

DAY22 ASSIGNMENT
BY
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PROJECT: 1

CREATE EMPLOYEE MANAGEMENT APPLICATION

CODE:

DAL CODE:

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

namespace DataAccessLayer
{
    public class EmpDAL
    {
        public static string filePath = "C:\\C#\\Project\\My Project1\\EmployeeData.txt";
        /// <summary>
        /// Add Employee Details
        /// </summary>
        /// <param name="empId"></param>
        /// <param name="empName"></param>
        /// <param name="empSalary"></param>
        /// <param name="empAge"></param>
        /// <returns></returns>
        public static bool AddEmployeeDetails(int empId, string empName, int empSalary, int empAge)
        {
            try
            {
                string empDetails = string.Concat(empId, ",", empName, ",", empSalary, ",", empAge);
                File.AppendAllText(filePath, empDetails + Environment.NewLine);
                return true;
            }
            catch (Exception ex)
            {
                return false;
            }
        }
        /// <summary>
        /// Search Employee Details By Id
        /// </summary>
        /// <param name="empId"></param>
```

```

/// <returns></returns>
public static List<string> SearchEmployeeDetailsById(int empId)
{
    var empData = File.ReadAllLines(filePath);
    List<string> found = new List<string>();
    foreach (string emp in empData)
    {
        var empDetails = emp.Split(',');
        if (Convert.ToInt32(empDetails[0]) == empId)
        {
            found.Add(emp);
            break;
        }
    }
    return found;
}
/// <summary>
/// Search Employee Details By Name
/// </summary>
/// <param name="name"></param>
/// <returns></returns>
public static List<string> SearchEmployeeDetailsByName(string empName)
{
    var empData = File.ReadAllLines(filePath);
    List<string> found = new List<string>();
    foreach (string emp in empData)
    {
        var empDetails = emp.Split(',');
        if ((empDetails[1].Contains(empName)))
        {
            found.Add(emp);
        }
    }
    return found;
}
public static string[] DisplayEmployeeDetails()
{
    var empData = File.ReadAllLines(filePath);
    return empData;
}
}

```

BLL CODE:

```

using System;
using System.Collections.Generic;

```

```

using System.Linq;
using System.Text;
using System.Threading.Tasks;
using DataAccessLayer;

namespace BusinessLogicLayer
{
    /// <summary>
    /// Done By; Pavan
    /// </summary>
    public class EmpBLL
    {
        /// <summary>
        /// Add Employee Details
        /// </summary>
        /// <param name="empId"></param>
        /// <param name="empName"></param>
        /// <param name="empSalary"></param>
        /// <param name="empAge"></param>
        /// <returns></returns>

        public static bool AddEmployeeDetails(int empId, string empName, int empSalary, int empAge)
        {
            var empDetailsAdd = EmpDAL.AddEmployeeDetails(empId, empName, empSalary, empAge);
            return empDetailsAdd;
        }

        public static List<string> SearchEmployeeDetailsById(int empId)
        {
            var empDetailsId = EmpDAL.SearchEmployeeDetailsById(empId);
            return empDetailsId;
        }

        public static List<string> SearchEmployeeDetailsByName(string empName)
        {
            var empDetailsName = EmpDAL.SearchEmployeeDetailsByName(empName);
            return empDetailsName;
        }

        public static string[] DisplayEmployeeDetails()
        {
            var empDetails = EmpDAL.DisplayEmployeeDetails();
            return empDetails;
        }
    }
}

```

CLIENT APP:

```

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

namespace PavanClientApp
{
    internal class Program
    {
        static void Main(string[] args)
        {
            int c;
            string d;
            do
            {
                Console.WriteLine("\n*****8");
                Console.WriteLine("Employee Management Application");
                Console.WriteLine("*****");
                Console.WriteLine("1. Add Employee Details");
                Console.WriteLine("2. Search Employee Details By Id");
                Console.WriteLine("3. Search Employee Details By Name");
                Console.WriteLine("4. Display All Employee Details");
                Console.Write("\nEnter your Choice: ");
                c = Convert.ToInt32(Console.ReadLine());
                switch (c)
                {
                    case 1:
                        AddEmployee();
                        break;
                    case 2:
                        SearchEmployeeById();
                        break;
                    case 3:
                        SearchEmployeeByName();
                        break;
                    case 4:
                        DisplayEmployee();
                        break;
                    default:
                        Console.WriteLine("Enter valid option");
                        break;
                }
                Console.Write("\nDo you want to continue(y/n): \n");
                d = Console.ReadLine();
            }
            while (d.Equals("y"));
        }
    }
}

```

```

}
public static void AddEmployee()
{
    int id, salary, age;
    string name;

    Console.WriteLine("\nEnter 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());

    var empDetails = EmpBLL.AddEmployeeDetails(id, name, salary, age);

    if (empDetails)
        Console.WriteLine("Employee Details Added Successfully");
    else
        Console.WriteLine("Error Occured");
}
/// <summary>
/// Search employee By Id
/// </summary>
public static void SearchEmployeeById()
{
    int id;

    Console.WriteLine("Enter employee ID: ");
    id = Convert.ToInt32(Console.ReadLine());

    var empDetails = EmpBLL.SearchEmployeeDetailsById( id);

    if (empDetails.Count == 0)
        Console.WriteLine($"No Employee exists on this {id}");
    else
    {
        empDetails.ForEach(e => Console.WriteLine(e));
    }
}
/// <summary>
/// Search employee By Name
/// </summary>
public static void SearchEmployeeByName()
{
    string name;

```

```

Console.Write("Enter employee Name: ");
name = Console.ReadLine();

var empDetails = EmpBLL.SearchEmployeeDetailsByName(name);

if (empDetails.Count == 0)

    Console.WriteLine($"No Employee exists on this {name}");
else
{
    empDetails.ForEach(e => Console.WriteLine(e));
}
}
/// <summary>
/// Diaplay Employee
/// </summary>
public static void DisplayEmployee()
{
    var empDetails = EmpBLL.DisplayEmployeeDetails();

    foreach (var emp in empDetails)
    {
        Console.WriteLine(emp);
    }
}
}
}

```

OUTPUT:

C:\C#\Project\My Project1\EmployeeManagementApplication

*****8

Employee Management Application

1. Add Employee Details
2. Search Employee Details By Id
3. Search Employee Details By Name
4. Display All Employee Details

Enter your Choice: 1

Enter employee ID: 1

Enter employee Name: Pavan

Enter employee Salary: 30000

Enter employee Age: 22

Employee Details Added Successfully

Do you want to continue(y/n):

y

*****8

Employee Management Application

1. Add Employee Details
2. Search Employee Details By Id
3. Search Employee Details By Name
4. Display All Employee Details

Enter your Choice: 1

Enter employee ID: 2

Enter employee Name: Manoj

Enter employee Salary: 32000

Enter employee Age: 24

Employee Details Added Successfully

Do you want to continue(y/n):

y

```
*****8
Employee Management Application
*****

1. Add Employee Details
2. Search Employee Details By Id
3. Search Employee Details By Name
4. Display All Employee Details

Enter your Choice: 1

Enter employee ID: 3
Enter employee Name: Naresh
Enter employee Salary: 45000
Enter employee Age: 38
Employee Details Added Successfully

Do you want to continue(y/n):
```



EmployeeData.txt - Notepad

File Edit View

```
234,Pavan,30000,23
123,Pavan,30000,23
1,Pavan,30000,22
2,Manoj,32000,24
1,Pavan,30000,22
2,Manoj,32000,24
3,Naresh,45000,38
```