Antech Solutions

Empowering .Net Technolgies

Code Generators

User Guide Version 2.0
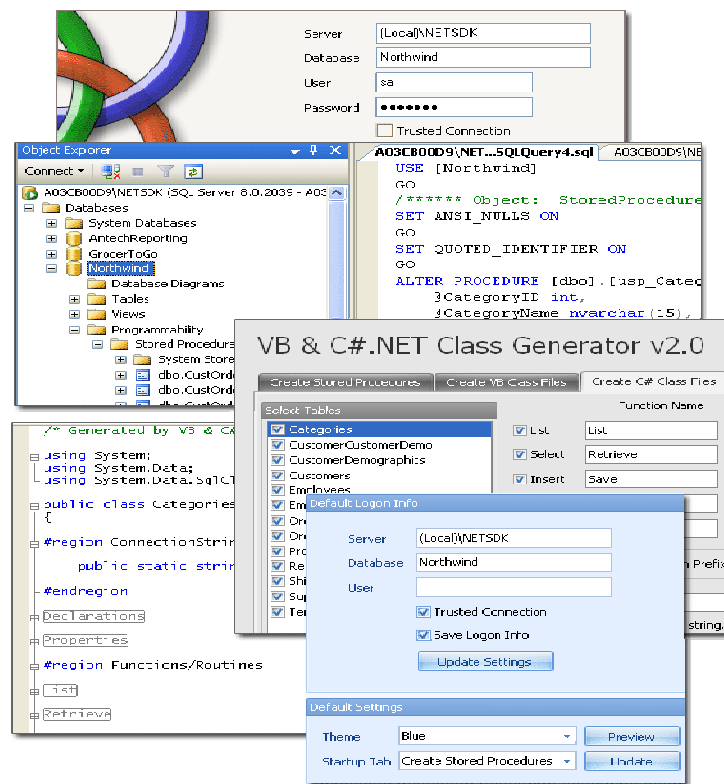
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Modules:	**Stored Proc Creator v2.0**
	VB .NET Class Generator v2.0
	C# .NET Class Generator v2.0
	VB & C# .NET Class Generator v2.0

Table of Contents

1 Introduction

Code Generators is a software development tool that helps you to do your coding done faster and easier. This tool will read all the tables from a SQL 2000/2005 or MSDE or SQLEX-PRESS database and create the Class files (Data cum Business Access Layer Class) accordingly regardless of the type of the project that you create (Web/ Windows/Windows Service or Mobile).

Now a day's most of the developers face a repetitive task when they writing a database layer to connect with the back-end RDBMS system. They are mostly writing object classes to storage and retrieval of data to and from the database tables and they will spend lots of time to do coding. Manual coding can produce poor result with lots of mistake.

Antech Code Generators is a powerful tool to solve this problem. It will automatically create all the class files in a fraction of second. It will create all the necessary info that you might need to create an object based on the Table. The class file treats each Table as an object.

It also creates the necessary Stored Procedures based on the selection.

2 Minimum Requirements

P4, 512MB, XP Pro, XP Home, 2000, .Net Framework 2.0 and SQL 2000, SQL2005, SQLEX-PRESS, MSDE

3 Code Generators

The General User Interface

The Code Generators is basically a "Tabbed Interface". Thus all functionalities are neatly stowed into various tabs, which in themselves allocate proper secondary level interface elements like buttons, and pull downs.


