Requirements:  
1. Database beneficial  
2. Need to store and query large volumes  
3. Support multiple users  
4. Concurrent access  
5. Maintain consistency  
6. Atleast 100,000 records  
7. Real world data to populate database  
8. Find missing, inconsistent, corrupt data – part of the system or pre processing?  
9. What attributes needed to be stored?  
10. Example queries possible?  
11.

Technology details:  
UI: Ruby on rails, php, .net, jsp , javascript  
Server: CISE oracle

Ideas:

Chart to explain structure  
Details bullet points

Anything spatial?...representing your data on a map is fun...for everyone

<http://leafletjs.com/>

Something in a map with data from pew analysis

**HOSPITAL MANAGEMENT SYSTEM DATABASE PROJECT**

A patient will have unique Patient ID.  Full description about the patient about personal detail and phone number, and then Disease and what treatment is going on. The doctor will handle patients, One doctor can Treat more than 1 patient. Also, each doctor will have unique ID. Doctor and Patients will be related. Patients can be admitted to hospital. So different room numbers will be there, also rooms for Operation Theaters and ICU.  There are some nurses, and ward boys for the maintenance of hospital and for patient take care.  Based upon the number of days and treatment bill will be generated.

https://www.lovelycoding.org/2015/10/hospital-management-system-php-java-project.html

## HEALTHCARE ORGANIZATION DATABASE PROJECT

This organization provides the following functionalities

* Emergency Care 24x7
* Support Groups
* Support and Help Through calls

Any new Patient is first registered in their database before meeting the doctor. The Doctor can update the data related to the patient upon diagnosis (Including the disease diagnosed and prescription). This organization also provides rooms facility for admitting the patient who is critical. Apart from doctors, this organization has nurses and ward boy. Each nurse and ward boy is assigned to a doctor. Also, they can be assigned to patients (to take care of them). The bill is paid by the patient with cash and E-banking. Record of each payment made is also maintained by the organization. The record of each call received to provide help and support to its existing person is also maintained.

## BLOOD DONATION SYSTEM DATABASE PROJECT

 A system in which data of Patient, data of donor, data of blood bank would be saved and will be interrelation with each other  
  
DATA OF PATIENT – Patient Name, Patient Id, Patient Blood Group, Patent Disease  
DATA OF DONAR – Donar Name, Donar Id, Donar Bood Group, Donar Medical report, Donar Address, Donar Contact number  
DATA OF BLOOD BANK – Blood Bank Name, Blood Bank Address, Blood bank Donors name, Blood Bank Contact Number, Blood Bank Address  
  
Try to implement such scenario in a database, create a schema for it, an ER diagram for it and try to normalize it.

* [Advanced Intelligent Tourist Guide](https://nevonprojects.com/advanced-intelligent-tourist-guide/)

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