

PROJECT PREFERENCES

Giftz is a shopping store. It's a web based project actually E-Commerce. By Giftz people can buy or give superior products. It's a combine of two-sided user (customer & Admin). Admin manages the store & customer shop on the website.

- Development Platform: ASP.NET & WEB Technology
- Architecture: 3 Layer

The following features have included in this project.

- ❖ Admin
 - Add Item
 - Add Category
 - Add Brand
 - View Item(Edit & Delete Included)
- ❖ Customer
 - View & Browse Products
 - Search product
 - Categorized Product View
 - Registration
 - Login
 - Add-to-Cart
 - View-cart
 - Checkout

User Interface

⇒ Customer

- Home Page/Default Page

GIFTZ

Search by
Item Name
Search
please enter item name inside the textbox

Categories
Smart Phone
Fashion
Decoration
Gift Card

Home Page

Your Shopping Cart
Total Items: 1 Cost: 20000 tk

TEACHER GIFT CARD
STOCK: 0
COLORIZED & WELL FORMAT
15 tk

GOLD PLATED CLOCK
STOCK: 3
SMART ALARM & AWESOME DESIGN
3550 tk

EMBROIDIED SALWAR KAMIZ
STOCK: 9
100% COTTON
2350 tk

play.aspx?category=Smart Phone

- Product Description with ADD TO CART BUTTON

Search by
Item Name
Search
please enter item name inside the textbox

Categories
Smart Phone
Fashion
Decoration
Gift Card

Gold Plated Clock
Item Code: P004
Item Name: Gold Plated Clock
Brand: Arches
Item Description: Smart Alarm & Awesome Design
Stock: 3
Price: 3550 tk

Enter Quantity Add to Cart

Product View With description _Image

3

Activate Windows
Go to Settings to activate

➤ Categories & Search by product name

GIFTZ

Search by

Item Name

Search

please enter item name inside the textbox

Search by product Name

Categories

- Smart Phone
- Fashion
- Decoration
- Gift Card

Categories Search

➤ Shopping Cart View with **DELETE BUTTON & CONTINUE SHOPPING & CHECKOUT**

Search by

Item Name

Search

please enter item name inside the textbox



□
■
■
■

SHOPPING CART							
 Delete	code: P01	Name: OPPO F1	Description: Selfie Expert	Price: 20000	Stock: 9	Category: Smart Phone	Brand: OPPO
 Delete	code: P01	Name: OPPO F1	Description: Selfie Expert	Price: 20000	Stock: 8	Category: Smart Phone	Brand: OPPO
Continue Shopping Checkout							
Shopping Cart							

[Activate Win](#)
[Go to Settings to](#)

➤ Order Details Bind With Login

GIFTZ

Home
Support
LogOut
Register
Contact

 Your Shopping Cart
 Total Items: 2 Cost: 40000 tk

PLEASE FILL THE DETAILS

Full Name	<input type="text" value="Ariful Islam"/>
Address	<input type="text" value="Sukrabad, Dhaka-1215."/>
City	<input type="text" value="Dhaka"/>
State	<input type="text" value="Dhaka"/>
Mobile	<input type="text" value="1773334524"/>
Payment Option	Cash On Delivery ▾
Update & Continue	

[order Processing](#)

[Home](#) | [Support](#) | [My Account](#) | [The Store](#) | [Contact](#)
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➤ Customer Login

The screenshot shows the GIFTZ customer login page. At the top, there's a red header bar with the GIFTZ logo on the left and navigation links for Home, Support, Login, Register, and Contact. On the right, it shows a shopping cart icon with "Your Shopping Cart Total Items: 2 Cost: 40000 tk". Below the header is a light gray form area. It contains fields for "Email" and "Password", each with a blue placeholder text. To the right of the password field is a red ribbon button labeled "LOGIN". Below these fields are two buttons: a blue rounded rectangle labeled "Log In" and a red link labeled "Join Now?". In the bottom right corner of the form area, there's a red-bordered box containing the text "Customer Login". At the very bottom of the page, a thin gray footer bar includes links for Home, Support, My Account, The Store, and Contact, along with the copyright notice "© GIFTZ. All rights reserved".

