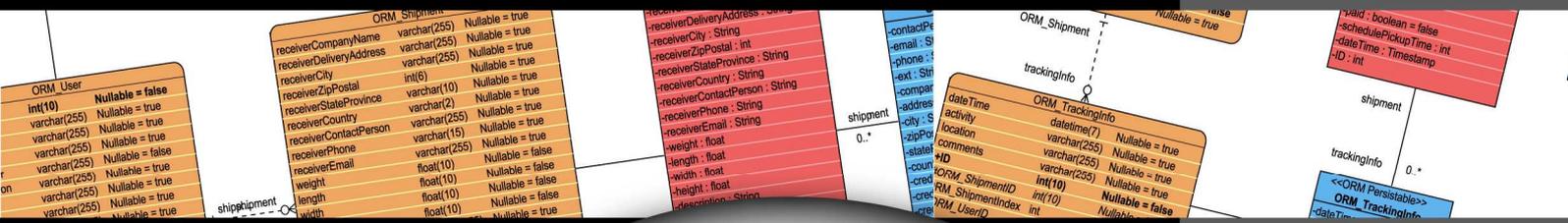


# Database Visual ARCHITECT Deployment Guide for .NET

Access database with Object-Oriented technology





## DB Visual ARCHITECT 4.0 Deployment Guide for .NET

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# 1

## Deploying Standalone .NET Application

# Chapter 1 - Deploying Standalone .NET Application

DB Visual ARCHITECT (DB-VA) can generate all .NET code for accessing database, you do not need to write any SQL to insert, query, update or delete the record, hence you can develop quality Standalone .NET Application much faster, better and cheaper. In this chapter we focus on deploying standalone .NET application. If you want to know how to develop a quality standalone .NET application, you can reference the Programmer's Guide for .NET -Chapter 1 Developing Standalone .NET Application.

In this chapter:

- Creating the Setup Project for Standalone .NET Application
- Installing the Application

## Creating the Setup Project for Standalone .NET Application

After you have developed the standalone .NET application in Visual Studio .NET, you may wonder how to deploy the application to another computer. Visual Studio provides an excellent feature to create setup file (installer) so you can install the application on other machines easily. You can download the example of the Programmer's Guide for .NET -Chapter 4 Developing Standalone .NET Application and follow the steps below to create the setup file and install it.

1. Open the Chapter 4 example in Visual Studio .NET.

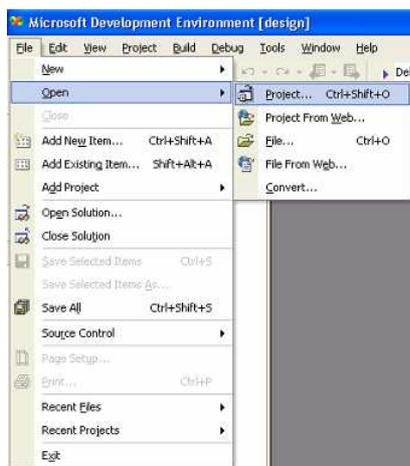


Figure 1.1 - Open a project

2. Change the Active Solution Configuration from Debug to Release.

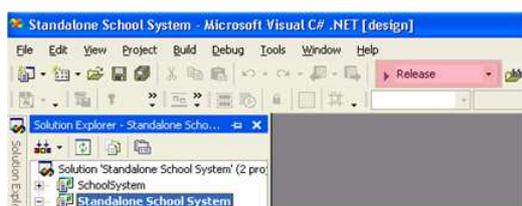


Figure 1.2 - The Release button

Debug and Release are different configurations for building your project. As the name implies, you generally use the Debug mode for debugging your project and the Release mode for the final build for end user. The Debug mode does not optimize the binary it produces (as optimizations can greatly complicate debugging) and generates additional data to aid debugging. The Release mode enables optimizations and generates less extra debug data.

- From the main menu, select **Build > Build Solution** to compile the code.

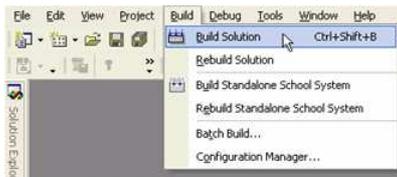


Figure 1.3 - To build solution

- The Release folder is created in bin folder of the project path. It contains all the referenced libraries and executable file.

