**Notes from Wednesday Meetings**

6/10/20

**Use cases**

* They are business requirements needed to be built
  + Any functionality to be built has to have a set of requirements
* Use case describes everything that needs to be built
  + Business customer should be answering questions about functionality is included
    - How it is all going to work
    - Should be written and is guide to move to analysis
  + Now know what needs to be done from business perspective
  + What can be done from a technology perspective
    - Analysis- can you do it?
    - Design- How to do it?
    - Building-making it all happen
* Login is a use case
  + All Different flows going into a single use case
    - Everything about login goes into login
    - Successfully logging in
    - Unsuccessfully logging in
    - Forgetting your password/user id
    - Creating profile
* Rewards system
  + Keep track of rewards
  + Redeem rewards
* Reservations
  + Create one modify one
  + Cancelling
* As creating use cases, logically grouping components together

**Team**

* Determine everything that needs to be done from business perspective
* Write everything up and make sure everything is correct
* How to group functionality together than is not too big or too small

**SPMP**

* Next set of tasks should be broken down into greater level of detail
  + Better estimates
  + Any changes to risks, now more is known about it

**Secondary Actors**

* Refer database as a “system”- “customer service system”
  + More generic

**Functionality**

* Reward System
  + Set of criteria have to manage, has to be CONFIGURABLE
    - Certain number of points for:
      * Type of room, more points for more upgraded room
      * Certain number of points for how long you stay
  + Based on the customer selection, this is the amount of points going to apply at the time of check out
  + At reservation, be able to redeem a certain amount of points
    - Certain percentage of the amount you have to pay or a free upgrade to a different level of service
  + Customer is able to go and see their current status
    - Login and pay and see this is how many points were accumulated
    - Here is a history of how many points received
    - Here is how many I used to get discount or upgrade
    - What rewards are available
    - What past rewards received, what ones they have used
  + Go reserve a room
    - Question to redeem any points ( if any exist)
    - Use reward points to upgrade to this service for free
    - Or get a 10% discount in cost
    - Or none if they want to keep accumulating more points
  + At checkout display how many pints the customer will be getting because of what they reserved
* Payroll management system
  + Keep track of expenses for the company
    - Employees, What are you paying them?
    - Only keeping track of that an Employee is being paid a certain amount of money
      * I.e. employee x is being paid x amount
      * The amount paid is static
      * keeping track of salary and the ability of people to look it up
      * Making it with “generic employee”
        + Employee can look at all employee data
    - Global expense perspective
    - Rolled into summary reports
* Functionality to be defined for Rooms, points, cancellations, hotel locations
* Time- How is it being tracked?
  + Similar to “starting a clock”, every so many time units switches to a new day
    - In general use counters to do that
    - System time every 10 minutes, a new day
* Importing old accounts from the old system?
  + Not going to import from actual old system, but rather a file
  + Any time you set up a new system is going to be your starting point
    - In other words not every time you run the program, you are starting from an “empty set”
  + Anything in files and in databases have from all the runs are in the in the system
  + If using a database, won't have to do much
  + If using files, will need to output files and that have all the data recorded and when system starts back up, it reads all those files,
    - Think about transition from run to run and keeping data in place
  + Fall back on technology using and storing the data
* Login
  + Mechanism that keeps track of who is logged in
    - What screens or interfaces will have access to based on profile
* Third Party website
  + Given a file with customer data on it
    - What is the customer?
      * New customer
      * Customer already existing
    - Possible combinations of tasks:
      * New reservation
      * Upgrade of some kind
    - Should be the same functions as if on the regular hotel screen
  + Possible Response
    - Reservation confirmed
    - We cannot do it, no rooms available at that level
    - Output file of the result of action requested
* Employee Logs
  + Changes for details
    - Changes in room price
* Make sure functionality is available

**Use Cases**

* Use cases should not have any references to anything technical
  + Ex: We have a database to store customer activity
    - But don't specify anything technical
  + Use cases written in the customer perspective
  + Technical stuff for design and analysis
* What is the write up to describe the business perspective?
  + One use case summary done:
    - Divided up all this functionality into the number of use cases
    - What are my actors and use cases
  + Covered all functionality / data I need?
  + Should be able to find all the functionality
* Analysis- I know business perspective, can we do this?
  + From a technical perspective can we build what the customer wants built?
    - What is a feasible way to build this?

**Complete ERD**

* Data we have available for the organization
* Describes the data that this data model represents