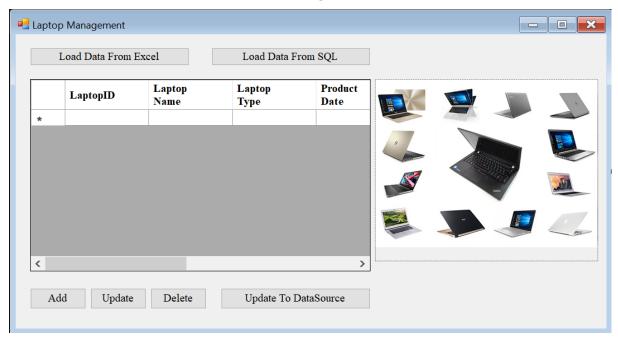
Laptop Management

Laptop.cs

Program.cs

Design



LaptopManagement.cs

```
Inference
private void btnLoadExcel_Click(object sender, EventArgs e)
          loadData = 1;
datatable = new DataTable();
LList.Clear();
          int colCount = 9;
int NumDataRow = ReadDataFromFile(LList, ExcelFilePath, colCount);
          var sublist = LList.Select(x => new
{
                    LaptopIO = x.LaptopIO,
LaptopName = x.LaptopName,
LaptopType = x.LaptopType,
ProductDate = x.ProductDate.ToString("dd/MM/yyyyy"),
Processor = x.Processor,
          HDD = x.HDD,
RAM = x.RAM,
Price = x.Price.ToString() + "VND"
}).ToList();
         datatable.Columns.Add("LaptopID");
datatable.Columns.Add("LaptopName");
datatable.Columns.Add("LaptopNype");
datatable.Columns.Add("Productate");
datatable.Columns.Add("Processor");
datatable.Columns.Add("HDD");
datatable.Columns.Add("PaN");
datatable.Columns.Add("Price");
          DataRow newrow;
foreach (var h in sublist)
                   newrow = datatable.NowRow();
newrow["LaptopID"] = h.LaptopID;
newrow["LaptopIDwaw"] = h.LaptopIDwaw;
newrow["LaptopType"] = h.LaptopType;
newrow["ProductDate"] = h.ProductDate;
newrow["Processor"] = h.Processor;
newrow["HOD"] = h.HOD;
newrow["RAM"] = h.RAH;
newrow["Price"] = h.Price;
datatable.Rows.Add(newrow);
datatable.AcceptChanges();
          binding.AllowNew = true;
binding.DataSource = datatable;
dgwLaptopList.AutoGenerateColumns = false;
dgwLaptopList.DataSource = binding;
Induction public int ReadDataFromFile(List<Laptop> DataList, string FilePath, int colCount) {
         Excel.Application xlApp = new Excel.Application();
Excel.Workbook xlWorkbook = xlApp.Workbooks.Open(FilePath);
Excel._Worksheet xlWorksheet = xlWorkbook.Sheets[1];
Excel.Range xlRange = xlWorksheet.UsedRange;
         xlWorksheet.Columns.ClearFormats();
xlWorksheet.Rows.ClearFormats();
          int rowCount = xlWorksheet.UsedRange.Rows.Count;
         int numLaptop = 8;

string LaptopID =

string LaptopIName = ;

string LaptopIName = ;

string ProductDate = DateTime.Now;

string Processor = ;

string RAM = ;

int Price = 8;

string RAM = ;
```

