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C++ EXAM 1 Review

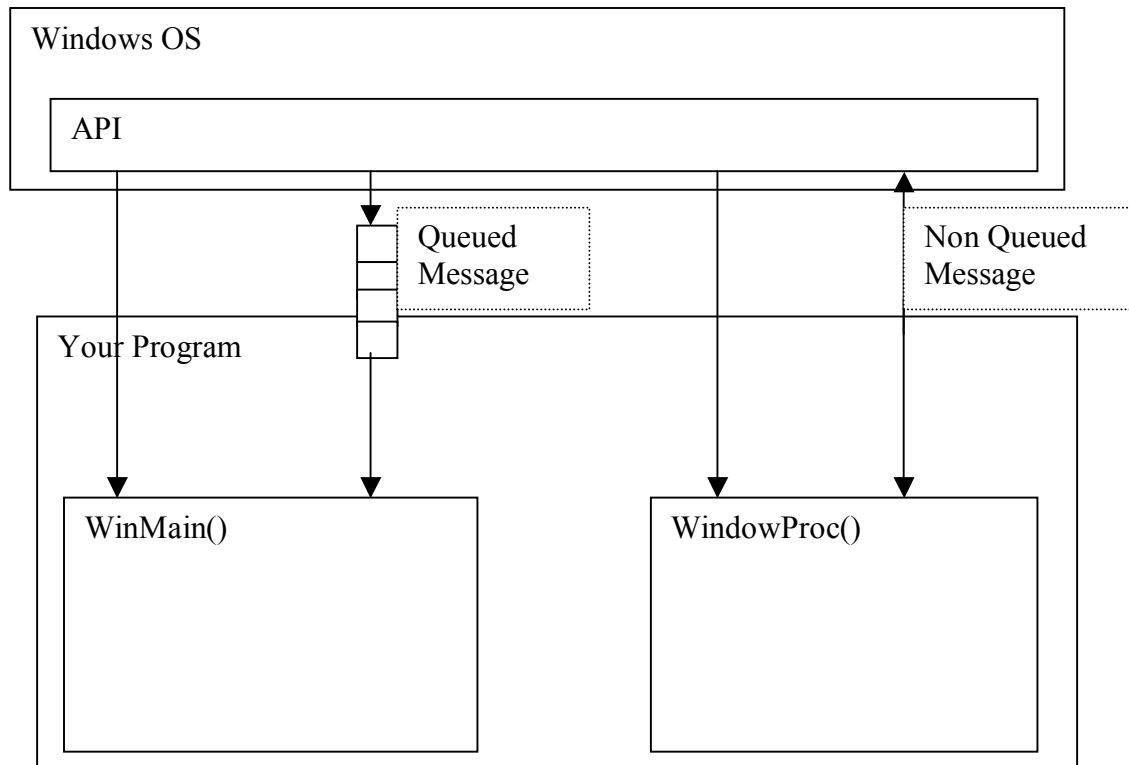
1. What are the differences between DOS Operation System and Windows Operation System?

DOS application directly accesses the hardware. DOS applications do whatever it wants. DOS Operation System doesn't have control over DOS application.

Windows Operation System has total control over Windows application. Windows application must get permission from Windows Operation System to do things.

- Windows OS event driven and takes message from keyboard, mouse and some other occurrence.

2. Explain basic Windows Programming architecture? Draw and explain its component?



**WinMain():**

- Communicate with the Windows OS through API.
- Performs initialization, define and display the Windows or frame of the application.

- Retrieves each message from the message Queued
- Translate messages and send to API.
- Loop and get next message.

**WindowProc():**

- Process message
- Communicate Windows OS via the API.
- Some messages are directly send to WindowProc() for processing.

**Queued Message:** Windows place message in the queued to WinMain() retrieved them,

**Non Queued Message:** Windows call WindowProc() to process message.

3. What is API?

API (Application Programming Interface) interfaces between Windows OS and Windows application and handles all the communication between program and Windows.

4. What is Hungarian Notation?

When the Windows API was written programmers at the Microsoft name the system for variables and functions called Hungarian Notation.

Example: b (Boolean) c (Type of char) I (type of integer), P (pointer)

- Function name begins with Capital letter. Variable names with lower case letter. EX: lpCmdLine, CreateWindow()

5. What is queued and message queued?
6. What is MFC Application Wizard and relation ship between MFC and API?
7. Explain MFC notation?
8. What are the tools to create Windows Application? Explain?
9. How you create and add a source file to Project? Give example?
- 10.Explain document, view and their relationship? Give example?
- 11.What is frame Windows?
- 12.What are the choices of document interface?
13. What is a document template and kinds? Give example?
- 14.What are the four steps you follow to create MFC?