Once inside the main program, the user is faced with a max of six Tabs depending on the type of Product purchased which includes the Create Stored Procedures, Create VB Class Files, Create C# Class Files, Settings, Registration and the About Tab.
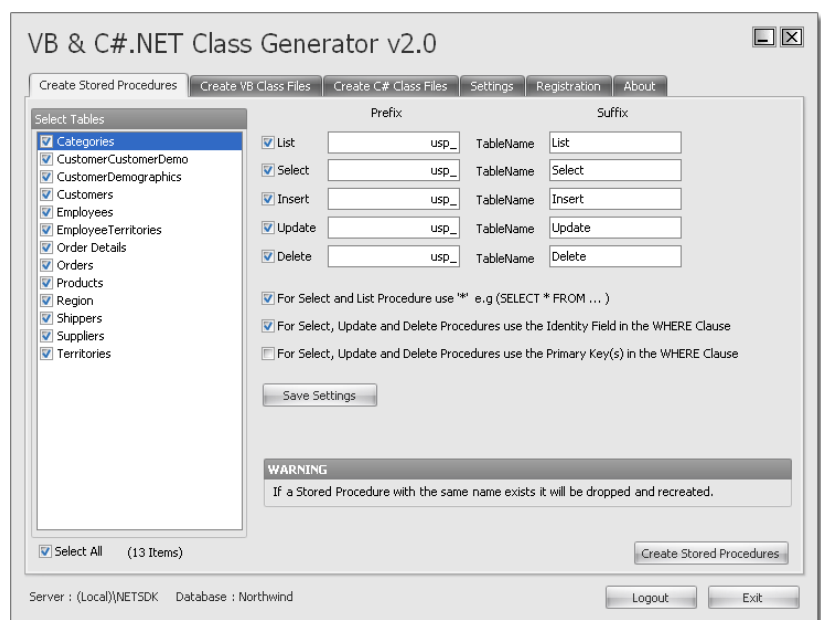
Login Window

The User is greeted with the main Login Window, which seeks the Server Name, Database Name, User Name and Password for Login and access to the Module.

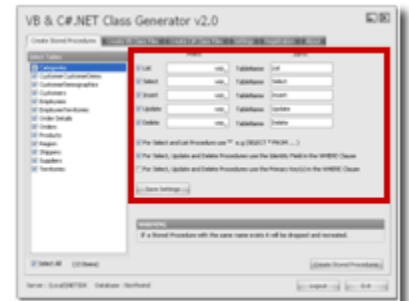The Save Logon Info option is used to Save the Logged in Information.
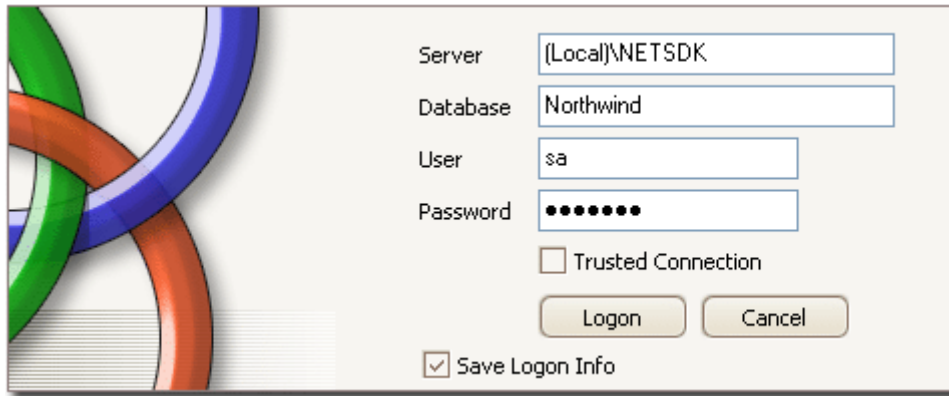
3.1 The Create Stored Procedure Tab

The Create Stored Procedure Tab is used to read all the tables from a MSSQL 2000 or MSDE (supports MSSQL 2005 and SQLEXPRESS) database and to create all the necessary Stored Procedures based on the selection. It helps you create those typical Stored Procedures to List, Select, Save, Update and Delete with or without all the necessary Parameters.

3.1.1 Creating Stored Procedure

- To create Stored Procedures you can add prefix or suffix or both to that Table Name.

- For Select and List Procedures you can use '*' option which will be used to substitute Field Names.

