**Capstone Room Reservation Team**

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# **Project Description**

The “Capstone Meeting Rooms and Study Area Online Scheduling System” will allow students to quickly and easily book meeting rooms. Its central functionality will be the reservation of rooms for desired time-slots. A single person or a group of students can book a room for one time or have a recurring reservation.

A key feature of the system will be role based priority. Capstone teams and students in certain pre-authorized courses will have priority to book rooms. This means that higher priority groups will be allowed to book rooms before lower priority groups.

The system will allow the administration staff to define rules pertaining to room scheduling, for example how many rooms can be booked in a certain time frame, how long they can be booked for, etc. This will be accessible through an administration area that will allow maximum configuration of the system. This administration area will also offer reports on room usage and allow viewing all past activity on the system.

To verify that rooms are being efficiently used and that no room remains reserved when no one is in them, students will register when they arrive at the room by swiping their student ID cards in a card reader. This way if students do not show up to a booking, the room can be freed for use by someone else. By doing this, other students can put themselves in a waitlist for a certain time and be notified when a room is free. The card readers can also be used for quickly booking an available room without needing to access the system manually.

The system can possibly be built on top of the existing booking system, which is a possibility that will be investigated. Otherwise it will be built from the ground up. In either case, a new, modern, easy to use web application will be provided to the end users, as well as, time permitting, a mobile application.

# **Competition**

# **Search terms**: list the terms you used in your search

Reservation system

Booking system

Conference room booking system

**Number of pages examined**: should be at least 25 links

* <https://www.capterra.com/sem-compare/appointment-scheduling-software?gclid=EAIaIQobChMIiJ_Owb2i3QIVmJOzCh3MyA2xEAAYASAAEgIjA_D_BwE&gclsrc=aw.ds>
* <https://thereceptionist.com/15-best-scheduling-tools-for-coworking-spaces/>
* <https://www.skedda.com/home/coworking-software>
* <https://desktime.com/>
* <https://www.capterra.com/reservations-software/>
* <https://www.cobot.me/>
* <http://coworking.nexudus.com/en>
* <https://www.schedulething.com/industry/coworking-spaces/>
* <https://www.yarooms.com/>
* <https://www.roombookingsystem.co.uk>
* <https://www.condecosoftware.com/products/meeting-room-booking/>
* <https://www.roomzilla.net>
* <https://www.teem.com/products/>
* [Current Capstone room booking system](https://capstone.encs.concordia.ca/view_v.php?id=3)
* <https://www.bookedscheduler.com/>
* <https://www.meetingroomapp.com/product/>
* <https://classroombookings.com>
* <https://robinpowered.com>
* <https://www.workscape.io>
* <https://getjoan.com>
* <https://www.pronestor.com>
* <https://support.office.com/en-us/article/find-a-conference-room-2e00ac07-cef1-47c8-9b99-77372434d3fa>
* <https://simplybook.me/en/online-scheduler-for-events-and-entertainment-services/online-scheduler-for-meeting-rooms>
* <https://www.planyo.com/conference-room-reservation-system.php>
* <https://www.phpjabbers.com/meeting-room-booking-system/>
* <https://www.iotconnect.io/meeting-room-booking-system.html>

# **Most Relevant Competitors**

### [Current Capstone room booking system](https://capstone.encs.concordia.ca/view_v.php?id=3)

The current system offers a rudimentary solution with a dated user interface that is very hard to use. It is not at all user friendly and makes it extremely difficult to book a room, which is the only functionality it offers. The proposed system would be much more user friendly and would provide a lot more functionality and allow administrators to customize it very easily.

## [Booked](https://www.bookedscheduler.com/)

Booked is the tool used by the Concordia library for booking its study rooms. It is a great solution with many of the features described above. The main feature this solution is lacking that we propose is to use key card readers for checking in to rooms. This is necessary because of the “unreliable” nature of the users, who might not show up to bookings and thus it is important to be able to assure that they are physically present for the booking, so that unused rooms can be reassigned.

## [Skedda](https://www.skedda.com/home/coworking-software)

Skedda is currently one of the most popular Room Booking systems in the industry. It is very user friendly and gives security to room administrators showing clearly who is using each room. However, it doesn’t allow a wait list for users waiting on booked rooms to be free in case if this one stills empty after a certain time. It also forces administrators to approve every new user which is annoying since every year there are new students becoming new users. The proposed system will make use of the Concordia student cards and allow a waiting list for reservations on booked rooms.

# **Description of Customer and Company**

Company: Concordia University

Customer: Raymond A Bruton

Title: Technician

Email: r.bruton@concordia.ca  
Telephone: 514-848-2424; ext. 3010  
Office: H0961-09

The company commissioning this software is Concordia University. Concordia University is an institution for both academics and research of various departments, with students and faculty members from all over the world.

The customer, Mr. Raymond Bruton, has a background in electronics, computers, and has experience with managing the current capstone room booking system. For this reason, Mr. Bruton has a vast knowledge of the system and thus of the improvements which can be made, as well as experience with the students. He has been able to gather feedback for improvements from the perspective of the students. As such our customer has valuable knowledge about the current and future capstone room booking system, as well as the hardware and software that will be part of the requirements.

The customer is interested in the development of a new capstone room booking system as the current system has flaws that can be remedied, as well as features that could be added to help automate and facilitate the process of booking a capstone room, both for the administration and for the students. The current system relies heavily on human interaction and judgement for following rules and a fairly long process to book a room. The customer could save a lot of effort and time if the system was more robust and easily configurable and that is the reason they are looking to have a new system developed.