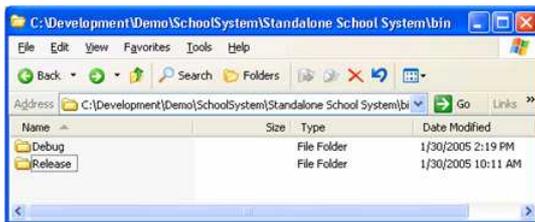


Figure 1.4 - The bin folder

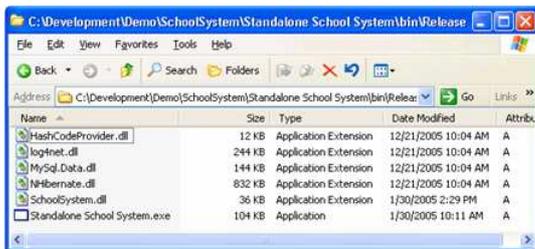


Figure 1.5 - The release folder

- Copy the configuration file (**hibernate.cfg.xml**) from DB-VA generated C# project to the Release folder. The configuration file contains the connect database information. The application will fail when execution if this file is missing.

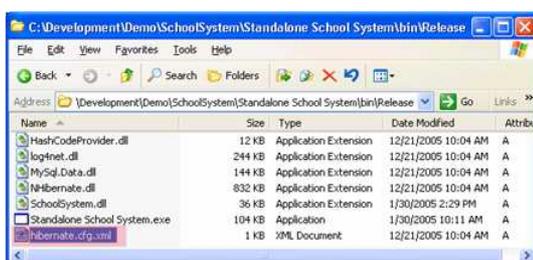


Figure 1.6 - The hibernate.cfg.xml files in the release folder

6. Right Click the Solution, select **Add > New Project** from menu.

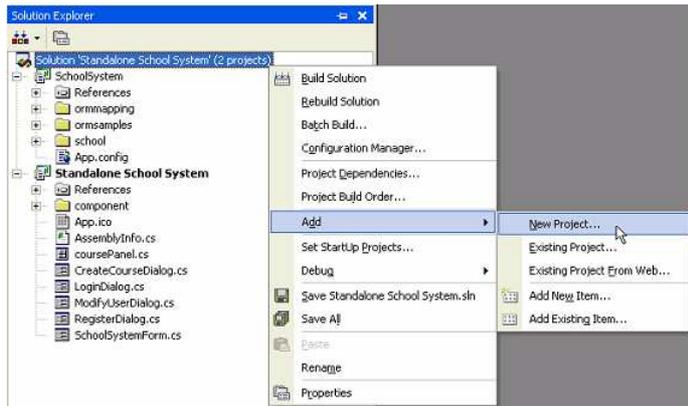


Figure 1.7 - Create a new project

7. Select **Setup and Deployment Project** in Project Types, and the select **Setup Wizard** in Templates. Click OK to create the Setup and Deployment Project.

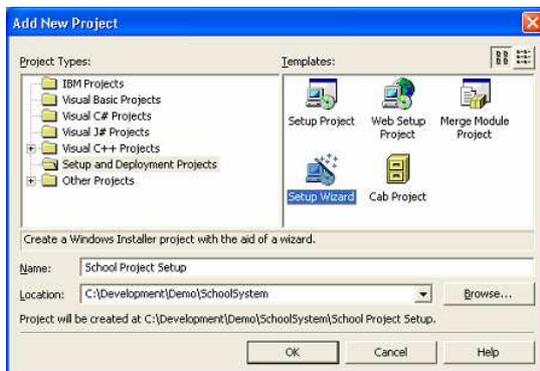


Figure 1.8 - Select the template

8. The Setup Project Wizard is shown.



Figure 1.9 - setup Wizard

- 9.

10. Select **Create a setup for a Windows application** and then click **Next >**.



Figure 1.10 - Choose a project type

11. Choose the **Primary output from Standalone School System**, this option will help you to add all the DLL or EXE file to the setup file. You must select a correct project for primary output in solution. After that, click **Finish**. You can also click **Next>** to follow the wizard to add readme file to the setup file.

