

sqlite-netFx35-setup-bundle-x64-2008-1.0.81.0.exe (6.79 MiB)

latter I found that third exe alone will serve my purpose. There is an easy way of integrating with Visual Studio without using any of this exes. I will explain below.

2. How to integrate System.Data.SQLite with your project as a package

- Download the precompiled binary package for your target framework and processor architecture (e.g. 32-bit x86, .NET Framework 2.0).
- Extract the package to a directory named "Externals" inside your project directory.
- Add a reference to the "System.Data.SQLite" assembly from the "Externals" directory.
- If necessary (i.e. you require LINQ support), also add a reference to the "System.Data.SQLite.Linq" assembly from the "Externals" directory.
- Alternatively, when using Visual Studio 2010, you can simply use the NuGet package that corresponds
 to your target processor architecture. Installing the assemblies into the Global Assembly Cache is not
 recommended as it may cause conflicts with other applications installed on the machine.

3. How to open a new connection to SQlite Database.

```
    91. string inputFile = "test.s3db"
    92. string dbConnection = String.Format("Data Source={0}", inputFile)
    93. SQLiteConnection cnn = new SQLiteConnection(dbConnection);
    94. cnn.Open();
```

Note: If database file does not exist then new file will be created with the above command. It is not necessary that there should be db file before opening connecton.

4. How to create a table dynamically using SQLite command

```
// Create the table
  09.
                 SQLiteCommand createCommand = new SQLiteCommand(createLogTableSQL, cnn);
  10.
                 createCommand.ExecuteNonQuery();
  11.
                 createCommand.Dispose();
  12.
                 // Commit the changes into the database
  13.
                 sqlTransaction.Commit();
  14.
             } // end using
5. How to insert a record in to a table
         string sql = "insert into Log (Messa
                                                              This is sample
         SQLiteConnection cnn = new SQLiteCon
  02.
                                                              nection);
  03.
         cnn.Open();
                                               Command(cnn);
         SQLiteCommand mycommand = new SQLite
         mycommand.Comm
  05.
                          dText = sql;
         int rowsUpdated
                                               NonQuery();
                            mycommand. Execute
         cnn.Close();
6. How to check if a table exists or not
                         n<mark>necti</mark>on c<mark>nn = new</mark> SQLiteConne
                                                         ction(dbConnection))
  02.
  93
                            ring sql = string.Format("SELECT COUNT(*) FROM sqli
  94.
                              HERE type /=
                                                                   AND na
  06.
                               = ExecuteSca
                                                (sql);
                                                ations with SQLite
  Create your helper class to manage crud
         using System;
        using System.Collections.Generic;
using System.Data;
         using System.Data.SQLite;
using System.IO;
  06.
         using System.Configuration;
  07.
  08.
  09.
             public class SQLiteDatabase
  10.
                 protected String dbConnection;
  11.
  12.
  13.
                 /// <summary>
  14.
                          Single Param Constructor for specifying the DB file.
  15.
                 /// </summary>
                 /// <param name="inputFile">The File containing the DB</param>
  16.
  17.
                 public SQLiteDatabase(string DBDirectoryInfo, String inputFile)
  18.
  19.
                      string sourceFile = Path.Combine(DBDirectoryInfo, inputFile);
  20.
                     dbConnection = String.Format("Data Source={0}", sourceFile);
  21.
                 }
  22.
  23.
                 /// <summarv>
  24.
                 ///
                          Single Param Constructor for specifying advanced connection options.
  25.
                 /// </summarv>
  26.
                 /// <param name="connectionOpts">A dictionary containing all desired options and their
  27.
                         values</param>
  28.
                 public SQLiteDatabase(Dictionary<String, String> connectionOpts)
  29.
                      String str = "";
  30.
  31.
                      foreach (KeyValuePair<String, String> row in connectionOpts)
  32.
                          str += String.Format("{0}={1}; ", row.Key, row.Value);
  33.
  34.
                      str = str.Trim().Substring(0, str.Length - 1);
  35.
  36.
                     dbConnection = str;
  37.
                 }
  38.
  39.
                 /// <summary>
  40.
                 ///
                          Allows the programmer to run a query against the Database.
  41.
                 /// </summary>
  42.
                 /// <param name="sql">The SQL to run</param>
  43.
                 /// <returns>A DataTable containing the result set.</returns>
  44.
                 public DataTable GetDataTable(string sql)
  45.
  46.
                     DataTable dt = new DataTable();
  47.
                     try
  48.
  49.
                          SQLiteConnection cnn = new SQLiteConnection(dbConnection);
  50.
                          cnn.Open();
  51.
                          SQLiteCommand mycommand = new SQLiteCommand(cnn);
                          mycommand.CommandText = sql;
  53.
                          SQLiteDataReader reader = mycommand.ExecuteReader();
```

121. 122.

