CS256 Project Proposal

Health Network

**Domain:** My Health Network database will contain all the information used by top healthcare providers to properly treat patients. This will include pertinent details about the patient as well as information about their physicians. Healthcare providers often need a lot of background information about the patient and their illness in order to provide care. This database will record prior visits and have a table of common illnesses to reference. Database will also be used to handle any billing concerns and reference insurance providers.

**Motivation:** The most important user of the database will be the physician, as they will need all the information in front of them to properly treat a patient. However, the secretaries will also be accessing this database to bill patients and possibly schedule appointments. The patients will be accessing a limited portion of the database via a website. This website will allow them to pay any outstanding fees and schedule appointments. Pharmacies will only have access to the prescriptions assigned to a particular Patient-Id.

My mom is a Nurse-Practitioner for a large Health-Network, and I am often helping her navigate the database they use. It is ridiculous how clunky and un-”user-friendly” this database is, especially considering how much they pay for it. My database should be a very simple design that makes accessing information easy. Each user should only be accessing the information that they need to be seeing. The Pharmacist shouldn’t be accessing the same tables as the physician or the secretary.

**Data-Needs:**

What physicians work in what specific hospital. (Name and ID)

What physicians treated a specific patient.

Patients will need a specific ID in the system.

Physicians will need a specific ID in the system.

All hospital visits will need to be logged.

Information on patients such as height, weight, billing address, insurance provider, smoker/non-smoker etc.

Information on acceptable insurance providers and half/full coverage.

How can patient be contacted?

How can patient be billed?

How can physician prescribe?