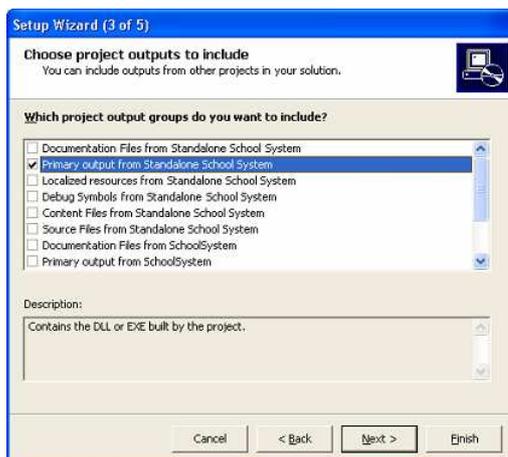


Figure 1.11 - Select the project output

12. The Setup project is created.

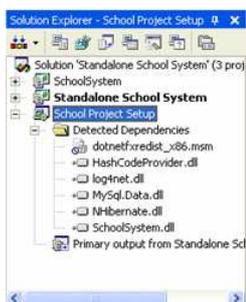


Figure 1.12 - Project created

- Open the File System (Setup) of the Setup project. Right click the Application Folder, select **Add > File** to add the hibernate.cfg.xml manually.

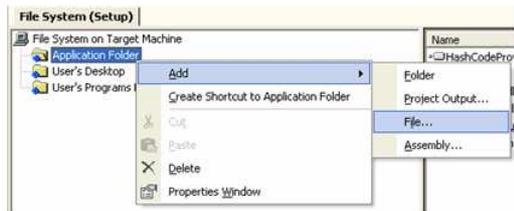


Figure 1.13 - To add file to project

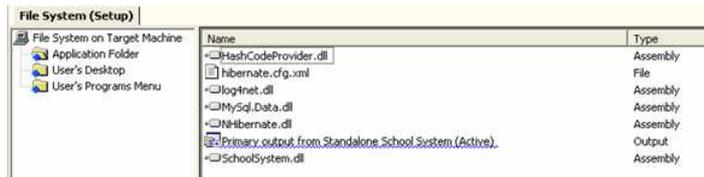


Figure 1.14 - The files in the folder

- Right click **Primary output from Standalone School System** and then select **Create Shortcut to Primary output from Standalone School System**.

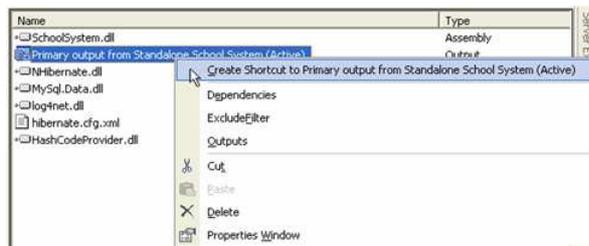


Figure 1.15 - To create shortcut to primary output

- The shortcut is created on the Application Folder. You can change the properties of the shortcut.

For **Name** -School System

For **Folder** -User's Desktop

This shortcut will be created on the user's desktop when user installs this application.

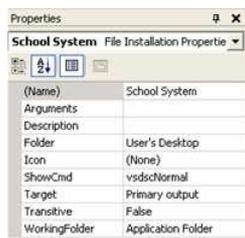


Figure 1.16 - The Project properties

16. Right Click the **School System Setup** project and select **Build** to create the installer.

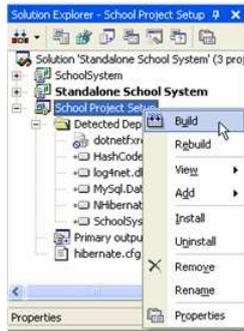


Figure 1.17 - To build the application

17. The setup file is created in **School Project Setup\Release** folder.

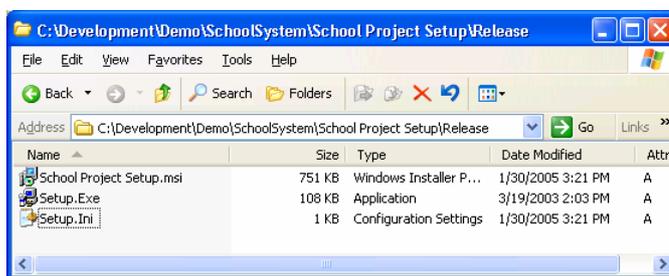


Figure 1.18 - The Installer are created

## Installing the Application

The setup file is created in School Project Setup\Release folder. Now, you can copy the **School Project Setup.msi** file to another machine and install it.

