**Application Objects Rationale**

**Schedule Appointment**

* *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**

* *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**

* *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**

* *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**

* *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**

* *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

**Software Architecture 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.