**Rationale**

Baymax Hospital is a rising medical center located in the center of Atlanta, Georgia. In order to help deliver the most advanced and compassionate care, our management system must be able to efficiently obtain, update, and maintain large amounts of information for the hospital’s staff and patients. It will allow quick scheduling of appointments, maintain a healthy supply of pharmaceuticals, and create pharmacy invoices for our patients.

The Hospital Management System will be linked to a database and must comply with all of Baymax Hospital’s requirements. The system will be loaded onto the desktop of both the hospital front desk for check-in purposes, as well as the front desk of the pharmacy. This software is strictly for use by hospital staff in order to better serve our patients.

When the software is loaded and the receptionist logs in, they will first be greeted with the option to schedule an appointment for patients that are already in the database. The patient and the doctor that is being requested are selected, as well as a date, time, and reason for visit. When the appointment is scheduled, it is entered into the database to be accessed later. Patient history shows each patient’s name, age, contact number, and the information for the upcoming appointment is shown. There is also functionality to view all scheduled appointments for each doctor in the hospital.

The system also maintains the hospital’s pharmacy. If a specific medication’s quantity drops below 300, the front desk of the pharmacy is prompted to resupply the medicine. The quantity is immediately checked upon entering the pharmacy module, as well as every time a medication is purchased. When the receptionist sells medication to a patient, an invoice is generated that obtains all purchased medications and calculates the total price. All information is stored and updated in real-time.

The information provided above is in line with all of Baymax Hospital’s requirements specified by Big Hero 5, before the system was produced.

1. The login page allows the receptionist to log into the system using a correct username and password.
2. The Schedule Appointment module allows the receptionist to book an appointment during an available time slot.
3. The Doctor Appointments module displays all appointments made for a specified doctor.
4. Patient Information maintains each patient’s name, age, contact number, and upcoming appointments.
5. The pharmacy maintains the medicine inventory, notifies the receptionist when a quantity drops under 300, and distributes prescribed medications to patients.
6. An invoice is generated when a medication is sold to the patient.