

**Scope:  
“Vapor”  
MusicPlayer version 2**

**Impactware Freeware  
10/04/2005**

## **Requirements**

MusicPlayer is to have the following functionalities:

1. Be able to playback MP3, WAV, WMA, MIDI file formats
2. Have an easy to use Playlist system
3. Have a customisable user interface (schemes)
4. Have file sharing network capabilities
5. Have an automatic update system that allows for updates without restart of program
6. Be able to function on Windows XP
7. Have a user login system to help categorize different playlists
8. Each of the above functions are to be handled by independent silent-running apps that are connected by a central User Interface.

### **Requirement Specifications:**

Each of the above requirements can be further explained as follows:

1. Be able to playback MP3, WAV, WMA, MIDI file formats – songs can be selected from a list of all songs within directories or playlists. They can be played by a song application that runs silently. Information about the song progress is displayed on the User Interface of MusicPlayer.
2. Have an easy to use Playlist system – allow the program to run from the Windows shell, so that files can be added to the playlists anywhere. Make the playlist editor graphical and use a drag-drop function.
3. Have a customisable user interface (schemes) – controls/buttons are to have customisable colors/images.
4. Have file sharing network capabilities – MusicPlayer should be able to detect machines on a network that are also running MusicPlayer. Allow music files to be copied between such machines.
5. Have an automatic update system that allows for updates without restart of program – two distinct possibilities, either download precompiled exe from update server OR download encrypted code that is compiled by the update engine and turned into the new exe. Precompiled is more secure, but requires large amount of data. Uncompiled Code is faster but has the danger of errors occurring. Updates should probably be compressed in ZIP files that are locked with passwords (that are retrieved from the update server).
6. Be able to function on Windows XP – Windows XP is the earliest version of Windows to fully support Visual Basic 6.0 programs. Only a few additional dependency files would need to be included.
7. Have a user login system to help categorize different playlists – when MusicPlayer starts up, provide an interface for the user to enter their name or add a new name. Under this name only files are stored. This feature should also be capable of being disabled.
8. Each of the above functions are to be handled by independent silent-running apps that are connected by a central User Interface – each app will be developed separately in order to ensure efficiency.

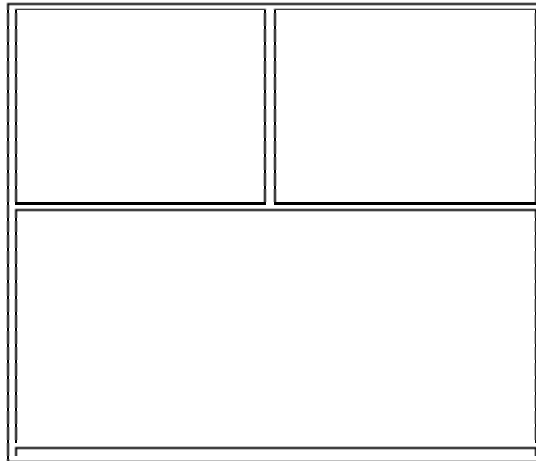
## ***Design Specifications***

All design will be centred upon making controls as independent as possible (meaning that controls can simply be added during interface design without having to alter code to allow control to work properly)

### **User Interface Specification**

- All interfaces are to use less than 2 colour schemes at any given time (Preferably Black or White/Depends on Background).
- No more than 2 fonts are to be used (Preferably Arial or Tahoma).
- All fonts should be readable (at least size 10, but preferably 12)
- Interface should be responsive/dynamically respond to circumstances

User Interfaces should use box layout design to keep all controls neat and in relation with each other.



Box Layout Example

### ***Further Details***

More details on the Actual interface design will be released when the individual controls milestone is achieved.

Website:

<http://members.iinet.net.au/~bensley/project/musicplayer.html>

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