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| **Contract CO1** | Login |
| **Operation** | login(username: String, password: String) |
| **Cross-Reference** | UC1 – Log in |
| **Preconditions** | * None |
| **Post-Conditions** | * Instance of roomReservationSession rrs is created * Rrs is associated to the User * Rrs is associated to the Console * Rrs is associated to reservationCatalogue |

**Operational Contracts**

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| **Contract CO2** | Logout |
| **Operation** | logout() |
| **Cross-Reference** | UC2 – Log out |
| **Preconditions** | * Instance of roomReservationSession is underway |
| **Post-Conditions** | * roomReservationSession.isComplete was set to true |

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| **Contract CO3** | Register |
| **Operation** | Register() |
| **Cross-Reference** | UC3 – Create New User |
| **Preconditions** | * None |
| **Post-Conditions** | * Instance of roomRegistrationSession is created |

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| **Contract CO4** | Input |
| **Operation** | Input(username: String, password: String, email: String) |
| **Cross-Reference** | UC3 – Create New User |
| **Preconditions** | * Instance of roomRegistrationSession is underway |
| **Post-Conditions** | * An Instance of User object user is created * User is associated to roomRegistrationSession. * User.username was set to username. * User.password was set to password. * User.email was set to email. * roomRegistrationSession.isComplete set to true |

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| **Contract CO5** | viewReservation |
| **Operation** | viewReservation() |
| **Cross-Reference** | UC4 – View Schedule |
| **Preconditions** | * Instance of roomReservationSession is underway |
| **Post-Conditions** | * Schedule was associated to Console |

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| **Contract CO6** | MakeReservation |
| **Operation** | makeReservation(room: Room, timeslot: Timeslot) |
| **Cross-Reference** | UC6 – Create Reservation |
| **Preconditions** | * Instance of roomReservationSession is underway |
| **Post-Conditions** | * An Instance of Reservation res was created. * Res was associated with roomReservationSession * Res.room was set to room * Res.timeslot was set to timeslot |

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| **Contract CO7** | SelectReservation |
| **Operation** | selectReservation() |
| **Cross-Reference** | UC6 – Create Reservation |
| **Preconditions** | * Instance of roomReservationSession is underway |
| **Post-Conditions** | * None? |

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| **Contract CO8** | ModifyReservation |
| **Operation** | modifyReservation(reservationID: int ,description: String) |
| **Cross-Reference** | UC8 – Modify Reservation |
| **Preconditions** | * Instance of roomReservationSession is underway * User has at least one reservation |
| **Post-Conditions** | * Reservation.description was changed to description |

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| **Contract CO9** | DropReservation |
| **Operation** | dropReservation(reservationID: int) |
| **Cross-Reference** | UC7 – Cancel Reservation |
| **Preconditions** | * Instance of roomReservationSession is underway |
| **Post-Conditions** | * Instance of Reservation res was no longer associated to roomReservationSystem * Res was deleted. |