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Abstract

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Workstation management swe

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1. Introduction

Workstation Management Software Engineering document

1. Vision

Tool that allows to manage workstation for working:

* Open required Windows Explorer folders
* Open required url links in Browsers
* Set some environment variables
* Check some status
* Implementation as Windows Forms managed application in c++. Reasons:
  + Use C++
  + Use some powerful tools/library available with net framework UI Windows Forms, parsing XML
  + The idea is :
    - to create the business UI as managed net framework
    - to use the net framework for task that require a lot of small external C++ libraries.
    - To use C++ for the business logic

1. Requirements
   1. Scenario 01

Create configuration xml files.

Use net framework xml parser 🡪 The configuration manager will be managed.

Creates two configuration objects as singletons (one managed the other unmanaged)

1. Analysis
   1. Analysis of scenario 1

Ideas:

1. Create ExcelInteropServer as singleton
2. Create a non-copiable object DTOWorkbook to exchange information between Client and Interop Server. (latter)
3. Create method that return a handler to a Workbook (to open)
4. Create a method that sets the working worksheet for a workbook
5. Create a method that return a DTOWorksheetContent that contains an array of strings
6. Backlog