Feb 22th Assignment

By

Surya Teja Chandolu

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| Write a C# program for Employee Management Application |
| Code: |
| Data Access Layer Library:  using System;  using System.Collections.Generic;  using System.IO;  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* Author: Surya Teja  \* Purpose: Data Access Layer Library  \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  namespace DataAccessLayerLibrary  {  public static class DAL  {  public static string filePath = "S:\\NB\\Assi\\Day1 Morning assignment by Surya Teja Chandolu 24 Jan 2022\\C#\\Day22Feb22\\EmployeeDetails.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 name)  {  var empData = File.ReadAllLines(filePath);  List<string> found = new List<string>();  foreach (string emp in empData)  {  var empDetails = emp.Split(',');  if ((empDetails[1].Contains(name)))  {  found.Add(emp);  }  }  return found;  }  /// <summary>  /// Display Employee Details  /// </summary>  /// <returns></returns>  public static string[] DisplayEmployeeDetails()  {  var empData = File.ReadAllLines(filePath);  return empData;  }  }  }  Business Logic Layer Library  using System.Collections.Generic;  using DataAccessLayerLibrary;  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* Author: Surya Teja  \* Purpose: Business Logic Layer Library  \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  namespace BusinessLogicLayerLibrary  {  public class BLL  {  /// <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 = DAL.AddEmployeeDetails(empId, empName, empSalary, empAge);  return empDetailsAdd;  }  /// <summary>  /// Search Employee Details By Id  /// </summary>  /// <param name="empId"></param>  /// <returns></returns>  public static List<string> SearchEmployeeDetailsById(int empId)  {  var empDetailsId = DAL.SearchEmployeeDetailsById(empId);  return empDetailsId;  }  /// <summary>  /// Search Employee Details By Name  /// </summary>  /// <param name="empName"></param>  /// <returns></returns>  public static List<string> SearchEmployeeDetailsByName(string empName)  {  var empDetailsName = DAL.SearchEmployeeDetailsByName(empName);  return empDetailsName;  }  /// <summary>  /// Display Employee Details  /// </summary>  /// <returns></returns>  public static string[] DisplayEmployeeDetails()  {  var empDetails = DAL.DisplayEmployeeDetails();  return empDetails;  }  }  }  Client Application:  using System;  using BusinessLogicLayerLibrary;  /\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  \* Author: Surya Teja  \* Purpose: Client Application  \* \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*/  namespace ClientApplication  {  internal class Program  {  static void Main(string[] args)  {  int c;  string d;  do  {  Console.WriteLine("\n----------------------------------------------------");  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"));  }  /// <summary>  /// Add Employee  /// </summary>  public static void AddEmployee()  {  int id, salary, age;  string name;  Console.Write("\nEnter employee ID: ");  id = Convert.ToInt32(Console.ReadLine());  Console.Write("Enter employee Name: ");  name = Console.ReadLine();  Console.Write("Enter employee Salary: ");  salary = Convert.ToInt32(Console.ReadLine());  Console.Write("Enter employee Age: ");  age = Convert.ToInt32(Console.ReadLine());  var empDetails = BLL.AddEmployeeDetails(id, name, salary, age);    if(empDetails)  Console.WriteLine("Employee Details Added Successfully");  else  Console.WriteLine("Error Occured");  }  /// <summary>  /// Search mployee By Id  /// </summary>  public static void SearchEmployeeById()  {  int id;  Console.Write("Enter employee ID: ");  id = Convert.ToInt32(Console.ReadLine());  var empDetails = BLL.SearchEmployeeDetailsById(id);  if (empDetails.Count == 0)  Console.WriteLine($"No Employee exists on this {id}");  else  {  empDetails.ForEach(e => Console.WriteLine(e));  }  }  /// <summary>  /// Search mployee By Name  /// </summary>  public static void SearchEmployeeByName()  {  string name;  Console.Write("Enter employee Name: ");  name = Console.ReadLine();  var empDetails = BLL.SearchEmployeeDetailsByName(name);  if (empDetails.Count == 0)  Console.WriteLine($"No Employee exists on this {name}");  else  {  empDetails.ForEach(e => Console.WriteLine(e));  }  }  /// <summary>  /// Diaplay Employee  /// </summary>  public static void DisplayEmployee()  {  var empDetails = BLL.DisplayEmployeeDetails();  foreach(var emp in empDetails)  {  Console.WriteLine(emp);  }  }  }  } |
| Output: |
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| TextFile: |
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