

COS20007 Object Oriented Programming

Credit Task 10.1C: Case Study — Iteration 8: Command Processor

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PickUpCommand.cs

```
namespace SwinAdventure
{
    public class PickUpCommand : Command
    {
        public PickUpCommand()
            : base(new string[] { "pickup", "take" }) { }

        public override string Execute(Player p, string[] text)
        {
            IHaveInventory container = null;
            string containerId = null;
            string itemId = null;
            switch (text.Length)
            {
                case 2:
                    itemId = text[1].ToLower();
                    container = p.CurrentLocation;
                    break;
                case 4:
                    if (text[2].ToLower() != "from")
                        return "Where do you want to pick up from?";
                    if (text[3].ToLower() == "room")
                        container = p.CurrentLocation;
                    else
                    {
                        containerId = text[3].ToLower();
                        container = FetchContainer(p.CurrentLocation, containerId);
                    }
                    itemId = text[1].ToLower();
                    break;
                default:
                    return "I don't know how to pick up like this.";
            }
            if (container == null)
                return $"We cannot find the {containerId}.";

            Item itm = GetItem(itemId, container);
            if (itm == null)
                return $"There is no such {itemId} to pick up.";

            p.Inventory.Put(itm);
            return $"You have taken {itm.ShortDescription.Split("(")[0].Trim()} from the {container.Name.ToLower()}";
        }

        private IHaveInventory FetchContainer(Location l, string containerId)
        {
            return l.Locate(containerId) as IHaveInventory;
        }

        private Item GetItem(string itemId, IHaveInventory container)
        {
            Item itm = container.Inventory.Take(itemId);
            return itm;
        }
    }
}
```

PutCommand.cs

```
namespace SwinAdventure
{
    public class PutCommand : Command
    {
        public PutCommand()
            : base(new string[] { "put", "drop" }) { }

        public override string Execute(Player p, string[] text)
        {
            IHaveInventory container = null;
            string containerId = null;
            string itemId = null;
            switch (text.Length)
            {
                case 2:
                    itemId = text[1].ToLower();
                    container = p.CurrentLocation;
                    break;
                case 4:

```

```

        if (text[2].ToLower() != "in")
            return "Where do you want to put into?";
        if (text[3].ToLower() == "room")
            container = p.CurrentLocation;
        else
        {
            containerId = text[3].ToLower();
            container = FetchContainer(p.CurrentLocation, containerId);
        }
        itemId = text[1].ToLower();
        break;
    default:
        return "I don\'t know how to pick up like this.";
    }

    if (container == null)
        return $"We cannot find the {containerId}.";

    Item itm = p.Inventory.Take(itemId);
    if (itm == null)
        return $"There is no such {itemId} to put in.";

    PutItem(itm, container);

    return $"You have put {itm.ShortDescription.Split("(")[0].Trim()} in the {container.Name.ToLower()}";
}

private IHaveInventory FetchContainer(Location l, string containerId)
{
    return l.Locate(containerId) as IHaveInventory;
}

private Item PutItem(Item itm, IHaveInventory container)
{
    container.Inventory.Put(itm);
    return itm;
}
}
}

```

CommandProcessor.cs

```

namespace SwinAdventure
{
    public class CommandProcessor
    {
        private List<Command> _commands;

        public CommandProcessor()
        {
            _commands = new List<Command>();
        }

        public void AddCommand(Command command)
        {
            _commands.Add(command);
        }

        public string Execute(Player p, string input)
        {
            string[] inputArr = input.Split(' ');
            foreach (Command command in _commands)
            {
                if (command.AreYou(inputArr[0])) return command.Execute(p, inputArr);
            }
            return $"I don\'t understand {inputArr[0]}";
        }
    }
}

```

IHaveInventory.cs

```

namespace SwinAdventure
{
    public interface IHaveInventory
    {
        public GameObject Locate(string id);
        public string Name { get; }
        public Inventory Inventory { get; }
    }
}

