Uğur Yılmaz

1. Development Environment

- Microsoft Visual Studio 2013 Ultimate
- .NET Framework 4.5
- Microsoft. Visual Studio. Qualit Tools. Unit Test Framework
- Moq

2. Program Logic

FileOperations and GraphOperations are seperated and derived from different interfaces.

I used FileSystemWatcher class to detect changes on our input data file. The program reads data file and creates an image file of bar chart. Also, I manipulated console application window via using kernel32.dll and interop properties to show image file as output. You can see that at screenshots(*4) section in the report.

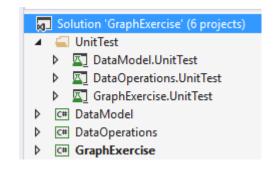
On the other hand, I wrote unit tests for all assemblies because of TDD implementation.

Note: I could use nunit and Mock to improve my unittests, however this was a small project and visual studio unittest framework and Moq has enough capabilities.

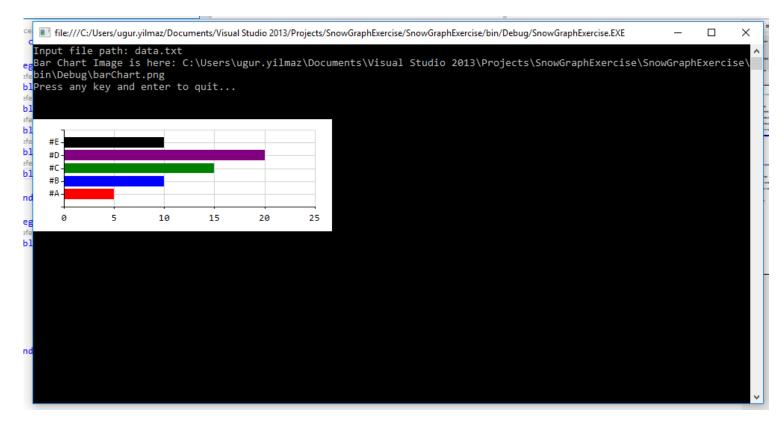
I used Console.ReadLine to keep program open and detect for changes of data file. For the improvement; if this would be a real project, Windows service or an ETL would be a better call to check changes of data file, infinitely.

3. Projet Files and Interfaces

- GraphExercise
- DataOperations
 - IDataOperations
 - IGraphOperations
- DataModel
 - o IDataFile
 - o IGraphItem
- GraphExercise.UnitTest
- DataOperations.UnitTest
- DataModel.UnitTest



4. Screenshots



Dd Tt- (12)	
Passed Tests (13)	
✓ DataFileDirectoryIsCorrect	< 1 ms
	5 m:
✓ DataFileNameIsCorrect	< 1 ms
✓ DrawGraphAsImageIsWorking	83 m
	< 1 m
	< 1 m
	< 1 m
	< 1 m
	< 1 m
✓ PopulateValues	690 m
	739 m
	< 1 m
✓ VisualizeChartlsWorking	74 m

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Hierarchy	Not Covered (Blocks)	Not Covered (% Blocks)	Covered (Blocks)	Covered (% Blocks)
🕯 폃 ugur.yilmaz_UGURYILMAZ 2016	20	%4,69	406	%95,31
▷ 😃 datamodel.dll	2	%9,09	20	%90,91
	2	%4,76	40	%95,24
	5	%3,79	127	%96,21
	8	%4,79	159	%95,21
D graphexercise.exe	3	%8,33	33	%91,67
	0	%0,00	27	%100,00

Thank You!