- For Select, Update and Delete Procedures you can use either Identity Field or Primary Key's Field in the Where Clause

- Save Settings option is used to save all the above Settings as default
- The Select All Option is used to select all the tables
- Click on the Create Stored Procedure Button to Create Stored Procedures
- If a Stored Procedure with the same name exists it will be dropped and recreated

3.1.2 Cancel Stored Procedure
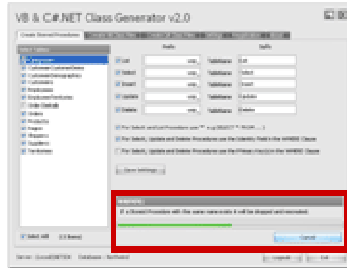
- To Cancel the Stored Procedure Creation while creating just click on the Cancel Button.
- This may not have any impact with fewer Tables.
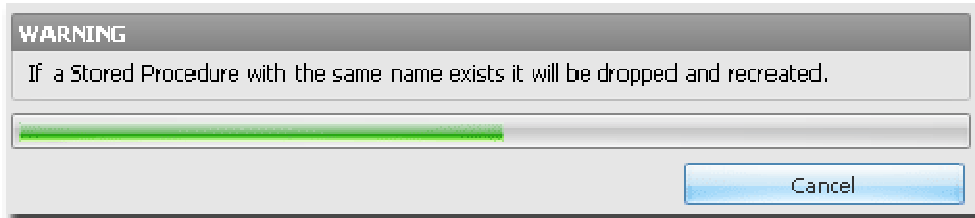
3.1.3 Sample Stored Procedure Created by using Stored Proc