string Avatar = **;

```
for (int i = 2; i <= rowCount; i++)
      for (int j = 1; j <= colCount; j++)
             switch (j)
                        LaptopID = xlRange.Cells[i, j].Value2.ToString();
break;
                   case 2:
    LaptopName = xlRange.Cells[i, j].Value2.TeString();
                   break;
case 3:
LaptopType = xlRange.Cells[i, j].Value2.ToString();
                       break;
                   case 4:
ProductDate = DateTime.ParseExact(xtRange.Cells[i, j].Value2.ToString(),
"dd/MM/yyyy", CultureInfo.InvariantCulture);
                        Processor = xlRange.Cells[i, j].Value2.ToString();
break;
                   case 6:
                   HDO = xlRange.Cells[i, j].Value2.ToString();
break;
case 7:
                         RAM = xlRange.Cells[i, j].Value2.ToString();
break;
                   case 8:
    Price = Convert.ToInt32(xlRange.Cells[i, j].Value2.TeString());
                         Avatar = xlRange.Cells[i, j].Value2.ToString();
break;
    }

bataList.Add(new Laptop());

DataList[numLaptop].LaptopID = LaptopID;

DataList[numLaptop].LaptopName = LaptopName;

DataList[numLaptop].LaptopType = LaptopType;

DataList[numLaptop].Processor = ProductDate;

DataList[numLaptop].Processor = Processor;

DataList[numLaptop].HOD = HOD;

DataList[numLaptop].RAM = RAM;

DataList[numLaptop].Price = Price;

DataList[numLaptop].Avatar = Avatar;

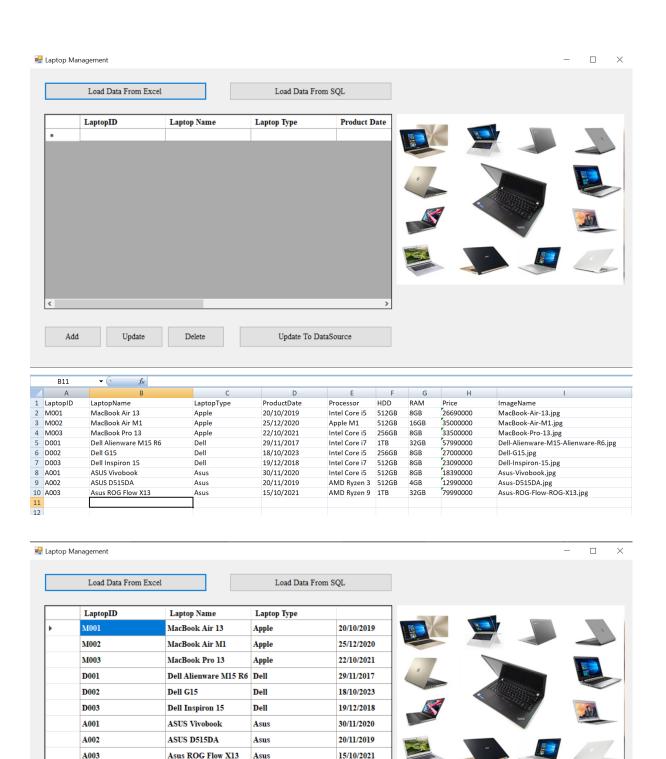
numLaptop = numLaptop + 1;
xlApp.Quit();
MessageBox.Show("Load Data From Excel Done! : " + (rowCount - 1).ToString() + " Records");
return (rowCount - 1);
```

```
DataRow nowrow;
foreach (var h in sublist)
{
                newrow = datatable .NowRow();
newrow["LaptopID"] = h.LaptopID;
newrow["LaptopID"] = h.LaptopID;
newrow["LaptopID"] = h.LaptopID;
newrow["ProductDate"] = h.ProductDate;
newrow["ProductDate"] = h.ProductDate;
newrow["PDD"] = h.HD)
newrow["RAM"] = h.RAM;
newrow["RAM"] = h.RAM;
newrow["Price"] = h.Price;
datatable .Rows .Add(nowrow);
datatable .AcceptChanges();
       binding.AllowNew = true;
binding.DataSource = datatable;
dgwLaptopList.AutoGenerateColumns = false;
dgwLaptopList.DataSource = binding;
limbrance
public int ReadDataFromSQLServer(List<Laptop> DataList, string connectionString)
{
       SqlConnection cmn;
cmn = now SqlConnection(connectionString);
int iRow = 0;
int NumRocords = 0;
                cnn.Open();
Console.WriteLine("Connection Open !");
                 string SqlString = @"SELECT
                                                            Laptoplase,
Laptoplase,
Laptoplype,
ProductDate = Convert(varchar(10),CONVERT(date,ProductDate,100),103),
                                                             FROM Laptop":
                 using (var command = new SqlCommand(SqlString, cnm))
{
                          using (var reader = command.ExecuteReader())
{
                                  while (reader.Read())
{
                                         LList.Add(new Laptop());
LList[iRow].LaptopID = reader.GetString(0);
LList[iRow].LaptopID = reader.GetString(1);
LList[iRow].LaptopIppe = reader.GetString(2);
LList[iRow].LaptopIppe = reader.GetString(2);
LList[iRow].ProductState = DatoTime.Parseckact(reader.GetString(3), "dd/MM/yyyy", CultureInfo.InvariantCulture);
LList[iRow].Processor = reader.GetString(4);
LList[iRow].Processor = reader.GetString(5);
