**Rationale**

The intent of the hospital management system is to obtain and update information for staff, as well as maintain several services for multiple patients at any given time. As a result, it has been determined that a client-server model is the best software architecture for this project.

**Schedule Appointment**Allows patients and admin to book an appointment during an available time slot.

* *Patient ID:* Required for identification of each patient in the database
* *Patient Name:* Required information for scheduling and documentation purposes
* *Doctor:* Required information so patient gets the doctor they want
* *Date:* Required information for patient and doctor for scheduling purposes
* *Time:* Required information for patient and doctor for scheduling purposes
* *Reason for Visit:* Useful information for the doctor to know before appointment

**New Staff Info**Allows the system admin to input required information for hospital new hires, such as: first and last name, age, gender, place of education, degree level, and year graduated. This information should be readily available to patients.

* *Staff ID:* Required for identification of staff member in the database
* *Staff Name:* Required information for documentation purposes
* *Staff Type:* Whether the staff is a doctor or other member, useful for update staff info
* *Date of Birth:* Useful information for patients to have when choosing a doctor
* *Age:* Useful information for patients to have when choosing a doctor
* *Gender:* Useful information for patients to have when choosing a doctor
* *Contact Number:* For other staff members to reach this staff member

**Update Staff Info**Allows the system admin to change list of appointments and list of medications prescribed for all hospital employees as needed. This information should be readily available to patients.

* *List of Appointments:* Required so there is no overlap in scheduling appointments
* *List of Medicines Prescribed:* Useful information to have, some patients like to know

**Patient Info**Maintains each patient’s first and last name, date of birth, reason for visit, illnesses, and any prescribed medications.

* *Patient Name:* Required information for scheduling and documentation purposes
* *Patient ID:* Required for identification of each patient in the database
* *Age:* Useful information for doctors to know when treating patients
* *Contact Number:* Required in case staff members need to reach the patient
* *Reason for Visit:* Useful information for the doctor to know before appointment

**Pharmacy**Maintains the medicine inventory, notifies the system admin when a quantity drops to 3 or under, and distributes prescribed medications to patients.

* *Medicine ID:* Required information for identification of medicine in the database
* *Medicine Name:* Required information for documentation purposes
* *Quantity:* Required information in order to maintain supply
* *Supplier:* Required information for documentation purposes
* *Patient ID:* Required for identification of each patient taking medicine

**Invoice**Generated after the doctor inputs details from the appointment, and is given to the patient through the system.

* *Patient ID:* Required for identification of each patient with an invoice
* *Patient Name:* Required information for invoice documentation purposes
* *Contact Number:* Required in case staff members need to reach the patient
* *Doctor:* Required for invoice documentation purposes
* *Total Cost:* Required value on the invoice for the patient