# FINAL PROJECT (BY G V S S SRI LASYA)

# FINAL PROJECT

```
CODE FOR CLIENT APP
```

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System. Threading. Tasks;
using BusinessLogicLibrary;
namespace ClientApp
    internal class Program
         static void Main(string[] args)
              int option;
              string choice;
              do
                  Console.Write("\n1.Add Employee : ");
Console.Write("\n2.Search Employee by Id: ");
Console.Write("\n3.Search Employee byname: ");
                  Console.Write("\n4.Display all Employees : ");
Console.Write("\nEnter your choice : ");
                   option = Convert.ToInt32(Console.ReadLine());
                   switch (option)
                       case 1:
                            AddEmployee();
                            break;
                       case 2:
                            GetEmployeeById();
                            break;
                       case 3:
                            GetEmployeeByName();
                            break;
                       case 4:
                            GetAllEmployees();
                            break;
                       default:
                            Console.Write("Invalid option");
                            break;
                  }
                  Console.Write("\nDo you want to choose more options(y/n)? :");
                   choice = Console.ReadLine();
              } while (choice.Equals("y"));
              public static void AddEmployee()
                   int id, salary, age;
                   string name;
                   Console.Write("\n Enter id : ");
                   id = Convert.ToInt32(Console.ReadLine());
```

```
Console.Write("\n Enter name : ");
            name = Console.ReadLine();
            Console.Write("\n Enter salary : ");
            salary = Convert.ToInt32(Console.ReadLine());
            Console.Write("\n Enter age : ");
            age = Convert.ToInt32(Console.ReadLine());
        var result = EmployeeBLL.AddEmployee(id, name, salary, age);
        if (result)
            Console.Write("\nEmployee details are succesfuly saved");
            Console.Write("\nSome error occured,check input");
    }
        public static void GetEmployeeById()
        int id;
        Console.Write("Enter id : ");
        id =Convert.ToInt32(Console.ReadLine());
        var result = EmployeeBLL.GetEmployeeById(id);
        if (result.Count == 0)
            Console.Write("\n\nNo records exist witg this id");
        else
            result.ForEach(p => Console.Write("\n" + p));
        }
        public static void GetEmployeeByName()
        string name;
        Console.Write("Enter name : ");
        name = Console.ReadLine();
        var result = EmployeeBLL.GetEmployeeByName(name);
        if (result.Count == 0)
            Console.Write("\n\nNo records exist with this name");
            result.ForEach(p => Console.Write("\n" + p));
    }
        public static void GetAllEmployees()
    {
        Console.Write("\nComplete details of all the empoyees : ");
        var result = EmployeeBLL.GetAllEmployees();
        result.ToList().ForEach(p => Console.Write("\n" + p));
    }
}
}
```

### CODE FOR BLL

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Text;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using DataAccessLibrary;
using System.IO;
namespace BusinessLogicLibrary
{
    public class EmployeeBLL
    {
        public static string filePath = "C:\\Users\\gottu\\Desktop\\csc
images\\Employees.txt";
        public static bool AddEmployee(int empId, string empName, int empSalary, int empAge)
}
```

```
//todo add validations
            //if all validations are succesful then call dal
                 var allEmployees = File.ReadAllLines(filePath);
                 bool isFound = false;
                 foreach (string employee in allEmployees)
                     var employeeDetails = employee.Split(',');
if (Convert.ToInt32(employeeDetails[0]) == empId)
                         isFound = true;
                         break;
                 }
            if (Regex.Match(empName, "^[a-zA-Z.]{3,50}$").Success &&
Regex.Match(empId.ToString(), @"^[1-9]\d*$").Success && isFound == false)
                 var result = EmployeeDAL.AddEmployee(empId, empName, empSalary, empAge);
                 return result;
            }
            else
            {
                return false;
        }
        public static List<string> GetEmployeeById(int id)
             var result = EmployeeDAL.GetEmployeeById(id);
            return result;
        public static List<string> GetEmployeeByName(string name)
             var result = EmployeeDAL.GetEmployeeByName(name);
            return result;
        public static string[] GetAllEmployees()
             var result = EmployeeDAL.GetAllEmployees();
            return result;
        }
```