```

LookCommand.cs

```
namespace SwinAdventure
{
    public class LookCommand : Command
    {
        public LookCommand()
            : base(new string[] { "look", "inv", "inventory" }) { }

        public override string Execute(Player p, string[] text)
        {
            IHaveInventory container = null;
            string containerId = null;
            string itemId = null;
            switch (text.Length)
            {
                case 1:
                    if (text[0].ToLower() == "look")
                        return p.CurrentLocation.FullDescription;
                    else if (text[0].ToLower() == "inventory" || text[0].ToLower() == "inv")
                    {
                        container = p;
                        itemId = "me";
                    }
                    break;
                case 3:
                    if (text[1].ToLower() != "at")
                        return "What do you want to look at?";
                    container = p;
                    itemId = text[2].ToLower();
                    break;
                case 5:
                    if (text[3].ToLower() != "in")
                        return "What do you want to look in?";
                    containerId = text[4].ToLower();
                    itemId = text[2].ToLower();
                    container = FetchContainer(p, containerId);
                    break;
                default:
                    return "I don't know how to look like that";
            }
            if (container == null)
                return $"I cannot find the {containerId}";
            return LookAtIn(itemId, container);
        }

        private IHaveInventory FetchContainer(Player p, string containerId)
        {
            return p.Locate(containerId) as IHaveInventory;
        }

        private string LookAtIn(string thingId, IHaveInventory container)
        {
            if (container.Locate(thingId) == null)
                return $"I cannot find the {thingId} in the {container.Name}";

            return container.Locate(thingId).FullDescription;
        }
    }
}
```

