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Idea: A database of patient records at a hospital for the medical staff to use.

Type of Data to Collect:

- Patient #
- Room #
- Diagnosis
- Symptoms
- Medical History (e.g. past surgeries, diseases/disorders, allergies)
- How long they have been admitted into the hospital
- Medicine given or prescribed to the patient
- Patient information
  - Name, age, gender, etc
- Nurses who are caring for the patient
  - Name of nurse
- Location within hospital
  - ER, ICU, Dialysis, etc
  - (or the wing they are located in)

Ideas for Front End?

- Our front end is going to be a medical website that is meant only for hospital staff, such as nurses and doctors, so it will prompt you for a username and password when you visit it in order to access the confidential information about the patients in the hospital.

## Proposal:

For our database project, my team and I decided to create our own version of a hospital management system database. To complete this task we would incorporate all of the information that is correlated with being a patient. For instance, when a patient is admitted into a hospital, we will insert said patient's information into our database so that when a doctor or nurse needs to look up a patient's record all of their information will be provided. Some of the things we will be incorporating in our database are a patient's ID, personal details, the disease that they have, what treatment is being done, the room they are assigned, etc. Naturally to go along with the patients there will be doctors included, some having more than one patient. To differentiate between doctors and patients, each doctor will have their own unique ID within the database. Both the doctors and patients will be related in the database. In addition to the rooms the patients are put in, there will also be information specifically for if a patient is admitted into special care rooms such as the operating room or the ICU. Lastly, to go along with the doctors and patients nurses will also be included in the database with separate IDs and information regarding who they are looking after. Depending on how long the patient is staying in the hospital and the treatment they receive, a bill will be generated in the end.

## Scenarios:

- If a doctor needed to know what kind of illness a patient has, he would insert the symptoms into the database which would return the illnesses that are associated with the symptoms.
- If a patient's family member wanted to find a patient, the database would return where the patient's room number and whether they are available for visitation.

- When a nurse needs to know a patient's medical history, they could look up the patient (via database) and read their medical history.
  - A medical bill will be generated in the end based on how long the patient has been admitted into the hospital. This would be known by accessing the date the patient was admitted into the hospital.
  - Document patients over time. Access information if needed.
- We are thinking about using JSP (JavaServerPages) on this assignment, but we may change this in the future.