123. 124.

125. 126.

127.

128. 129.

130.

131. 132.

133.

134.

135.

136. 137.

138.

139. 140.

141.

142.

143. 144. 145.

```
dt.Load(reader);
 55.
                         reader.Close();
 56.
                         cnn.Close();
 57.
 58
                    catch (Exception ex)
 59.
 60.
 61.
                    return dt;
 62.
 63.
 64.
                /// <summary>
 65
                        Allows the programmer to
                                                              with the database for purpos
                    </summary>
 66.
 67.
                    <param name="sql">The SQL
 68.
                /// <returns>An Integer cont
                                                                  of rows updated.</return
 69.
                public int ExecuteNonQuery(
 70.
 71.
                        iteConnection cnn =
                                                 SQLiteConnection(dbConnect
 72.
73.
                          eCommand mycommand = new SQLiteCo
 74.
75.
76.
                         mmand.CommandText = sql;
rowsUpdated = mycommand.ExecuteNonQue
                        .Close();
 77.
                       turn rowsUpdated;
 78.
 79.
 81.
                                                           ve single items from th
                         Allows the programmer to re
 82.
 83.
                        ram name="sql">The query to run.</param>
 84.
                          rns>A string.<
 85.
                          ring ExecuteScal
                                               string sql)
 86.
 87.
                     SQLiteConnection
                                                            nection(
 88.
                     cnn.Open
 89.
                     mycommand.CommandTe
                     object value = mycommand.ExecuteScalar(
                    cnn.Close();
if (value != null)
                     return "";
 99.
100.
                /// <summarv>
101.
                        Allows the programmer to easily update rows in the DB.
                ///
102.
                /// </summary>
                /// <param name="tableName">The table to update.</param>
103.
104.
                /// <param name="data">A dictionary containing Column names and their new values.
       </param>
105.
                /// <param name="where">The where clause for the update statement.</param>
106.
                /// <returns>A boolean true or false to signify success or failure.</returns>
107.
                public bool Update(String tableName, Dictionary<String, String> data, String where)
108.
                    String vals = "";
109.
                    Boolean returnCode = true;
110.
111.
                    if (data.Count >= 1)
112.
113.
                         foreach (KeyValuePair<String, String> val in data)
114.
115.
                             vals += String.Format(" {0} = '{1}',", val.Key.ToString(), val.Value.ToString()
116.
117.
                         vals = vals.Substring(0, vals.Length - 1);
118.
                    }
119.
                    try
120.
                         this. Execute NonQuery (String. Format ("update \{0\} set \{1\} where \{2\};", table Name,
```

2017-04-27, 4:26 PM 3 of 8

vals, where));

Allows the programmer to easily delete rows from the DB.

/// <returns>A boolean true or false to signify success or failure.</returns>

 $this. \texttt{ExecuteNonQuery}(\texttt{String.Format}(\texttt{"delete from } \{0\} \texttt{ where } \{1\}; \texttt{", tableName, where})$

/// <param name="tableName">The table from which to delete.</param> /// <param name="where">The where clause for the delete.</param>

catch(Exception ex)

return returnCode;

}

111

/// <summary>

/// </summarv>

try

returnCode = false;

Boolean returnCode = true;

catch (Exception ex)

//ServiceLogWriter.LogError(ex);