1. Double click the **School Project Setup.msi** file to start install, and then click **Next >**.



Figure 1.19 - Setup welcome page

2. Select the path to install the application. By default, application install in the Program File. Click **Next>**.

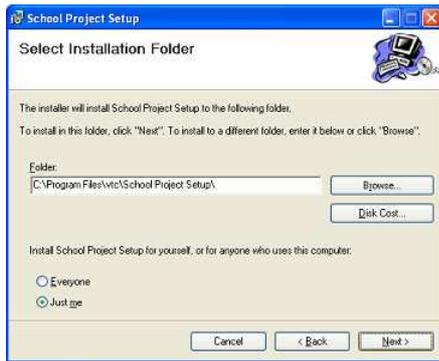


Figure 1.20 - Select the install directory

3. Confirm to install then the application will be installed on your selected path. Click **Close** to finish the installation.

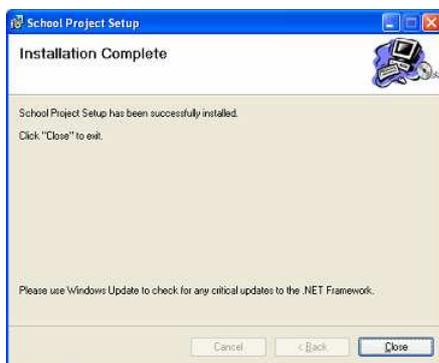
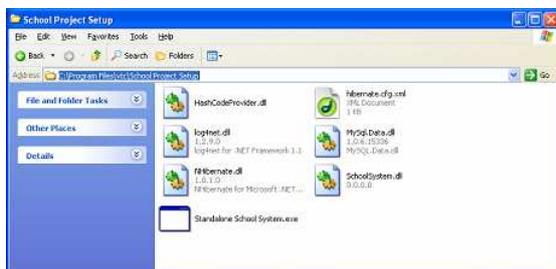


Figure 1.23 - Install complete message

The installer created shortcut of School System on the Desktop and installed the application on selected path. User can double-click this shortcut to execute the standalone .NET application.



Figure 1.24 - Desktop shortcut are created



# 2

## **Deploying ASP.NET Standalone**

# Chapter 2 - Deploying ASP.NET Application

In Programmer's Guide for .NET -Chapter 3 Developing ASP.NET Application, we have created the ASP.NET application. The ASP.NET application can be run on the local Internet Information Server (IIS) but you may want to deploy the ASP.NET on other machines. Visual Studio .NET provides the feature to create the installer ASP.NET applications so you can install the application on other machines easily.

In this chapter:

- Creating the Setup Project for ASP.NET Application
- Installing the Application

## Creating the Setup Project for ASP.NET Application

You can download the example of the Programmer's Guide for .NET -Chapter 3 Developing ASP.NET Application and follow the steps below to create the setup file and install it.

1. Open the Chapter 3 example in the Visual Studio .NET.

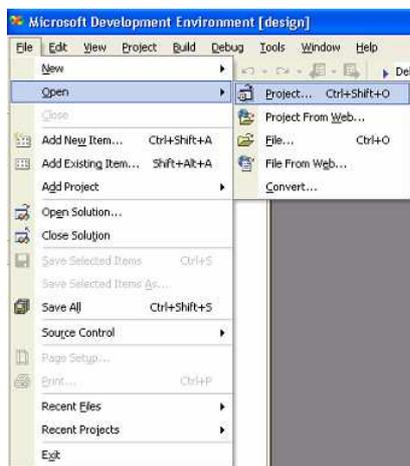


Figure 2.1 - Open a project

2. Right Click Solution, select **Add > New Project...**from menu.

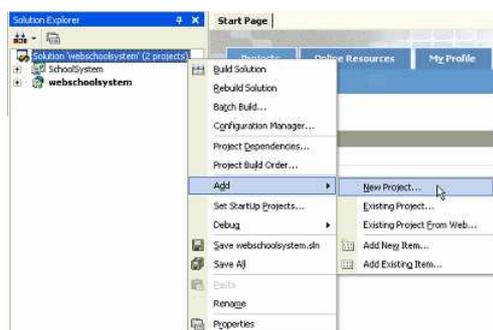


Figure 2.2 - Add a new project

3. Select **Setup and Deployment Project** in Project Types, and the select **Setup Wizard** in Templates. Type "**web school system**" for name. Click OK to create the Setup and Deployment Project.

