**Bed Turnaround Time:**

Develop a mobile app design that contains the following views:

·        ​Landing page

* Cleaner's view: ability to see queue of beds to clean, closest beds, navigation instructions to bed, and to accept or reject jobs
* Porter's view: ability to see queue of patient movements, closest patients, navigation instructions, and to accept or reject jobs

·         Profile page that summarizes number of beds that the current user cleaned/patients moved today vs. historical data and vs. other cleaners/porters

Include examples of the following user cases:

·         Cleaner/porter receiving notification

* Cleaner/porter accepting job
* Navigation from current location to job location

·         App on a typical smartphone screen and a tablet screen

Present the project, research, methodology, results, and conclusions behind the design to System Optimization at the end of the term.

**Improving Bed Turnaround Time:**

* **Co-ordination and continuous communication from Patient-discharge to patient admission.**
* **Discharged patients endure extended wait times as they wait for transporters to escort them from their hospital rooms .Housekeeping staff cannot clean and prepare a room for the next patient until the room has been vacated.**
* **Finally, notification that the room is clean and ready for the next patient must be communicated so that the room can be appropriately assigned.**

Lyn :this is a data visualization course, and not a user interface design course, so the project will have to involve some aspects of data vis. The team have some ideas, and I built on some of these after discussions with one of my data science colleagues about the discharge data used in hospitals.   I’d like to suggest that the project focus on bed use and discharge data that includes cleaner times and turnarounds  as a way to find and reduce bottlenecks in operations.

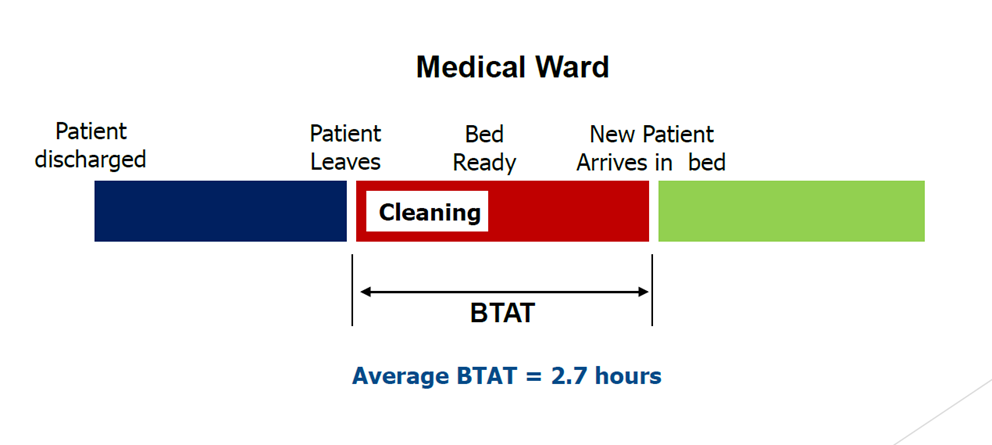
**Goal:**

**Optimisation of Bed Turnaround Time.**

**Improve communication between the coordinator and porters/cleaners.**

**Problem statement:**

**In a hospital setting, Hospital beds left unoccupied as a result of waiting for cleaners and porters. To minimize the turnaround time, or time between one patient leaving the bed and the next patient occupying the bed. Also, in case of porter time to transfer patient from one unit to another.**



**Datasets Needed:**

Patient Discharge Time

New Patient Arrival Time

Department

Unit

Bed No

Bed Status

Wait Time (Different Dataset)

Hospital Layout

No of Beds in every unit

**Patterns/Interactions:**

Trend of discharges over time

Potential discharges across units/floors

Potential transfers across units/floors