

Day 22 Assignment

EMPLOYEE MANAGEMENT APPLICATION

By

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NB Healthcare and Technology

Date: 22 Feb 2022

# Topics

## Project: Employee Management Application.

### Project Employee Management Application

#### Code :

#### Data Access Layer:

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

namespace DataAccessLayer
{
    public static class EmpDAL
    {
        public static string FilePath =
"D:\\NB_Training\\Training_Assignments\\DotNET_Assignments\\Day22(22
Feb)\\Employees.txt";
        public static bool AddEmployee(int empId, string empName, int empSalary, int
empAge)
        {
            try
            {
                String textContent = String.Concat(empId, ",", empName, ",",
empSalary, ",", empAge);
                File.AppendAllText(FilePath, textContent + Environment.NewLine);
                return true;
            }
            catch (Exception ex)
            {
                return false;
            }
        }
        public static List<String> GetEmployeeById(int id)
        {
            var allEmployees = File.ReadAllLines(FilePath);
            bool isFound = false;
            List<String> empFound = new List<string>();

            foreach (String employee in allEmployees)
            {
                var empDetails = employee.Split(',');
                if (Convert.ToInt32(empDetails[0]) == id)
                {
                    isFound = true;
                    empFound.Add(employee);
                    break;
                }
            }
            return empFound;
        }
        public static List<String> GetEmployeeByName(string name)
        {
            var allEmployees = File.ReadAllLines(FilePath);
            bool isFound = false;
            List<String> empFound = new List<string>();

            foreach (String employee in allEmployees)
```

```

        {
            var empDetails = employee.Split(',');
            if (empDetails[1].Contains(name))
            {
                empFound.Add(employee);
            }
        }
        return empFound;
    }
    public static string[] GetAllEmployee()
    {
        var allEmployees = File.ReadAllLines(FilePath);
        return allEmployees;
    }
}
}

```

#### Business Layer Library:

```

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

using DataAccessLayer;

namespace BusinessLogicLibrary
{
    public class EmployeeBLL
    {
        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 id)
        {
            var result = EmpDAL.GetEmployeeById(id);
            return result;
        }
        public static List<String> GetEmployeeByName(string name)
        {
            var result = EmpDAL.GetEmployeeByName(name);
            return result;
        }
        public static string[] GetAllEmployee()
        {
            var result = EmpDAL.GetAllEmployee();
            return result;
        }
    }
}

```

#### Empolyee Client Application:

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

using BusinessLogicLibrary;

namespace EmpClientApp
{
    /*****
     * Author : Varun Sai Kumar Chegoni.
     * Purpose : simple division program and handle three exceptions discussed in
     the class., also add super exception at the last.
     *****/

    internal class Program
    {
        static void Main(string[] args)
        {
            int choice1;
            string choice2;
            do
            {
                Console.WriteLine("*****
                *****");
                Console.WriteLine("Employee Management Application By Varun");
                Console.WriteLine("=====");

                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 Employee: ");
                Console.WriteLine("Enter your Choice: ");
                choice1 = Convert.ToInt32(Console.ReadLine());
                switch (choice1)
                {
                    case 1:
                        AddEmployee();
                        break;
                    case 2:
                        SearchEmployeeById();
                        break;
                    case 3:
                        SearchEmployeeByName();
                        break;
                    case 4:
                        DisplayAllEmployees();
                        break;
                    default:
                        Console.WriteLine("Invalid Option");
                        break;
                }
                Console.WriteLine("Do you Wish to Continue (y/n): ");
                choice2 = Console.ReadLine();
            }
            while (choice2.Equals("y"));
        }
        public static void AddEmployee()
```

```

{
    int id, salary, age;
    string name;
    Console.WriteLine("Enter Employee ID: ");
    id = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter Employee Name: ");
    name = Console.ReadLine();
    Console.WriteLine("Enter Employee Salary: ");
    salary = Convert.ToInt32(Console.ReadLine());
    Console.WriteLine("Enter Employee Age: ");
    age = Convert.ToInt32(Console.ReadLine());

    // Calling BLL Method
    var result = EmployeeBLL.AddEmployee(id, name, salary, age);
    if(result)
        Console.WriteLine("Employee Details has been Saved Successfully");
    else
        Console.WriteLine("Some Error Occured");
}
public static void SearchEmployeeById()
{
    int id;
    Console.WriteLine("Enter Employee ID: ");
    id = Convert.ToInt32(Console.ReadLine());
    var result = EmployeeBLL.GetEmployeeById(id);
    if(result.Count == 0)
        Console.WriteLine("No Records Found");
    else
    {
        result.ForEach(x => Console.WriteLine(x));
    }
}
public static void SearchEmployeeByName()
{
    string name;
    Console.WriteLine("Enter Employee Name: ");
    name = Console.ReadLine();
    var result = EmployeeBLL.GetEmployeeByName(name);
    if (result.Count == 0)
        Console.WriteLine("No Records Found");
    else
    {
        result.ForEach(x => Console.WriteLine(x));
    }
}
public static void DisplayAllEmployees()
{
    var result = EmployeeBLL.GetAllEmployee();
    result.ToList().ForEach(x => Console.WriteLine(x));
}
}
}

```

## Output :

D:\NB\_Training\Training\_Assignments\DotNET\_Assignments\Day22(22 Feb)\EmpManagementApp\EmpClientApp\bin\Debug\EmpClientApp.exe

\*\*\*\*\*

Employee Management Application By Varun

=====

\*\*\*\*\*

1. Add Employee:
2. Search Employee by ID:
3. Search Employee by Name:
4. Display All Employee:

Enter your Choice:

1

Enter Employee ID:

120

Enter Employee Name:

Ram

Enter Employee Salary:

40000

Enter Employee Age:

32

Employee Details has been Saved Successfully

Do you Wish to Continue (y/n):

y

\*\*\*\*\*

Employee Management Application By Varun

=====

\*\*\*\*\*

1. Add Employee:
2. Search Employee by ID:
3. Search Employee by Name:
4. Display All Employee:

Enter your Choice:

2

Enter Employee ID:

124

124,Varun,35000,22

Do you Wish to Continue (y/n):

y

\*\*\*\*\*

Employee Management Application By Varun

=====

\*\*\*\*\*

1. Add Employee:
2. Search Employee by ID:
3. Search Employee by Name:
4. Display All Employee:

Enter your Choice:

3

Enter Employee Name:

Vikas

125,Vikas,33000,26

Do you Wish to Continue (y/n):

```

Do you Wish to Continue (y/n):
y
*****
Employee Management Application By Varun
=====
*****
1. Add Employee:
2. Search Employee by ID:
3. Search Employee by Name:
4. Display All Employee:
Enter your Choice:
4
124,Varun,35000,22
125,Vikas,33000,26
130,Tharun,30000,23
128,Kiran,25000,25
120,Ram,40000,32
Do you Wish to Continue (y/n):
-

```

```

Do you Wish to Continue (y/n):
y
*****
Employee Management Application By Varun
=====
*****
1. Add Employee:
2. Search Employee by ID:
3. Search Employee by Name:
4. Display All Employee:
Enter your Choice:
3
Enter Employee Name:
V
124,Varun,35000,22
125,Vikas,33000,26
Do you Wish to Continue (y/n):

```