LList[iRow].PAPH = reader.GetString(5);
LList[iRow].Price = reader.GetInt32(7);
LList[iRow].Avatar = reader.GetString(8);
                                           iRow = iRow + 1;
                SqlCommand cmd = new SqlCommand("select count (*) from Laptop", cnn);
object result = cmd.ExecuteScalar();
NumRecords = int.Parse(result.ToString());
                MessageBox.Show("Finish Load Data Frome SQL: " + NumRecords.ToString() + " Records");
cnn.Close();
       catch (SqlException ex)
                 MessageBox.Show("Can not open connection ! : " + ex.Message);
         return NumRecords;
```

```
OnMonocon
private void dgvlapList_EditingControlShowing(object sender, DataGridViewEditingControlShowingEventArgs e)
{
                e.Control.KoyPress -= now KoyPressEventHandler(ColumnPrice_HeyPress); if (dgwLaptopList.CurrentCell.ColumnIndex == 7) {
                               TextBox tb = e.Control as TextBox;
if (tb != null)
                                             tb.KeyPress += new KeyPressEventHandler(ColumnPrice_KeyPress);
 2 mbrances private void ColumnPrice_MoyPress(object sender, MoyPressEventArgs e) {
                if (!char.IsControl(e.WeyChar) && !char.IsDigit(e.WeyChar))
                            e.Handled = true:
 Industrial
private void <a href="https://private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>private.com/br/>priva
             Laptop 1 = new Laptop();
1.LaptopID = "Not Assigned";
1.LaptopIame = "Not Assigned";
1.LaptopIame = "Not Assigned";
1.LaptopIame = "Not Assigned";
1.ProductDate = DateTime.ParseExact("81/81/1988", "dd/WW/yyyy", CultureInfo.InvariantCulture);
1.Processor = "Not Assigned";
1.HDD = "Not Assigned";
1.RMA = "Not Assigned";
1.Price = 8;
1.Avatar = "Laptop.jpg";
1.List.Add(1):
               LList.Add(l);
             DataRow nowrow;
nowrow = datatable.NowHow();
nowrow["LaptopID] = l.LaptopID;
nowrow["LaptopIName"] = l.LaptopName;
nowrow["LaptopNyoe"] = l.LaptopNyoe;
nowrow["ProductDate"] = l.ProductDate;
nowrow["ProductDate"] = l.Processor;
nowrow["Processor"] = l.Processor;
nowrow["RADO"] = l.HDD;
nowrow["RAM"] = l.RAM;
nowrow["Price"] = l.Price.ToString() + "VND";
datatable.Rows.Add(nowrow);
datatable.AccoptChanges();
               MessageBox.Show("Finish Adding");
Informer
private void btnDelete_Click(object sender, EventArgs e)
{
              Laptop l;
if (CurrentLaptopIndex >= 0)
    l = LList[CurrentLaptopIndex];
              else
return;
                string question = "Do You Mant to delete Laptop:" + L.LaptopID;
DialogResult result = MescageRox.Show(question, "Delete", MessageRoxRuttons.YesMo, MessageRoxIcon.Question);
if (result == DialogResult.Yes)

                               LList.RemoveAt(CurrentLaptopIndex);
binding.RemoveAt(CurrentLaptopIndex);
                  }
MessageBox.Show("Finish Delete");
```

```
public void WriteDataToExcelFile(List<Laptop> LList, string ExcelFilePath) {
                                        Excel.Application xlApp = new Excel.Application();
Excel.Workbook xlWorkbook = xlApp.Workbooks.Open(ExcelFilePath);
Excel._Worksheet xlWorksheet = xlWorkbook.Sheets[1];
                                        Excel.Range xlRange;
string[,] Data = new string[1, 10];
                                        int idxRow = 2;
foreach (Laptop l in LList)
{
