

Jose Manipon, 500906166

Amiel Castillo, 500883624

Anthony Trinh, 500831193

DBMS for Hospitals - An efficient system where data between patients, nurses, and doctors need to be simple, efficient, and fast is vital for the hospital systems to run effectively. This software will deal with multiple relations within a complex hospital system. It will deal with a collection of the patient's information, diagnosis details, transactions, etc. Traditionally this has been done and organized manually by the doctors and nurses. But this system will allow for a more efficient approach where everything will be organized by a DBMS.

The management system includes the registration of patients, storing their personal information into the system, the hospital's working doctors, room numbers, computerized billings and diagnosis and many more mentioned in the chart below.

We will include 10 rows in our entity table:

Entity	Attributes
Patient	Health card #, Name, Age, Gender, Phone, Address, Postal Code, Status
Doctor	Name, Age, Gender, Phone, Address, Postal Code, Specialization
Medicine	Inventory, Name, Price, Quantity, Expiration Date, Manufacturer
Medical History	Patient , Date of last visit, Past Diagnosis
Appointment	Patient , Doctor , Time of Appointment, Date of Appointment, Location
Diagnosis	Patient , Doctor , Medicine, Diagnosis ID
Type of Appointment	Appointment , General check up, surgery, MRI scans, X-Ray scan, CT/CAT scan, Ultrasound
Hospital	Appointment , Room Number
Prescription	Medicine , Diagnosis
Transactions	Appointment , Payment method, Cost Amount, Paid Date, Due Date

More specifically the Hospital will conduct Appointments where the Patient will receive a Doctor. The Doctor will receive the Patient's Medical History, and conduct the Type of Appointment. The Doctor will then give the Patient a Diagnosis, and, in some cases, a Prescription. The Patient will receive Medicine based on the Prescription, and the Patient will conduct a Transaction with the Hospital for the Appointment and/or Medicine.