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using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using SwinAdventure;

namespace SwinAdventureTest
{
    public class LookCommandtest //Change from internal to public
    {
        private Item gem;
        private Bag bag;
        private Player player;
        private LookCommand look;
        [SetUp]
        public void SetUp()
        {
            look = new LookCommand();

            player = new Player("Truong Ngoc Gia Hieu", "Swinburne Warrior");
            bag = new Bag(new string[] { "bag" }, "Hieu's Bag", "A small Bag");

            gem = new Item(new string[] { "gem" }, "a gem", "A bright red gem");

            player.Inventory.Put(bag);
        }
        [Test]
        public void TestLookAtGem()
        {
            player.Inventory.Put(gem);

            string output = look.Execute(player, new string[] { "look", "at", "gem" });
            string expected = "A bright red gem";
            Assert.AreEqual(expected, output);
        }
        [Test]
        public void TestLookAtMe()
        {
            string output = look.Execute(player, new string[] { "look", "at", "inventory" });
            string expected = "Truong Ngoc Gia Hieu, Swinburne Warrior\nList of Items that you have:\nHieu's Bag (bag)\n";
            Assert.AreEqual(expected, output);
        }
    }
}
```

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[Test]
public void TestLookAtGemInMe()
{
    player.Inventory.Put(gem);

    string output = look.Execute(player, new string[] { "look", "at",
        "gem", "in", "inventory" });
    string expected = "A bright red gem";
    Assert.AreEqual(expected, output);
}

[Test]
public void TestLookAtUnk()
{
    // Test looking at an unknown item
    string output = look.Execute(player, new string[] { "look", "at",
        "gem" });
    string expected = "I cannot find the gem in the Truong Ngoc Gia
        Hieu";
    Assert.AreEqual(expected, output);
}

[Test]
public void TestLookatGemInNoBag()
{
    Player player1 = new Player("NPC", "Robot Warrior");

    string output = look.Execute(player1, new string[] { "look", "at",
        "gem", "in", "bag" });
    string expected = "I cannot find the gem";
    Assert.AreEqual(expected, output);
}

[Test]
public void TestLookAtGemInBag()
{
    // Put the gem in the bag
    bag.Inventory.Put(gem);

    // Test looking at the gem in the bag
    string output = look.Execute(player, new string[] { "look", "at",
        "gem", "in", "bag" });
    string expected = "A bright red gem";
    Assert.AreEqual(expected, output);
}

[Test]
public void TestInvalidLookCommands()
{
}
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    string output1 = look.Execute(player, new string[] { "look",  
        "around" });  
    string output2 = look.Execute(player, new string[] { "hello" });  
    string expected = "I don't know how to look like that";  
  
    Assert.AreEqual(expected, output1);  
    Assert.AreEqual(expected, output2);  
}  
  
[Test]  
public void TestLookAtNoGemInBag()  
{  
    // Create an empty bag  
    Bag emptyBag = new Bag(new string[] { "emptybag" }, "Empty Bag",  
        "An empty bag");  
  
    // Put the empty bag in the player's inventory  
    player.Inventory.Put(emptyBag);  
  
    // Test looking at the gem in the empty bag  
    string output = look.Execute(player, new string[] { "look", "at",  
        "gem", "in", "emptybag" });  
    string expected = "I cannot find the gem in the Empty Bag";  
    Assert.AreEqual(expected, output);  
}  
}
```