➤ Customer Registration

The screenshot shows the GIFTZ customer registration page. The layout is similar to the login page, with a red header bar, navigation links, and a shopping cart summary. The main content area is a light gray form with two columns of input fields. The left column contains "User Name", "Email", "Phone No", "Password", "State", and "Address". The right column contains "Full Name", "Nick Name", "Pincode", "Confirm Password", "City", and an empty field. A red ribbon button labeled "SIGN UP" is positioned to the right of the right-hand column. At the bottom of the form, there's a checkbox labeled "I accept terms & Conditions" followed by a blue "Create Account" button. Below the "Create Account" button is a red link labeled "Already Have an Account?". In the bottom right corner of the form area, there's a red-bordered box containing the text "Customer Registration". The footer bar at the bottom includes links for Home, Support, My Account, The Store, and Contact, along with the copyright notice "© GIFTZ. All rights reserved".

➤ Support Pages

GIFTZ

Home Support Login Register Contact Your Shopping Cart
Total Items: 2 Cost: 40000 tk

Search by

Item Name

Search

please enter item name inside the textbox

Categories

- Smart Phone
- Fashion
- Decoration
- Gift Card

How To Order

How To Add Items to Cart

How To Make Payment

Support Page(not updated)

Activate Win
Go to Settings



➤ Contact Page

Search by

Item Name

Search

please enter item name inside the textbox

Categories

- Smart Phone
- Fashion
- Decoration
- Gift Card

GIFTZ
Dhaka, Bangladesh.
Phone: +88-0920
E-mail: giftzStore@gmail.com
Customer Care: 1233



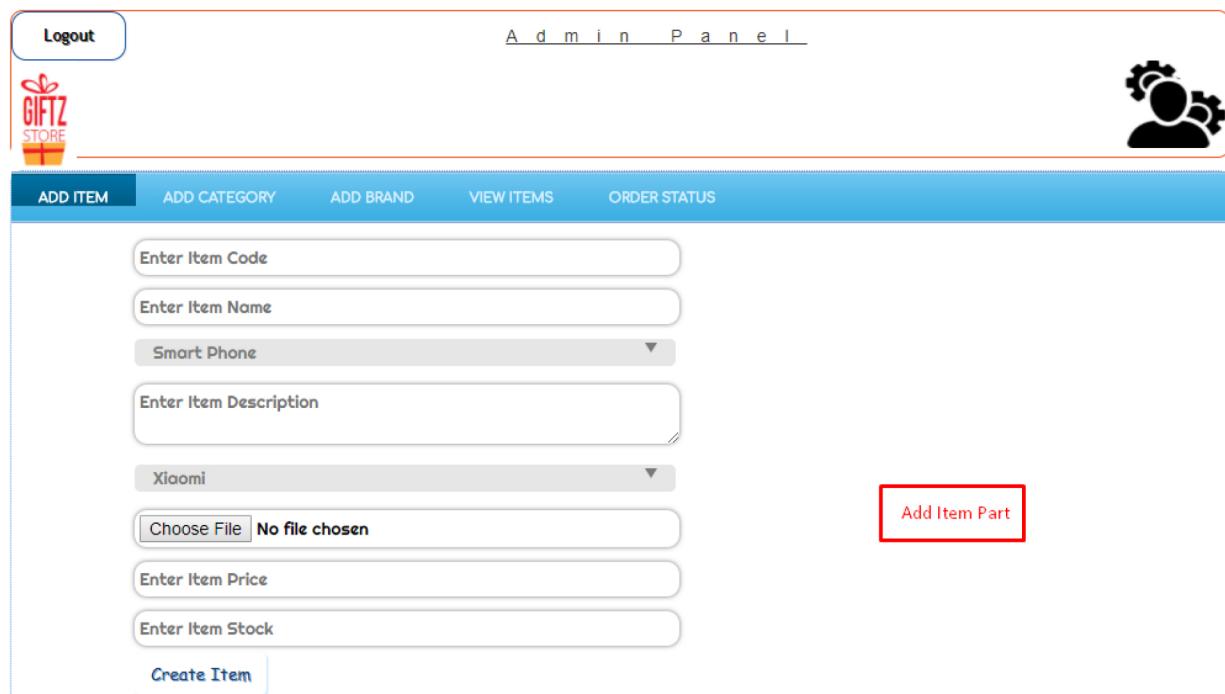
⇒ Admin

- Admin Login



The image shows a login form titled "Admin Login". It features a red ribbon banner with the word "GIFTZ" on it. There are two input fields: "Enter Your Id" and "Enter Your Password", followed by a blue "Login" button. A red circle with the number "6" is positioned in the top right corner of the form.

