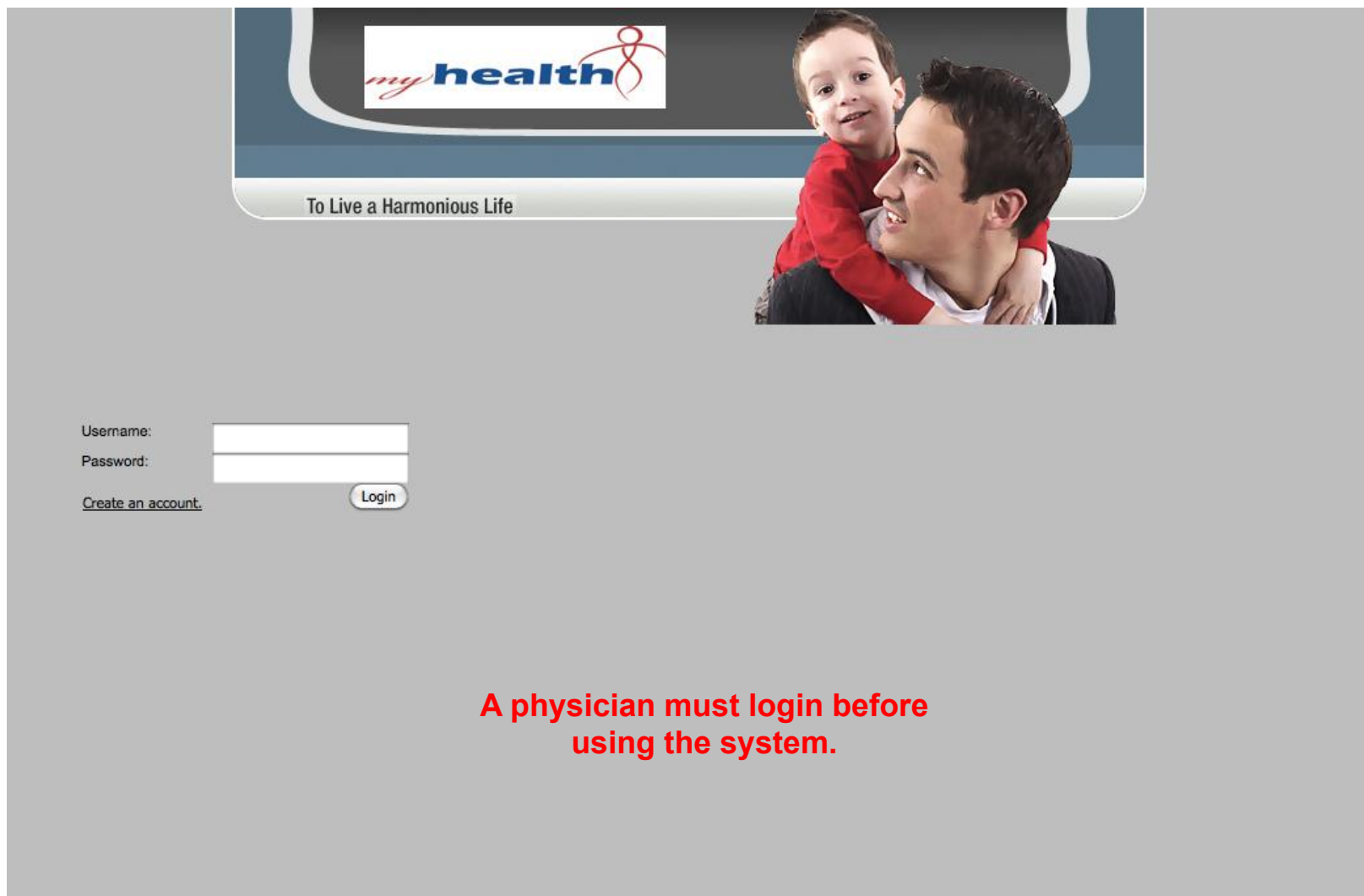# MyHealth© Electronic Medical Record