<u>System Operations</u> Use Case 2: Process Bookings

- login(email, password)

- viewAvailableOfferings()

- createBooking(client, offering)

- viewBookings()

- cancelBooking(booking)

Contract CO5: viewAvailableOfferings

Operation: viewAvailableOfferings()

Cross References: Use Case: Process Bookings

Preconditions:

- User is a Client.

- Client is logged into the system.

- There is at least one existing offering in the system with available status to clients.

Postconditions:

- All offerings available to clients are returned.

Contract CO6: createBooking

Operation: createBooking(client, offering)

Cross References: Use Case: Process Bookings

Preconditions:

- User is a Client.

- Client is logged into the system.

- The selected offering exists in the system with available status to clients.

Postconditions:

- A booking object, *booking*, is created. (instance creation)

- *booking* is associated with client and offering (formation of association)

- The offering selected in the booking becomes modified to not available to the client (attribute modification).

- Available capacity of the offering selected decreases by 1 (attribute modification)

Contract CO7: viewBookings

Operation: viewBookings()

Cross References: Use Case: Process Bookings

Preconditions:

- User is a Client.

- Client is logged into the system.

- Client has at least one booking

Postconditions:

- All bookings associated with the client are returned.

Contract CO8: cancelBooking

Operation: cancelBooking(booking)

Cross References: Use Case: Process Bookings

Preconditions:

- User is a Client.

- Client is logged in.

- The client has at least one booking

Postconditions:

- A booking object, *booking*, is deleted. (instance deletion)

- The association *booking* between client and offering is deleted (deletion of association)

- The offering selected in the booking becomes modified to available to the client (attribute modification).

- Available capacity of the offering selected increases by 1 (attribute modification)