**SRS Summary**

The things highlighted in yellow are my own comments.

Product functions:

* Reserve Room
  + User can reserve room at specific timeslot
  + If already reserved, user placed on waitlist
* Cancel Reservation
  + User can cancel their own reservations
* Waitlist
  + If reservation is cancelled, first user on waitlist gets it as long as they are under the max of 3 res/week and they don’t have a res at the same time in another room (on this note, does system allow you to put yourself on a waitlist for a timeslot if you already have a res at the same time in another room?)
* Modify Reservation
  + User can modify timeslot of reservation (can’t modify the room?)
* View Reservations
  + User can view their own reservations and all availabilities at any time
* Authentication
  + When user tries to login, system checks DB for username
  + If username is found, system authenticates password; else, error saying no account found
  + If password for that username is correct, user obtains access to system; else, user asked to try password again
  + Is there a max number of login attempts?
* Other constraints
  + Reservations can only be made once every 30 secs
  + User can have a max of 3 res/week
    - This means that if you have 2 reservations and you’re on one or more waitlists, if you book a 3rd reservation you are automatically removed from all waitlists
  + Room and timeslot can be repeated weekly for max of 3 weeks (does this mean the current week plus an extra 3, or 3 including current week?)
  + Reader-writer lock -> multiple users can view (read), but only one user can reserve room (write) at a time (lock is on the room?… need to verify)

**User interface:**

* They described their whole UI with screenshots… technically the SRS is to be written before implementing the system so it’s just supposed to be an idea of what you want the UI to be and not the actual thing. But maybe it’s appropriate, I don’t know.

**Technologies used:**

* Back-end: PHP 7.0.9 and MySQL Community Server 5.6.26
* Front-end: HTML, CSS, JS, Ajax, jQuery and Bootstrap
* No frameworks used

**Actor-Goal list:**

* Log In
* Log Out
* Make a reservation
* Delete a reservation
* Modify a reservation
* View list of made Reservations
* View availability of Rooms
* Edit Profile Information

System Operations:

* Login
  + checkUserAndPass(email, password)
* Add reservation
  + getReservationsByDate(start)
  + getReservations(studentID)
  + addReservation(studentID, roomID, start, end, title, description)
  + addWaitList(studentID, roomID, start, end)
* Cancel
  + deleteReservation(reservation)
* Modify
  + getReservation(reservationID)
  + setTitle(title)
  + setDescription(description)
  + setStartTimeDate(startTime)
  + setEndTimeDate(endTime)
* Change profile
  + updatePassword(email, oldPassword, newPassword)
  + updateEmailAddress(oldEmail, newEmail)

Domain model

* Contains TDGs and Mappers…. These are not domain level objects
* We’ll need to remake a correct domain model