Windows application framework

Requirements

- Language: C++
- IDE: Microsoft Visual Studio 2015
- Compiler: VC14
- Project Type: Windows application with Forms support (Preferably CLR Project)

Key Functions

- I want a skeleton code framework with a single front-end screen **screen_1**.
- When the exe is opened it should create 2 threads and run a **core_function**.
- When I click the buttons in screen_1 it should change the global variables which are used in the core_function.
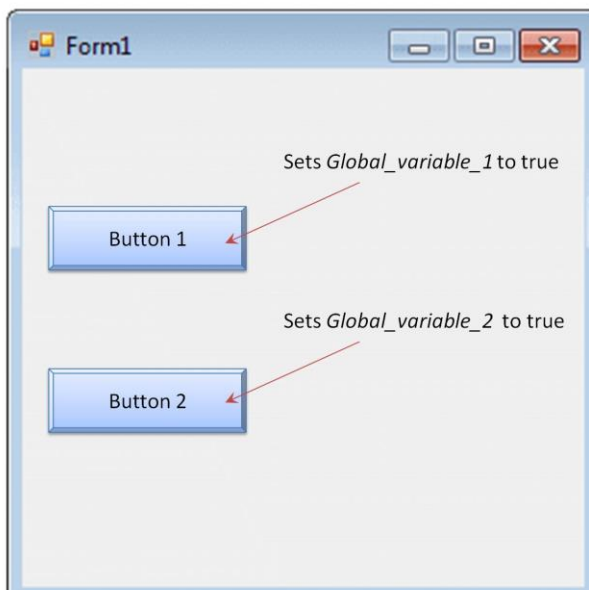
App.config support

I would like to change the parameters using a config(xml) file placed next to exe.

Logging framework

I would also require a logging framework, which I can specify via the config xml file to

1. Set logging to ON and OFF
2. Log directory
3. No of days beyond which log files to be deleted

Sample screen

Main.cpp skeleton

```cpp
1
2  //Global Variables (These global Variables will be set using the buttons in front-end)
3  bool global_var_1=false;
4  bool global_var_2=false;
5
6  void coreFunction(int var)
7  {
8  if (global_var_1 == true)
9      {
10         //Perform action A;
11     }
12 }
13
14 void main()
15 {
16     //multithreading
17     create thread: thread1 (coreFunction, var_A) //invoke coreFuntion and pass var_A as variable
18     create thread: thread2 (coreFunction, var_B) //invoke coreFuntion and pass var_B as variable
19 }
20
```