

## Lab 3.1: Creating an MFC Application

### Objectives

After completing this lab, you will be able to:

- Use AppWizard to create a simple MFC application.
- Use Microsoft Developer Studio and Microsoft Visual C++ 5 to build and run the application.

### Prerequisites

You should have completed Chapters 2 and 3 before attempting this lab.

### Lab Setup

To run the solution to this lab, click this icon.



This demonstration shows what you will accomplish during the lab.



Estimated time to complete this lab: **15 minutes**.

### Exercises

The following exercise provides practice working with the concepts and techniques covered in this chapter.

#### Exercise 1: Using AppWizard to Create an MFC Application

In this exercise, you will use Microsoft Developer Studio, MFC AppWizard, and Microsoft Visual C++ 5 to create, build, and run a simple MFC single document interface (SDI) application.

There is no setup for this lab. The completed code for these exercises is in \Labs\C03\Lab01\Xxx, where Xxx is the exercise number.

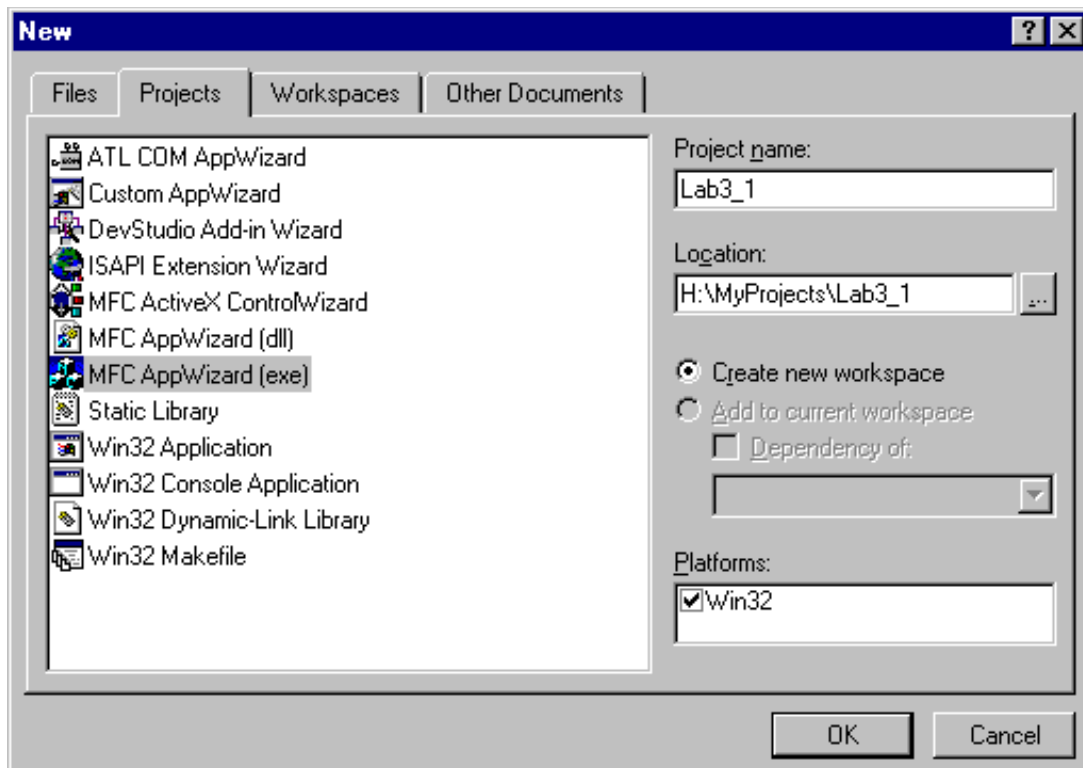
## Exercise 1: Using AppWizard to Create an MFC Application

In this exercise, you will use Developer Studio, MFC AppWizard, and Visual C++ 5 to create, build, and run a simple MFC single document interface (SDI) application.

