DAY22 C# FINAL PROJECT BY MANOHAR ANDE 22nd Feb 2022

Final Project on Employee Management with Business Logic Layer and Data Access Layer

```
Data Access Layer(DAL):
using System;
using System.Collections.Generic;
using System.IO;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
namespace DataAccessLayer
  public static class EmployeeDAL
    public static string filepath = "C:\\ManoharFinalProject\\Employee.txt";
    public static bool AddEmployee(int empid, string empname, int empsalary, int empage)
       //write a code to append data
       try
         string textcontent = string.Concat(empid, ",", empname, ",", empsalary, ",", empage, ",");
         File.AppendAllText(filepath, textcontent + Environment.NewLine);
         return true;
       catch(Exception ex)
         return false;
      }
    /// <summary>
    /// This method is used for search ID
    /// </summary>
    /// <param name="id"></param>
    /// <returns></returns>
    public static List<string> GetEmpById(int id)
       var allEmployees = File.ReadAllLines(filepath);
       bool isFound = false;
```

```
List<string> employeesFound = new List<string>();
     foreach(string employees in allEmployees)
       var employeesDetails = employees.Split(',');
       if (Convert.ToInt32(employeesDetails[0])==id)
         isFound = true;
         employeesFound.Add(employees);
         break;
       }
    return employeesFound;
  /// <summary>
  /// This method is used for search by name
  /// </summary>
  /// <param name="name"></param>
  /// <returns></returns>
  public static List<string> GetEmpByName(string name)
    var allEmployees = File.ReadAllLines(filepath);
    bool isFound = false;
    List<string> employeesFound = new List<string>();
    foreach (string employees in allEmployees)
       var employeesDetails = employees.Split(',');
       if ((employeesDetails[1]).Contains(name))
         employeesFound.Add(employees);
         break;
    return employeesFound;
  /// <summary>
  /// This method is used to DisplayAllEmployees
  /// </summary>
  /// <returns></returns>
  public static string[] DisplayAllEmployees()
    var allEmployees = File.ReadAllLines(filepath);
    return allEmployees;
}
```

Business Logic Layer:

using System;

```
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using DataAccessLayer;
namespace BussinessLogicLibrary
  public static class EmployeesBLL
    public static bool AddEmployee(int empld, string empname, int empsalary, int empage)
       //To do
       var result = EmployeeDAL.AddEmployee(empld, empname, empsalary, empage);
       return result;
    }
    public static List<string> GetEmpById(int empId)
       var result = EmployeeDAL.GetEmpById(empId);
       return result;
    public static List<string> GetEmpByName(string empname)
       var result = EmployeeDAL.GetEmpByName(empname);
       return result;
    public static string [] DisplayAllEmployees()
       var result = EmployeeDAL.DisplayAllEmployees();
       return result;
}
MyClientApp(Console Application):
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System.Threading.Tasks;
using BussinessLogicLibrary;
namespace MyClientApp
  public static class Program
```

public static void AddEmployee()

```
//user input
  int empld, empsalary, empage;
  string empname;
  Console.WriteLine("Enter empld:");
  empId = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Enter Employee Name:");
  empname = Console.ReadLine();
  Console.WriteLine("Enter Employee salary:");
  empsalary = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Enter Employee age:");
  empage = Convert.ToInt32(Console.ReadLine());
  //call BLL
  var result = EmployeesBLL.AddEmployee(empld, empname, empsalary, empage);
     Console.WriteLine("Employee Details saved");
  else
    Console.WriteLine("Error occured");
public static void GetEmpById()
  //user input
  int empld;
  Console.WriteLine("Enter emp Id:");
  empId = Convert.ToInt32(Console.ReadLine());
  //call BLL
  var result = EmployeesBLL.GetEmpByld(empld);
  if (result.Count == 0)
    Console.WriteLine("No data found");
  else
    result.ForEach(d => Console.WriteLine(d));
public static void GetEmpyName()
  //user input
  string empname;
  Console.WriteLine("Enter name");
  empname = Console.ReadLine();
  //call BLL
  var result = EmployeesBLL.GetEmpByName(empname);
  if (result!= null)
     result.ForEach(d => Console.WriteLine(d));
  else
     Console.WriteLine("No data Found");
public static void DisplayAllEmployee()
  var result = EmployeesBLL.DisplayAllEmployees();
  result.ToList().ForEach(d => Console.WriteLine(d));
```

```
static void Main(string[] args)
  int ch;
  string choice;
  do
    Console.WriteLine("Employees Management");
    Console.WriteLine("1.Add Employee");
    Console.WriteLine("2.Search Employee By Id");
    Console.WriteLine("3. search Employee By name");
    Console.WriteLine("4.Display All Employees");
    Console.WriteLine("Enter your choice");
    ch = Convert.ToInt32(Console.ReadLine());
    switch (ch)
       case 1:
         AddEmployee();
         break;
       case 2:
          GetEmpById();
         break;
       case 3:
         GetEmpyName();
         break;
       case 4:
          DisplayAllEmployee();
          break;
    Console.WriteLine("Do you want to continue(y/n)");
    choice = Console.ReadLine();
  while (choice.Equals("y"));
```

OUTPUT:

```
D:\NBTRAININGS\DAY22 ASSIGNMENT\ManoharFinalProject\MyClientApp\bin\Debug\MyClientA...
Employees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
Enter empld:
100
Enter Employee Name:
Manohar
Enter Employee salary:
25000
Enter Employee age:
24
Employee Details saved
Do you want to continue(y/n)
Émployees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
Enter empId:
102
Enter Employee Name:
Ashrith
Enter Employee salary:
23000
Enter Employee age:
Employee Details saved
Do you want to continue(y/n)
Émployees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
Enter empld:
103
Enter Employee Name:
Sandeep
Enter Employee salary:
24000
Enter Employee age:
Employee Details saved
Do you want to continue(y/n)
Émployees Management
```

```
D:\NBTRAININGS\DAY22 ASSIGNMENT\ManoharFinalProject\MyClientApp\bin\Debug\MyClien
Enter empId:
104
Enter Employee Name:
Jaswanth
Enter Employee salary:
20000
Enter Employee age:
Employee Details saved
Do you want to continue(y/n)
y
Employees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
Enter emp Id:
102,Ashrith,23000,22,
Do you want to continue(y/n)
Émployees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
Enter name
Manohar
100,Manohar,25000,24,
Do you want to continue(y/n)
Émployees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
100, Manohar, 25000, 24,
102, Ashrith, 23000, 22,
103, Sandeep, 24000, 27,
104, Jaswanth, 20000, 29,
Do you want to continue(y/n)
y
Employees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
```