Keeping System (EMRKS)
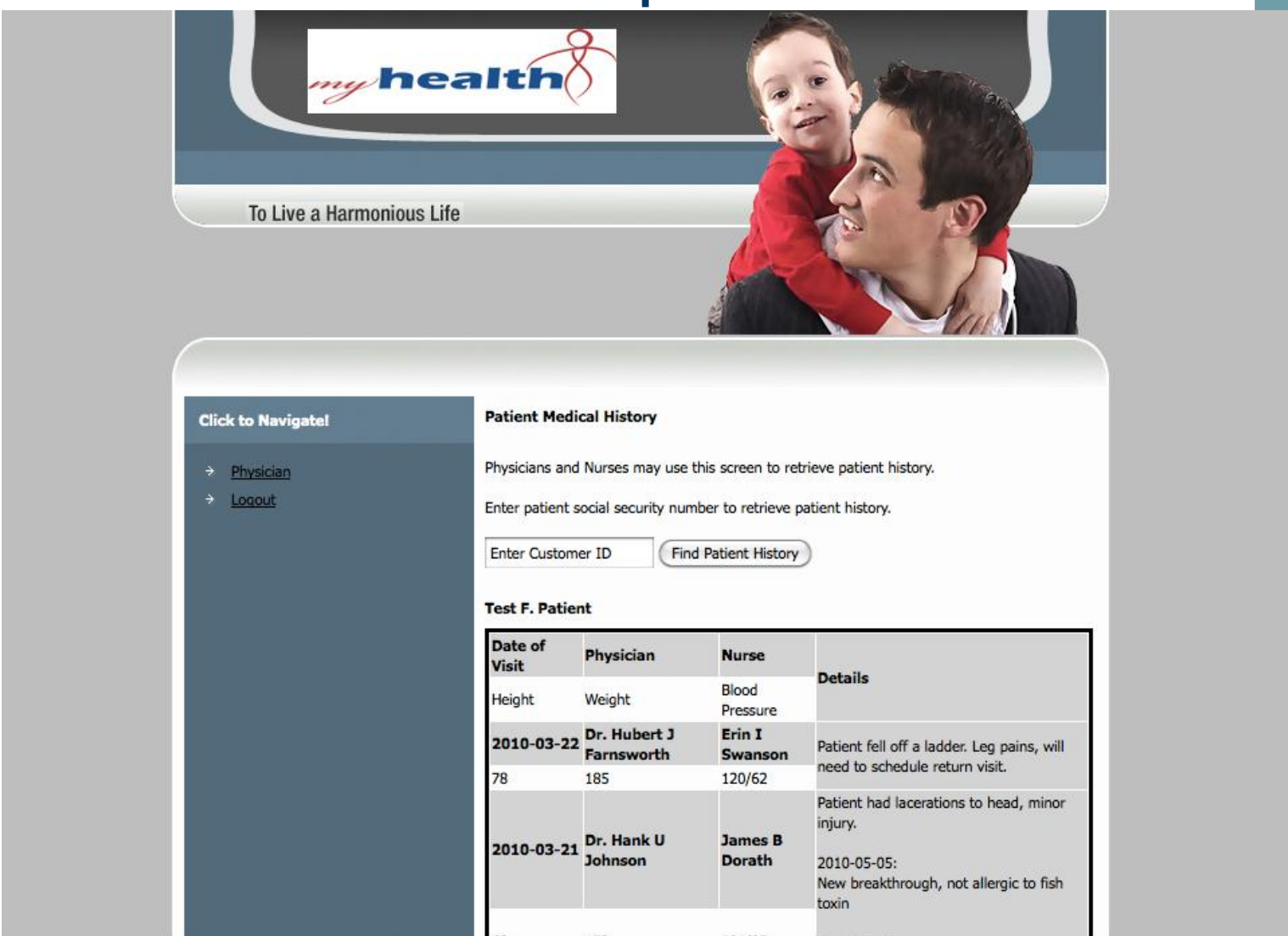
CSci: 455 -- Database Management Systems
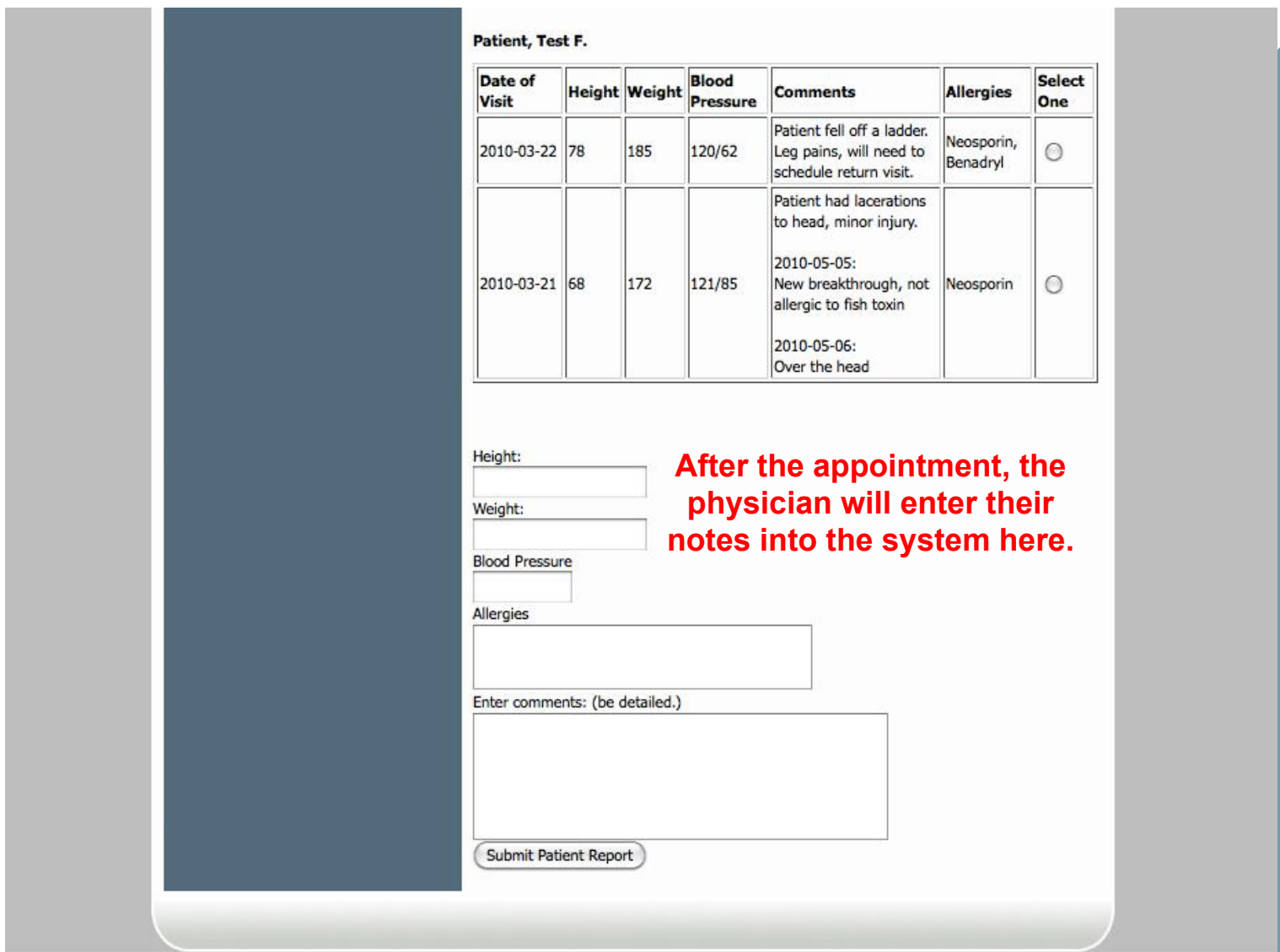
*my*health

