

# Requirements (MoSCoW)

CSE2115 Software Engineering Methods Group 08b

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## Functional Requirements

### Must Haves

- As a user, I want to be able to authenticate myself (as an employee, a secretary or an admin), so the system knows who I am and what I can do on the platform.
- As a user, I want to be able to use my NetID and its associated password to login to the system.
- As a user, I want to be able to book a room with no limit on the duration but within the opening hours of the building.
- As a user, I won't be able to book a room if the room is already reserved for the time slot.
- As a user, I want to be able to distinguish between buildings by their number and opening hours.
- As a user, I want to be able to see rooms and its details (opening hours, capacity, equipment, building number).
- As a user, I want to see my bookings in my schedule.
- As an admin, I want only employees of TU Delft to be able to make a reservation.

- As an admin, I want to be able to see all the bookings in the system.

### **Should Haves**

- As a secretary, I want to be able to make meetings for the research group I am a part of/work for.
- As a user, I want to be able to search for a room with specific characteristics, like available equipment, size, location, and availability.
- As an admin, I want the users to specify the purpose of the meeting while booking the room.
- As a user, I want to be able to search for a room by its specific building and room number combination.
- As a user, I want to be able to see my schedule and what rooms are booked for me.
- As an admin, I do not want users to be able to make a booking more than two weeks in advance.
- As an admin, I do not want users to be able to make multiple bookings within an overlapping time frame.
- As an admin, I want to be able to edit or delete a booking for users and provide an explanation for it.

### **Could Haves**

- As a user, I want to be able to mark (the equipment in) a room as defective, so the room can be marked for maintenance.
- As an admin, I want to be able to mark rooms for maintenance, so they cannot be booked.
- As a user, I want to be able to submit how many people will be in my room, to aid with social distancing guidelines and other logistics.
- As a secretary I want to be able to edit or cancel the bookings made by the members of my research group.
- As a user, I want to be able to submit the NetIDs of other attendees, so they can see the reservation in their schedule as well.

### **Won't Haves**

- As an admin, I do not want other users to be able to edit or cancel the bookings for other users.
- As an admin, I do not want users to be able to book a room under maintenance.

## Non-Functional Requirements

- Built in a way that extra functionalities can be added (modular approach).
- Individual components should be scalable.
- System should be written in Java 11.
- No GUI, but handles interactions via APIs.
- System to be built with Spring Boot and Gradle.
- The authentication should be implemented with Spring Security.
- Passwords must be stored in a secure way (encryption).