3.2 The Create VB / C# Class Files Tab

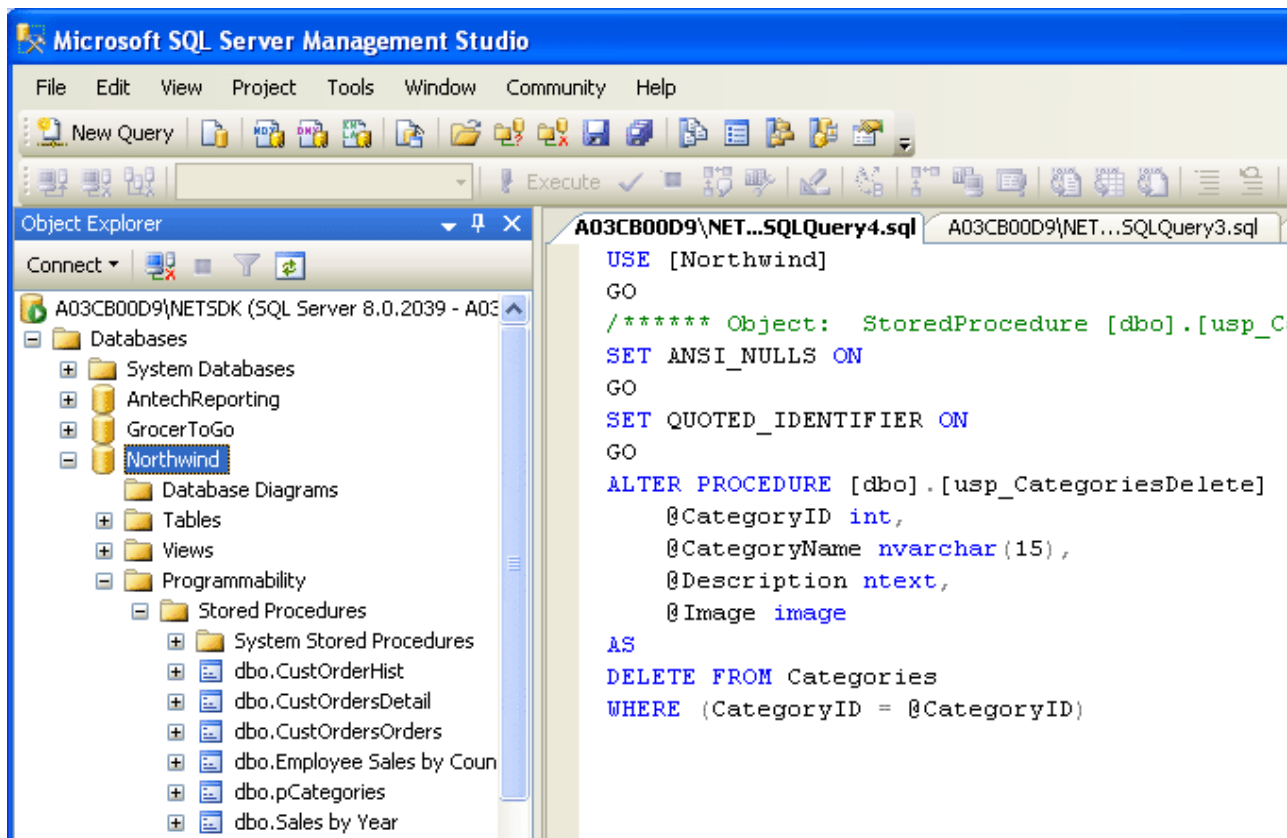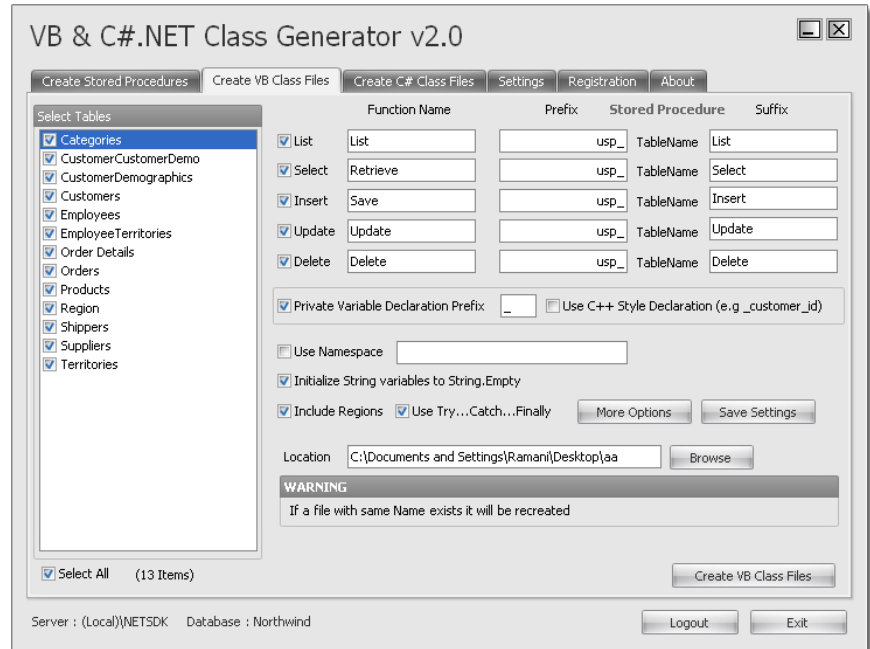The current Code Generator helps you to create Class files for VB or C# or both depending on the product which you purchased.

It will create all the necessary info that you might need to create an object based on the Table.

