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using System;
using System.Collections.Generic;
using System.IO;

namespace ConsoleProjektH1
{
    class Program
    {
        private static void Main(string[] args)
        {
            var people = new List<Person>
            {
                new Person
                {
                    Age = 33,
                    Name = "Ole",
                    Balance = 1000.11
                },
                new Person
                {
                    Age = 61,
                    Name = "Peter",
                    Balance = 1400.21
                },
                new Person
                {
                    Age = 23,
                    Name = "Jonna",
                    Balance = 800.00
                },
                new Person
                {
                    Age = 19,
                    Name = "Finn",
                    Balance = 1200.50
                },
                new Person
                {
                    Age = 22,
                    Name = "Heidi",
                    Balance = 3000.24
                }
            };

            bool isRunning;

            Functions functions = new Functions();

            List<string> inputList;

            try
            {
                Console.WriteLine("Hello, welcome to this list of people - Type \"help\" to " +
                                   "receive a list of commands");

                isRunning = true;
                while (isRunning)
                {
                    Console.Write(":>");
                    inputList = functions.FilterInput(Console.ReadLine().ToLower());
                    try
                    {

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        functions.HandleCommands(people, inputList, functions, isRunning);
    }
    catch (Exception e)
    {
        if (inputList[0] == "change person" || inputList[0] == "change age" ||
            inputList[0] == "change balance" || inputList[0] == "delete person" ||
            inputList[0] == "add person")
        {
            Console.WriteLine("That person is not on the list, or you entered an
incorrect value");
        }
        else
        {
            Console.WriteLine("Please enter a name");
            // Console.WriteLine(e);
        }
    }
}

}

class Functions
{
    // Show the entire list
    private void ShowAll(List<Person> people)
    {
        // var stringList = AlterNameList();

        int pA = 6;

        Console.WriteLine("Name".PadRight(pA) + "Age".PadRight(pA-2) +
"Balance".PadRight(pA));
        foreach (var person in people)
        {
            Console.WriteLine(person.Name.PadRight(pA) + person.Age.ToString().PadRight(pA-2)
+
                person.Balance.ToString().PadRight(pA));
        }
    }

    // Add a person at the end of the list
    private void AddPerson(string b)
    {
        File.AppendAllText(Environment.CurrentDirectory + "\\NameList.txt", Capitalize(b) +
";");
        Console.WriteLine("Person added\n");
    }

    // Remove a person with a specific name
    private void DeletePerson(string b)
    {
        var stringList = AlterNameList();
        stringList.Remove(Capitalize(b));
        AppendNames(stringList);
        Console.WriteLine("Person deleted\n");
    }
}

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// Change the person with a specific name, to another name
private void Change(List<Person> persons, string a, string b)
{
    var stringList = AlterNameList();
    stringList[stringList.IndexOf(Capitalize(a))] = Capitalize(b);
    AppendNames(stringList);

    foreach (var person in persons)
    {
        if (person.Name == Capitalize(a))
        {
            person.Name = Capitalize(b);
        }
    }

    Console.WriteLine("Person changed\n");
}

// Change the person with a specific name, to a different age
private void Change(List<Person> persons, string a, int b)
{
    foreach (var person in persons)
    {
        if (person.Name == Capitalize(a))
        {
            person.Age = b;
        }
    }

    Console.WriteLine("Age changed\n");
}

// Change the person with a specific name, to a different balance
private void Change(List<Person> persons, string a, double b)
{
    foreach (var person in persons)
    {
        if (person.Name == Capitalize(a))
        {
            person.Balance = b;
        }
    }

    Console.WriteLine("Balance changed\n");
}

// Append the names from the .txt-file
private void AppendNames(List<string> stringList)
{
    File.WriteAllText(Environment.CurrentDirectory + "\\NameList.txt", "");

    foreach (var name in stringList)
    {
        File.AppendAllText(Environment.CurrentDirectory + "\\NameList.txt",
        Capitalize(name) + ";");
    }
}

// Capitalize the first letter in a string / char array
private string Capitalize(string a)

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    {
        if (a[0] != char.ToUpper(a[0]))
        {
            var newCharArray = a.ToCharArray();
            if (a != "")
            {
                newCharArray[0] = char.ToUpper(a[0]);
            }
            return new string(newCharArray).Replace(" ", "");
        }
        else
        {
            return a.Replace(" ", "");
        }
    }

    // Fetch the list of names for alteration
    private List<string> AlterNameList ()
    {
        var content = File.ReadAllText(Environment.CurrentDirectory + "\\NameList.txt");
        var stringList = new List<string>();

        foreach (var name in content.Split(';'))
        {
            if (name != "")
            {
                stringList.Add(Capitalize(name));
            }
        }

        return stringList;
    }

    public List<string> FilterInput(string input)
    {
        return new List<string>(input.Split(new[] { " " },
StringSplitOptions.RemoveEmptyEntries));
    }

    public void HandleCommands(List<Person> people, List<string> inputList, Functions
functions, bool isRunning)
    {
        switch (inputList[0])
        {
            case "showall":
                functions.ShowAll(people);
                break;
            case "addperson":
                functions.AddPerson(inputList[1]);
                break;
            case "deleteperson":
                functions.DeletePerson(inputList[1]);
                break;
            case "changeperson":
                functions.Change(people, inputList[1], inputList[2]);
                break;
            case "changeage":
                functions.Change(people, inputList[1], int.Parse(inputList[2]));
                break;
            case "changebalance":

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        functions.Change(people, inputList[1], double.Parse(inputList[2]));
        break;
    case "clear":
        Console.Clear();
        Console.WriteLine("Hello, welcome to this list of people - Type \"help\" to " +
            "receive a list of commands");

        break;
    case "quit":
        isRunning = false;
        break;
    case "help":
        Console.WriteLine("These are the available commands:");
        Console.WriteLine("\"showall\" - Shows the current list of people");
        Console.WriteLine("\"addperson\" <name> - Adds a person to the current list of
people");
        Console.WriteLine("\"deleteperson\" <name> - Deletes a person from the current
list of people");
        Console.WriteLine("\"changepeople\" <name1> <name2> - changes the name of a
person from the " +
            "current list of people");
        Console.WriteLine("\"clear\" - Clears the console");
        Console.WriteLine("\"quit\" - Quits the console");
        Console.WriteLine("\"help\" - Shows this list of available commands");
        break;
    default:
        Console.WriteLine("That is not a command");
        break;
    }
}

class Person
{
    public int Age { get; set; }
    public double Balance { get; set; }
    public string Name { get; set; }
}

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