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# FINAL PROJECT

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C# PROGRAMING



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## FINAL PROJECT

### CODE

#### Data Accesses Layer

```
using System;
using System.Collections.Generic;
using System.IO;

namespace Data_access_layer
{
    public class Class1
    {
        public static string FilePath = "c:\\MyProject\\EmpDetails.txt";

        public static bool Add_Employee(int EmpId, string EmpName, int
EmpSalary, int EmpAge)
        {
            var str = string.Concat(EmpId, ", ", EmpName, ", ", EmpSalary, ",
", EmpAge);
            File.AppendAllText(FilePath, str + Environment.NewLine);
            Console.WriteLine("Employee Entered!");
            return true;
        }

        public static List<string> Search_emp_Detail(int Id)
        {
            var EmpList = new List<string>();
            StreamReader sr = new StreamReader(FilePath);
            string Emp_Details = sr.ReadLine();
            while (Emp_Details != null)
            {
                var EmpId_split = Emp_Details.Split(',');

                if( Convert.ToInt32(EmpId_split[0]) == Id)
                {
                    EmpList.Add(Emp_Details);
                    break;
                }

                Emp_Details = sr.ReadLine();
            }

            sr.Close();

            return EmpList;
        }

        public static List<string> EmpDetailsByName(string name )
        {
            var EmpNames = new List<string>();
            StreamReader sr = new StreamReader(FilePath);
            string Emp_Details = sr.ReadLine();
            while (Emp_Details != null)
            {
                var EmpId_split = Emp_Details.Split(',');

                if (EmpId_split[1].Contains(name))
                {
                    EmpNames.Add(EmpId_split[1]);
                    break;
                }
            }
        }
    }
}
```

```

    }

    Emp_Details = sr.ReadLine();
}
sr.Close();
return EmpNames;
}
public static List<string> AllEmpDetails()
{
    var vs = new List<string> {};
    StreamReader sr = new StreamReader(FilePath);
    string AllEmp = sr.ReadLine();
    while(AllEmp != null)
    {
        vs.Add(AllEmp);
        AllEmp = sr.ReadLine();
    }
    sr.Close();
    return vs;
}
}
}

```

#### Business Logic Layer

```

using System;
using System.IO;
using System.Collections.Generic;
using Data_access_layer;

namespace Bussiness_Logic_Library
{
    public class BusinessLogic
    {
        public static bool AddEmp()
        {
            //Check is it repeated or it is negative

            var st = Class1.FilePath;

            iSitnegativeOrRepeated:
            int ID_Number;
            Console.WriteLine("Enter the ID Number:");
            int EmpId = Convert.ToInt32(Console.ReadLine());
            StreamReader sr = new StreamReader(st);

            string line = sr.ReadLine();
            bool verify = false;
            while (line != null)
            {
                var lineSplit = line.Split(',');
                if (lineSplit[0] == EmpId.ToString())
                {
                    verify = true;
                    break;
                }
                else
                {
                    line = sr.ReadLine();
                }
            }
        }
    }
}

```

```

    }
}
sr.Close();

if (EmpId <= 0 || verify)
{
    Console.WriteLine("Check the Entered Number Wheather its above
zero and Id Number Not Repeated");
    goto iSitnegativeOrRepeated;
}
else
{
    ID_Number = EmpId;
}
//Check the Length of The name
NameLenCheck:
string Emp_Name;
Console.WriteLine("Enter name:");
string empName = Console.ReadLine();
if (empName.Length < 3)
{
    Console.WriteLine("Enter name Atleast of 3 characters");
    goto NameLenCheck;
}
else
{
    Emp_Name = empName;
}
//Salary Check
EmpSalaryCheck:
int Emp_Salary;
Console.WriteLine("Enter Salary");
int empSalary = Convert.ToInt32(Console.ReadLine());

if (empSalary < 12000)
{
    Console.WriteLine("salary should be greater than 12000");
    goto EmpSalaryCheck;
}
else
{
    Emp_Salary = empSalary;
}
//age Check
EmpageCheck:
int Emp_Age;
Console.WriteLine("Enter Age");
int empAge = Convert.ToInt32(Console.ReadLine());
if (empAge <= 18 || empAge >= 58)
{
    Console.WriteLine("Check your age it should be more than 18 and
less than 58");
    goto EmpageCheck;
}
else
{
    Emp_Age = empAge;
}
var result = Class1.Add_Employee(ID_Number, Emp_Name, Emp_Salary,
Emp_Age);
return result;
}

```

```

        public static List<string> Search_EmpDetailsById(int empId)
        {
            var empDetailsId = Class1.Search_emp_Detail(empId);
            return empDetailsId;
        }
        public static List<string> Search_EmpDetailsByName(string empName)
        {
            var empDetailsName = Class1.EmpDetailsByName(empName);
            return empDetailsName;
        }
        public static List<string> DisplayEmployeeDetails()
        {
            var empDetails = Class1.AllEmpDetails();
            return empDetails;
        }
    }
}

```

#### Client Application

```

using System;
using Bussiness_Logic_Library;

namespace ClientApp
{
    internal class Program
    {
        public static void AddEmployee()
        {
            var r = BusinessLogic.AddEmp();
            Console.WriteLine(r);
            Console.WriteLine("Added");
        }
        public static void SearchEmployeeById()
        {
            int IDnumber;
            Console.Write("Enter employee ID: ");
            IDnumber = int.Parse(Console.ReadLine());
            var DetailEmp = BusinessLogic.Search_EmpDetailsById(IDnumber);
            if(DetailEmp.Count==0)
            {
                Console.WriteLine($"No Employee exists on this {IDnumber}");
            }
            else
            {
                DetailEmp.ForEach(x => Console.WriteLine(x));
            }
        }
        public static void SearchEmployeeByName()
        {
            string EmpNAME;
            Console.Write("Enter employee Name: ");
            EmpNAME = Console.ReadLine();
            var EMPdetails = BusinessLogic.Search_EmpDetailsByName(EmpNAME);
            if(EMPdetails.Count==0)
            {
                Console.WriteLine($"No Employee exists on this {EmpNAME}");
            }
        }
    }
}

```

```
Console.ForegroundColor = ConsoleColor.Blue;
Console.WriteLine
    (@"
```

\*\*\*\*\*888888 TO EMPLOYEE MANAGEMENT  
APPLICATION 888888\*\*\*\*\*

## Employee Management Application

```
        SELECT THE FOLLOWING OPTIONS BELOW
        1. Add Employee Details
        2. Search Employee Details By Id
        3. Search Employee Details By Name
        4. Display All Employee Details
    ");
    Console.ResetColor();
    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"));
Console.ReadLine();
}
}
```

## Enter Employee Data

Employee Entered!

Search By ID



## Search By Name

## Display all Employees

```
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=====
```

\*\*\*\*\*88888 TO EMPLOYEE MANAGEMENT APPLICATION 88888\*\*\*\*\*

```
-----
|           Employee Management Application           |
-----
SELECT THE FOLLOWING OPTIONS BELOW
1. Add Employee Details
2. Search Employee Details By Id
3. Search Employee Details By Name
4. Display All Employee Details
```

Enter your Choice: 4  
1, bhanu, 13000, 24  
2, teja, 25000, 34  
3, ram, 14000, 35  
4, jan, 20000, 24  
5, sam, 14000, 25

\*\*\*\*\* THANK YOU \*\*\*\*\*