**7/2/20**

**Milestone 4 & Artifact Documentation**

* Each use case will have a data flow diagram
* Each person in the group will due 1 sequence & communication diagram but cannot do the sequence & communication diagram for the same use case
  + Will have a situation in which two cases won't have a sequence diagram or a communication diagram
* 1 Data dictionary will be completed for each use case
  + **Data elements, data flows, and data stores** will be done for **one use case**
  + For all other use cases (including the one use case with Data elements, data flows, and data stores) fill out for **actors, external entities, & processes**

**Functionality Notes**

* Customers are not assigned a room until checking in
  + At the time of reservation, you know you have a given number of available rooms of that type
* Different sets
  + Different rewards gained per type of room and duration stayed
  + Options to upgrade and spend reward points for a certain number of points.
    - Ex: Certain number of points for 10% off a bill
  + For this type of room, only free room service for this many reward points
* Employees can edit reservations on the waitlist
  + Customer is charged a deposit on the waitlist
* Customers make a reservation for the future
  + Projected total
  + When checking in, turns from reservation to actually being there
* If the customer cancels, all their money and/or points is refunded *if done before a certain deadline*
  + Given a certain amount of money, i.e. minimum is less than the fee, the customer will get it all back
  + Two situations (example)
    - If the customer cancels three days prior to stay, and they paid a $100 deposit and the cancellation fee is $50, they will get $50 back
    - If the customer cancels three days prior to stay, they paid $50 deposit and the cancellation fee is $50, they will get $0 back
    - No situation in which they owe money for cancellation fee
* Summary Reports
  + For a certain time period
  + For each week employees x and y are paid $X
    - Employee salaries are editable
  + Past vs future summary reports
    - Past- we had this many reward points redeemed, this amount of money spent
    - Future this is the current bookings we have for this time period
  + Activity log: All Actions of customer & Employee
    - Helpful to test which functions work and which don't
  + Employee can upgrade at will (with or without cost), discount purely on Employee