**Use Cases**

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| **Use case name** | Client reserves room |
| **Use case description** | A client wishes to reserve a 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, in rooms and users lists and in the database |
| **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 deletes own reservation |
| **Use case description** | A client wishes to delete a reservation from the system |
| **Actor** | Client (Students & Teachers) |
| **Pre-conditions** | Client has reservation |
| **Basic Flow**  **(Success Scenario)** | 1. Client enters reservation system 2. Client requests the system to display his reservations list 3. Client selects which reservation he wants to delete 4. Client requests for reservation to be deleted 5. Client receives notifications that cancellation was successful |
| **Post-conditions** | Reservation(s) are removed from repository, Rooms and Users lists and database. |
| **Alternate Flow** | None significant |

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| **Use case name** | Admin reserves a room |
| **Use case description** | Admin needs to reserve a 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. Admin requests to reserve a room 3. Admin selects the date and time for reservation 4. System updates the list of available rooms 5. Admin types username for the reservation 6. Admin selects room for reservation 7. Admin requests reservation 8. System assigns a room 9. Receives confirmation notification that room is reserved |
| **Post-conditions** | Reservation has been created |
| **Alternate Flow** | None significant |

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| **Use case name** | Admin deletes a reservation |
| **Use case description** | An Admin needs to delete a reservation |
| **Actor** | Admin (Reception, administration, e.t.c) |
| **Pre-conditions** | Reservation exists |
| **Basic Flow**  **(Success Scenario)** | 1. Admin enters reservation management system 2. OPT: Inputs criteria (from date to date, username) to filter list 3. Admin selects which reservation he wants to delete 4. Admin requests deleting the reservation |
| **Post-conditions** | Reservation has been deleted |
| **Alternate Flow** | None significant |

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| **Use case name** | Notification System |
| **Use case description** | System is sending a reminder 15 minutes before the client’s reservation is beginning. |
| **Actor** | System |
| **Pre-conditions** | Reservation must exist in repository  System must be running |
| **Basic Flow**  **(Success Scenario)** | 1. The system checks if there is any upcoming reservation 2. If there is an upcoming reservation, system sends reminder |
| **Post-conditions** | Reminder notification was sent |
| **Alternate Flow** | AF1: No reservation found  2. If there is no upcoming reservation, system checks again after one minute |