Program.cs

```
namespace SwinAdventure
{
    public class Program
    {
        public static void Main(string[] args)
        {
            // Configurations
            string helpCommand =
                $"Here is the List of command\n\t- look at me: Display what you are carrying in your inventory\n\t- look at <item> [?in <container>]: Get description of that item, which inside in the container\n\t- look: Display location's information\n\t- move <direction>: Player travel to that location\n\t- pickup/take <item> [?from <container>]: Pick up the item and put into your inventory\n\t- put/drop <item> [?in <container>]: Drop the item from your inventory\n\t- quit/exit: Halt the program\n";

            // Getting Player's Name and Description
            string PlayerName = "";
            string PlayerDescription = "";
            Console.WriteLine("Write Your Name, Traveller!");
            Console.Write("NAME -> ");
            PlayerName = Console.ReadLine();
            Console.WriteLine("How about Your description, Traveller!");
            Console.Write("Description -> ");
            PlayerDescription = Console.ReadLine();

            // LOCATIONS
            Location shire = new Location(
                new[] { "shire" },
                "The Shire",
                "A peaceful land of Hobbits, green and quiet."
            );
            Location bree = new Location(
                new[] { "bree" },
                "Bree",
                "A small town with The Prancing Pony inn."
            );
            Location rivendell = new Location(
```

```

        new[] { "rivendell" },
        "Rivendell",
        "An Elven sanctuary full of ancient magic."
    );
    Location moria = new Location(
        new[] { "moria" },
        "Moria",
        "A dark underground Dwarven city, full of echo and danger."
    );
    Location mountDoom = new Location(
        new[] { "mount doom", "doom" },
        "Mount Doom",
        "A fiery mountain in the heart of Mordor."
    );
    Location escapeTunnel = new Location(
        new[] { "tunnel", "escape tunnel" },
        "Secret Escape Tunnel",
        "A hidden tunnel beneath Mount Doom, dimly lit by glowing stones."
    );

    // Location items
    // SHIRE
    shire.Inventory.Put(
        new Item(
            new[] { "pipeweed", "pouch" },
            "Pipeweed Pouch",
            "A small pouch of fine pipeweed."
        )
    );
    shire.Inventory.Put(
        new Item(
            new[] { "hat", "farmer's hat" },
            "Farmer's Hat",
            "A straw hat once worn by a hobbit farmer."
        )
    );
    shire.Inventory.Put(
        new Item(
            new[] { "loaf", "bread" },
            "Hobbit Loaf",
            "Freshly baked bread from the Shire."
        )
    );

    // BREE
    bree.Inventory.Put(
        new Item(
            new[] { "mug", "ale" },
            "Mug of Ale",
            "A frothy mug from The Prancing Pony."
        )
    );
    bree.Inventory.Put(
        new Item(
            new[] { "dagger", "rusty dagger" },
            "Rusty Dagger",
            "Old and blunt, but still dangerous."
        )
    );
    bree.Inventory.Put(
        new Item(
            new[] { "cloak", "travel cloak" },
            "Travel Cloak",
            "A heavy cloak for cold nights."
        )
    );

    // RIVENDELL
    rivendell.Inventory.Put(
        new Item(
            new[] { "bread", "elven bread", "lembas" },
            "Elven Bread",
            "One bite is enough for a full day's journey."
        )
    );
    rivendell.Inventory.Put(
        new Item(
            new[] { "pendant", "silver pendant" },
            "Silver Pendant",
            "An Elven trinket that shimmers faintly."
        )
    );
    rivendell.Inventory.Put(
        new Item(
            new[] { "book", "ancient book" },
            "Ancient Book",
            "Filled with forgotten lore and legends."
        )
    );

    // MORIA
    moria.Inventory.Put(
        new Item(
            new[] { "pickaxe", "broken pickaxe" },
            "Broken Pickaxe",
            "Snapped at the handle."
        )
    );
    moria.Inventory.Put(new Item(new[] { "torch" }, "Torch", "Still usable if relit.));
    moria.Inventory.Put(
        new Item(
            new[] { "gauntlets", "dwarven gauntlets" },
            "Dwarven Gauntlets",
            "Heavy gloves forged in the mountains."
        )
    );

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    )
};

// MOUNT DOOM
mountDoom.Inventory.Put(
    new Item(
        new[] { "ring shard", "shard" },
        "Black Ring Shard",
        "A broken piece of something ancient and cursed."
    )
);

