Shall statements

1.) The user shall be able to enter their username and password into a terminal

2.) The system shall check the username and password to a database to allow a log in

3.) If the login is unsuccessful the user shall be returned to the login screen and presented with an error message

4.) If the login is successful the system shall bring the user to their designated screen either doctor or nurse or administrator

19.) Administrators shall have a password reset option if password is forgotten

Doctor:

5.) The doctor login shall display panels with the names of their patients on them.

6.) When the doctor selects a panel the system shall bring the doctor to a new window that shall display all patient information including diagnosis, and medications.

7.) The software shall have a database that contains patient name, address, current medications, reason for visit, insurance and emergency contact information.

8.) The doctor shall be capable of editing or revising all patient information.

9.) If the doctor prescribes medication that interferes with any current medication a pop-up alert shall appear and the doctor must then confirm the choice

10.) The software shall have a comprehensive database of medical and recreational drugs, their uses, side effects, typical duration of effects, and drugs it can't be used with.

11.) If any of the patient’s vitals move outside of a stable window the panel for that patient will flash red to alert the doctor.

12.) To dismiss the alert the doctor shall select the panel pertaining to that patient and a dialog box shall appear asking to confirm the dismal.

13.) The software shall keep record of which doctor prescribed the prescription, the dosage, time length of the prescription, and the time it was prescribed.

14.) The software shall alert the patient's doctor or nurse station when the prescription is ready.

Nurse:

15.) The nurse login shall display panels with room numbers and last name in their ward associated with the patient inside.

16.) When the nurse selects a panel, the system shall display necessary information for treatment.

17.) When a perception is has been filled by the pharmacy, the panel for that patient’s room shall be illuminated green on the nurse’s terminal.

18.) When the medication has been administered the nurse will select the illuminated panel and enter the time of medication and dose then panel shall no longer be illuminated.

19.) The software shall utilize the drug database to alert doctors and nurses if a patient has had medication too recently.

20.) The software shall utilize the drug database to alert doctors and nurses if a patient's proscribed medication will conflict with any current medications.

21.) If any of the patient’s vitals move outside of a stable window the panel for that patient’s room shall red flash to alert the nurse, and shall be dismissed by selecting that panel and confirming that selection via dialog box.

22.) Nurses shall be able to page doctors on duty by selecting a patient’s room panel. The program shall illuminate in green the panel on the doctor’s terminal for the patient the doctor has been paged.

Administrators:

23.) Administrators shall have the option to create an account username and password

24.) Permission level for users shall be assigned by the administrator according to job position

25.) The system shall contain a separate database for the login information of hospital personal