

WPF

Development Guide

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WPF – Development Guide Version 1

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1. INTRODUCTION

WPF Applications can be built using three frameworks:

1. MVVMLight Toolkit
2. PRISM
3. CODE Magazine's CODE.FRAMEWORK MVVM Software as a Service (SaaS)

MVVMLight Toolkit:

For MVVMLight Toolkit setup refer to MVVMLight Sample WPF Application document. The application is called ITLandscape inventory tracker.

PRISM

For converting a Winform Application to WPF and using PRISM to setup MVVM we can look at the sample application called TMS.

CODE MAGAZINE's CODE FRAMEWORK

For modern WPF applications that will bind to JSON REST Web API data we can use the CODE FRAMEWORK. The framework can be installed using Nuget or using the Visual Studio Market Place to download the templates for the Framework. Next we look into the details of using this framework.

2. CODE MAGAZINE'S CODE.FRAMEWORK

The CODE Magazine's CODE.FRAMEWORK can be used to built an application that can be bind with ASP.NET Web API Version 2.

Link to CODE Magazine's WebSite:

<https://www.codemag.com/>

<https://www.codemag.com/Magazine/Allissues>

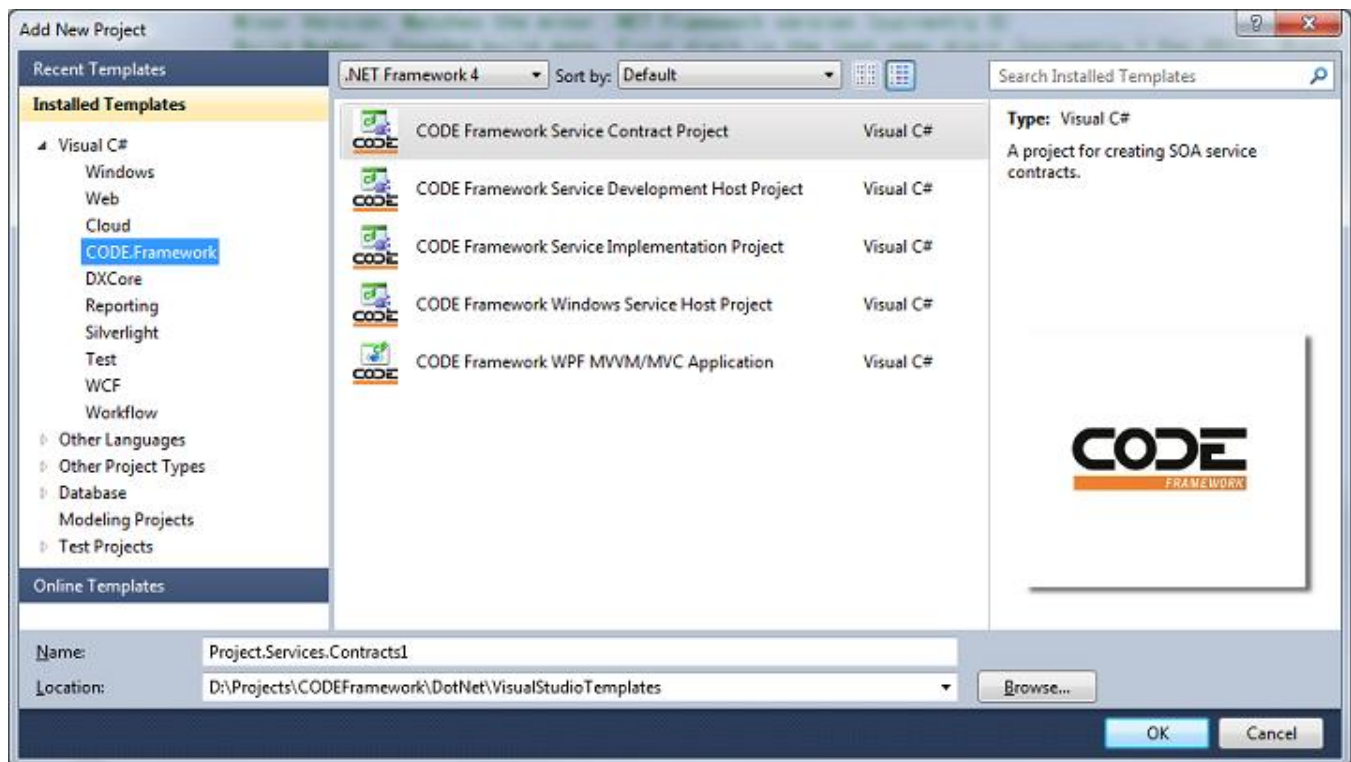
Step 1: Download the Framework assemblies from the link shown below:

