

| CreateBooking() | | | | | | | | | |
|-----------------|-----------------------|-----------|----------|---------|-----------|-------------|-----------|---------|--------|
| Identifier | Constraint Violated | bookingId | student | course | schedule | BookingDate | StartTime | EndTime | Result |
| 1 | passed | bookingId | student1 | course1 | schedule1 | 2019-01-01 | 0:00:00 | 0:00:30 | P |
| 2 | bookingId = null | null | student1 | course1 | schedule1 | 2019-01-01 | 0:00:00 | 0:00:30 | F |
| 3 | bookingDate = null | bookingId | student1 | course1 | schedule1 | null | 0:00:00 | 0:00:30 | F |
| 4 | StartTime = null | bookingId | student1 | course1 | schedule1 | 2019-01-01 | null | 0:00:30 | F |
| 5 | EndTime = null | bookingId | student1 | course1 | schedule1 | 2019-01-01 | 0:00:00 | null | F |
| 5 | bookingId = "" | "" | student1 | course1 | schedule1 | 2019-01-01 | 0:00:00 | 0:00:30 | F |
| 6 | bookingId = "" | " " | student1 | course1 | schedule1 | 2019-01-01 | 0:00:00 | 0:00:30 | F |
| 7 | EndTime .isBefore(Sta | bookingId | student1 | course1 | schedule1 | 2019-01-01 | 1:00:00 | 0:01:00 | F |

updateBookingId()

| Identifier | Constraint Violated | pastBookingId | newBookingId | Result |
|------------|----------------------|----------------|---------------|--------|
| 1 | none(positive test) | pastBookingId1 | newBookingId1 | P |
| 2 | pastBookingId = null | null | newBookingId1 | F |
| 3 | pastBookingId = "" | "" | newBookingId1 | F |
| 4 | pastBookingId = " " | " " | newBookingId1 | F |
| 5 | newBookingId = null | pastBookingId1 | null | F |
| 6 | newBookingId = "" | pastBookingId1 | "" | F |
| 7 | newBookingId= " " | pastBookingId1 | " " | F |

updateBookingDate()

| Identifier | Constraint Violated | bookingID | newBookingDate | result |
|------------|-----------------------|------------|-----------------|--------|
| 1 | none(positive test) | bookingID1 | newBookingDate1 | P |
| 2 | newBookingDate = null | bookingID1 | null | F |

updateBookingTime()

| Identifier ▼ | Constraint Violated ▼ | bookingID ▼ | newStartTime ▼ | newEndTime ▼ | Result ▼ |
|--------------|-----------------------|-------------|----------------|--------------|----------|
| | none(positive test) | bookingID1 | 0:00:00 | 0:01:00 | P |
| | newStartTime= null | bookingID1 | null | 0:01:00 | F |
| | newEndTime = null | bookingID1 | 0:01:00 | null | F |
| | newEndTime.isBefore(| bookingID1 | 0:01:00 | 0:00:00 | F |

Course

createCourse()

| Identifier | Constraint Violated | courseId | Result |
|------------|---------------------|-----------|--------|
| 1 | none(positive test) | courseId1 | P |
| 2 | courseId = null | null | F |
| 3 | courseId = "" | "" | F |
| 4 | courseId = " " | " " | F |

updateCourseId()

| Identifier | Constraint Violated | pastCourseId | newCourseId | Result |
|------------|---------------------|---------------|--------------|--------|
| 1 | none(positive test) | pastCourseId1 | newCourseId1 | P |
| 2 | pastCourseId = null | null | newCourseId1 | F |
| 3 | pastCourseId = "" | "" | newCourseId1 | F |
| 4 | pastCourseId = " " | " " | newCourseId1 | F |
| 5 | newCourseId = null | pastCourseId1 | null | F |
| 6 | newCourseId = "" | pastCourseId1 | "" | F |
| 7 | newCourseId = " " | pastCourseId1 | " " | F |

addCourseTutor()

| Identifier | Constraint Violated | courseId | tutor | Result |
|------------|---------------------|-----------|--------|--------|
| 1 | none(positive test) | courseId1 | tutor1 | P |
| 2 | tutor = null | courseId1 | null | F |

removeCourseTutor()

| Identifier | Constraint Violated | courseId | tutor | Result |
|------------|---------------------|-----------|--------|--------|
| 1 | none(positive test) | courseId1 | tutor1 | P |
| 2 | tutor = null | courseId1 | null | F |

Room

createRoom()

| Identifier | Constraint Violated | roomId | size | Result |
|------------|---------------------|---------|-------|--------|
| 1 | none(positive test) | roomId1 | LARGE | P |
| 2 | roomId = null | null | LARGE | F |
| 3 | roomId = "" | "" | LARGE | F |
| 4 | roomId = " " | " " | LARGE | F |
| 5 | size = null | roomId1 | null | F |

updateRoomId()

| Identifier | Constraint Violated | pastRoomId | newRoomId | Result |
|------------|---------------------|------------|-----------|--------|
| 1 | none(positive test) | roomId1 | roomId2 | P |
| 2 | pastRoomId = null | null | roomId2 | F |
| 3 | pastRoomId = "" | "" | roomId2 | F |
| 4 | pastRoomId = " " | " " | roomId2 | F |
| 5 | newRoomId = null | roomId1 | null | F |
| 6 | newRoomId = "" | roomId1 | "" | F |
| 7 | newRoomId = " " | roomId1 | " " | F |

updateRoomSize()

| Identifier | Constraint Violated | roomId | newRoomSize | Result |
|------------|---------------------|---------|-------------|--------|
| 1 | none(positive test) | roomId1 | LARGE | P |
| 2 | newRoomSize = null | roomId1 | null | F |

