Unit Test Report

Unit Tests have been created for the classes that make up the data management layer. The results of the test suite are presented in the following table.

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| Operation Performed | Condition Tested | Result |
| **MemberManager tests** |  | Test passed. |
| Test adding an attendee to a class | The number of members should be 1. | Test passed. |
| Test removing an attendee from a class | The number of members should be 0. | Test passed. |
| Test deleting a member that is not in the attendee list. | Add 1 member. Attempt to remove an invalid member ID. The number of members should be 1. | Test passed. |
| **SessionManager tests** |  | Test passed. |
| Test adding a new class session | The number of sessions should be 1. | Test passed. |
| Test removing a class session | The number of sessions should be 0. | Test passed. |
| **InstructorManager tests** |  | Test passed. |
| Test adding a new instructor | The number of instructors should be 1. | Test passed. |
| Test removing an instructor | The number of instructors should be 0. | Test passed. |
| Test removing an invalid instructor | Add 1 instructor. Attempt to remove an invalid instructor ID. The number of instructors should be 1. | Test passed. |
| **Session tests** |  | Test passed. |
| Test adding a new member to a session | Create a new session. Add a new member to the session. The number of attendees should be 1. | Test passed. |
| Test removing a member from a session. | Remove a member from a session. The number of attendees should be 0. | Test passed. |
| Test adding a duplicate member ID to a session | Create a new session. Attempt to add the same member twice. The number of attendees should be 1. | Test passed. |
| Test adding a payment record to a session | Create a new session and a new member. Add the member to the list of attendees and the list of those who have paid. The number of paid attendees should be 1. | Test passed. |
| Test removing a payment record from a session | Create a new session and 2 new members. Add both members as attendees, and as paid attendees. Remove 1 member from the list of paid attendees. The number of paid attendees should be 1. | Test passed. |
| Test adding a payment record for a member who did not attend | Create a new session and a new member. Attempt to add the member to the list of paid attendees. The Session class should throw an IllegalArgumentException. | Test passed. |
| Test adding 2 payment records for the same member | Create a new session and a new member. Add the member to the list of attendees. Add the member to the list of paid attendees twice. The number of paid attendees should be 1. | Test passed. |
| Test the revenue accounting | Create a new session and 3 new members. Add all 3 members to the list of attendees. Add 2 members to the list of paid attendees. The reported money collected should be 2 times the class price ($20). | Test passed. |

Test Output  
  
Running Session tests...

JUnit version 4.12

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Time: 0.018

OK (6 tests)

Running MemberManager tests...

JUnit version 4.12

...

Time: 0.016

OK (3 tests)

Running SessionManager tests...

JUnit version 4.12

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Time: 0.016

OK (2 tests)

Running InstructorManager tests...

JUnit version 4.12

...

Time: 0.018

OK (3 tests)