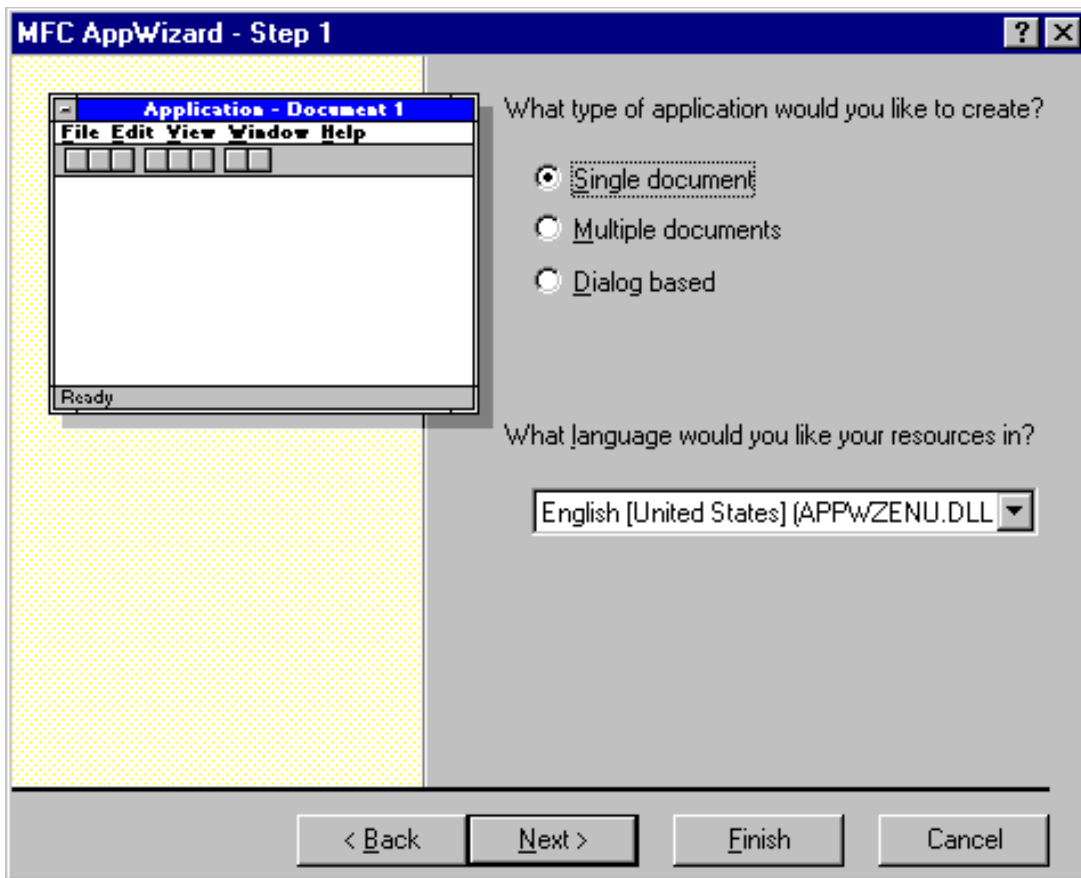
All of the functionality in this application is provided by the AppWizard-generated classes.

#### ➤ Use AppWizard to create a new MFC (exe) application

1. In Developer Studio, on the File menu, click New.
2. In the New File dialog box, click the Projects tab, and then:
  - a. Choose MFC AppWizard (exe) for the Project type.
  - b. Set the Project name to **Lab3\_1**.
  - c. Set the location for your project.
  - d. Accept the default platform Win32.
  - e. Click OK to create the new Project Workspace.



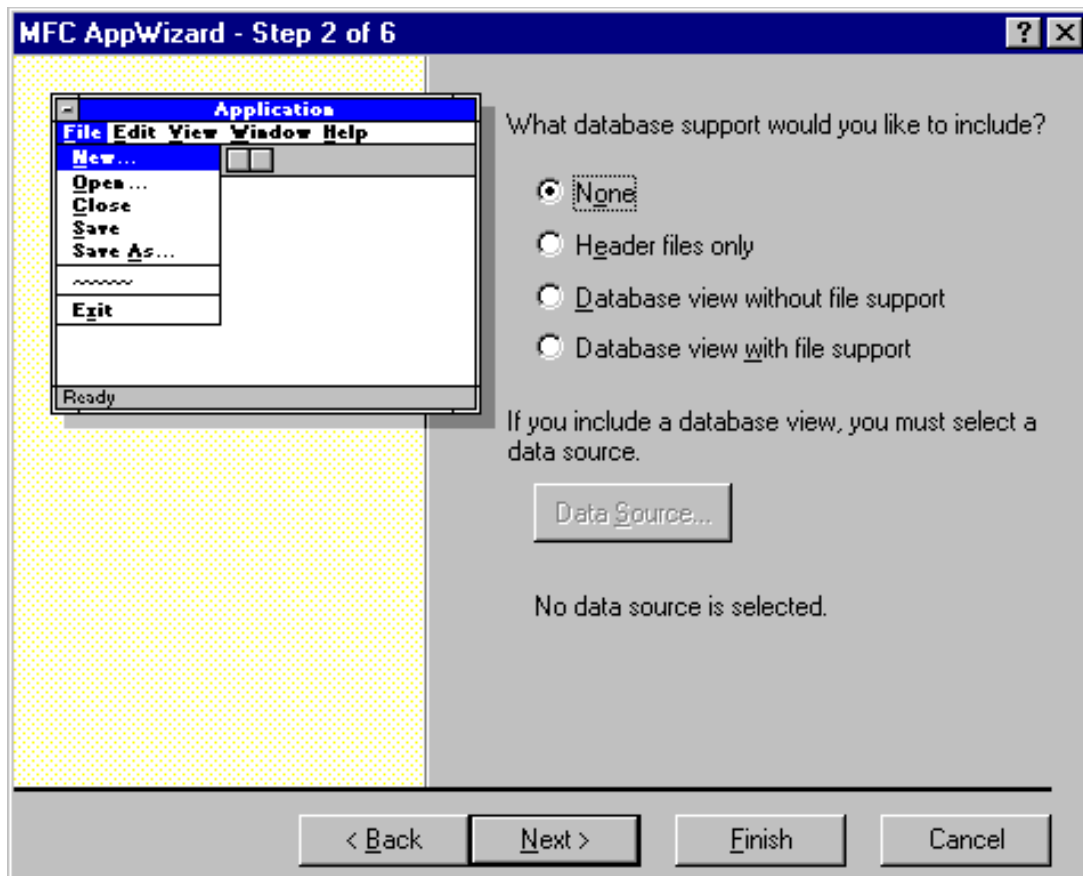
3. In MFC AppWizard, Step 1, choose Single Document application and English language support. Click Next to go to Step 2.



