Design Description

# Data Structures

**Time** is stored as an integer (hours, minutes, seconds). Uses java.util.Date Class to store the data.

**Patient Data** is stored using a hash map. By using a hash map the nurses can look up a patients record accordingly using the right key (HC #). Hey ian it says they can only look them up according to HC #. The values associated with the key are stored as a LinkedHashSet so that the order is preserved. You can change this if you want (the linkedhashset part) THE COLLECTION OF PATIENT RECORDS CHANGES THIS

## Patient Record Class

**Strings** are used for variables, (Name, Birthdate)

**Integer** are used to store Health Card # and Heart Rate

**LinkedHashSet<Double>** are used to store vital signs (temperature, blood pressure)

## Hospital Class

**Collection of patient records** is stored using a HashMap. By using a HashMap, the nurses can look up a patient’s record accordingly using the right key (Health Card Number). The values associated with the key are the individual Patient Records.

## Triage Class

**Patient Condition** stored as a string that states if patient is improving or worsening.

**List of patients** is stored as an ArrayList<String>?

## Nurse Class

**Patient Symptoms** are stored in a string array because nurses need to store a text description.

**Vital Signs** are stored as an array list <double> do you mean array of doubles? with an index of 3. Vital signs will store temperature, blood pressure, and heart rate respectively.