Example physician workflow

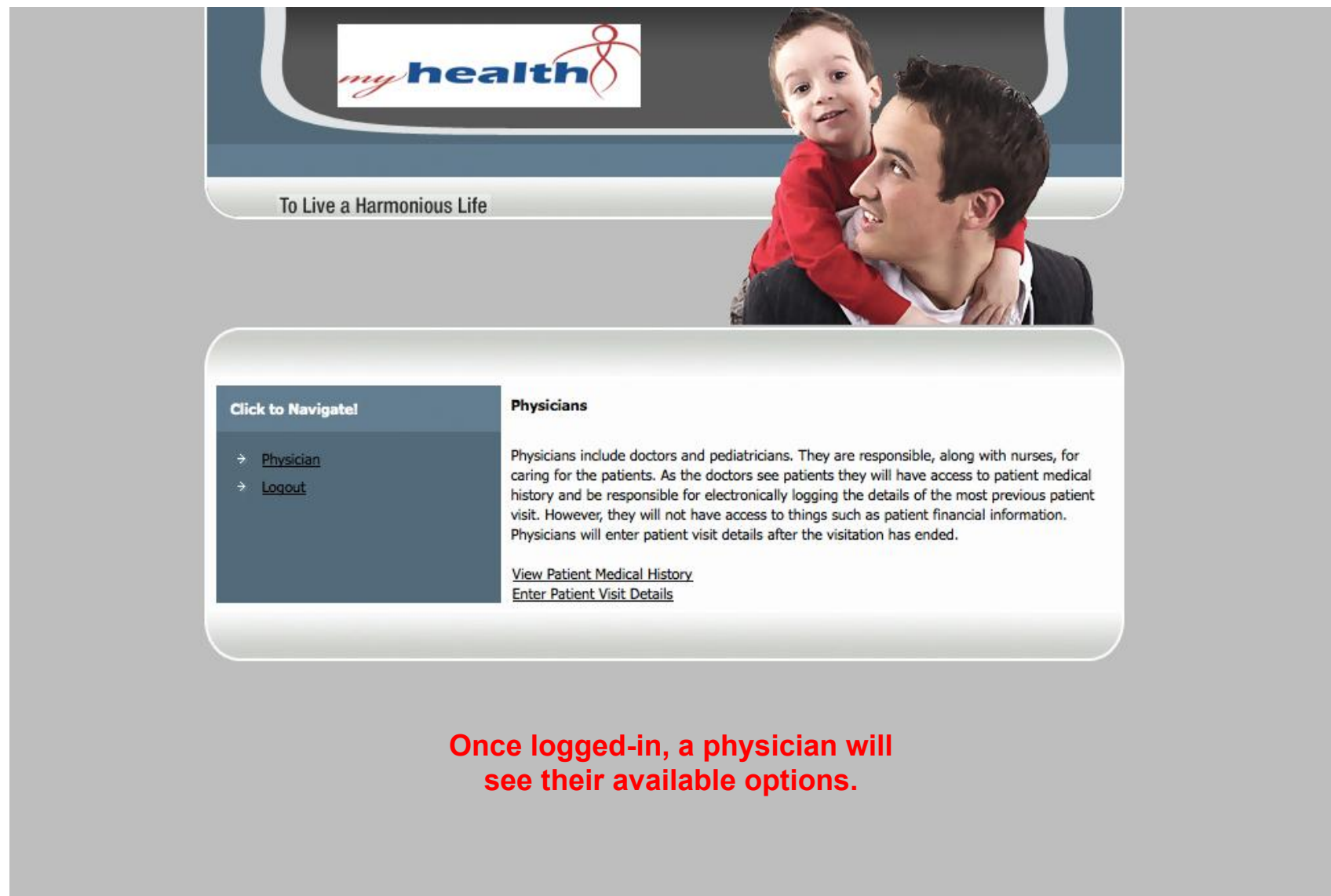
A physician must login before using the system.

Once logged-in, a physician will see their available options.

