using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.IO;

namespace ConsoleApplication2

{

public class Xe

{

public string TenHang { set; get; }

public string ID { set; get; }

public string MauSac { set; get; }

public string MauXe { set; get; }

public string GiaTien { set; get; }

public Xe()

{

TenHang = "Yamaha";

ID = "0";

MauSac = "red";

MauXe = "Exciter";

GiaTien = "0";

}

public Xe(string TenHang, string ID, string MauSac, string MauXe, string GiaTien)

{

this.TenHang = TenHang;

this.ID = ID;

this.MauSac = MauSac;

this.MauXe = MauXe;

this.GiaTien = GiaTien;

}

public virtual void Nhap()

{

int answer1;

Console.WriteLine("1.Honda");

Console.WriteLine("2.Yamaha");

Console.WriteLine("3.Suzuki");

Console.WriteLine("4.SYM");

Console.WriteLine("5.Vespa");

Console.WriteLine("6.Pjaggio");

do

{

Console.Write("Nhap Ten Hang: ");

answer1 = int.Parse(Console.ReadLine());

} while (answer1 > 7 || answer1 < 0);

switch (answer1)

{

case 1: { TenHang = "Honda"; break; }

case 2: { TenHang = "Yamaha"; break; }

case 3: { TenHang = "Suzuki"; break; }

case 4: { TenHang = "SYM"; break; }

case 5: { TenHang = "Vespa"; break; }

case 6: { TenHang = "Pjaggio"; break; }

}

Console.Clear();

Console.Write("Nhap Ma So Khung Xe: ");

ID = Console.ReadLine().ToUpper();

Console.Clear();

int answer2;

Console.WriteLine("1.Red");

Console.WriteLine("2.Red Blue");

Console.WriteLine("3.Blue");

Console.WriteLine("4.Bule White");

Console.WriteLine("5.Yellow");

Console.WriteLine("6.Gray");

Console.WriteLine("7.Type your car's colour if it doesn't exist in table above");

do

{

Console.Write("What's your number: ");

answer2 = int.Parse(Console.ReadLine());

} while (answer2 > 7 || answer2 < 0);

switch (answer2)

{

case 1: { MauSac = "Red"; break; }

case 2: { MauSac = "Red Blue"; break; }

case 3: { MauSac = "Blue"; break; }

case 4: { MauSac = "Blue White"; break; }

case 5: { MauSac = "Yellow"; break; }

case 6: { MauSac = "Gray"; break; }

case 7:

{

{

Console.Write("What is your car's colour: ");

MauSac = Console.ReadLine();

} break;

}

}

Console.Clear();

int answer3;

Console.WriteLine("1.Air Blade");

Console.WriteLine("2.Future");

Console.WriteLine("3.Winner");

Console.WriteLine("4.SH");

Console.WriteLine("5.Exciter");

Console.WriteLine("6.Sirius");

Console.WriteLine("7.Nhap mau xe cua ban neu khong co trong bang ");

do

{

Console.Write("What is your number: ");

answer3 = int.Parse(Console.ReadLine());

} while (answer3 > 7 || answer3 < 0);

switch (answer3)

{

case 1: { MauXe = "Air Blade"; break; }

case 2: { MauXe = "Future"; break; }

case 3: { MauXe = "Winner"; break; }

case 4: { MauXe = "SH"; break; }

case 5: { MauXe = "SH"; break; }

case 6: { MauXe = "Sirius"; break; }

case 7:

{

{

Console.Write("Ten mau xe la: ");

MauXe = Console.ReadLine();

} break;

}

}

Console.Clear();

Console.Write("Nhap Gia Tien Cua Xe: ");

GiaTien = Console.ReadLine();

}

public override string ToString()

{

return TenHang + "\t" + ID + "\t" + MauSac + "\t" + MauXe + "\t" + GiaTien + "VND";

}

}

public class XeGanMay : Xe

{

int wheel;

public override void Nhap()

{

base.Nhap();

Console.Write("Xe ban co may banh? ");

wheel = int.Parse(Console.ReadLine());

}

public XeGanMay()

{

wheel = 0;

}

public XeGanMay(int wheel, string TenHang, string ID, string MauSac, string MauXe, string GiaTien)

: base(TenHang, ID, MauSac, MauXe, GiaTien)

{

this.wheel = wheel;

}

public override string ToString()

{

return base.ToString() + "\t" + wheel + " wheels";

}

}

public class XeTayGa : Xe

{

int kinh;

public override void Nhap()

{

base.Nhap();

Console.Write("Xe co may guong chieu hau? ");

kinh = int.Parse(Console.ReadLine());

}

public XeTayGa()

{

kinh = 0;

}

public XeTayGa(int kinh, string TenHang, string ID, string MauSac, string MauXe, string GiaTien)

: base(TenHang, ID, MauSac, MauXe, GiaTien)

{

this.kinh = kinh;

}

public override string ToString()

{

return base.ToString()+"\t"+kinh+ " kinh";

}

}

public class XeMoTo : Xe

{

int pk;

public override void Nhap()

{

base.Nhap();

Console.Write("Nhap phan khoi xe (cc)? ");

pk = int.Parse(Console.ReadLine());

