

System Operations and Operation Contracts

Contract: viewLocations

Operation: viewLocations()

Cross reference : Administrator success SSD

Preconditions:

1. The user has already been authenticated by the system.

Postconditions:

1. List of locations is fetched from the system.
2. List of locations is returned.

Contract: makeLocationAvailable

Operation: makeLocationAvailable(location: Location, availability: Availability)

Cross reference : Administrator success SSD

Preconditions:

1. The user is already signed into the system as an administrator.
2. Location and Availability objects already exist.

Postconditions:

1. Instance of Availability was associated with location.

Contract: registerAsInstructor

Operation: registerAsInstructor(credentials: Credentials, specialization: Specialization)

Cross reference : Instructor success SSD

Preconditions:

1. Credentials and Specialization already exist.
2. There is no other instructor with the same phone number already existing.

Postconditions:

1. An instance of Instructor, i, has been created and stored.
2. The instance i, was associated with credentials.
3. The instance i, was associated with specialization.

Contract: registerAvailabilities

Operation: registerAvailabilities(cities: City[])

Cross reference : Instructor success SSD

Preconditions:

1. The user is already signed into the system as an instructor.
2. City objects in cities already exist.

Postconditions:

1. An instance of Instructor, i, was fetched from the system.
2. Instance i, was associated with cities.

Contract: viewOfferings

Operation: viewOfferings()

Cross reference : Instructor success SSD

Preconditions:

1. The user is already signed into the system as an instructor.

Postconditions:

1. The existing offerings are fetched from the system and put into a collection Offerings.
2. The collection Offerings is returned.

Contract: takeOffering

Operation: takeOffering(offering: Offering)

Cross reference : Instructor success SSD

Preconditions:

1. The user is already signed into the system as an instructor.
2. Offering object already exists

Postconditions:

1. An instance of Instructor, i, was fetched from the system.
2. Instance i was associated with Offering.

Contract: modifyOffering

Operation: modifyOffering(offering: Offering, newOffering: Offering)

Cross reference : Administrator success SSD

Preconditions:

1. The user is already signed into the system as an administrator.
2. Offering and newOffering objects already exists.

Postconditions:

1. An instance of Offering o, is fetched from the system.
2. The instance o, is updated with the info from newOffering.
3. The instance o, is saved in the system.

Contract: deleteAccount

Operation: deleteAccount(account: Account)

Cross reference :

Preconditions:

1. The user is already signed into the system as an administrator.
2. Account object already exists.

Postconditions:

1. An instance of account a, is fetched from the system.
2. Instance a is deleted from the system.

Contract: deleteOffering

Operation: deleteAccount(offering: Offering)

Cross reference :

Preconditions:

1. The user is already signed into the system as an administrator.
2. Offering object already exists.

Postconditions:

1. An instance of offering o, is fetched from the system.
2. Instance o is deleted from the system.

Contract: takeBooking

Operation: takeBooking(offering: Offering, client: Client)

Cross reference :

Preconditions:

1. The user is already signed into the system as a client above the age of 18.
2. Offering object already exists.

Postconditions:

1. An instance of client, c, was fetched from the system.
2. Instance c was associated with Offering.