d.Doctor_Name, dp.Dept_Name
    -> FROM doctor d
    -> JOIN department dp ON d.Dept_ID = dp.Dept_ID;
 Doctor_Name
                   Dept_Name
 Dr Tin Zaw
                   Cardiology
  Dr Yuyu San
                   Opthalmology
  Dr Htate Htar
                   General Surgery
                    Anesthetics
 Dr Mya Kyi
  Dr Nini Eain
                  | Orthology
  Dr Tin Hla Htun
                   Orthology
6 rows in set (0.01 sec)
```

# Queries (7)

#### **Total Medicine cost**

# Queries (8)

### **Show Total cost for the patients**

```
mysql> SELECT
           p.Patient_Name,
           (s.Total_Stayed_Days * r.Room_Cost) AS Total_Room_Cost,
           SUM(m.M_Cost * pr.Dosage) AS Total_Medicine_Cost,
           b.Other_Charges,
           (s.Total_Stayed_Days * r.Room_Cost) + SUM(m.M_Cost * pr.Dosage) + b.Other_Charges AS Total_Cost
    ->
    -> FROM
           patient p
    ->
    -> JOIN
           stay s ON p.Patient_ID = s.Patient_ID
    ->
    -> JOIN
           room r ON s.Room_ID = r.Room_ID
    ->
    -> JOIN
           bill b ON p.Patient_ID = b.Patient_ID
    -> LEFT JOIN
           prescription pr ON p.Patient_ID = pr.Patient_ID
    -> LEFT JOIN
           prescription_medicine pm ON pr.Prescription_ID = pm.Prescription_ID
    -> LEFT JOIN
           medicine m ON pm.Medicine_ID = m.Medicine_ID
    -> GROUP BY
           p.Patient_Name,
           s.Total_Stayed_Days,
           r.Room_Cost,
    ->
           b.Other_Charges;
  Patient_Name | Total_Room_Cost | Total_Medicine_Cost | Other_Charges | Total_Cost
  Thein Zaw
                       4200.0000
                                               5000.00
                                                                           9250.0000
                      56000.0000
                                               3000.00
                                                                         59050.0000
  Thint Htar
```

## Conclusion

On conclusion, because the Hospital Management System is used to make records regarding with patients, doctors, booking appointments and etc, it is also considered to be manageable and convenient for the admins and users, delivering the best possible result for the group's project.



Any questions ???