## Programowanie Obiektowe Oleksander Mikhov, Yehor Vysotskyi

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https://github.com/Clarnc/ZOO

Added classes in 1-st: AfricanElephantScreen

ChimpanzeeScreen

PolarBearScreen

SettingsScreen

SettingsScreenChoices

AfricanElephantScreenChoices

ChimpanzeeScreenChoices

PolarBearScreenChoices

```
blic sealed class AfricanElephantScreen : Screen
 #region Properties And Ctor
 string screenDefinitionJson = "AfricanElephantScreenDefinition.json";
 private readonly IDataService _dataService;
private readonly SettingsService _settingsService;
 /// <summary>
/// Constructor for the AfricanElephantScreen class.
 /// <param name="dataService">Data service reference</param>
/// <param name="settingsService">Settings service reference</param>
 public AfricanElephantScreen(IDataService dataService, SettingsService settingsService)
      _dataService = dataService;
_settingsService = settingsService;
 #endregion Properties And Ctor
 #region Public Methods
 2 references
public override void Show()...
 #endregion // Public Methods
 #region Private Methods
 1 reference private void ListAfricanElephants()...
 1 reference
private void AddAfricanElephant()...
 1 reference
private void DeleteAfricanElephant()...
 1 reference
private void EditAfricanElephant()...
 2 references
private AfricanElephant AddEditAfricanElephant()...
```

```
public sealed class SettingsScreen: Screen
{
    string screenDefinitionJson = "SettingsScreenDefinition.json";

    ISettingsService _settingsService;
    Oreferences
    public SettingsScreen(ISettingsService settingsService)
    {
        _settingsService = settingsService;
    }
    2 references
    public override void Show()...
    1 reference
    public void SettingsScreenShow()...
    1 reference
    private string[] GetClassNamesInNamespace()// Get the class names in the same namespace as SettingsScreen...
    1 reference
    private List<string> CleanUpNames(string[] names)...
    1 reference
    private ConsoleColor[] AllConsoleColors()//Get all console colors as array...
}
```

```
ISettings
```

Settings

**ISettingsService** 

SettingsService

Program

```
#region Interface Members
10 references
Dictionary<string, ISettings> globalSettingsDictionary { get; set; }

/// <summary> Read settings.
3 references
Dictionary<string, ISettings> Read(string jsonPath);

/// <summary> Write settings.
2 references
void Save(Dictionary<string, ISettings> settingsDictionary, string jsonPath);

9 references
void ApplySettings(string className);

2 references
void ApplySettings(string className, string property, ConsoleColor color);

9 references
string GetCallingClassName();
#endregion // Interface Members
```

```
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```

```
static void Main(string[] args)
{
    // Create the settings service and pass the initial settings
    var initialSettings = new Dictionary<string, ISettings>();
    var settingsService = new SettingsService(initialSettings);

    // Load the settings from the JSON file
    settingsService.globalSettingsDictionary = settingsService.Read("settings.json");

    // Program start
    var host = CreateHostBuilder(settingsService).Build();
    ServiceProvider = host.Services;

    var mainScreen = ServiceProvider.GetRequiredService<MainScreen>();
    mainScreen.Show();
}
```

```
static IHostBuilder CreateHostBuilder(SettingsService settingsService)
    return Host.CreateDefaultBuilder()
         .ConfigureServices((context, services) =>
             // Initialize initial settings
             var initialSettings = new Dictionary<string, ISettings>();
             initialSettings = settingsService.Read("settings.json");
             // Register ISettingsService with initial settings
             services.AddSingleton<ISettingsService>(_ => settingsService);
             services.AddSingleton(settingsService);
             services.AddSingleton<IEventAggregator, EventAggregator>();
             services.AddSingleton<IDataService, DataService>();
             services.AddSingleton<MainScreen, MainScreen>();
             services.AddSingleton<DogsScreen, DogsScreen>();
             services.AddSingleton<AnimalsScreen, AnimalsScreen>();
services.AddSingleton<MammalsScreen, MammalsScreen>();
services.AddSingleton<SettingsScreen, SettingsScreen>();
services.AddSingleton<AfricanElephantScreen, AfricanElephantScreen>();
             services.AddSingleton<PolarBearScreen, PolarBearScreen>();
             services.AddSingleton<ChimpanzeeScreen, ChimpanzeeScreen>();
        D;
```