<https://codeframework.io/Downloads>

<https://docs.codeframework.io/Installation>

Step 2: Install the Visual Studio Templates for the Framework.

<https://marketplace.visualstudio.com/items?itemName=MarkusEgger.CODEFrameworkTools>



Step 3: Create a hello world sample using th

<https://docs.codeframework.io/Understanding-WPF>

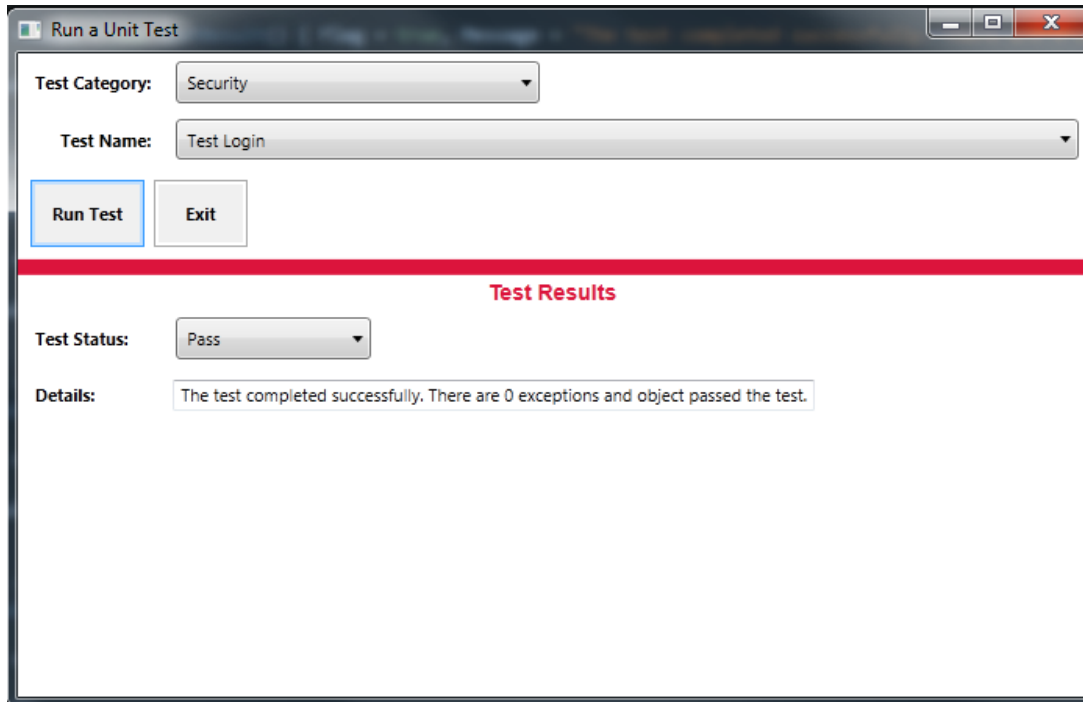
Step 4: Follow this article to style and theme the new application

<https://www.codemag.com/Article/1211091>

3. PERFORMANCE AND TESTING

WPF Unit Test Framework

- Provide ability to automate Tests and run coded Tests as well as manual tests.
- Capture test results in a log file.



Performance Improvements

- Provide thread safety and better process synchronization and task switching.
- Provide easy deployment and packaging.
- Provide easy to use command line administration capabilities.
- Provide logging capability.
- Use .NET debugging SDK to improve application health and activity monitoring.
- Use separate threads for User Interface and Database to improve performance

4. APPENDIX

Links for further reading