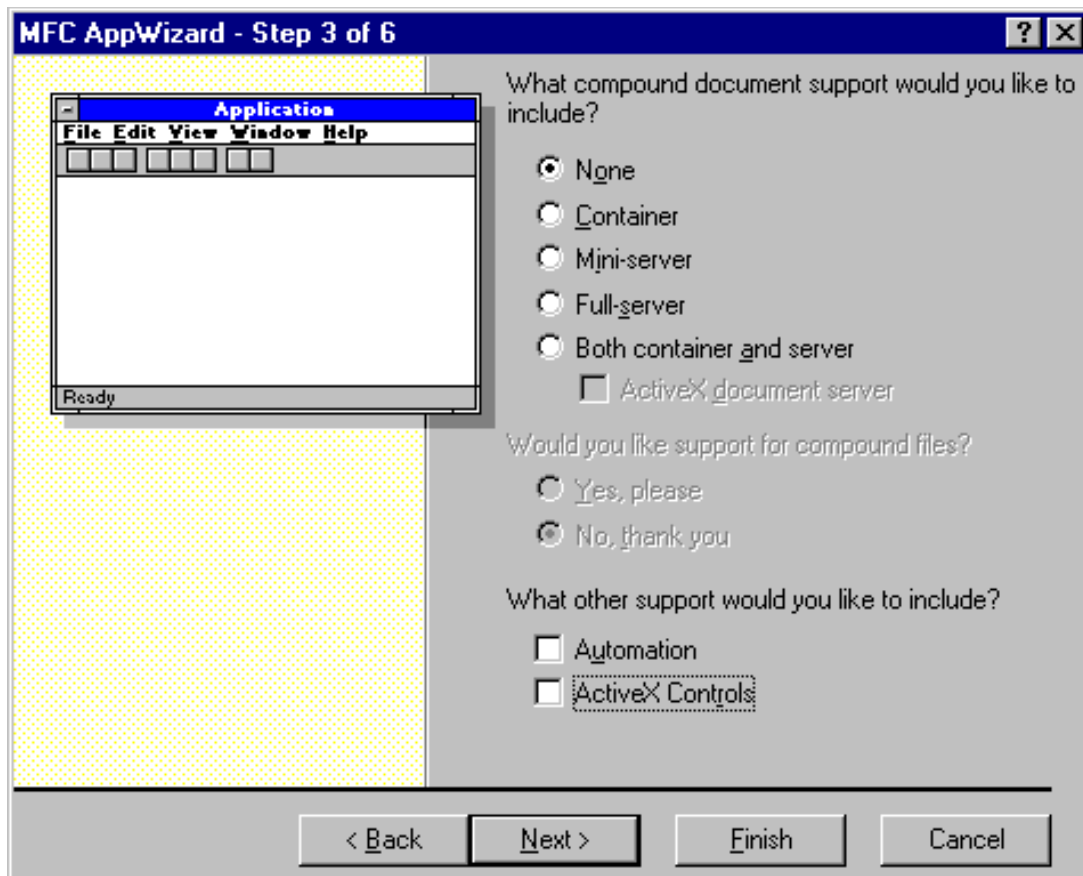
This table briefly describes the three application types offered as choices in Step 1.

Application Type	Description
Single document - Single Document Interface (SDI)	Only one document window can be displayed at a time.
Multiple documents - Multiple Document Interface (MDI)	Multiple document windows can be displayed at a time.
Dialog based	The application runs as a stand-alone dialog box.

