PRODUCT.CS

private int id;

private string name;

private decimal price;

private int stock;

public int Id { get; set; }

public string Name { get; set; }

public decimal Price { get; set; }

public int Stock { get; set; }

DISPLAY.CS

class Display

{

private int closeOperationId = 7;

private ProductBusiness productBusiness = new ProductBusiness();

public Display()

{

Input();

}

private void ShowMenu()

{

Console.WriteLine(new string('-', 40));

Console.WriteLine(new string(' ', 18) + "MENU" + new string(' ', 18));

Console.WriteLine(new string('-', 40));

Console.WriteLine("1. List all entries");

Console.WriteLine("2. Add new entry");

Console.WriteLine("3. Update entry");

Console.WriteLine("4. Fetch entry by ID");

Console.WriteLine("5. Delete entry by ID");

Console.WriteLine("6. Sell");

Console.WriteLine("7. Exit");

}

private void Input()

{

var operation = -1;

do

{

ShowMenu();

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

switch (operation)

{

case 1:

ListAll();

break;

case 2:

Add();

break;

case 3:

Update();

break;

case 4:

Fetch();

break;

case 5:

Delete();

break;

case 6:

Sell();

break;

default:

break;

}

} while (operation != closeOperationId);

}

private void Delete()

{

Console.WriteLine("Enter ID to delete: ");

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

productBusiness.Delete(id);

Console.WriteLine("Done.");

}

private void Fetch()

{

Console.WriteLine("Enter ID to fetch: ");

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

Product product = productBusiness.Get(id);

if (product != null)

{

Console.WriteLine(new string('-', 40));

Console.WriteLine("ID: " + product.Id);

Console.WriteLine("Name: " + product.Name);

Console.WriteLine("Price: " + product.Price);

Console.WriteLine("Stock: " + product.Stock);

Console.WriteLine(new string('-', 40));

}

}

private void Update()

{

Console.WriteLine("Enter ID to update: ");

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

Product product = productBusiness.Get(id);

if (product != null)

{

Console.WriteLine("Enter name: ");

product.Name = Console.ReadLine();

Console.WriteLine("Enter price: ");

product.Price = decimal.Parse(Console.ReadLine());

Console.WriteLine("Enter availability: ");

product.Stock = int.Parse(Console.ReadLine());

productBusiness.Update(product);

}

else

{

Console.WriteLine("Product not found!");

}

}

private void Sell()

{

Console.WriteLine("Enter ID to sell: ");

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

Product product = productBusiness.Get(id);

if (product != null)

{

Console.WriteLine("Enter quantity to sell: ");

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

if (q <= product.Stock)

{

product.Stock = product.Stock - q;

Console.WriteLine($"You sold {q} {product.Name}.");

Console.WriteLine($"You now have {product.Stock} {product.Name} left.");

productBusiness.Update(product);

}

else

{

Console.WriteLine("Invalid quantity value!");

}

}

else

{

Console.WriteLine("Product not found!");

}

}

private void Add()

{

Product product = new Product();

Console.WriteLine("Enter name: ");

product.Name = Console.ReadLine();

Console.WriteLine("Enter price: ");

product.Price = decimal.Parse(Console.ReadLine());

Console.WriteLine("Enter availability: ");

product.Stock = int.Parse(Console.ReadLine());

productBusiness.Add(product);

}

private void ListAll()

{

Console.WriteLine(new string('-', 40));

Console.WriteLine(new string(' ', 16) + "PRODUCTS" + new string(' ', 16));

Console.WriteLine(new string('-', 40));

var products = productBusiness.GetAll();

foreach (var item in products)

{

Console.WriteLine("{0} {1} {2} {3}", item.Id, item.Name, item.Price, item.Stock);

}

}