DotNET Final Mock Assessment

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Description

Code Editor

Bank Account Management Systems

Scenario

Crown Bank Account Management System maintain the bank account details of the customer . They can store the details of Account Number , Customer Name , Bank Name and Branch Name .

There should be a provision to add bank details of the customer.

Easy retrieval of particular information like branch, customer name.

Functionalities

- 1. Add the account details to the database
- 2. Filter account details based on branch USING LINQ.
- 3. List the account holder name starting with the given letters **USING LINQ.**

Create a class named **BankDetails** with below private attributes

Data Type	Variable Name
int	_acctno
string	_name
string	_bankname
string	_branch

Include appropriate public Properties.



string	Name
string	BankName
string	Branch

Create a class **Program** with the following:

public static SqlConnection Sqlcon { get; set; }

This property is already declared as part of the code snippet. Assign the new database connection to this property and use in the program.

Method Description	
Retrieve all the bank details from the database and returns t METHOD IMPLEMENTATION IS ALREADY GIVEN AS CODE TE	
This method is used to add the bank details to the bank tabl bankdetails object with values is passed as argument to this	
This method should filter the bank details from the 'bankList using GetAllBankDetails method. Filter based on the matchir USING LINQ and assign the result to IEnumerable< Bankl	
This method should list the bank details from the 'bankList' using GetAllBankDetails method ,based on the given letters and assign the result to IEnumerable < BankDetails > Example: Search string: Jo Output: John Johan	

NOTE:



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Create a class named **DBConnection** with the following method.

Method	Description
public SqlConnection GetConnection()	This method is used to connect to SQLSERVER database. Use the conne "SqlCon" in App.config to create a connection.

Refer here for App.config file

- <?xml version="1.0" encoding="utf-8" ?>
- <configuration>
- <startup>
- <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6.1" />
- </startup>
- <connectionStrings>
- <add name="SqlCon"

- </connectionStrings>
- </configuration>

NOTE: You need NOT change this file. Below Table structure is already created for you.

Table Name : bank		
acctno	Int (primary key)	
name	varchar(50)	
bankname	varchar(50)	
branch	varchar(50)	

Sample Data is Already given in the bank table

AcctNo	Name	Bank Name	Branch
1001	Peter	SBI	Mumbai
1002	Johan	HDFC	Chennai



1005

John

HDFC

Mumbai

You can perform the logic based on the given data.

Important Note:

1. "GetMyExpression" and "GetMyExpression1" METHODS ARE FOR TESTING YOUR LINQ QUERY EXPRESSION. So fill your query expression in the space holder provided. ONLY THE QUERY EXPRESSION. Nothing more need to be implemented in this method.

Sample Input/ Output:

Enter the choice:

- 1. Add Bank Details
- 2. Get Bank Name by Branch
- 3. Get Account Holder Name by search letters
- 4. Exit

1

Enter the Bank Details

1006

Ravi

ICICI

Chennai

Details Added successfully

- 1. Add Bank Details
- 2. Get Bank Name by Branch
- 3. Get Account Holder Name by search letters
- 4. Exit

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AcctNo	Name	Bank Name	Branch
1001	Peter	SBI	Mumbai
1005	John	HDFC	Mumbai

- 1. Add Bank Details
- 2. Get Bank Name by Branch
- 3. Get Account Holder Name by search letters
- 4. Exit

Enter the search letters

Jo

Account Holder Name with Given Letters

Johan

John

- 1. Add Bank Details
- 2. Get Bank Name by Branch
- 3. Get Account Holder Name by search letters
- 4. Exit

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Requested files

Program.cs



• • •

```
5 using System.Threading.Tasks;
   6 using System.Data.SqlClient;
   7 using System.Linq.Expressions;
   9 public class Program //DO NOT change the class name
  10 {
  11
          //Use the below declarations
  12
          public static SqlConnection Sqlcon { get; set; }
  13
          public static List<BankDetails> bankList;
  14
  15
          public static void Main(string[] args) //DO NOT change the 'Main' method
signature
  16
  17
                                     //Add logic to display the values from returned list
             GetAllBankDetails();
  18
             //Fill your code here
  19
  20
  21
             //You need not change this method implementation.
  22
             public static List<BankDetails> GetAllBankDetails()
  23
  24
  25
                 List<BankDetails> lstBankDetails = new List<BankDetails>();
  26
                  string queryString = "Select * from bank";
  27
                 DBConnection conobj=new DBConnection();
  28
  29
                 Sqlcon = conobj.GetConnection();
  30
                  Sqlcon.Open();
  31
                  SqlCommand command = new SqlCommand(queryString, Sqlcon);
                  SqlDataReader reader = command.ExecuteReader();
  32
  33
                 while (reader.Read())
  34
                          lstBankDetails.Add(new BankDetails(Convert.ToInt32(reader[0]),
  35
reader[1].ToString(), reader[2].ToString(), reader[3].ToString()));
  36
  37
                     reader.Close();
  38
                 Sqlcon.Close();
  39
                 return lstBankDetails;
  40
  41
  42
  43
               //Implement 'AddBankDetails' method
  44
  45
  46
        public static IEnumerable<BankDetails> GetBankByBranch(string branch)
  47
  48
              Program.bankList=Program.GetAllBankDetails();
                                                                  //This is required to
populate values in 'bankList'
  49
  50
             //Write the LINQ query with 'Program.bankList'
  51
  52
  53
          public static IEnumerable<BankDetails> GetNameBySearch(string letters)
  54
  55
              //Write the LINQ query with 'Program.bankList'
  56
  57
  58
         //THE BELOW METHODS ARE FOR TESTING PURPOSE ONLY. ADD CODE ONLY IN THE COMMENTED
SECTION
         public static ParameterExpression variableExpr =
Expression.Variable(typeof(IEnumerable<BankDetails>), "sampleVar");
  60
         public static Expression GetMyExpression(string branch)
  61
  62
              Program.bankList=Program.GetAllBankDetails();
  63
              Expression assignExpr = Expression.Assign(variableExpr,
```



DBConnection.cs

```
1 using System;
2 using System.Data.SqlClient;
3 using System.Xml;
4 using System.IO;
5 using System.Configuration;
6
7 public class DBConnection //DO NOT change the class name
8 {
9    //Fill Code Here
10    //Implement 'GetConnection' method
11 }
12
```

App.config

BankDetails.cs



```
. ..... .,.........
   5 using System.Threading.Tasks;
   7 public class BankDetails //DO NOT change the class name
   8 {
            //Implement private attribues
   9
            //Implement public properties
  10
  11
             public BankDetails(int _acctno, string _name, string _bankname, string
  12
_branch)
  13
  14
                 this._acctno = _acctno;
  15
                 this._name = _name;
  16
                 this._bankname = _bankname;
                 this._branch = _branch;
  17
  18
  19
  20
             public BankDetails (){}
  21
  22
  23 }
  24
  25
```

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