**System operations**

* find(space)
* createSchedule(startDate, endDate, startTime, endTime,duration)
* makeNewOffering(space, schedule, lessonType, lessonDuration)
* ViewOfferings() 🡪 instructor
* SelectOffering()
* endOfferingsSelection()
* viewOffering() 🡪 Public

**Operation contracts**

**Contract CO1: find space**

* **Operation :** find(space)
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:**
* The user must be the administrator.
* Space must exist.
* **Postconditions:** Space is found and returned.

**Contract CO2: Create Schedule**

* **Operation :** createSchedule(startDate, endDate, startTime, endTime,duration)
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:** validate start and end datetime.
* **Postconditions:**
  + Schedule is created and returned.

**Contract CO3: make Offering**

* **Operation :** makeNewOffering(space, schedule, lessonType, lessonDuration)
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:**
  + Schedule must exist.
  + Space must exist.
  + Validate lesson type and lesson duration.
* **Postconditions:** 
  + Offering is associated with schedule.
  + Offering is associated with Space.

**Contract CO4: instructor view offerings**

* **Operation :** ViewOfferings()
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:** Validate instructor.
* **Postconditions:** Display all offerings available to the instructor.

**Contract CO5: select offer**

* **Operation :** SelectOffering()
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:** Offerings are available to select.
* **Postconditions:** Offering was associated with instructor.

**Contract CO6: end offer selection**

* **Operation :** endOfferingsSelection()
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:** offerings are associated with instructor.
* **Postconditions:** Offerings are stored in database as available to public.

**Contract CO7: public offerings view**

* **Operation :** viewOffering()
* **Cross References :** Use Case: Process Offerings.
* **Preconditions:** offerings are associated with instructors.
* **Postconditions:** Display all offerings available to the public.