# Introduction

This is a test application in order to demonstrate the operation of a web services based on .NET framework: WEB API and WebHosting REST service technologies.

The solution contains several projects:

* WEB API project, includes help pages with API usage
* Console application with hosting of REST service, which is accessible locally by http protocol all time that the console application is running.
* Unit Test projects for above projects.

# Test cases that were implemented (automated)

Web API and SelfHostingREST services are testing by the same way but by different unit tests projects

Unit tests are testing business logic only.

# Steps how to execute test case (if there any unusual steps needed)

All tests based on NUnit framework and can be run as usual for this tool without any unusual steps.

# Pros and cons of implemented approach

I use here two different ways for populate REST service: WEB API based on ASP.NET MVC (WEB API) technology and console application that populates REST operations locally.

First way is more suitable for WEB hosting on external server. It contains help pages about REST functionality “from box”.

Second way is more suitable for local usage on the PC. Of course it also can be run on server e.g. as system service.

First way is required more hardware resources as second.

# List of possible improvements

Business logic can be extracted in a separate project (e.g. TestApp.Core or TestApp.Services) and then can be used in both of projects.