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| MY Project  DAY 22 Assignment  BY  B.P.N.V.S. Sudheer  22-02-22 |

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| 1.Write a C# program to Add employee,Search employee using name,id,Display all employees using one client app and two Libraries |
| DAL |
| using System;  using System.Collections.Generic;  using System.IO;  using System.Linq;  using System.Text;  using System.Threading.Tasks;    namespace Dataacesslayerlibrary  {  public static class EmployeeDAL  {  static string filepath = "C:\\Employeedata\\employee.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> GetEmployeesById(int id)  {  var allEmployees = File.ReadAllLines(filepath);  bool isFound = false;    List<string> employeesFound = new List<string>();  foreach (string employee in allEmployees)  {  var empDetails = employee.Split(',');  if (Convert.ToInt32(empDetails[0]) == id)  {  isFound = true;  employeesFound.Add(employee);  break;  }  }  return employeesFound;  }  public static List<String> GetEmployeesByName(string name)  {  var allEmployees = File.ReadAllLines(filepath);    List<string> employeesFound = new List<string>();  foreach (string employee in allEmployees)  {  var empDetails = employee.Split(',');  if (empDetails[1].Contains(name))  {    employeesFound.Add(employee);  break;  }  }  return employeesFound;  }    public static string[] GetAllEmployees()  {  var allEmployees = File.ReadAllLines(filepath);  return allEmployees;  }            }      } |
| BLL |
| using Dataacesslayerlibrary;  using System;  using System.Collections.Generic;    namespace Businesslogiclibrary  {  public class EmployeeBll  {  public static bool AddEmployee(int empid, string empname, int empsalary, int empage)  {  var result = EmployeeDAL.AddEmployee(empid, empname, empsalary, empage);  return result;  }  public static List<String> GetEmployeesById(int id)  {  var result = EmployeeDAL.GetEmployeesById(id);  return result;  }  public static List<String> GetEmployeesByName(string name)  {  var result = EmployeeDAL.GetEmployeesByName(name);  return result;    }  public static string[] GetAllEmployees()  {  var result = EmployeeDAL.GetAllEmployees();  return result;  }  }  } |
| Client App |
| using System;  using System.Collections.Generic;  using System.Linq;  using System.Text;  using System.Threading.Tasks;  using Businesslogiclibrary;    namespace clientsudheerproject  {  internal class Program  {  static void Main(string[] args)  {  int ch;  String choice;    do  {  Console.WriteLine("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");  Console.WriteLine("Employee Management Application");  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 Employees:");  Console.WriteLine("Enter your choice");  ch = Convert.ToInt32(Console.ReadLine());  switch (ch)  {  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 want to continue(Y/N):");  choice = Console.ReadLine();    }  while (choice.Equals("y"));  }  public static void AddEmployee()  {  int id, salary, age;  String name;  Console.WriteLine("Enter id:");  id = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter salary:");  salary = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter age:");  age = Convert.ToInt32(Console.ReadLine());  Console.WriteLine("Enter name:");  name = Console.ReadLine();    //call Bll Method  var result = EmployeeBll.AddEmployee(id, name, salary, age);  if(result)  Console.WriteLine("Employee Details Saved Successfully");  else  Console.WriteLine("some error occured");      }  public static void SearchEmployeebyId()  {  int id;  Console.WriteLine("Enter id");  id = Convert.ToInt32(Console.ReadLine());  var result = EmployeeBll.GetEmployeesById(id);  if(result.Count==0)  Console.WriteLine("no records exists with this id");  else  {  result.ForEach(p => Console.WriteLine(p));  }  }  public static void SearchEmployeebyName()  {  String name;  Console.WriteLine("Enter name");  name = Console.ReadLine();  var result = EmployeeBll.GetEmployeesByName(name);  result.ForEach(p => Console.WriteLine(p));        }  public static void DisplayAllEmployees()  {  var result = EmployeeBll.GetAllEmployees();  foreach(var res in result)  {  Console.WriteLine(res);  }    }    }  } |

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| Outputs: |
| Add Employee ,Search Employeeby id |

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| Search EmployeeByname |

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| Display All employee |

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