

# Re: problem using self built DLL

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  - *Date:* Sun, 22 Apr 2007 13:03:00 -0400
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See below...

On 20 Apr 2007 11:47:16 -0700, wanwan <[ericwan78@xxxxxxxxxx](mailto:ericwan78@xxxxxxxxxx)> wrote:

I made an MFC extension DLL, but I couldn't get it working on the client application. Can somebody please tell me what I did wrong in the procedure:

1. I started an MFC extension DLL project called "MyDll". I added a class called "MyClass" and added the keyword AFX\_EXT\_CLASS in the class declaration in the header file.
2. I built the project and copied the files "MyDll.dll" and "MyDll.lib" to the client project folder.
3. In the client project settings, I added the file MyDll.lib in the linker - input section.
4. I made a MyDll.h file with the line: `class AFX_EXT_CLASS MyClass;`

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So right there, you have made a serious error. You have declared that there is a class called MyClass, AND YOU HAVE SAID NOTHING MORE ABOUT IT! This is a "forward" declaration, wherein you promise to say something later.

\*\*\*\*\*

5. I used `#include "MyDll.h"` in the cpp files where I need MyClass.

With the above steps, I expect MyClass to be defined. But when I use the imported class it gave me the error:

```
error C2079: 'CClientApp::myobject' uses undefined class 'MyClass'
```

\*\*\*\*\*

You get this error because it IS an undefined class. You promised to say something about it later, and never did, so there is no possible way for the compiler to know what the class does. It does not know what size it is, what members it has, or anything other than its name (of course, had you wanted to give a meaningful error message, you would have

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shown the line that this error complains about. It would be obvious; it would be a declaration of a MyClass variable, or an attempt to use any method or access any member of the class).

Your .h file must contain the entire class declaration. If you do not want the implementation visible, then the .h file declares the class, and your implementation will declare a derived subclass of that class.

```
joe  
*****  
*****
```

Please advise.

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