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Q) Project for Employee Management App

Code:

Data Access Layer:

```
using System;
using System.Collections.Generic;
using System.IO;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
namespace DataAccessLibrary
  //Author:Vinay kumar kudali
  //Purpose:To develop an app for employee managament.
  public static class EmployeeDAL
    public static string filePath = "C:\\Users\\91832\\Desktop\\Vinay Final Project\\Emp.txt.txt";
    public static bool AddEmployee(int empld, string empName, int empSalary, int empAge)
       //Code to Append Data
       try
         string textContent = String.Concat(empld, ",", empName, ",", empSalary, ",", empAge);
         File.AppendAllText(filePath, textContent+Environment.NewLine);
         return true;
       catch (Exception ex)
         return false;
    /// <summary>
    /// This method is used to search by 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> employeeFound = new List<string>();
  foreach (string employee in allEmployees)
    var employeeDetails = employee.Split(',');
    if (Convert.ToInt32(employeeDetails[0]) == id)
       isFound = true;
       employeeFound.Add(employee);
       break;
  }
  return employeeFound;
/// <summary>
/// This method is used to search by name
/// </summary>
/// <param name="name"> </param>
/// <returns></returns>
public static List<string> GetEmpByName(string name)
  var allEmployees = File.ReadAllLines(filePath);
  List<string> employeeFound = new List<string>();
  foreach (string employee in allEmployees)
  {
    var employeeDetails = employee.Split(',');
    if ((employeeDetails[1]).Contains(name))
       employeeFound.Add(employee);
  }
  return employeeFound;
/// <summary>
/// This method is used to Display All Employees
/// </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.Ling;
using System.Text;
using System.Threading.Tasks;
using DataAccessLibrary;
namespace BusinessLogicLibrary
  public static class EmployeeBll
    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.GetEmpByld(empld);
       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;
  }
```

Client App:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using BusinessLogicLibrary;

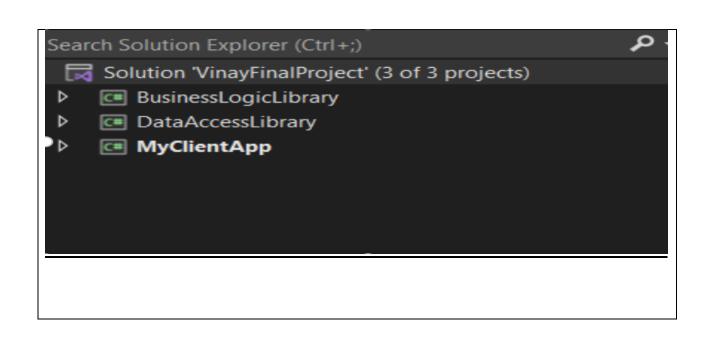
namespace MyClientApp
{
```

```
public 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 BLI
    var result = EmployeeBll.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 = EmployeeBll.GetEmpByld(empld);
    if(result.Count==0)
    Console.WriteLine( "No data Found");
       result.ForEach(f => Console.WriteLine(f));
  public static void GetEmpByName()
    string empName;
    Console.WriteLine("enter name");
    empName = Console.ReadLine();
    var result = EmployeeBII.GetEmpByName(empName);
    if (result.Count==0)
       Console.WriteLine("NO Data Found");
    else
       result.ForEach(n => Console.WriteLine(n));
  public static void DisplayAllEmployees()
    var result = EmployeeBll.DisplayAllEmployees();
```

```
result.ToList().ForEach(y => Console.WriteLine(y));
}
static void Main(string[] args)
  int ch;
  string choice;
  do
    Console.WriteLine(".....");
    Console.WriteLine("\nEmployee Management\n");
    Console.WriteLine(".....");
    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("....");
    Console.WriteLine("\nEnter Choice:");
    ch= Convert.ToInt32(Console.ReadLine());
    switch (ch)
    {
       case 1: AddEmployee(); break;
       case 2: GetEmpById(); break;
       case 3: GetEmpByName(); break;
       case 4: DisplayAllEmployees(); break;
       default: Console.WriteLine("Invalid Input"); break;
    Console.WriteLine(".....");
    Console.WriteLine("Do you want to continue (y/n)");
    choice = Console.ReadLine();
  }while (choice.Equals("y"));
  }
```

Output:

Solution Explorer:



```
Employee Management

    Add Employee

Search Employee By Id
3.Search Employee By name
4.Display All Employees
Enter Choice:
Enter empId:
1166
Enter employee Name:
sanni
Enter Employee Salary:
222222
Enter Employee age:
33
Employee Details Saved
Do you want to continue (y/n)
```

```
Employee Management
1.Add Employee
2. Search Employee By Id
3.Search Employee By name
4.Display All Employees
Enter Choice:
Enter emp id:
112
112,vinaykumar,21000,21
Do you want to continue (y/n)
```

```
Employee Management

    Add Employee

Search Employee By Id
Search Employee By name
4.Display All Employees
Enter Choice:
enter name
vi
111,vinay,20000,20
112,vinaykumar,21000,21
113,vinaykumarkudali,23000,23
114,vinaybabu,24000,24
Do you want to continue (y/n)
```

```
Employee Management

    Add Employee

Search Employee By Id
3.Search Employee By name
4.Display All Employees
Enter Choice:
111,vinay,20000,20
112,vinaykumar,21000,21
113,vinaykumarkudali,23000,23
114,vinaybabu,24000,24
115,maheshbabu,25000,25
1166,sanni,222222,33
Do you want to continue (y/n)
```

```
Emp.txt - Notepad

File Edit View

111,vinay,20000,20
112,vinaykumar,21000,21
113,vinaykumarkudali,23000,23
114,vinaybabu,24000,24
115,maheshbabu,25000,25
1166,sanni,222222,33
```