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Software Development Capstone – C868

Unit Test

A simple unit test will be created to ensure that the computer object isn't modified while instantiating. I'll create a computer object using a constructor and check to make sure that the data remains the same. There will be validation that the fields from the computer object to check that they match and that there is a mismatch. The unit test will be completed using the xUnit framework.

Unit Test Class

```
UnitTest.cs  X
XUnitTestProject  XUnitTestProject.UnitTest  MismatchTest()

using System;
using Xunit;
using JGR_WGU_Capstone.Models;

namespace XUnitTestProject
{
    0 references
    public class UnitTest
    {
        readonly Computer comp = new Computer("123", "Dell", "Latitude", DateTime.Parse("01/27/2014"));

        [Fact]
        0 references
        public void MatchTest()
        {
            Assert.Equal("123", comp.SerialNumber);
            Assert.Equal("Dell", comp.Manufacturer);
            Assert.Equal("Latitude", comp.Model);
            Assert.Equal("1/27/2014 12:00:00 AM", comp.PurchaseDate.ToString());
        }

        [Fact]
        0 references
        public void MismatchTest()
        {
            Assert.NotEqual("456", comp.SerialNumber);
            Assert.NotEqual("HP", comp.Manufacturer);
            Assert.NotEqual("Pavilion", comp.Model);
            Assert.NotEqual("2/15/2018 12:00:00 AM", comp.PurchaseDate.ToString());
        }
    }
}
```

Unit Test Results

Test Explorer

2

2

0

Search Test Explorer

Test	Duration	Traits	Error Message
✔ XUnitTestProject (2)	5 ms		
✔ XUnitTestProject (2)	5 ms		
✔ UnitTest (2)	5 ms		
✔ MatchTest	< 1 ms		
✔ MismatchTest	5 ms		

Test Detail Summary

✔ XUnitTestProject.UnitTest.MismatchTest

Source: [UnitTest.cs](#) line 21

Duration: 5 ms