# CODE FOR DAL

```
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> employeeFound = new List<string>();
            foreach(string employee in allEmployees)
                var employeeDetails = employee.Split(',');
                if(Convert.ToInt32(employeeDetails[0]) == id)
                    isFound = true;
                    employeeFound.Add(employee);
                    break;
                }
            }
            return employeeFound;
        }
        public static List<string> GetEmployeeByName(string name)
            var allEmployees = File.ReadAllLines(filePath);
            bool isFound = false;
            List<string> employeeFound = new List<string>();
            foreach (string employee in allEmployees)
                var employeeDetails = employee.Split(',');
                if (employeeDetails[1].Contains(name))
                {
                    isFound = true;
                    employeeFound.Add(employee);
                }
            }
            return employeeFound;
        }
        public static string[] GetAllEmployees()
            var allEmployees = File.ReadAllLines(filePath);
            return allEmployees;
        }
   }
}
```

# **OUTPUTS**

```
1.Add Employee :
2.Search Employee by Id:

3.Search Employee byname:
4.Display all Employees :
Enter your choice : 1
 Enter id : 25432
 Enter name : AGJGJG
 Enter salary : 34422
 Enter age : 23
Employee details are succesfuly saved
Do you want to choose more options(y/n)? :
Employee details are succesfuly saved
Do you want to choose more options(y/n)? :y
1.Add Employee :
2.Search Employee by Id:
3.Search Employee byname:
4.Display all Employees :
Enter your choice : 1
 Enter id : -22
 Enter name : efewgeg
 Enter salary : 32433
 Enter age : 23
Some error occured,check input
Do you want to choose more options(y/n)? :
```

```
Some error occured,check input
Do you want to choose more options(y/n)? :y
1.Add Employee :
Search Employee by Id:
3.Search Employee byname:
4.Display all Employees :
Enter your choice : 1
Enter id : 1
 Enter name : efefew
 Enter salary : 23432
 Enter age : 32
Some error occured,check input
Do you want to choose more options(y/n)? :
Do you want to choose more options(y/n)? :y
1.Add Employee :
Search Employee by Id:
3.Search Employee byname:
4.Display all Employees :
Enter your choice : 1
Enter id: 2898
 Enter name : w
 Enter salary : 2687
 Enter age : 22
Some error occured,check input
Do you want to choose more options(y/n)? :
```

```
Do you want to choose more options(y/n)? :y
1.Add Employee :
Search Employee by Id:
3.Search Employee byname:
4.Display all Employees :
Enter your choice : 2
Enter id : 2
2,xyz,30000,32
Do you want to choose more options(y/n)? :y
1.Add Employee :
Search Employee by Id:
3.Search Employee byname:
4.Display all Employees :
Enter your choice : 3
Enter name : ds
3,sgdds,32355,32
9,sgdsgh,32222,24
Do you want to choose more options(y/n)? :
```

```
Enter your choice : 4
Complete details of all the empoyees :
1,abc,20000,23
2,xyz,30000,32
3,sgdds,32355,32
4,dhfdh,43324,25
5,hshgj,3452,26
6,dhdhd,253323,42
7,wtwet,23333,24
8,hshfs,35322,21
9,sgdsgh,32222,24
10,ddhhr,23244,22
11,dhfdh,34444,28
23,EWEG,323253,32
24,sgsh,43,4
22,gd,32425,2
1111,rtttt,3,2
22222,affdg,442,3
2222222,wadaf,233,3
2555,wte,2352,23
3464,rweew,25,3
5555,wtewt,23425,3
33333,rwrqq,235,3
235,esgww,3446,4
2424,esgszdz,2522,33
46363,dhhhgfhg,366,4
25432,AGJGJG,34422,23
Do you want to choose more options(y/n)? :
```