The class file treats each Table as an Object with the option to create some Static Functions.
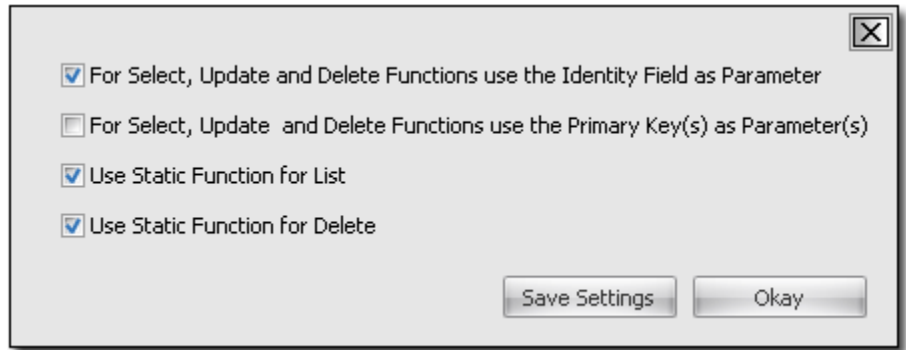
3.2.1 Creating Class Files

- Select the Tables which you want to Create Class Files
- Select the desired functions(List, Select, Insert, Update and Delete)
- Change the Function Name accordingly
- You can change the Stored Procedure Name by adding Prefix or Suffix with that Table Name
- You can change Private Variable Declaration with Prefix '_' or use C++ Style Declaration (e.g. _customer_id or _CustomerId)
- If need Namespace check on the Namespace CheckBox and enter the Namespace
- You can initialize String Variable to String.Empty by clicking on the appropriate CheckBox
- To include Regions click on the Regions CheckBox
- For Try...Catch...Finally click on the Try...Catch...Finally CheckBox
- To Save all the above settings click on the Save Settings Button
- Enter the file location where you want to Create Class Files
- Click on the Create VB/C# Class Files Button

3.2.2 More Options
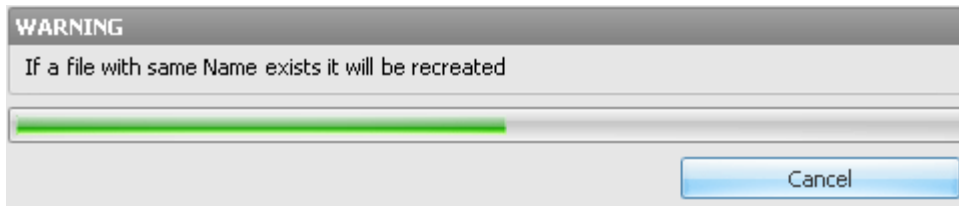

- In More Options you can use either the Identity Field or Primary Key Field as Parameter for Select, Update and Delete Functions
- You can use Static Function for List and Delete Functions
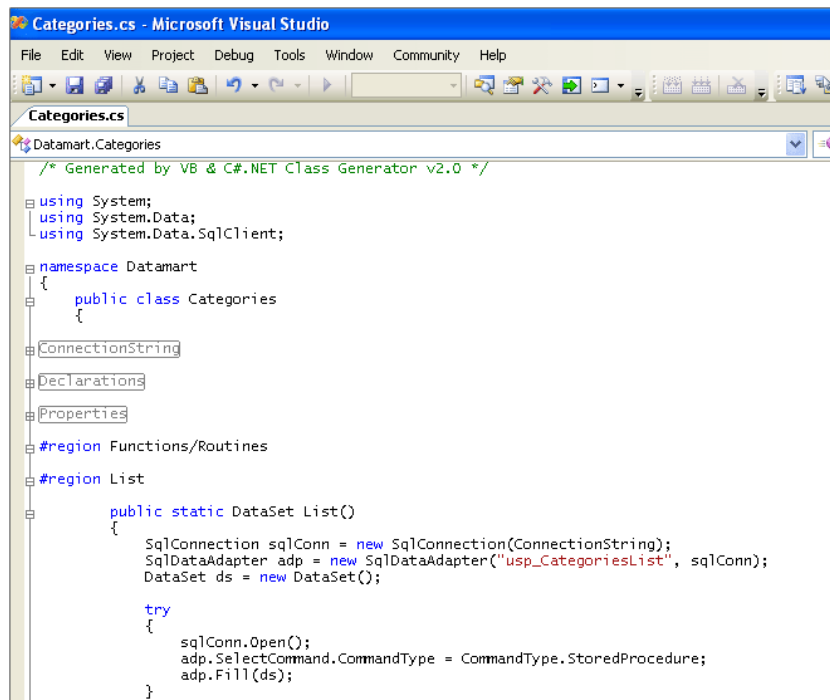- Click on the Save Settings Button to Save the Settings

