Final Project By M Mary Margarette

Employee Management Application

METHODS TO BE USED:

- → Add Employee
- → Search Employee
- → Display All Employees

VARIABLES TO BE USED:

- > Employee Name (Should more than 4 char).
- > Employee ID (Shouldn't be negative).
- > Employee Salary (Min = 10,0000).
- > Employee Age (age>=18, age <=58).

Data Access Layer

```
catch (Exception ex)
    return false;
}
public static List<String> GetEmployeeById(int empid)
  var allEmployees = File.ReadAllLines(filepath);
  bool isFound = false;
  List<String> EmployeeFound = new List<String>();
  foreach (string employee in allEmployees)
    var empDetails = employee.Split(',');
    if(Convert.ToInt32(empDetails[0]) == empid)
      isFound = true;
      EmployeeFound.Add(employee);
      break;
    }
  return EmployeeFound;
}
public static List<String> GetEmployeeByName(string empname)
  var allEmployees = File.ReadAllLines(filepath);
  List<String> EmployeeFound = new List<String>();
  foreach (string employee in allEmployees)
    var empDetails = employee.Split(',');
    if (empDetails[1] .Contains(empname))
      EmployeeFound.Add(employee);
    }
  return EmployeeFound;
}
public static string[] GetAllEmployee()
```

```
{
    var result = File.ReadAllLines(filepath);
    return result;
}
}
```

Business Logic Layer

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.IO;
using DataAccessLibrary;
namespace BusinessLogicLibrary
  public static class EmpBLL
    private static string filepath;
    public static bool AddEmployee(int empid, string empname, int empsalary, int empage)
      var result = EmpDAL.AddEmployee(empid, empname, empsalary, empage);
        return result;
    }
    public static List<String> GetEmployeeById(int empid)
      var result = EmpDAL.GetEmployeeById(empid);
      return result;
    public static List<String> GetEmployeeByName(string empname)
      var result = EmpDAL.GetEmployeeByName(empname);
      return result;
```

```
public static string[] GetAllEmployee()
{
   var result = EmpDAL.GetAllEmployee();
   return result;
  }
}
```

UI / Presentation Layer

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using BusinessLogicLibrary;
using System.IO;
namespace ClientApp
  internal class Program
    static void Main(string[] args)
     int ch;
     string choice;
      do
        Console.WriteLine("-----");
        Console.WriteLine("Employee Managment Application");
        Console.WriteLine("-----");
        Console.WriteLine("1.Add Employee");
        Console.WriteLine("2.Get Employee By ID");
        Console.WriteLine("3.Get Employee By Name");
        Console.WriteLine("4.Get All Employess");
        Console.WriteLine("Enter Choice:");
        ch = Convert.ToInt32(Console.ReadLine());
        switch (ch)
```

```
case 1:
        AddEmployee();
        break;
      case 2:
        GetEmployeeById();
        break;
      case 3:
        GetEmployeeByName();
        break;
      case 4:
        GetAllEmployees();
        break:
      default:
        Console.WriteLine("Invalid Option");
        break;
    }
    Console.WriteLine("Do You want to continue Y/N:");
    choice = Console.ReadLine();
  }while (choice.Equals("Y"));
}
public static void AddEmployee()
  int empid, empage, empsalary;
  string empname;
  Console.WriteLine("Enter ID:");
  empid = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Enter salary:");
  empsalary = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Enter age:");
  empage = Convert.ToInt32(Console.ReadLine());
  Console.WriteLine("Enter Name:");
  empname =Console.ReadLine();
  var result = EmpBLL.AddEmployee(empid, empname, empsalary,empage);
  if(result)
    Console.WriteLine("Employee Details Saved Successfully");
  else
    Console.WriteLine("Some Error Occured");
public static void GetEmployeeById()
  int empid;
  Console.WriteLine("Enter ID:");
  empid = Convert.ToInt32(Console.ReadLine());
```

```
var result = EmpBLL.GetEmployeeById(empid);
      if (result.Count == 0)
        Console.WriteLine("No Data");
      else
        result.ForEach(d => Console.WriteLine(d));
    public static void GetEmployeeByName()
      string empname;
      Console.WriteLine("Enter Name :");
      empname = Console.ReadLine();
      var result = EmpBLL.GetEmployeeByName(empname);
      if (result.Count == 0)
        Console.WriteLine("No Data");
      else
        result.ForEach(d => Console.WriteLine(d));
    }
    public static void GetAllEmployees()
      var result = EmpBLL.GetAllEmployee();
      result.ToList().ForEach(d=> Console.WriteLine(d));
  }
}
```

```
E:\NH Assignments\Final Project\FinalProject\ClientApp\bin\Debug\ClientApp.exe
Employee Managment Application
1.Add Employee
2.Get Employee By ID
3.Get Employee By Name
4.Get All Employess
Enter Choice :
Enter ID :
Enter salary :
15000
Enter age :
23
Enter Name :
Mercy
Employee Details Saved Successfully
Do You want to continue Y/N :
```

```
E:\NH Assignments\Final Project\FinalProject\ClientApp\bin\Debug\ClientApp.exe

Employee Managment Application

1.Add Employee
2.Get Employee By ID
3.Get Employee By Name
4.Get All Employess
Enter Choice:
4
26,Margaret,15000,25
27,Rajendra,12000,28
28,Mary,19000,23
29,Teja,17000,29
30,Rakesh,15000,55
31,Charan,19000,47
35,Prakash,16000,45
34,Mercy,15000,23
```

Do You want to continue Y/N :