Schedule

createSchedule()

| Identifier | Constraint Violated | scheduleId | tutor | Result |
|------------|---------------------|-------------|--------|--------|
| 1 | none(positive test) | scheduleId1 | tutor1 | P |
| 2 | scheduleId= null | null | tutor1 | F |
| 3 | scheduleId = "" | "" | tutor1 | F |
| 4 | scheduleId = " " | " " | tutor1 | F |
| 5 | tutor = null | scheduleId1 | null | F |

Student

createStudent()

| Identifier | Constraint Violated | name | id | Result |
|------------|---------------------|-------|------|--------|
| 1 | none(positive test) | name1 | id1 | P |
| 2 | name= null | null | id1 | F |
| 3 | name = "" | "" | id1 | F |
| 4 | name = " " | " " | id1 | F |
| 5 | id= null | name1 | null | F |
| 6 | id = "" | name1 | "" | F |
| 7 | id = " " | name1 | " " | F |

| Tutor | | | | | | |
|---------------|---------------------|-------|------|--------|--------|---|
| createTutor() | | | | | | |
| Identifier | Constraint Violated | name | id | rating | Result | |
| 1 | none(positive test) | name1 | id1 | | 0 | P |
| 2 | name= null | null | id1 | | 0 | F |
| 3 | name = "" | "" | id1 | | 0 | F |
| 4 | name = " " | " " | id1 | | 0 | F |
| 5 | id= null | name1 | null | | 0 | F |
| 6 | id = "" | name1 | "" | | 0 | F |
| 7 | id = " " | name1 | " " | | 0 | F |

UpdateTutorId

| Identifier | Constraint Violated | pastId | newID | Result |
|------------|---------------------|---------|--------|--------|
| 1 | none(positive test) | pastId1 | newID1 | P |
| 2 | pastId= null | null | newID1 | F |
| 3 | pastId = "" | "" | newID1 | F |
| 4 | pastId = " " | " " | newID1 | F |
| 5 | newID= null | pastId1 | null | F |
| 6 | newID = "" | pastId1 | "" | F |
| 7 | newID = " " | pastId1 | " " | F |

UpdateTutorName()

| Identifier | Constraint Violated | id | newName | Result |
|------------|---------------------|-----|----------|--------|
| 1 | none(positive test) | id1 | newName1 | P |
| 2 | newName= null | id1 | null | F |
| 3 | newName = "" | id1 | "" | F |
| 4 | newName = " " | id1 | " " | F |

User

createUser()

| Id | Constraint Violated | username | password | Result |
|----|---------------------|-----------|-----------|--------|
| 1 | none(positive test) | username1 | password1 | P |
| 2 | username= null | null | password1 | F |
| 3 | username = "" | "" | password1 | F |
| 4 | username = " " | " " | password1 | F |
| 5 | password= null | username1 | null | F |
| 6 | password = "" | username1 | "" | F |
| 7 | password = " " | username1 | " " | F |

updateUserUsername()

| Identifier | Constraint Violated | pastUsername | newUsername | Result |
|------------|---------------------|--------------|-------------|--------|
| 1 | none(positive test) | username1 | username2 | P |
| 2 | pastUsername= null | null | username2 | F |
| 3 | pastUsername = "" | "" | username2 | F |
| 4 | pastUsername = " " | " " | username2 | F |
| 5 | newUsername= null | username1 | null | F |
| 6 | newUsername = "" | username1 | "" | F |

| | | | | |
|---|-------------------|-----------|-----|---|
| 7 | newUsername = " " | username1 | " " | F |
|---|-------------------|-----------|-----|---|

updateUserPassword()

| Identifier | Constraint Violated | username | newPassword | Result |
|------------|---------------------|-----------|-------------|--------|
| 1 | none(positive test) | username1 | password1 | P |
| 2 | pastPassword= null | null | password1 | F |
| 3 | pastPassword = "" | "" | password1 | F |
| 4 | pastPassword = " " | " " | password1 | F |
| 5 | newPassword= null | username1 | null | F |
| 6 | newPassword = "" | username1 | "" | F |
| 7 | newPassword = " " | username1 | " " | F |

Review

createReview()

| Identifier | Constraint Violated | reviewId | bookingId | Result |
|------------|---------------------|-----------|------------|--------|
| 1 | none(positive test) | reviewId1 | bookingId1 | P |
| 2 | reviewId= null | null | bookingId1 | F |
| 3 | reviewId = "" | "" | bookingId1 | F |
| 4 | reviewId = " " | " " | bookingId1 | F |
| 5 | bookingId= null | reviewId1 | null | F |
| 6 | bookingId = "" | reviewId1 | "" | F |
| 7 | bookingId= " " | reviewId1 | " " | F |