1. Issues of the current system:

* Nurse sends email of appointments of the day
* Files of patients are in filing cabinet
* Doctors must fill out visitation form every visit.

1. Database requirements:

For Researchers:

* Must be able to access patient information and doctor’s notes
* Must be access to which drug each patient is using.
* Must be able to track information accurately to prepare reports.

For Doctors:

* Access to patient information.
* Must be able to document and review notes on patients and other information.
* Must be able to access appointment times and dates.
* Information accessed must be kept confidential.
* Must not be able to access any other doctors’ information.
* Must be able to track side effects.
* Must be able to track sleep.
* Must be able to track activities.
* Must be able to track appetite.
* Must be able to enter vitals.
* Must be able to include if patients continue or get dropped from the study.

For Patients :

* Must be able to access patient profiles.
* Must be able to see doctor’s notes.

1. Business Rules:

* Only researches must know what drug each patient is using.
* Doctors must fill out patient visitation forms every visit.
* Clients can only have access to doctor notes and their profiles.
* Clients who do not show up for visits get dropped from the study.
* Every client must fill out an initial medical history Form.

1. Major security rules for the database:

The information entered in the database is confidential. The information presented should only be accessed by certain parties. Patient information should be accessed by the patient, the doctor, the researchers, and no one else. Doctors should not have access to other doctors’ notes. The information that is collected should not be access by anyone outside.

1. Entities and attributes.

**Nouns:**

Patient First name, Patient Last name, Birthdate, Address, Phone number, Email, (Patient ID?)

Medications

Allergies

Pre-existing conditions

Depression level, Depression History, Diagnosed Date

Symptoms

Doctor Name (first and last)

Drug issued

Patient Visit form:

Blood Pressure

Weight

Pulse

Current Depression level

Symptoms

Notes (Doctor)

Continuation (continue or Drop), Drop Reason

1. Candidate keys:

* Patient ID (if applicable)
* Patient Email
* Phone numbers