3.2.3 Cancel Class Files Creation
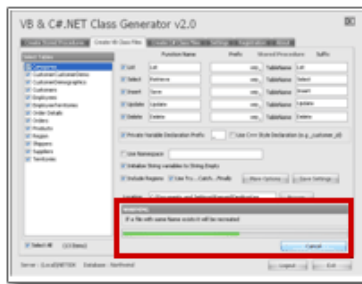
- To Cancel Class Files Creation while creating just click on the Cancel Button.
- This may not have any impact with fewer Tables.

3.2.4 Sample Class File Created by Using C# .NET Class Generator v2.0


```
/* Generated by VB & C#.NET Class Generator v2.0 */

using System;
using System.Data;
using System.Data.SqlClient;

namespace Datamart
{
    public class Categories
    {

ConnectionString

Declarations

Properties

#region Functions/Routines

#region List

        public static DataSet List()
        {
            SqlConnection sqlConn = new SqlConnection(ConnectionString);
            SqlDataAdapter adp = new SqlDataAdapter("usp_CategoriesList", sqlConn);
            DataSet ds = new DataSet();

            try
            {
                sqlConn.Open();
                adp.SelectCommand.CommandType = CommandType.StoredProcedure;
                adp.Fill(ds);
            }
```

3.2.5 Handling Connection Strings

All the Class Files created by the Code Generator will have static Connection String property.

VB.NET
```
Public Shared ConnectionString As String = String.Empty
```

C#
```
public static string ConnectionString = string.Empty;
```

The ConnectionString's must be initialized before invoking any of the methods in that Class File. This can be either at the Startup procedure or even in a Form Load Event. The ideal place for this code would be Startup File for Windows and Application_Start for Web.

E.g.

Windows

```
<STAThread()> _
    Public Sub Main()

        Try

            AppSettings.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString

            Sales.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString

            SystemInfo.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString

            SystemLog.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString
```

Web

```
Sub Application_Start(ByVal sender As Object, ByVal e As EventArgs)

        'Initialize Connection Strings
        Category.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString

        Product.ConnectionString = ConfigurationManager.ConnectionStrings
("ConnectionString").ConnectionString

End Sub
```
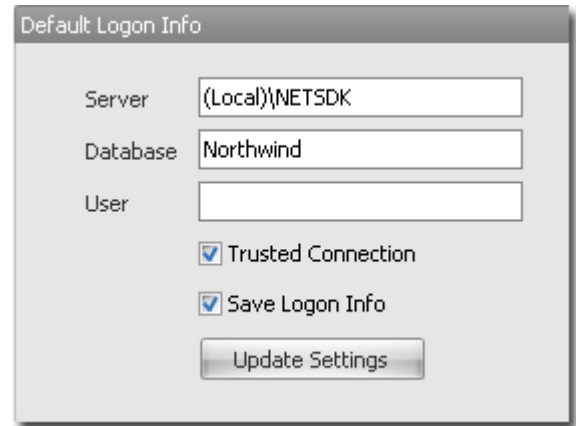
This needs to be done only once thru out the project.

3.3 The Settings Tab

Settings Tab is used to provide necessary Start up Settings to the module when a User runs the program modules.