4. In Step 2, accept the default "None" for database support, and click Next to go to Step 3.

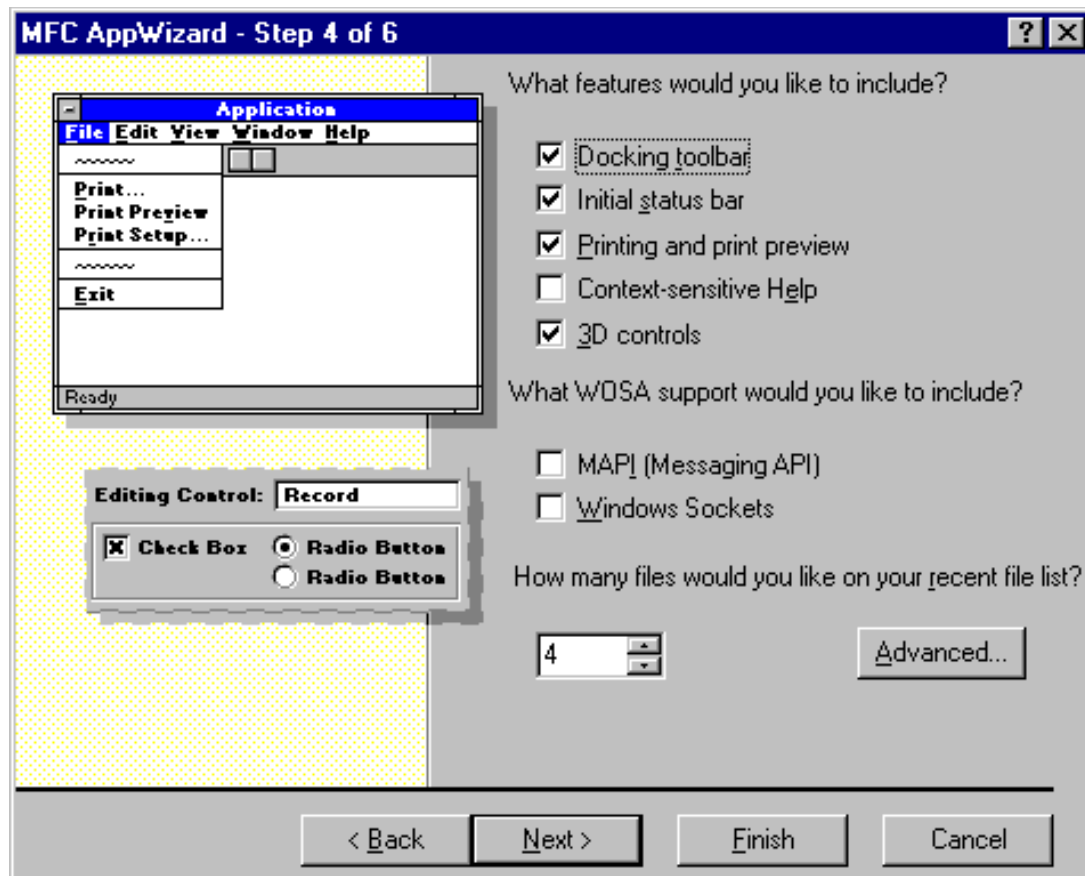


5. In Step 3, clear the check box for support for ActiveX Controls, and click Next to go to Step

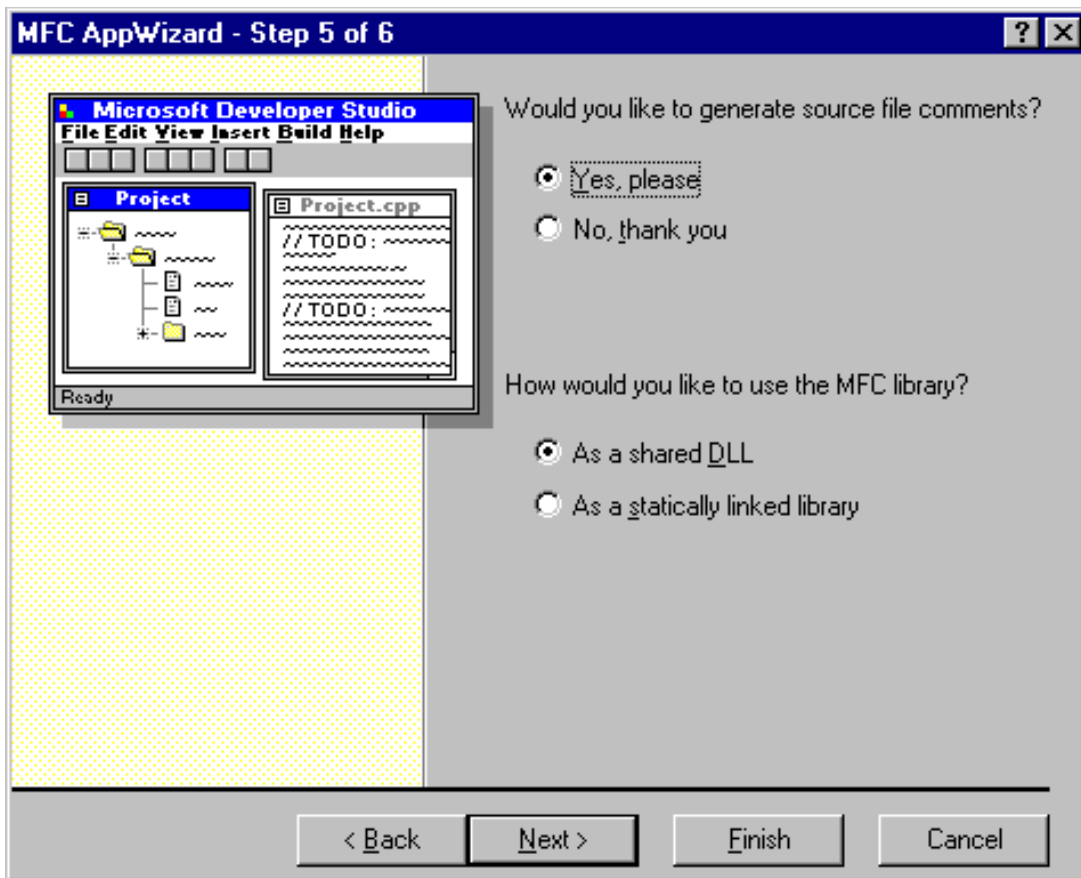


You will learn to create applications that use ActiveX controls in other chapters of this course.

