



## DAY 22 ASSIGNMENTS

DATE:22/02/2022

DAY :TUESDAY

BY

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### 1. PROJECT :

#### DATA ACCESS LAYER

CODE :

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

namespace DataAccessLibrary
{
    public static class EmployeesDAL
    {
        public static string filepath = "D:\\chandanaproject\\Employee.txt";
        public static bool AddEmployees(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)
            {
                return false;
            }
        }

        public static List<string> GetEmpbyID(int id)
        {
            var allEmployees=File.ReadAllLines(filepath);
            bool isFound=false;
            List<string>EmployeesFound=new List<string>();
            foreach (string employee in allEmployees)
            {
                var employeeDetails=employee.Split(',');
                if (Convert.ToInt32(employeeDetails[0]) == id)
                {
                    isFound = true;
                    EmployeesFound.Add(employee);
                }
            }
        }
    }
}
```

```

        break;
    }
    return EmployeesFound;
}

public static List<string>GetEmpbyname(string name)
{
    var allEmployees = File.ReadAllLines(filepath);
    List<string> EmployeesFound = new List<string>();
    foreach (string employee in allEmployees)
    {
        var employeeDetails = employee.Split(',');
        if ((employeeDetails[1]).Contains(name));
        {
            EmployeesFound.Add(employee);
        }
    }
    if (EmployeesFound.Count > 0)
    {
        foreach (string employee in EmployeesFound)
        {
            Console.WriteLine(employee);
        }
    }
    return EmployeesFound;
}
/// <summary>
///
/// </summary>
/// <returns> </returns>
public static string[] DispalyAllEmployees()
{
    var allEmployees = File.ReadAllLines(filepath);
    return allEmployees;
}
}
}

```

## 2.BUSSINESS LOGIC LAYER:

CODE :

```

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

namespace BussinessLogicLibrary
{
    public static class EmployeeBLL
    {
        public static bool AddEmployee(int empid, string empname, int salary, int empage)
    }
}

```

```

    {
        //To do
        var result = EmployeesDAL.AddEmployees(empId, empName, salary, empAge);
        return result;
    }

    public static List<string> GetEmpById(int empId)
    {
        var result = EmployeesDAL.GetEmpById(empId);
        return result;
    }

    public static List<string> GetEmpByName(string empName)
    {
        var result = EmployeesDAL.GetEmpByName(empName);
        return result;
    }

    public static string []DisplayAllEmployees()
    {
        var result = EmployeesDAL.DisplayAllEmployees();
        return result;
    }
}

```

### 3.MYCLIENTAPP:

CODE :

```

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

namespace MyClientApp
{
    public static class Program
    {
        public static void AddEmployee()
        {
            //user input
            int empId, empSalary, empAge;
            string empName;
            Console.WriteLine("Enter empId:");
            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 = EmployeeBLL.AddEmployee(empId, empname, empsalary, empage);
if (result)
    Console.WriteLine("Employee Details saved");
else
    Console.WriteLine("Error occured");
}
public static void GetEmpById()
{
    //user input
    int empId;
    Console.WriteLine("Enter emp Id:");
    empId = Convert.ToInt32(Console.ReadLine());
    //call BLL
    var result = EmployeeBLL.GetEmpById(empId);
    if (result.Count == 0)
        Console.WriteLine("No data found");
    else
        result.ForEach(d => Console.WriteLine(d));
}
public static void GetEmpByName()
{
    //user input
    string empname;
    Console.WriteLine("Enter name");
    empname = Console.ReadLine();

    //call BLL
    var result = EmployeeBLL.GetEmpByName(empname);
    if (result != null)
        result.ForEach(d => Console.WriteLine(d));
    else
        Console.WriteLine("No data Found");
}
public static void DisplayAllEmployee()
{
    var result = EmployeeBLL.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 :

```

Employees Management
1.Add Employee
2.Search Employee By Id
3. search Employee By name
4.Display All Employees
Enter your choice
1
Enter empId:
152
Enter Employee Name:
hari
Enter Employee salary:
16000
Enter Employee age:
20
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

```

Name	Date modified	Type	Size
 Employee.txt	22-02-2022 18:57	Text Document	183 bytes
Type: Text Document Size: 183 bytes			

```
152 ,hari ,16000 ,20
```