1. using System;
2. using System.Collections.Generic;
3. using System.Data.OleDb;
4. using System.Linq;
5. using System.Text;
6. using System.Threading.Tasks;
7. using System.Data; 8

9 namespace Nihulon2.Model.DbAccess 10 {

1. // The class that provides the connection to the DB
2. // end execution of different queries
3. public class DbAccess 14 {
4. #region Constructor + Members
5. protected OleDbConnection \_conn = null; 17

18 public DbAccess(string connectionstring) 19 {

20 \_conn = new OleDbConnection(connectionstring); 21 }

22 #endregion 23

1. #region Protected Methods
2. // Open a connection with the DB
3. protected void Connect()

27 {

28 if(\_conn.State != ConnectionState.Open)

29 {

30 \_conn.Open();

31 }

32 }

1. // Close the connection
2. protected void Disconnect()

35 {

36 \_conn.Close(); 37 }

1. // Execute a query that doesn't returns any result
2. protected void ExecuteSimpleQuery(OleDbCommand command) 40 {
3. lock(\_conn){
4. Connect();
5. command.Connection = \_conn;
6. try

45 {

46 command.ExecuteNonQuery(); 47 }

48 finally

49 {

50 Disconnect();

51 }

52 }

53 }

1. // Execute a query that returns an integer value
2. protected int ExecuteScalarIntquery(OleDbCommand command) 56 {

|  |  |  |  |
| --- | --- | --- | --- |
| 57 |  |  | int ret = -1; |
| 58 |  |  | lock (\_conn) |
| 59 |  |  | { |
| 60 |  |  | Connect(); |
| 61 |  |  | command.Connection = \_conn; |
| 62 |  |  | try |
| 63 |  |  | { |
| 64 |  |  | ret = (int)command.ExecuteScalar(); |
| 65 |  |  | } |
| 66 |  |  | finally |
| 67 |  |  | { |
| 68 |  |  | Disconnect(); |
| 69 |  |  | } |
| 70 |  |  | } |
| 71 |  |  | return ret; |
| 72 |  |  | } |
| 73 |  |  | // Execute a query that returns complex result |
| 74 |  |  | protected DataSet GetMultipleQuery(OleDbCommand command) |
| 75 |  |  | { |
| 76 |  |  | DataSet dataset = new DataSet(); |
| 77 |  |  | lock (\_conn) |
| 78 |  |  | { |
| 79 |  |  | Connect(); |
| 80 |  |  | command.Connection = \_conn; |
| 81 |  |  | try |
| 82 |  |  | { |
| 83 |  |  | OleDbDataAdapter adapter = new OleDbDataAdapter(); |
| 84 |  |  | adapter.SelectCommand = command; |
| 85 |  |  | adapter.Fill(dataset); |
| 86 |  |  | } |
| 87 |  |  | finally |
| 88 |  |  | { |
| 89 |  |  | Disconnect(); |
| 90 |  |  | } |
| 91 |  |  | } |
| 92 |  |  | return dataset; |
| 93 |  |  | } |
| 94 |  |  | #endregion |
| 95 |  | } |  |
| 96 | } |  |  |
| 97 |  |  |  |
| 98 |  |  |  |