6. In Step 4, accept the default settings (Docking toolbar, Initial status bar, Printing and print preview, 3D controls, and four files in the recent list). There are no changes in the Advanced options; click Next to go to Step 5.



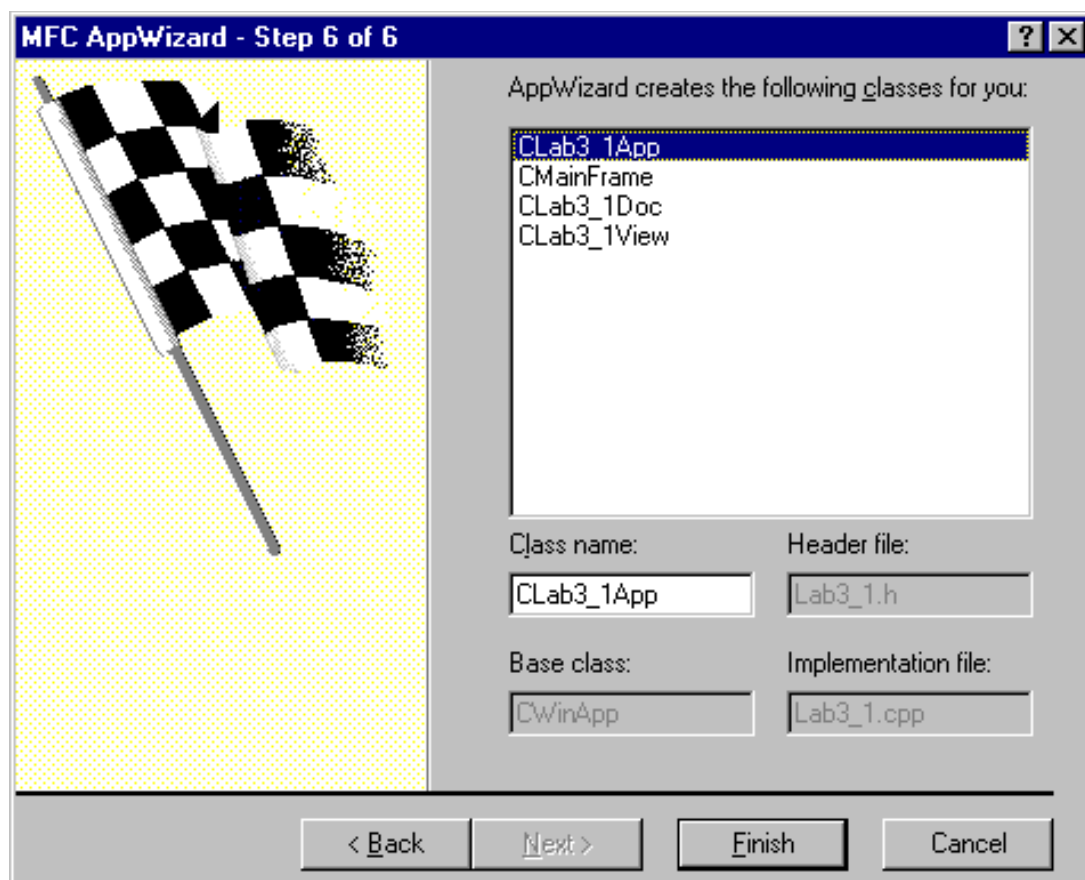
7. In Step 5, select the option to generate source file comments. Choose either static or shared DLL for MFC support, then click Next to go to Step 6.