Selecting the Patient Medical History option allows the physician to enter the patient ID and bring up the patient's medical history.
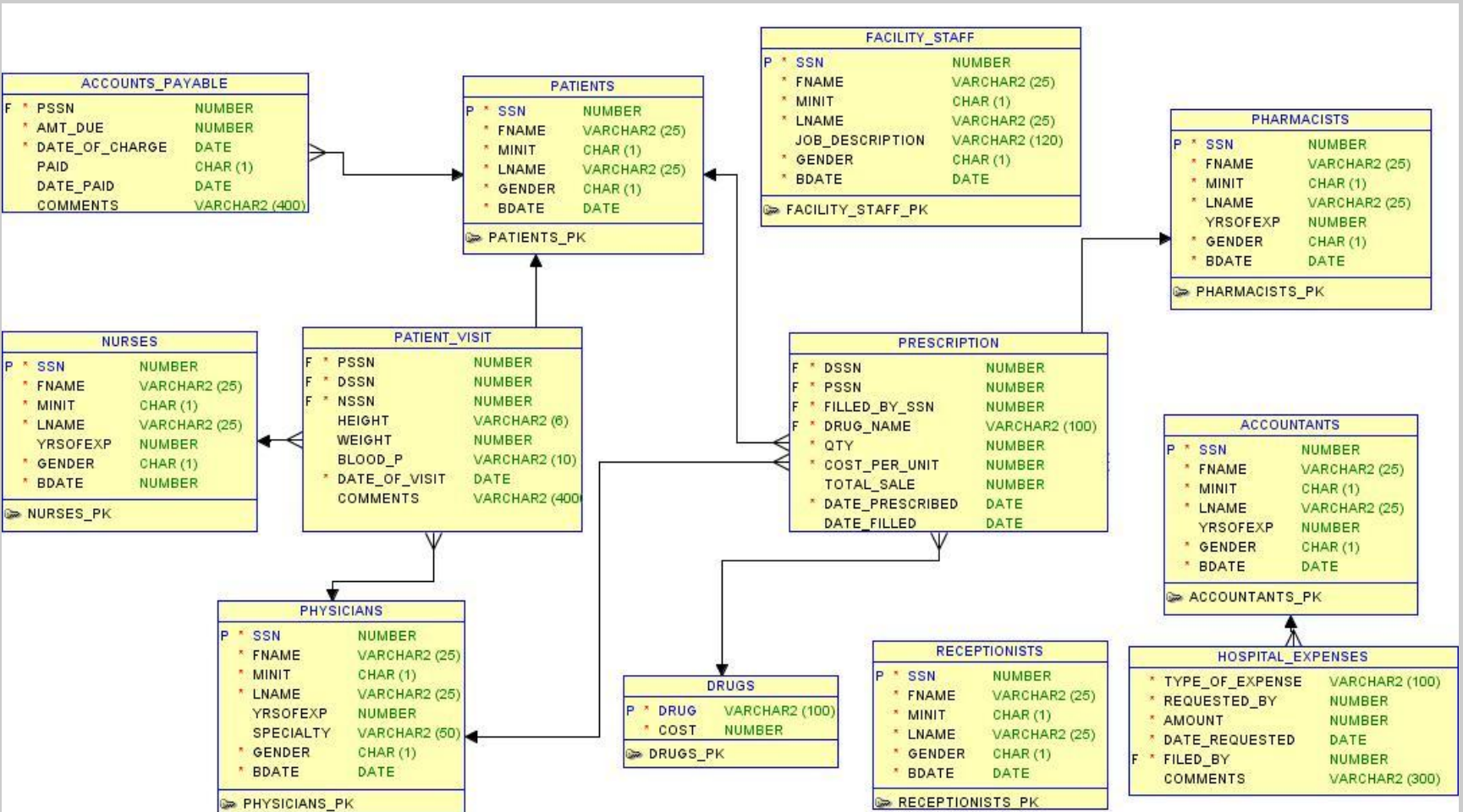
MyHealth System By:
Dustin Salentiny
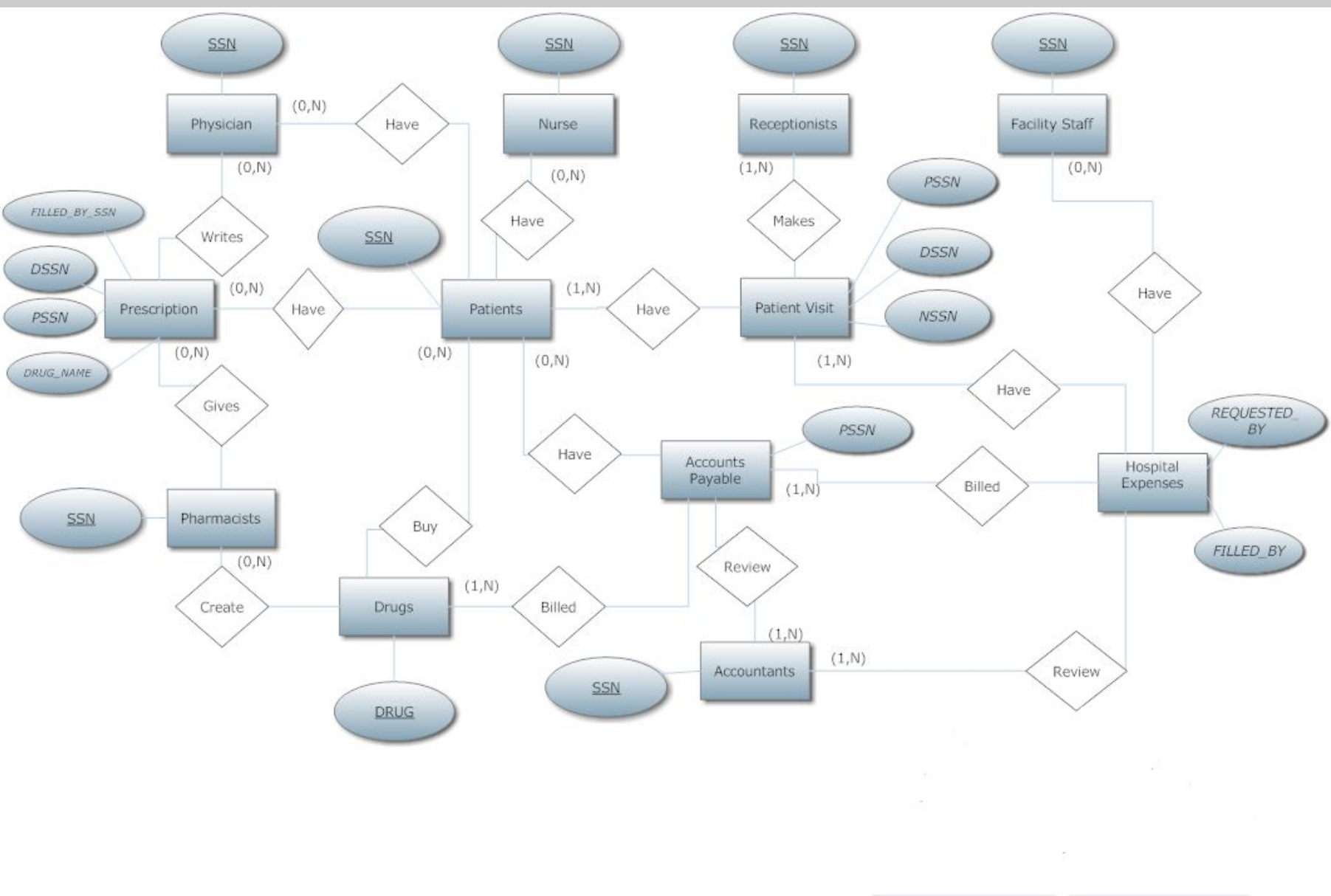## Jeffery Schafer
Jordan Torres