mountDoom.Inventory.Put(
    new Item(new[] { "lava", "rock" }, "Lava Rock", "Still warm to the touch.")
);

mountDoom.Inventory.Put(
    new Item(
        new[] { "journal", "burned journal" },
        "Burned Journal",
        "Most pages are unreadable, but a few notes remain."
    )
);

// ESCAPE TUNNEL
escapeTunnel.Inventory.Put(
    new Item(
        new[] { "silk", "spider silk" },
        "Spider Silk",
        "Sticky and unnaturally strong."
    )
);

escapeTunnel.Inventory.Put(
    new Item(
        new[] { "crystal", "shard" },
        "Crystal Shard",
        "Glow faintly with magical energy."
    )
);

escapeTunnel.Inventory.Put(
    new Item(
        new[] { "torch", "elven torch" },
        "Elven Torch",
        "Lights automatically in the darkness."
    )
);

// PATHS (Bidirectional and One-Way)

// Shire ↔ Bree
Path shireToBree = new Path(
    new[] { "east", "e" },
    "east",
    "A path to Bree, lined with fields.",
    bree
);

Path breeToShire = new Path(
    new[] { "west", "w" },
    "west",
    "A path back to the Shire.",
    shire
);

// Bree ↔ Rivendell
Path breeToRivendell = new Path(
    new[] { "north", "n" },
    "north",
    "The path to Rivendell through forested slopes.",
    rivendell
);

Path rivendellToBree = new Path(
    new[] { "south", "s" },
    "south",
    "A path back down to Bree.",
    bree
);

// Shire ↔ Rivendell (shortcut)
Path shireToRivendell = new Path(
    new[] { "northeast", "ne" },
    "northeast",
    "An old Elven path to Rivendell.",
    rivendell
);

Path rivendellToShire = new Path(
    new[] { "southwest", "sw" },
    "southwest",
    "A trail through hills back to the Shire.",
    shire
);

// Bree ↔ Moria
Path breeToMoria = new Path(
    new[] { "east", "e" },
    "east",
    "The eastern road to the mines of Moria.",
    moria
);

Path moriaToBree = new Path(
    new[] { "west", "w" },
    "west",
    "A narrow road back to Bree.",
    bree
);

// Moria → Mount Doom (one-way)

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Path moriaToDoom = new Path(
    new[] { "south", "s" },
    "south",
    "A dark, narrow path leads to Mount Doom.",
    mountDoom
);

// Mount Doom → Escape Tunnel (one-way)
Path doomToTunnel = new Path(
    new[] { "down", "d" },
    "Escape Tunnel",
    "A rocky slope leads to a hidden escape tunnel.",
    escapeTunnel
);

// Escape Tunnel → Moria (return path)
Path tunnelToMoria = new Path(
    new[] { "up", "u" },
    "Moria",
    "You follow the tunnel upward back into Moria's depths.",
    moria
);

// ADD PATHS TO LOCATIONS

shire.AddPath(shireToBree);
shire.AddPath(shireToRivendell);

bree.AddPath(breeToShire);
bree.AddPath(breeToRivendell);
bree.AddPath(breeToMoria);

rivendell.AddPath(rivendellToBree);
rivendell.AddPath(rivendellToShire);

moria.AddPath(moriaToBree);
moria.AddPath(moriaToDoom); // No return from Doom to Moria

mountDoom.AddPath(doomToTunnel); // No path back to Moria

escapeTunnel.AddPath(tunnelToMoria); // Secret return

// Player
Player me = new Player(PLAYER_NAME, PLAYER_DESCRIPTION, shire);

// Player Items
Item sword = new Item(
    new[] { "sword", "steel sword" },
    "Steel Sword",
    "A well-balanced sword of polished steel."
);
Item shield = new Item(
    new[] { "shield", "leather shield" },
    "Leather Shield",
    "A round shield made of hardened leather."
);
Bag starterBag = new Bag(
    new[] { "bag", "satchel" },
    "Adventurer's Bag",
    "A worn leather bag with room for essentials."
);

// Items inside the bag
Item healingPotion = new Item(
    new[] { "potion", "healing potion" },
    "Healing Potion",
    "Restores health when consumed."
);
Item mapFragment = new Item(
    new[] { "map", "fragment" },
    "Map Fragment",
    "A torn piece of an ancient map leading somewhere..."
);

// Add items to bag
starterBag.Inventory.Put(healingPotion);
starterBag.Inventory.Put(mapFragment);

// Add everything to player
me.Inventory.Put(sword);
me.Inventory.Put(shield);
me.Inventory.Put(starterBag);

// Command Configuration
CommandProcessor commandProcessor = new CommandProcessor();
commandProcessor.AddCommand(new LookCommand());
commandProcessor.AddCommand(new MoveCommand());
commandProcessor.AddCommand(new PickUpCommand());
commandProcessor.AddCommand(new PutCommand());

// Game Loop
Console.WriteLine("Write '-h' for helper");

Console.WriteLine(me.Arrive());
while (true)
{
    string command = "";
    Console.Write("Command -> ");
    command = Console.ReadLine().ToLower();
    Console.WriteLine(); // to make clear after input line for presented looking

    if (command == "exit" || command == "quit")
    {
        Console.WriteLine("Take the rest, Traveller!");
    }
}