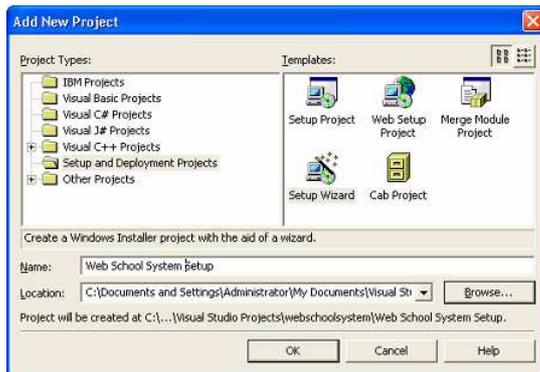


Figure 2.3 - Select Setup Wizard template

4. The Setup Project Wizard is shown.



Figure 2.4 - Setup Wizard Welcome Page

5. Select **Create a setup for a web application** and then click **Next >**.



Figure 2.5 - Select the project type

6. Select **Primary output from webschoolsystem** and **Content Files from webschoolsystem**, this option will help you to add all the DLL or EXE and ASP.NET file to the setup file. You must select a correct project for primary output in the solution. After that, click **Finish**. You also can click **Next >** to follow the wizard to add readme file to the setup file.



Figure 2.6 - Select the project output

7. The Setup project is created in solution.

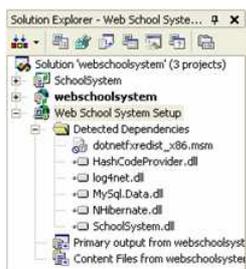


Figure 2.7 - The Project created

8. Open the File System (Setup) of the Setup project. Right click the **Web Application Folder\bin** Folder, select **Add > File...** to add the **hibernate.cfg.xml** manually from the DB-VA generated C# project.

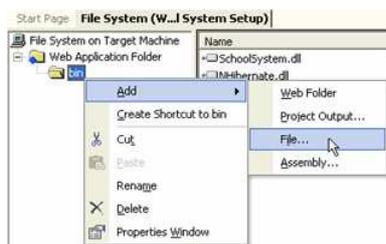


Figure 2.8 - Add a files to project

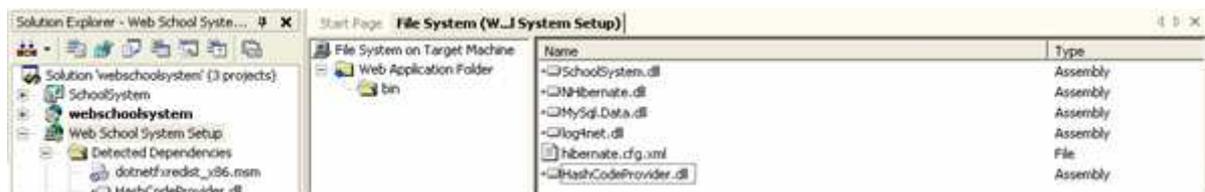


Figure 2.9 - The files in the folder

- Right click the Web School System Setup project and then select **Build** on menu.

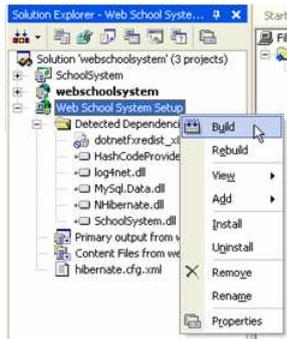


Figure 2.10 - To build the application

- The Setup File is created in the **Web School System Setup\Debug** folder.

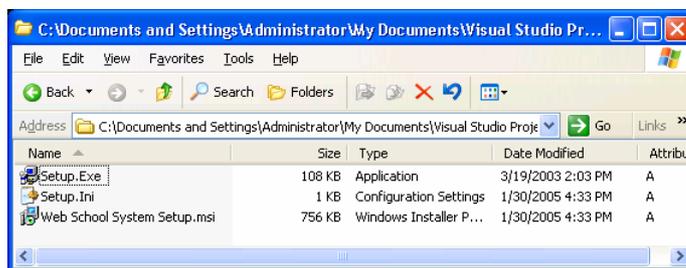


Figure 2.11 - The Setup execute file are generated

## Installing the Application

The setup file for ASP.NET application is created. You can copy the Web School System Setup.msi file to other machines and install. The installation machine must have IIS installed otherwise the message below will be shown.