**Note** Choosing to support MFC in a statically linked library includes the relevant code from the MFC libraries, making the .Exe larger. Choosing to support MFC as a shared DLL makes the .Exe smaller, but you will need to include Mfc42.Dll and Msvcrt.Dll as part of your application distribution files. For more information on these DLLs, see the article, "Naming Conventions for MFC DLLs," in the Visual C++ Programmer's Guide, in the Visual C++ online documentation.

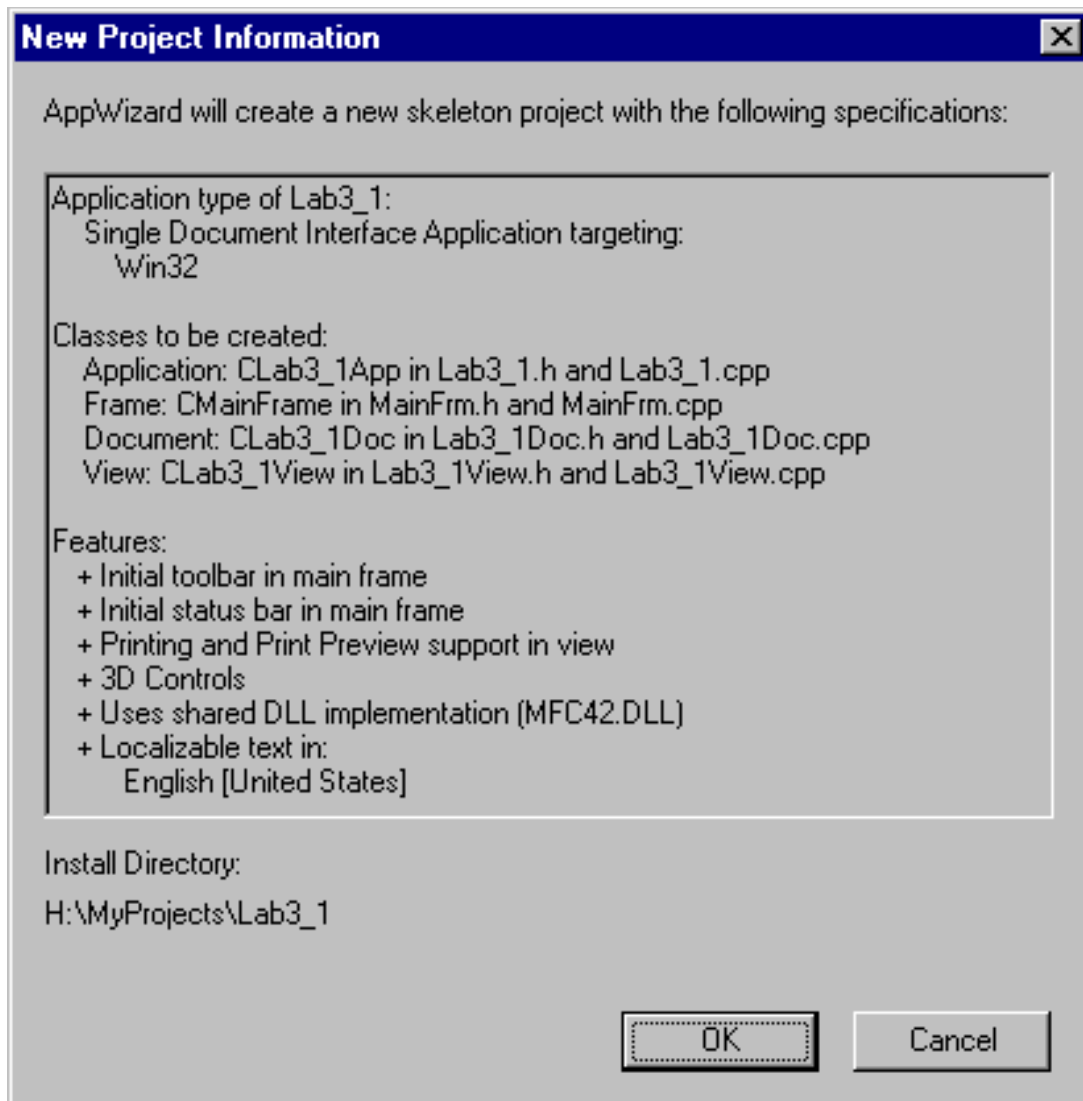
For the purposes of this course, you can use shared DLLs to keep the file size smaller.