```

```

        return;
    }
    else if (command == "-h")
    {
        Console.WriteLine(helpCommand);
    }
    else
        Console.WriteLine(commandProcessor.Execute(me, command));
    }
}
}
}

```

TestPickUpCommand.cs

```

using NUnit.Framework;
using NUnit.Framework.Legacy;
using SwinAdventure;

namespace UnitTests
{
    [TestFixture]
    public class TestPickUpCommand
    {
        private PickUpCommand pickUp;
        private Player player;
        private Location l1;
        private Bag bag;
        private Item gem = new Item(new string[] { "gem" }, "Gem", "This is a gem");
        private Item shovel = new Item(new string[] { "shovel" }, "Shovel", "This is a shovel");
        private Item diamond = new Item(new string[] { "diamond" }, "Diamond", "This is a diamond");

        [SetUp]
        public void Setup()
        {
            pickUp = new PickUpCommand();

            l1 = new Location(
                new string[] { "a small tent", "tent" },
                "Small Tent",
                "This is a resting place for travelers."
            );

            player = new Player("Show", "The Programmer", l1);

            bag = new Bag(
                new string[] { "bag", "backpack" },
                "Leather Bag",
                "A sturdy leather bag to carry items"
            );

            bag.Inventory.Put(gem);
            l1.Inventory.Put(bag);
            l1.Inventory.Put(shovel);
        }

        [Test]
        public void TestPickUpFromCurrentLocation()
        {
            string expected = "You have taken a shovel from the small tent";
            string result = pickUp.Execute(player, new string[] { "pickup", "shovel" });
            ClassicAssert.False(l1.Inventory.HasItem("shovel"));
            ClassicAssert.True(player.Inventory.HasItem("shovel"));
            ClassicAssert.That(result, Is.EqualTo(expected));
        }

        [Test]
        public void TestPickUpNothingFromCurrentLocation()
        {
            string expected = "There is no such sword to pick up.";
            string result = pickUp.Execute(player, new string[] { "pickup", "sword" });
            ClassicAssert.That(result, Is.EqualTo(expected));
        }

        [Test]
        public void TestPickUpFromNothing()
        {
            string expected = "We cannot find the box.";
            string result = pickUp.Execute(
                player,
                new string[] { "pickup", "shovel", "from", "box" }
            );
            ClassicAssert.That(result, Is.EqualTo(expected));
        }

        [Test]
        public void TestPickUpSomethingFromSomething()
        {
            string expected = "You have taken a gem from the leather bag";
            string result = pickUp.Execute(player, new string[] { "pickup", "gem", "from", "bag" });
            ClassicAssert.False(bag.Inventory.HasItem("gem"));
            ClassicAssert.True(player.Inventory.HasItem("gem"));
            ClassicAssert.That(result, Is.EqualTo(expected));
        }

        [Test]
        public void TestFromValidation()
        {
            string expected = "Where do you want to pick up from?";
            ClassicAssert.That(
                pickUp.Execute(player, new string[] { "pickup", "paper", "in", "room" }),

```

```

        Is.EqualTo(excepted)
    );
}
}
}

```

TestPutCommand.cs

```

using NUnit.Framework;
using NUnit.Framework.Legacy;
using SwinAdventure;

namespace UnitTests
{
    [TestFixture]
    public class TestPutCommand
    {
        private PutCommand put;
        private Player player;
        private Location l1;
        private Bag bag;
        private Item gem = new Item(new string[] { "gem" }, "Gem", "This is a gem");
        private Item shovel = new Item(new string[] { "shovel" }, "Shovel", "This is a shovel");
        private Item diamond = new Item(new string[] { "diamond" }, "Diamond", "This is a diamond");

        [SetUp]
        public void Setup()
        {
            put = new PutCommand();

            l1 = new Location(
                new string[] { "a small tent", "tent" },
                "Small Tent",
                "This is a resting place for travelers."
            );

            player = new Player("Show", "The Programmer", l1);

            bag = new Bag(
                new string[] { "bag", "backpack" },
                "Leather Bag",
                "A sturdy leather bag to carry items"
            );

            bag.Inventory.Put(gem);
            player.Inventory.Put(diamond);
            l1.Inventory.Put(bag);
            l1.Inventory.Put(shovel);
        }

        [Test]
        public void PutSomethingInCurrentLocation()
        {
            string excepted = "You have put a diamond in the small tent";
            string result = put.Execute(player, new string[] { "put", "diamond" });
            ClassicAssert.True(l1.Inventory.HasItem("diamond"));
            ClassicAssert.False(player.Inventory.HasItem("diamond"));
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }

        [Test]
        public void TestPickUpNothingFromCurrentLocation()
        {
            string excepted = "There is no such sword to put in.";
            string result = put.Execute(player, new string[] { "put", "sword" });
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }

        [Test]
        public void PutSomethingInSomething()
        {
            string excepted = "You have put a diamond in the leather bag";
            string result = put.Execute(player, new string[] { "put", "diamond", "in", "bag" });
            ClassicAssert.False(l1.Inventory.HasItem("diamond"));
            ClassicAssert.True(bag.Inventory.HasItem("diamond"));
            ClassicAssert.False(player.Inventory.HasItem("diamond"));
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }

        [Test]
        public void TestPutInNothing()
        {
            string excepted = "We cannot find the box.";
            string result = put.Execute(
                player,
                new string[] { "put", "diamond", "in", "box" }
            );
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }

        [Test]
        public void TestPutSomethingInSomething()
        {
            string excepted = "You have put a diamond in the leather bag";
            string result = put.Execute(player, new string[] { "put", "diamond", "in", "bag" });
            ClassicAssert.True(bag.Inventory.HasItem("diamond"));
            ClassicAssert.False(player.Inventory.HasItem("diamond"));
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }
    }
}

