

Identification of system operations

createOffering(location, city, time, type, duration, startDate, endDate)

existsByCityAndLocationAndTimeAndStartDate(location, city, location, time, startDate)

makeBooking(offering)

takeOnOffering(offering)

Operation contract

<u>Contract CO2:</u>	createOffering
<u>Operation:</u>	createOffering(location, city, time, type, duration, startDate, endDate)
<u>Cross References:</u>	Use case: Process Offering.
<u>Preconditions:</u>	Offering does not already exist.
<u>Postconditions:</u>	An Offering instance o was created. Instance o was associated with Offerings.

<u>Contract CO2:</u>	makeBooking
<u>Operation:</u>	makeBooking(offering)
<u>Cross References:</u>	Use case: Process Booking.
<u>Preconditions:</u>	Client is registered.
<u>Postconditions:</u>	A Booking instance b was created. Instance b was associated with Bookings. Instance offering was marked as unavailable.

<u>Contract CO2:</u>	takeOnOffering
<u>Operation:</u>	takeOnOffering(offering)
<u>Cross References:</u>	Use case: Take On Offering.
<u>Preconditions:</u>	offering exists. offering location corresponds to Instructor availabilities.
<u>Postconditions:</u>	offering was added to Instructor offerings.