8. Accept the files and classes proposed in Step 6, and click the Finish button.



AppWizard will display the New Project Information dialog box summarizing your choices.





9. Click OK; AppWizard creates the application files for you.

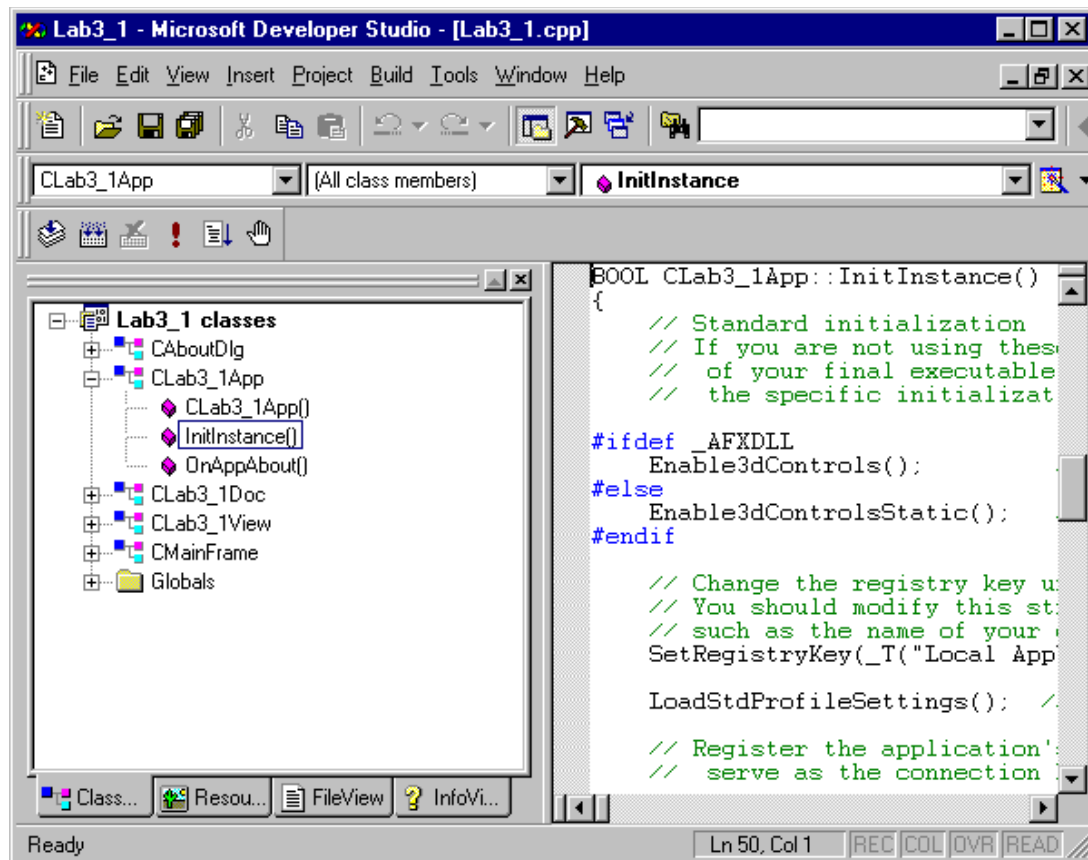
After AppWizard creates the starter files for the application, you will be returned to the Developer Studio environment.

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**Note** If you click the Cancel button, you will return to AppWizard so you can modify your choices.