```



```

[Test]
public void TestInValidation()
{
    string excepted = "Where do you want to put into?";
    ClassicAssert.That(
        put.Execute(player, new string[] { "put", "paper", "from", "room" }),
        Is.EqualTo(excepted)
    );
}
}
}

```

TestCommandProcessor.cs

```

using NUnit.Framework;
using NUnit.Framework.Legacy;
using SwinAdventure;

namespace UnitTests
{
    public class TestCommandProcessor
    {
        private CommandProcessor cp;
        private LookCommand look;
        private MoveCommand move;
        private PickUpCommand pickup;
        private PutCommand put;
        private Player player;
        private Location l1;
        private Location l2;
        private SwinAdventure.Path p1;
        private Bag bag;
        private Item gem;
        private Item shovel;
        private Item diamond;

        [SetUp]
        public void Setup()
        {
            cp = new CommandProcessor();
            look = new LookCommand();
            move = new MoveCommand();
            pickup = new PickUpCommand();
            put = new PutCommand();

            cp.AddCommand(look);
            cp.AddCommand(move);
            cp.AddCommand(pickup);
            cp.AddCommand(put);

            l1 = new Location(
                new string[] { "a small tent", "tent" },
                "Small Tent",
                "This is a resting place for travelers."
            );
            l2 = new Location(
                new string[] { "a dark cave", "cave" },
                "Dark Cave",
                "A damp, echoing cave stretches into the darkness."
            );
            p1 = new SwinAdventure.Path(
                new string[] { "north", "n" },
                "forest",
                "You are entering a dense forest from the north.",
                l2
            );
            l1.AddPath(p1);

            player = new Player("Show", "The Programmer", l1);

            bag = new Bag(
                new string[] { "bag", "backpack" },
                "Leather Bag",
                "A sturdy leather bag to carry items"
            );

            gem = new Item(new string[] { "gem" }, "Gem", "This is a gem");
            shovel = new Item(new string[] { "shovel" }, "Shovel", "This is a shovel");
            diamond = new Item(new string[] { "diamond" }, "Diamond", "This is a diamond");

            player.Inventory.Put(diamond);
            l1.Inventory.Put(bag);
            l1.Inventory.Put(shovel);
            bag.Inventory.Put(gem);
        }

        [Test]
        public void TestLookCommand()
        {
            string excepted = gem.FullDescription;
            string result = cp.Execute(player, "look at gem in bag");
            ClassicAssert.That(result, Is.EqualTo(excepted));
        }

        [Test]
        public void TestMoveCommand()
        {
            string excepted =
                $"{player.Exit(p1.FirstId)}\n{player.Travel(p1)}\nYou have arrived in {l2.ShortDescription}";
            ClassicAssert.That(cp.Execute(player, "move north"), Is.EqualTo(excepted));
        }
    }
}