Figure 2.12 - The setup warning message

- The setup wizard will be shown if your machine has IIS installed. Click **Next >**.

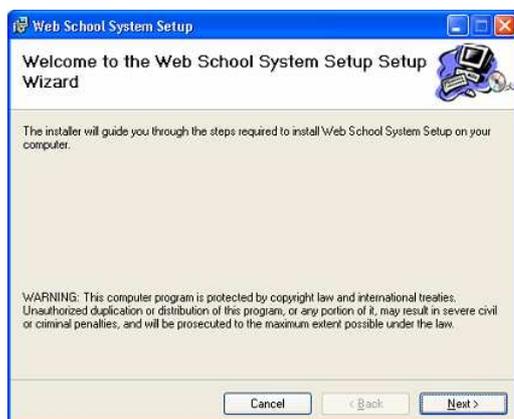


Figure 2.13 - Setup Welcome Page

2. Type the Virtual Directory name and Port for the web application. The Virtual Directory is the web application for browser to access. For example, <http://localhost:<<Port>>/<<Virtual directory>>>.

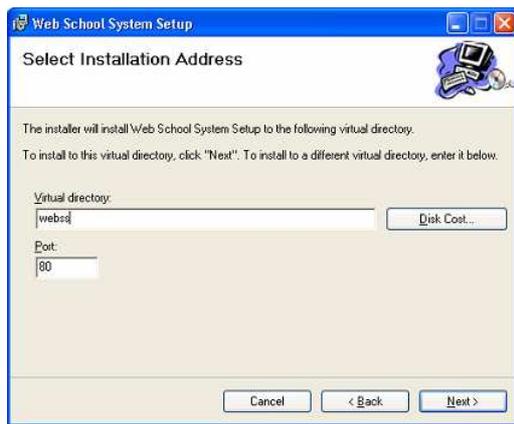


Figure 2.14 - enter the virtual directory and port

3. Confirm to install, then the application will be installed on your selected path. Click **Close** to finish the installation.

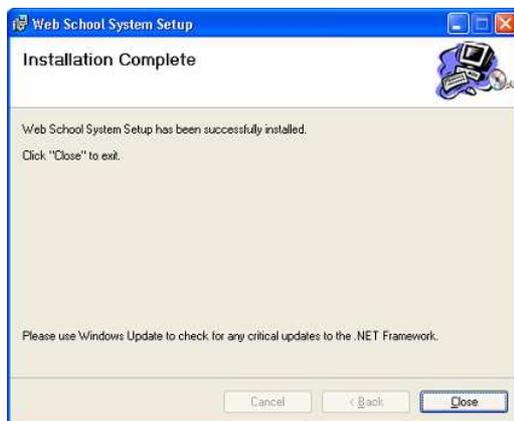


Figure 2.15 - Installation complete message

4. Open the Internet Information Service (IIS) Manager, you can see the ASP.NET application is installed on **Web Sites\Default Web Site\<Virtual directory>**

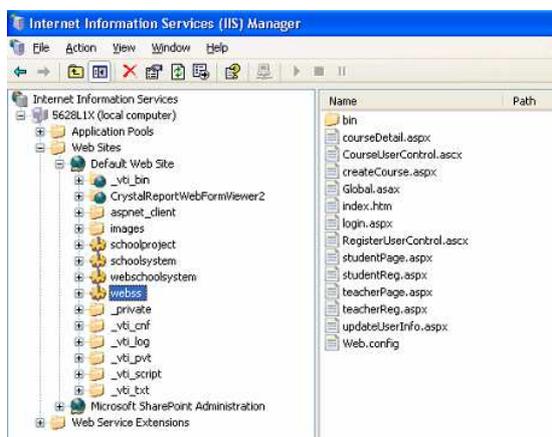


Figure 2.16 - Internet Information Service (IIS)

5. Go to the <http://localhost/webss/index.htm>, the ASP.NET application is running in the IIS.