The MyHealth© system is an electronic medical record keeping system (EMRKS). An EMRKS is a system that provides a health care facility the ability to centralize and maintain their record keeping electronically. The MyHealth system was built to help a hospital organize staff and patient information. The system includes a web page-based interface which contains multiple user classes to accommodate all of the different tasks for staff and customers alike. The staff will only have interaction with the web pages. The system will also help with efficient access to information for all involved. The primary actors involved in the MyHealth System include: accountants, auditors, cleaning staff, customer support personnel, nurses, patients, pharmacists, physicians, or receptionists.

After the appointment, the physician will enter their notes into the system here.

After entering the patient ID, the physician will be able to view the patient's medical history.
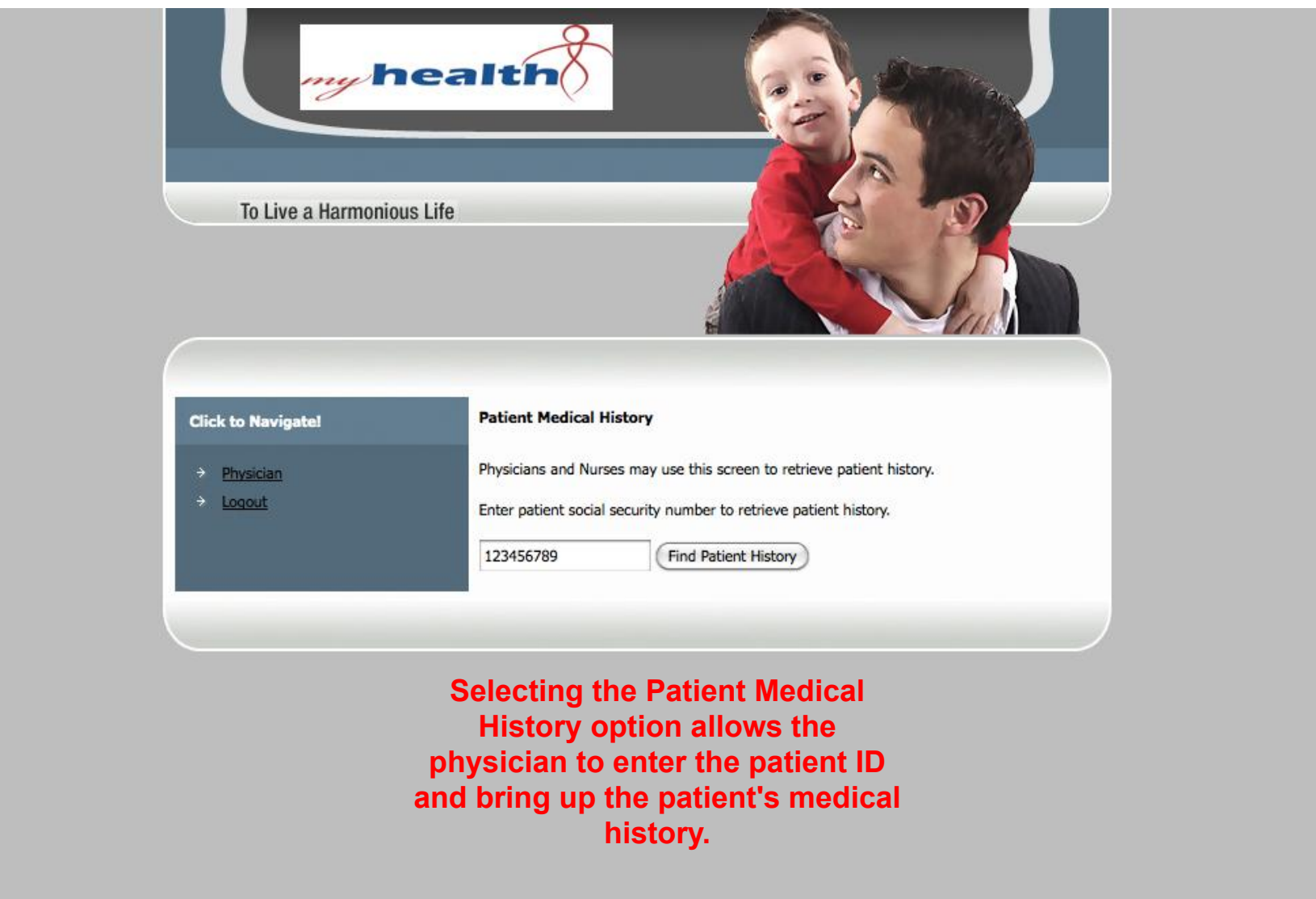
Schema Diagram

ER Diagram

Development Environment

Database Software

MySQL 5 was chosen for it's low cost and high feature set. The feature set includes ACID transactions, table and index partitioning, unlimited row-level locking, distributed transactions, and more. MySQL supports all necessary functions of the system and has lower minimum system specifications. The installation is quick and relatively painless. MySQL supports SQL-99, stored procedures, triggers, transactions, and many more.

Operating Systems/Server Software

PHP is a web-based programming language. PHP is supported on Windows, Linux, Unix, Solaris, and many other operating systems. See PHP web site (http://www.php.net/) for more information about supported operating systems.

Web Development Tools

X-code, Dreamweaver, Notepad.

Hardware Support

The minimum hardware specifications for hosting this system are based on the operating system used (check operating system documentation for minimum specifications) and the estimated size of clientele. The following specifications are in addition to the minimum operating system specifications. For use with a small clientele base (100 active users at any given time), a minimum of 512 megabytes of memory for the MySQL server, 256 megabytes of memory for the web service, five (5) gigabytes of disk space, and a T1 internet connection (1.5 megabits per second).