                                               Data[0, 0] = l.LaptopID;
Data[0, 1] = l.LaptopIName;
Data[0, 2] = l.LaptopINye;
Data[0, 2] = l.ProductUate.ToString("dd/MM/yyyy", CultureInfo.InvariantCulture);
Data[0, 4] = l.Processor;
Data[0, 5] = l.HOD;
Data[0, 6] = l.RAM;
Data[0, 7] = l.Price.ToString();
Data[0, 8] = l.Avatar;
                                                xtRange = xtWorksheet.get_Range("A" + idxRow.ToString(), "J" + idxRow.ToString());
xtRange.Value2 = Data;
                                               idxRow = idxRow + 1;
                                       xlMorkbook.Save();
xlMorkbook.Close();
                                        xlApp.Quit();
                           MessageBox.Show("Finish Update to DataSource Excel");
}
                               Indicates public void WriteDataToSQLServer(List<Laptop> LList, string connectionString) {
                                        SqlConnection cnn;
SqlConmand myConmand = new SqlConmand();
string query;
                                        cnn = new SqlConnection(connectionString);
                                         try
{
                                                cnn.Open();
Console.WriteLine("Connection Open !");
                                                query = "TRUNCATE TABLE Laptop";
myCommand.CommandText = query;
                                                myCommand.Connection = cnn;
myCommand.ExecuteWonQuery();
                                               myCommand.CommandText = query;
myCommand.Connection = cnn;
                                               wyCommand.Parameters.Add(new SqlParameter("@LaptopID", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@LaptopName", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@LaptopType", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@ProductDate", SqlDbType.DateTime));
myCommand.Parameters.Add(new SqlParameter("@Processor", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@Processor", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@Price", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@Price", SqlDbType.WarChar));
myCommand.Parameters.Add(new SqlParameter("@Price", SqlDbType.WarChar));
                                                foreach (Laptop 1 in LList)
                                                        myCommand.Parameters[8].Value = l.LaptopID;
myCommand.Parameters[1].Value = l.LaptopIDme;
myCommand.Parameters[2].Value = l.LaptopType;
myCommand.Parameters[3].Value = l.ProductDate.ToString("dd/MM/yyyy", CultureInfo.InvariantCulture);
myCommand.Parameters[8].Value = l.Processor;
myCommand.Parameters[6].Value = l.HDD;
myCommand.Parameters[6].Value = l.RM;
myCommand.Parameters[7].Value = l.Price.ToString();
myCommand.Parameters[8].Value = l.Avatar;
                                                        myCommand.ExecuteNonQuery();
                                                 cnn.Close():
                                         catch (SqlException ex)
                                          catch (SqlException ex)
476
477
478
479
                                                 HessageBox.Show("Can not open connection ! " + ex.Message);
                                          MessageBox.Show("Finish Update to DataSource SQL Server");
```



Update To DataSource

Add

Update

Delete