3.3.1 Default Logon Info

- Enter Server Name
- Enter Database Name
- Enter User Name if it's not associated with a Trusted Connection.
- Click on the Trusted Connection Option if it is used to connect database without User Id and Password
- Save Logon Info Option is used to default the Flag in the Login Window "Save Logon Info ".
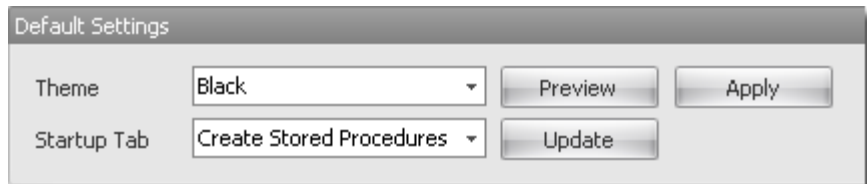- Click on the Update Settings button to save the above Information

3.3.2 Theme

This setting gives you options on the Visual Theme for the entire Application. Available themes by default are: Caramel, Blue and Black.
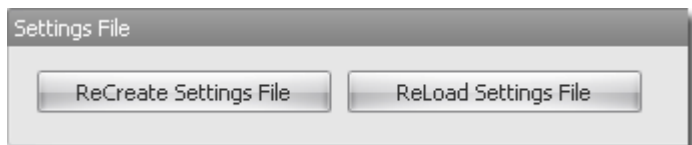
3.3.3 Startup Tab

Using this setting, one can identify the main tab to open the software to user view on initializing it. Options would include the Create Stored Procedures, Create VB Class Files and Create C# Class Files.

3.3.4 Recreate Settings File

This option is used to recreate the Settings using the Default Settings. It will overwrite your own Default Settings.

3.3.5 Reload Settings File

This Option is used to Reload your own Default Settings.

3.4 Registration

The trial version will allow you to run the Application for 15 times. Accumulation takes place whenever a Stored Procedure or VB / C# .NET Class Files are created successfully. Once accumulated you have to buy the Key from Antech Solutions or the Appointed Agents. Please send us the Serial No for us to generate the corresponding License.

Please email info@antech-solutions.com for more information relating to Registration

This is a Registered Version

Serial No   5744c5ae4

Enter Key   [ ]   Register

Note

The Serial No is different for each machine and the License key will be only relevant to this machine and cannot be used in other machines.

For more information email info@antech-solutions.com

3.5 About

For additional information like Contact Email Id; Support Numbers; Websites etc, click on

4 System Requirements

Antech Code Generators is optimized to work on the following Hardware and Software configurations:

Operating Systems:

XP Pro; XP Home; 2000; 2003, Vista*

Support Software:

Oracle; MS Access; SQL

Hardware:

Pentium4 or Equivalent AMD processors

512MB RAM; 1 GB Recommended

10 MB approximately

For 24x7 support online and tele-support on Phone; email the following for further instruction on availing the support services:

5 License and Purchasing Information

The Trial Version is only valid for 15 times for both Class creation and Stored Procedures (includes related products as well). If you intend to use further you have to register it.

The Registration key can be bought using paypal (paypal@antech-solutions.com) which then allows using unlimited number of times. The amount may vary depending on the Product you buy.

Payment Terms:

Currently payments are only accepted through PayPal. Major Credit Cards are accepted.

PayPal Account: paypal@antech-solutions.com

Terms and Conditions:

This software is provided 'as-is', without any express or implied warranty. In no event will the author be held liable for any damages arising from the use of this software.

WARNING:

This tool has the ability to drop and recreate Stored Procedures as well as Files. If using under Production Environment it's advised to Back-up the necessary files before running this tool as this may cause irreversible damage. Please use the tool with caution.

To report bugs or for technical support (for licensed buyers), please email us at

support@antech-solutions.com

For Comments and Feedback, please email us at feedback@antech-solutions.com

Products:

1. Stored Proc Creator v2..0
2. VB.NET Class Generator v2.0
3. C#.NET Class Generator v2.0
4. VB & C#.NET Class Generator v2.0

Website Address:

www..antech-solutions.com

Please email info@antech-solutions.com for any queries related to License and Purchasing In-formation.