# Q&A Meeting 1

**What’s the main purpose of the program**

Manage resources.

More specifically, provide a user application in which a user can reserve resources such as rooms and bikes. The GUI will be tailored to specific types of users on the application, ranging from Teachers, Staff, and Students, and in that specific hierarchical order.

Additional, bonus, but as of right now less significant resources that could be reserved are car parking spots and restaurants.

**Main features/functions of the application**

Authentication Features

**Feature 1: User Login System**

* Significance: Medium
* Relevant to: All roles
* Extra details:

Room reservation Features

**Feature 2: Overview of room reservations**

* Significance: Low
* Relevant to: All roles
* Extra details:

**Feature 3: Reserve a room (basic for all users)**

* Significance: High
* Relevant to: All roles

All users have different specific sets of features for them (see below for each). Depending on the rank of that user, they have different privileges. These are some details that apply to all users no matter the rank:

* All users can reserve any room
* A user cannot reserve a room if already reserved (see exceptions for specific roles)
* Room reservation times adhere to TU Delft time slots and from building open to start lecture/last lecture to building close.
* All users can see general properties of the room when reserving
  + Capacity of the room
  + Whiteboard/smart board
  + Clicker or not
  + User doesn't need to see when the room was built or what is happening there if it is reserved
* All users can see if the room they selected is available or not
  + See specific conditions for each particular role
* Users can reserve a room in the period of the next quarter
  + You can schedule any time slot, at any moment, as often as you like, within a time period of 10 weeks
* Not all buildings/rooms have the same time slot range
  + they can start from as early as the building is open

**Feature 4: Reserve a room (teacher version)**

* Significance: Medium
* Relevant to: Teachers

A teacher can override the reservation of staff and students.

* Teachers, like any other user, see if the room they selected is available or not.
  + Teachers can specifically see which user has reserved the room. If a student has reserved it, because it is of lower rank, a teacher can see their name. Moreover, a teacher can still reserve that room, overriding that student's reservation.
    - This applies for staff users as-well

A teacher can reserve two rooms at the same time slot. (more than 2)

**Feature 5: Reserve a room (staff version)**

* Significance: Medium
* Relevant to: Staff

A staff user can override the reservation of a student. Thus, if the room they selected is

not available **and** it is reserved by a student, then only can they override that reservation.

**Feature 6: Reserve a room (student version)**

* Significance: Medium
* Relevant to: Students

A student cannot override any reservations. Thus, if the room they selected is not available, a student cannot override it.

**Feature 7: Non-reservable room study space capabilities (bonus feature)**

* Significance: Low
* Relevant to: All

This bonus feature allows users to see where there is extra study space. For example in the library, there is a lot of study space we cannot reserve, but you can still sit there. These rooms that are shown *cannot* be reserved.

Bike reservation Features

**Feature 8: Reserve a bike**

* Significance: Low
* Relevant to: All roles
* Everyone can only reserve one time slot for bikes/etc
* Users can reserve a bike regardless of room reservation, its a complete separate function to room reservation
* Users can reserve a bike for the next 24 hours
* Users can only reserve 1 bike (same condition for all roles)

**Feature 9: See bike reservation overview**

* Significance: Low
* Relevant to: All roles

The user can see an overview with details about bike reservation and its status. Users can see where bike is reserved for (what building)

Bonus Features

**Feature 10: Reserve restaurants**

* Significance: Low
* Relevant to: All roles
* See a menu for any restaurant for

**Feature 11: Reserve car parking**

* Significance: Low
* Relevant to: All roles

**What does our database contain**

For each user we store:

1. Name and/or email address
2. Password for auth.
3. A rank (teacher, student, staff)

There is a system admin (full access). There can be multiple admins:

1. Admin have special privileges like add buildings, cancel any reservation, remove buildings

For the rooms, there is a hierarchy:

1. like a project hall, lecture hall, etc

**Is there anything you would explicitly like (or not)**

1. The application should not be cluttered
2. No chat capabilities
3. Be able to add new buildings or remove it (only system admins, he can literally do anything, cancel anything etc)

**Backlog:**

General:

-Create database

-Simple authentication

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-UI

Functionality:

-Want overview of application (reservations)

-Make a reservation of a room

-Reserve a bike

-See extra space (Non-reservable)

Calendar

Create building class

Create abstract room class

* Lecture halls
* Project rooms

Create bike class

Create abstract Person

-student

-staff

-teacher

-admin?

**Who does what:**

Databases: **Kendra** and **Kanish** (research how to build one during weekend, maybe make a blueprint on how it will look/work aka. schema)

Classes/Methods Blueprint: **Eli**

Design: **Hidde**

Look into Authentication: **Scott**

Api: **Niels** and **Alex**

**Guys do not forget: Do git assignment till monday.**