}

public XeMoTo()

{

pk = 0;

}

public XeMoTo(int pk, string TenHang, string ID, string MauSac, string MauXe, string GiaTien)

: base(TenHang, ID, MauSac, MauXe, GiaTien)

{

this.pk = pk;

}

public override string ToString()

{

return base.ToString() +"\t"+ pk+"cc";

}

}

public class QLXE

{

public int n, i;

private string k;

List<Xe> list = new List<Xe>();

public void Add()

{

do

{

Xe x = new Xe();

int ans;

Console.WriteLine("1.Xe Gan May");

Console.WriteLine("2.Xe Tay Ga");

Console.WriteLine("3.Xe Mo to");

do

{

Console.Write("Ban Muon Chon Loai Xe Nao? ");

ans = int.Parse(Console.ReadLine());

} while (n > 4 || n < 0);

switch (ans)

{

case 1: { x = new XeGanMay(); break; }

case 2: { x = new XeTayGa(); break; }

case 3: { x = new XeMoTo(); break; }

}

Console.Clear();

x.Nhap();

list.Add(x);

Console.Clear();

Console.Write("Muon nhap tiep hay khong [Yes/No] ");

k = Console.ReadLine().ToUpper();

} while (k == "YES");

Console.Clear();

}

public void Remove()

{

do

{

string ans;

Console.Write("Nhap ID Muon Xoa: ");

ans = Console.ReadLine();

for (int i = 0; i < list.Count; i++)

{

if (list[i].ID == ans)

list.Remove(list[i]);

}

Console.Write("Muon xoa tiep hay khong [Yes/No] ");

k = Console.ReadLine().ToUpper();

} while (k == "YES");

Console.Clear();

}

public void Index()

{

do

{

string ans;

Console.Write("Nhap ID Muon Tim: ");

ans = Console.ReadLine();

foreach (Xe x in list)

{

if (ans == x.ID)

Console.Write(x);

}

Console.Write("\nMuon tim tiep hay khong [Yes/No] ");

k = Console.ReadLine().ToUpper();

} while (k == "YES");

}

public void Write()

{

FileStream fs = new FileStream("D:\\Xe.txt", FileMode.Append, FileAccess.Write);//Append dung de ghi tiep trong file

StreamWriter sw = new StreamWriter(fs);

foreach (Xe x in list)

{

Console.ReadLine();

sw.WriteLine(x);

}

sw.Flush();

sw.Close();

fs.Close();

}

public void Read()

{

FileStream fs = new FileStream("D:\\Xe.txt", FileMode.Open,FileAccess.Read);

StreamReader sr = new StreamReader(fs);

string text = sr.ReadToEnd();

while (text != null)

{

Console.Write(text);

text = sr.ReadLine();

}

sr.Close();

fs.Close();

Console.ReadLine();

}

public void XuatDS()

{

Console.Clear();

//Write();

list.Sort(delegate(Xe x1, Xe x2) { return x1.TenHang.CompareTo(x2.TenHang); });//sap xep theo ten NSX

Console.WriteLine("\tBang Thong Tin Cu The");

foreach (Xe x in list)

//Console.WriteLine("Ten Hang la: {0}" + "\nMa so khung la: {1}" + ", mau sac la: {2}" + ", mau xe la: {3}" + ", gia tien la: {4}", x.TenHang,x.ID,x.MauSac,x.MauXe,x.GiaTien);

Console.WriteLine(x);

//Console.Clear();

}

}

class Program

{

static void Main(string[] args)

{

QLXE ql = new QLXE();

Console.Write("1.Thong tin chi tiet");

Console.Write("\n2.Thong tin xe da ban");

Console.Write("\n-->Ban muon xem thong tin nao? ");

int chon = int.Parse(Console.ReadLine());

switch (chon)

{

case 1:

{

Console.Write("\t\tBang thong tin\n");

ql.Read();

string kq;

do

{

Console.Write("1.Them thong tin");

Console.Write("\n2.Tim thong tin");

Console.Write("\n3.Xoa thong tin");

Console.Write("\n-->Which one do you want to choose ");

int key = int.Parse(Console.ReadLine());

Console.Clear();

switch (key)

{

case 1:

{

//Console.Write("\t\tBang thong tin\n");

//ql.Read();

ql.Add();

Console.Write("\t\tXe ban da nhap la\n");

ql.XuatDS();

ql.Write();

//ql.Read();

break;

}

case 2:

{

Console.Write("\t\tBang thong tin\n");

ql.Read();

ql.Index();

ql.XuatDS();

break;

}

case 3:

{

Console.Write("\t\tBang thong tin\n");

ql.Read();

ql.Remove();

ql.Write(); break;

}

}

//ql.Read();

Console.Write("Muon tiep hay khong [Yes/No] ");

kq = Console.ReadLine().ToUpper();

} while (kq == "YES");

} break;

case 2: { Console.Write("Hien tai thong tin chua hoat dong...."); } break;

}

}

}

}

//http://diendan.congdongcviet.com/threads/t61021::cach-search-delete-update-du-lieu-trong-csharp.cpp