public bool Delete(String tableName, String where)

```
146.
147.
                          returnCode = false;
148.
149.
                      return returnCode;
150.
151.
152.
                 /// <summary>
153.
                         Allows the programmer to easily insert into the DB
                 /// </summary>
154.
                 /// <param name="tableName">The table into which we insert the data.</param>
/// <param name="data">A dictionary containing the column names and data for the insert.
155.
156.
        </param>
157.
                                                                     ify success or failure.</retur
                 /// <returns>A boolean true or false t
158.
                 public bool Insert(String tab)
                                                                      ry<String, String> data)
159.
                      String columns = "";
String values = "";
160.
161
162.
                        oolean returnCode = t
                                                 tring, String> val in data
163.
                           ach (KeyValuePair<
164.
                          columns += String.Format('
values += String.Format("
165.
166.
167.
                          umns = columns.Substring(0, columns.Length - 1);
ues = values.Substring(0, values.Length - 1);
168.
169.
170.
171.
                                                           Format("insert into {0}({1}) values({2});", tableName,
172.
                          this.ExecuteNonQuery(String
173.
174
                        tch (Exception ex)
175.
176
                                nCode =
177.
178.
                              returnCode
179.
180
                              ows the programmer to easily delete all dat
182
183
                     </summary>
<returns>A boolean true or false to s
                 public bool ClearDB()
                    DataTable tables
                          tables = this.GetDataTable("select NAME from SQLITE_MASTER where type=
  'table' order by NAME;");
190.
191.
192.
                          foreach (DataRow table in tables.Rows)
193.
194.
                               this.ClearTable(table["NAME"].ToString());
195.
196.
                          return true;
197.
198.
                     catch
199.
200.
                          return false;
201.
                     }
202.
                 }
203.
204.
                 /// <summary>
205.
                          Allows the user to easily clear all data from a specific table.
206.
                 /// </summary>
207.
                 /// <param name="table">The name of the table to clear.</param>
208.
                 /// <returns>A boolean true or false to signify success or failure.</returns> \,
209.
                 public bool ClearTable(String table)
210.
211.
212.
213.
                          this.ExecuteNonQuery(String.Format("delete from {0};", table));
214.
215.
                          return true;
216.
217.
                     catch
218.
                     {
219.
                          return false;
220.
221.
                 }
222.
223.
                 /// <summary>
                          Allows the programmer to easily test connect to the DB.
224.
                 /// </summary>
225.
                 /// <returns>A boolean true or false to signify success or failure.</returns>
226.
227.
                 public bool TestConnection()
228.
229.
                      using (SQLiteConnection cnn = new SQLiteConnection(dbConnection))
230.
231.
232.
233.
                               cnn.Open();
234.
                               return true;
235.
236.
                          catch
237.
```

```
return false;
238.
239.
240.
                           finally
241.
                                // Close the database connection
if ((cnn != null) && (cnn.State != ConnectionState.Open))
242.
243.
244.
                                     cnn.Close();
245.
246.
247.
248.
249.
                  /// <summary>
250.
                                                                            table exists in the DB.
                           Allows the programmer to easil
251.
                  /// </summary>
                  /// <returns>A boolean true
253.
                  public bool IsTableExists(St
254.
255.
                            ng count = "0";
256.
257.
                             dbConnection ==
                             eturn false;
258.
259.
                            g (SQLiteConnection cnn = new SQ
260.
261.
262.
                                cnn.Open();
263.
                                if (tableName == null
                                                               cnn.State != ConnectionSt
264.
265.
266.
                                String sql = string.Format("SELECT COUNT(*) FR table' AND name = '{0}'", tableName);
267.
268.
269.
270.
271.
272.
```

Tags: ASP.NET, SQLite

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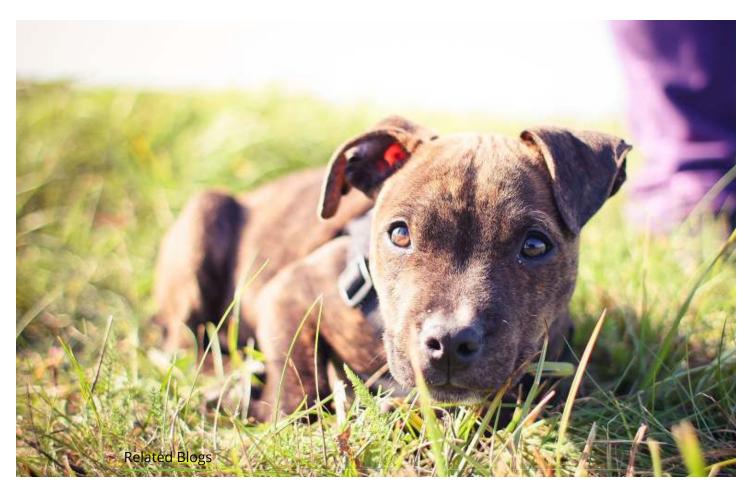
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5 of 8 2017-04-27, 4:26 PM

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Dependency Injection is also known as Inversion of Control (IOC). It is a design pattern that remove tight coupling between



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