**Use Cases**

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| **Use case name** | Client books project/meeting room |
| **Use case description** | A client wishes to book a project room from the system |
| **Actor** | Client (Students & Teachers) |
| **Pre-conditions** | None |
| **Basic Flow**  **(Success Scenario)** | 1. Client enters reservation system 2. Client selects date 3. Client selects time frame 4. Client selects the amount of people 5. System assigns the client a room 6. Notify client which room he’s been assigned |
| **Post-conditions** | Reservation has been created in repository and in rooms and users lists.  Room reservation event fired. |
| **Alternate Flow** | AF1: No rooms available  5. System cannot assign a room, throw exception  6. Notify user that no rooms are available |

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| **Use case name** | Client cancel own reservation |
| **Use case description** | A client wishes to cancel a reservation from the system |
| **Actor** | Client (Students & Teachers) |
| **Pre-conditions** | Client has reservation |
| **Basic Flow**  **(Success Scenario)** | 1. Client enters reservation system 2. Asks system for his/ hers reservation list 3. Select reservation/s to cancel 4. Asks to delete 5. Receives notifications that cancellation was successful |
| **Post-conditions** | Reservation(s) are removed from repository, and Rooms and Users lists.  Room cancellation event fired. |
| **Alternate Flow** | None significant |

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| **Use case name** | Admin books a room |
| **Use case description** | Admin needs to book a project/meeting/administration room.  Admins may need specific rooms for classes and such. |
| **Actor** | Admin (Reception, administration, e.t.c) |
| **Pre-conditions** | None |
| **Basic Flow**  **(Success Scenario)** | 1. Admin enters the reservation management system 2. Clicks “Add Reservation” 3. Selects the date and time for reservation 4. System updates list of available rooms 5. Selects user for the reservation 6. Select room for reservation 7. Requests reservation 8. System assigns room 9. Receives notification that room is reserved |
| **Post-conditions** | Reservation has been created  Room creation event fired. |
| **Alternate Flow** | None significant |

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| **Use case name** | Admin cancels a reservation |
| **Use case description** | An Admin needs to cancel a reservation |
| **Actor** | Admin (Reception, administration, e.t.c) |
| **Pre-conditions** | Reservations exist |
| **Basic Flow**  **(Success Scenario)** | 1. Admin enters reservation management system 2. OPT: Inputs criterias to filter list 3. Selects reservations to cancel 4. Clicks “Delete Reservation” button |
| **Post-conditions** | Reservation have been cancelled  Reservation cancellation event fired. |
| **Alternate Flow** | None significant |

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| **Use case name** | Notification System |
| **Use case description** | When certain notifications are fired, send emails notifying the change.  Notifications such as Room reservation confirmation, reservation cancellation, 15 minute reminder before the reservation. |
| **Actor** | System |
| **Pre-conditions** | An event was fired.  Event in list of action to email about |
| **Basic Flow**  **(Success Scenario)** | 1. Listen for events 2. Send email to users involved regarding event |
| **Post-conditions** | Email sent |
| **Alternate Flow** | None significant |