Programowanie Obiektowe Kyrylo Horiunov kirillgorunov294@gmail.com 144135 10.09.2023

https://github.com/Myrzei4/OOP/tree/final

Dodano:

- Projekt: SampleHierarchies.Services.Tests
- Klasy: ScreenDefinition, ScreenLineEntry, ScreenDefinitionService
- Jsons: AfricanElephantsScreenLines, AnimalsScreenLines, DogsScreenLines, GrizzlyBearsScreenLines, MainScreenLines, MammalsScreenLines, PolarBearsScreenLines, SettingsScreenLines

```
namespace SampleHierarchies.Data
{
    public class ScreenLineEntry
    {
        public ConsoleColor BackgroundColor { get; set; }
        public ScreenLineEntry(ConsoleColor backgroundColor, ConsoleColor foregroundColor, string text)
        {
            BackgroundColor = backgroundColor;
            ForegroundColor = foregroundColor;
            Text = text;
        }
    }
}
```

```
"LineEntries": [
    "BackgroundColor": 9,
    "ForegroundColor": 10,
"Text": "Your available choices are: "
    "BackgroundColor": 9,
    "ForegroundColor": 10,
    "Text": "0. Exit"
    "BackgroundColor": 9,
    "ForegroundColor": 10,
    "Text": "1. List all dogs"
    "BackgroundColor": 9,
    "ForegroundColor": 10,
    "Text": "2. Create a new dog"
   "BackgroundColor": 9,
   "ForegroundColor": 10,
    "Text": "3. Delete existing dog" //5
    "BackgroundColor": 9,
    "ForegroundColor": 10,
"Text": "4. Modify existing dog"
    "BackgroundColor": 9,
    "ForegroundColor": 10,
    "Text": "Please enter your choice: "
    "BackgroundColor": 9,
    "ForegroundColor": 10,
    "Text": "Going back to parent menu."
    "BackgroundColor": 9,
    "ForegroundColor": 12,
"Text": "Invalid choice. Try again." ///9
```

Zmodyfikowano:

 Klasy: każdy screen: AfricanElephantsScreen, AnimalsScreen, DogsScreen, GrizzlyBearsScreen, MainScreen, MammalsScreen, PolarBearsScreen, Screen, SettingsScreen

```
string? choiceAsString = "";
for (int i = 0; i <= 5;)
    if (i > 4)
    if (i == -1)
       1 = 4;
    ShowHistory(history);
   DisplayLine(1);
for (int line = 0; line <= 4; line++)
       if( line == -1)
            line = 5;
        if( line > 4)
            line = \theta;
       if (line == i)
            Console.BackgroundColor = ConsoleColor.DarkBlue;
            DisplayLineWOutColor(line + 2);
       else
            DisplayLine(line + 2);
   DisplayLine(7);
   Console.Write(i);
    ConsoleKeyInfo keyInfo = Console.ReadKey();
    if (keyInfo.Key == ConsoleKey.UpArrow)
       Console.Clear();
   else if (keyInfo.Key == ConsoleKey.DownArrow)
       Console.Clear();
   else if (keyInfo.Key == ConsoleKey.Enter)
       Console.Clear();
       choiceAsString = i.ToString();
       PolarBearsScreenChoices choice = (PolarBearsScreenChoices)Int32.Parse(choiceAsString);
```

```
case MainScreenChoices.Exit:
    DisplayLine(6);
    history.RemoveAt(history.Count - 1);
    Console.ResetColor();
    return;
}
}
catch
{
    DisplayLine(7);
}
```

```
public void DisplayLine(int lineNumber)
           if (ScreenDefinition != null)
              var lineEntry = ScreenDefinition.LineEntries[lineNumber];
Console.BackgroundColor = lineEntry.BackgroundColor;
Console.ForegroundColor = lineEntry.ForegroundColor;
Console.WriteLine();
Console.Write(lineEntry.Text);
     catch (Exception ex)
          Debug.WriteLine($"Error: {ex}");
     finally
          Console.ResetColor();
/// <summary>
/// Method for displaying text line by line without color
/// <param name="lineNumber"></param>
8 references public void DisplayLineWOutColor(int lineNumber)
          if (ScreenDefinition != null)
               var lineEntry = ScreenDefinition.LineEntries[lineNumber];
Console.WriteLine();
              Console.Write(lineEntry.Text);
     catch (Exception ex)
          Debug.WriteLine($"Error: {ex}");
     finally
          Console.ResetColor();
8 references
public void ShowHistory(List<string> history)
    Console.ResetColor();
foreach (var screen in history)
          Console.Write($"=> {screen} ");
     Console.WriteLine();
```

```
> Main Screen => Animals => Mammals => African Elephants

Your available choices are:
0. Exit
1. List all african elephant
2. Create a new african elephant
3. Delete existing african elephant
Please enter your choice: 2
```