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CM 784

Lab 3

1. The source code is found in the 'Expedia' project. The test code is found in the 'ExpediaTest' project.
2. The classes are AssemblyInfo, Booking, Car, Flight, Hotel, and User.
3. The Flight class tells what day a flight leaves and when it returns along with the number of miles of the flight.
4. The test classes are BookingTest, CarTest, FlightTest, HotelTest, and UserTest.
5. The test methods in the UserTest class are TestThatUserInitializes(), TestThatUserHasZeroFrequentFlierMilesOnInit(), TestThatUserCanBookEverything(), TestThatUserHasFrequentFlierMilesAfterBooking(), TestThatUserCanBookAFlight(), TestThatUserCanBookAHotelAndACar(), and TestThatUserHasCorrectNumberOfFrequentFlyerMilesAfterOneFlight()
6. Assert supports AreEqual(), AreSame(), and IsTrue().
7. AreEqual() verifies that two objects are equal. AreSame() verifies that two objects refer to the same project. IsTrue() verifies that a condition is true.
8. AreEqual() verifies that the values are the same, AreSame() verifies that the references are the same.
9. TestThatHotelInitializes() is verifying that the constructor in the Hotel class is working properly.
10. The generic algorithm for calculating getBasePrice() is multiplying the number of nights to rent by 45.
11. The initial cases and a higher case are tested with these new tests.
12. The target is an integer calculated by the other class, so the value will not be null.
13. If the number provided for nights to rent is not a positive number, the method throws an exception.
14. [ExpectedException(typeof(OutOfMemoryException))]