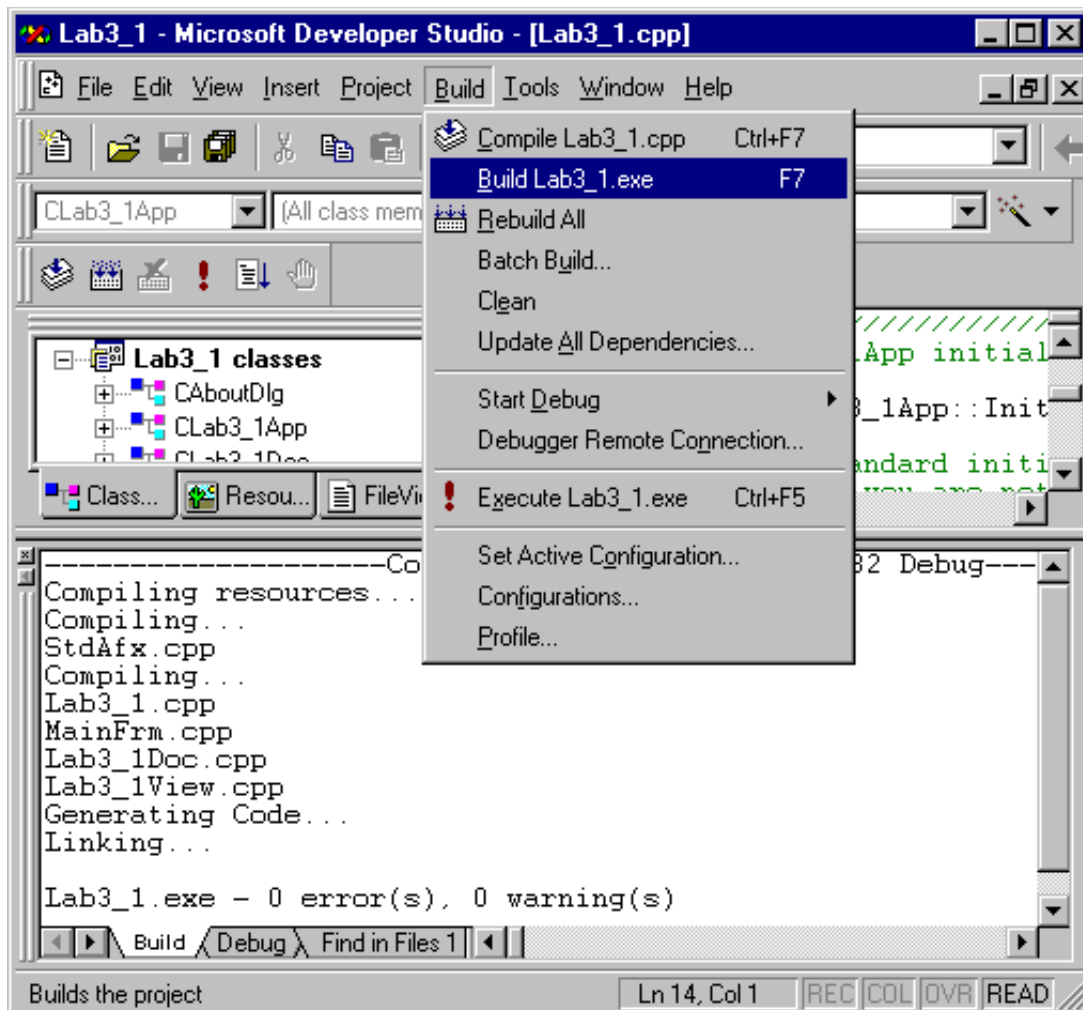
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10. Use the ClassView, ResourceView, and FileView panes of the Project Workspace Window to explore the MFC application that AppWizard just created for you.

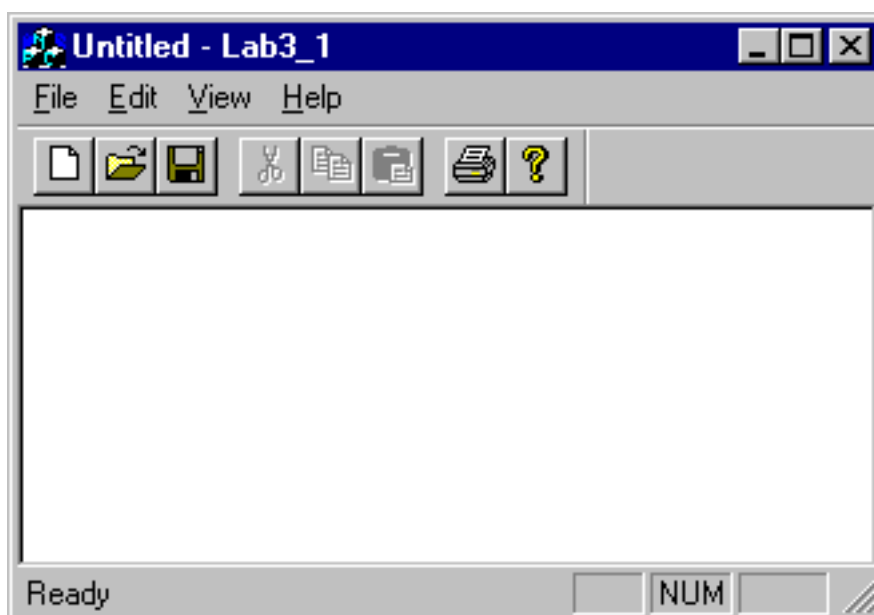


#### ➤ Build and run the project

1. On the Build menu, click Build Lab3\_1.exe, or press F7. Developer Studio will display the status of the build process in the Output window.



2. After the build is complete, on the Build menu, click Execute Lab3\_1.exe, or press CTRL+F5, to start the Lab3\_1 application.



At this point, the Lab3\_1 application has little custom functionality. However, many of the application basics are in place: menus, toolbar, status bar, and window frame. In other chapters in this course, you will learn to extend a starter application such as this one.

The completed code for this exercise is in \Labs\C03\Lab01\Ex01.