```

```

    }

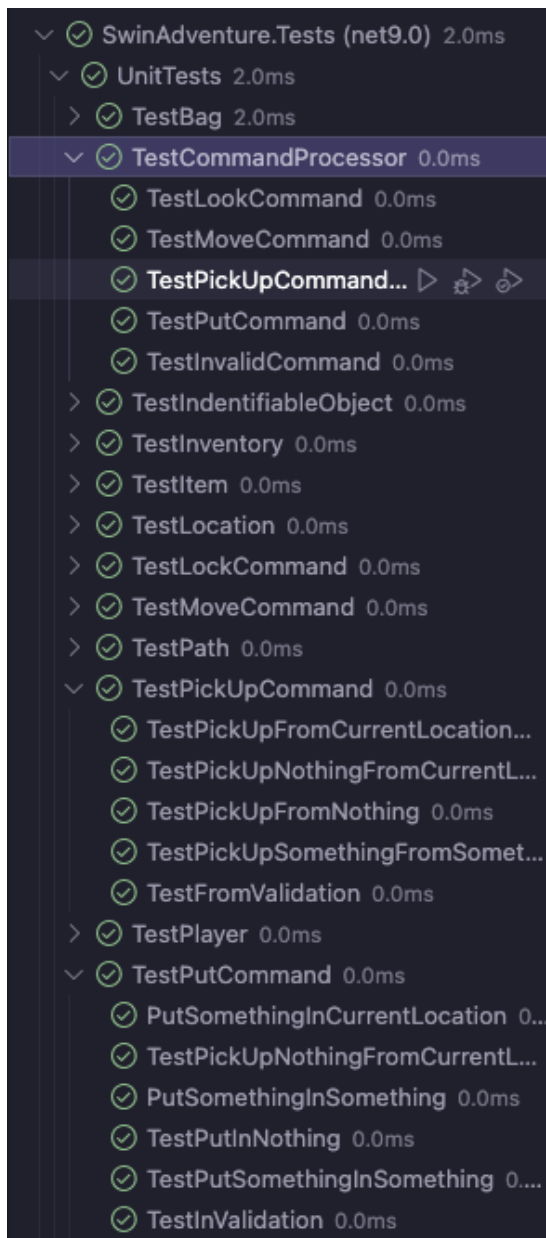
    [Test]
    public void TestPickUpCommand()
    {
        string expected = "You have taken a shovel from the small tent";
        string result = cp.Execute(player, "pickup shovel");
        ClassicAssert.That(result, Is.EqualTo(expected));
    }

    [Test]
    public void TestPutCommand()
    {
        string expected = "You have put a diamond in the small tent";
        string result = cp.Execute(player, "put diamond");
        ClassicAssert.That(result, Is.EqualTo(expected));
    }

    [Test]
    public void TestInvalidCommand()
    {
        string expected = "I don't understand sleep";
        string result = cp.Execute(player, "sleep");
        ClassicAssert.That(result, Is.EqualTo(expected));
    }
}
}

```

Screenshot of unit test passing



Screenshot of program running showing new commands related to locations

You are Show Wai Yan 105293041

You are carrying

- a steel sword (sword)

- a leather shield (shield)

- an adventurer's bag (bag)

Command → drop bag in room

You have put an adventurer's bag in the the shire

Command → look

A peaceful land of Hobbits, green and quiet.

There are exits to east, and northeast.

In this room you can see

- a pipeweed pouch (pipeweed)

- a farmer's hat (hat)

- a hobbit loaf (loaf)

- an adventurer's bag (bag)

Command → look at bag

A worn leather bag with room for essentials..

