**Project CleanSweep**

Team Name: 6ixSheets

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Project Advisor: Michael Melusky, mcm297@psu.edu

Project Description: Our team will be developing a room cleaning optimization program. This program will be used by the maids and front desk staff to maintain orderly and efficient cleaning, accommodate guest requests, and minimization of dead time between when a room is cleaned and when a guest can check in. This program will be a windows application that is based at the front desk and maids will use an android application to receive the most up-to-date information regarding customer requests, last minute changes, and the order rooms should be cleaned.

Member Responsibilities:

Kyle Weldon: Project Leader / Android Application Developer

Grant Abbondanza: Desktop Application Developer

James Ringler: Desktop Application Backend / Database Developer  
Adina Lamboy: Desktop Application Developer

Stuart Perry: Android Application Developer

Christian Brand: Android Application Developer

Git or SVN: https://github.com/xblGrant/CleanSweep.git

Project Functions:

* Manager Tasks (Desktop Application)
  + On-Request Functions
    - Insert a wake-up call
    - Allow guest reservations (w/ comments)
      * Group reservations
        + Application finds most logical set of rooms to put group
      * Allocate blocks of time that state whether the room is occupied or free
    - Track guests to keep previous comments for service
      * Allow comments by management
    - Manager check-in a customer
      * Notifies application when room is occupied
    - Manager checks out a customer
      * Notifies application when room is unoccupied (vacant-dirty)
      * Notification that customer hasn’t checked out on time
    - Generate list based on open rooms for reservation
    - Allow manager to add possible requests specific to the hotel
      * Ex: pool, conference room, etc...
    - Allow customer to request above
  + Daily things to be generated
    - Wake up call list
    - Generate list of departing customers
    - Generate list of rooms requesting cleaning
    - Assign departing rooms to maids
    - Assign maintenance rooms to maids
    - Incident reports (daily hotel issues/problems)
    - Generate list of rooms not occupied from previous day
  + Types of users
    - Admin (Manager)
      * Only account who can inspect a room
      * Only account who can verify an issue has been resolved
      * Can report an issue
    - Employee (Maid)
      * Cleans rooms
      * Report issues
* Android/web Application capabilities
  + Submit that a room was cleaned, inspected, etc…
    - Only admin can inspect a room
  + Display list of rooms in hotel
    - Include whether room has an issue
    - Include status of room (vacant-dirty, vacant-clean, ready, occupied)
  + Display list of all incidents per room
  + Allow reporting of room changes
* Maid Tasks
  + Relay when a room has been cleaned
    - Via input from source such as tablet