Roman numeral to Arabic Converter

Technical Specification

Revision: 1.0  
Written by: Samantha Perez  
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1.0 Purpose and overview-

1.1 The purpose of this program is to assist clients in simple Arabic to Roman numeral calculations (and vice versa) with numbers between 0 and 3999.

1.2 This program is meant as a small, convenient calculator the user can use as needed without impeding a computer’s CPU usage, regardless of model or type.

2.0 Development Summary

2.1 The program will be developed as a windows form-based application that runs as-is. It will function the same whether placed on removable media or a hard drive, with no need for installation or access to a computer’s files or special permissions. The following requirements will also be satisfied.

2.1.1 Low resource consumption

2.1.2 Fast Load times

2.1.3 Quick results

2.1.4 Able to function properly regardless of OS environment

2.1.5 Able to run in an OS environment that isn’t up to date

2.1.6 Easy to comprehend error handling

3.0 References

3.1 The Roman numeral converter should use up the same resources and have the same permissions as a standard calculator; that is to say, not many are needed.

4.0 Deployment and packaging

4.1 This program only runs as a small, easily scanned exe file that can be stored and run from anywhere on a device.

4.2 It should be fully portable, relying only on its core components; the exe itself should be the only thing needed in order to run properly.

5.0 Security

5.1 This program requires no special permissions and contains no security risks. The following should be considered:

5.1.1 No read/write access is needed on any machine

5.1.2 Should be able to run on both 32 and 64 bit systems

5.1.3 Ability to run in small/outdated resolutions, such as 640x480

5.1.4 Administrator permissions should never be needed

5.1.5 Hardware resources should be irrelevant taking into consideration its size