You look in the adventurer's bag and see:

- a healing potion (potion)

- a map fragment (map)

Command → pickup map from bag

You have taken a map fragment from the adventurer's bag

Command → inv

You are Show Wai Yan 105293041

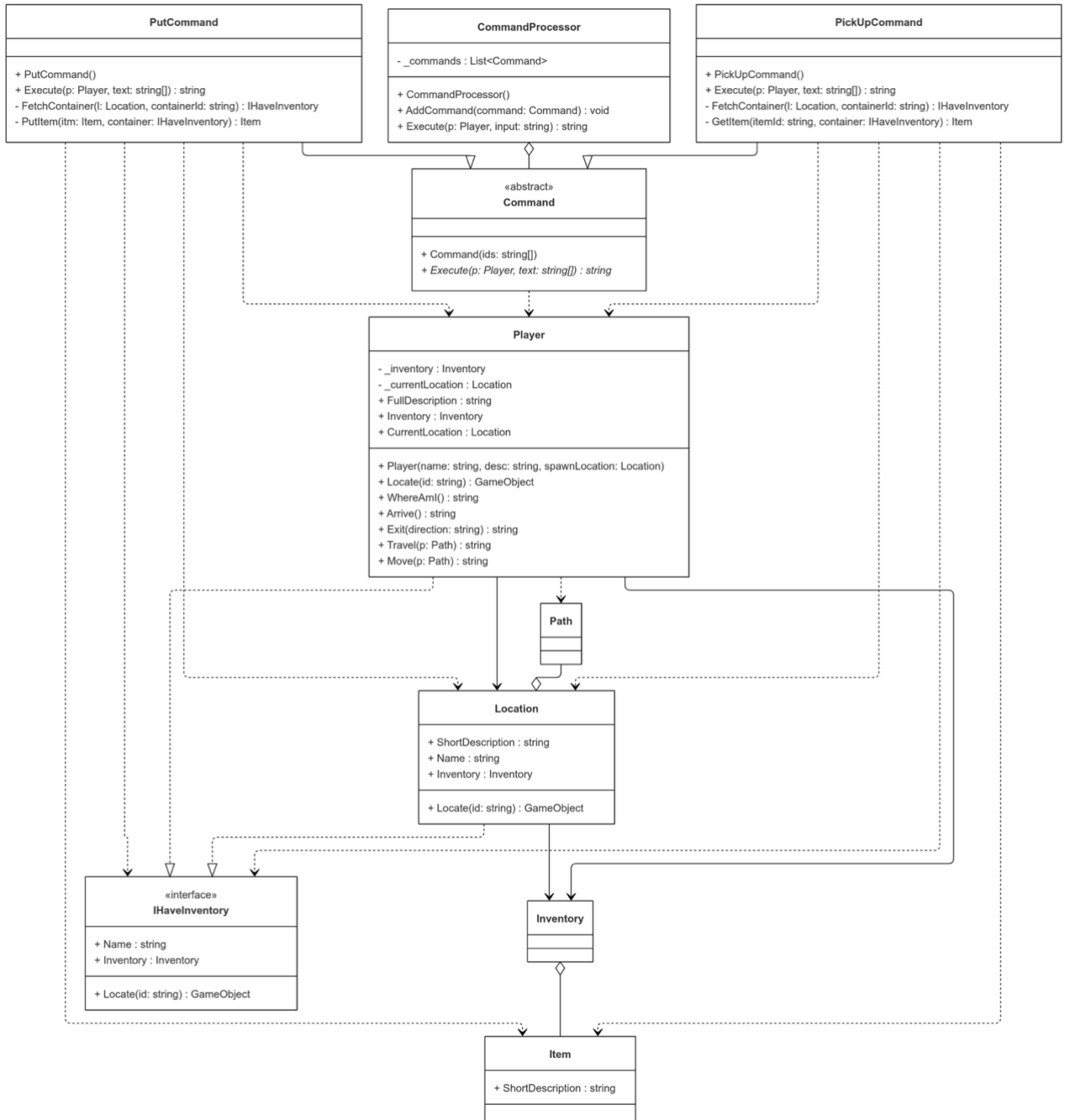
You are carrying

- a steel sword (sword)

- a leather shield (shield)

- a map fragment (map)

UML Class diagram showing what needs to be added



UML sequence diagram to explore how executing a command works