- Add Item Panel Bind With Category & Brand



The image shows the "Admin Panel" interface for adding items. At the top, there are links for "Logout", "ADD ITEM", "ADD CATEGORY", "ADD BRAND", "VIEW ITEMS", and "ORDER STATUS". The "ADD ITEM" link is highlighted with a blue background. Below these, there are several input fields: "Enter Item Code", "Enter Item Name", a dropdown menu showing "Smart Phone" and "Xiaomi", "Enter Item Description", a file upload field showing "Choose File No file chosen", "Enter Item Price", "Enter Item Stock", and a "Create Item" button. A red box highlights the "Add Item Part" button in the bottom right corner.

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Activate Wind
Go to Settings to a

➤ Add Category Panel

Logout Admin Panel

GIFTZ STORE

ADD ITEM ADD CATEGORY ADD BRAND VIEW ITEMS ORDER STATUS

Enter a Category

Submit

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add category part

➤ Add Brand Panel

Logout Admin Panel

GIFTZ STORE

ADD ITEM ADD CATEGORY ADD BRAND VIEW ITEMS ORDER STATUS

Enter Brand Name

Enter Brand Description

Create Brand

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add brand part

➤ View Item Bind with EDIT & UPDATE

Logout Admin Panel

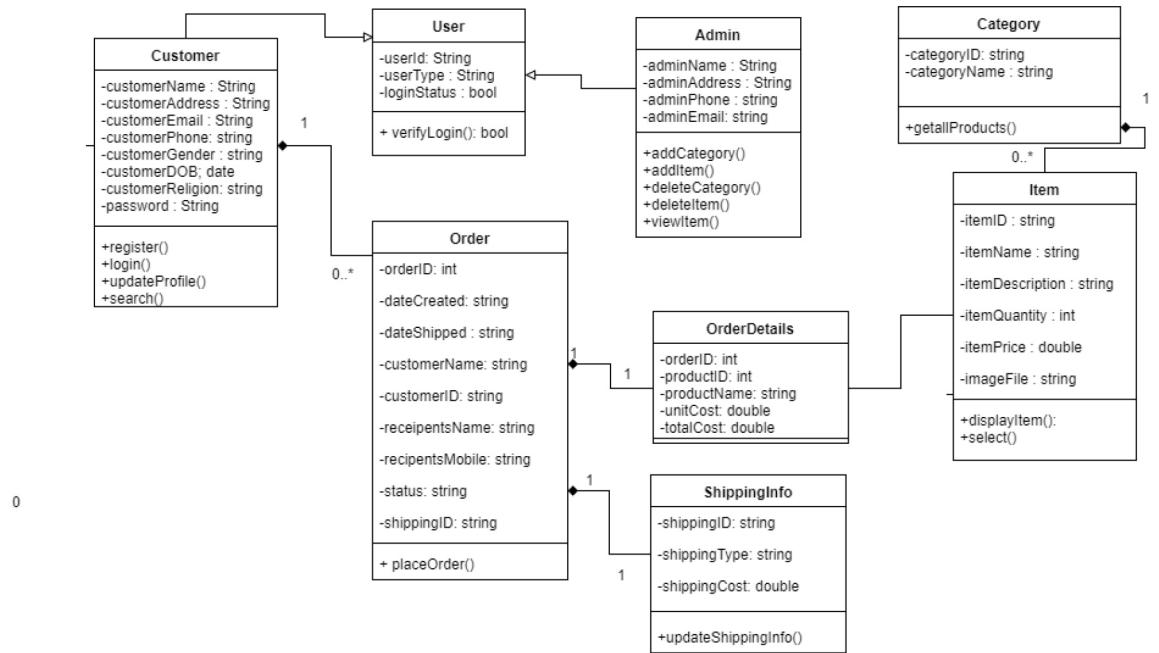
GIFTZ STORE

ADD ITEM ADD CATEGORY ADD BRAND VIEW ITEMS ORDER STATUS

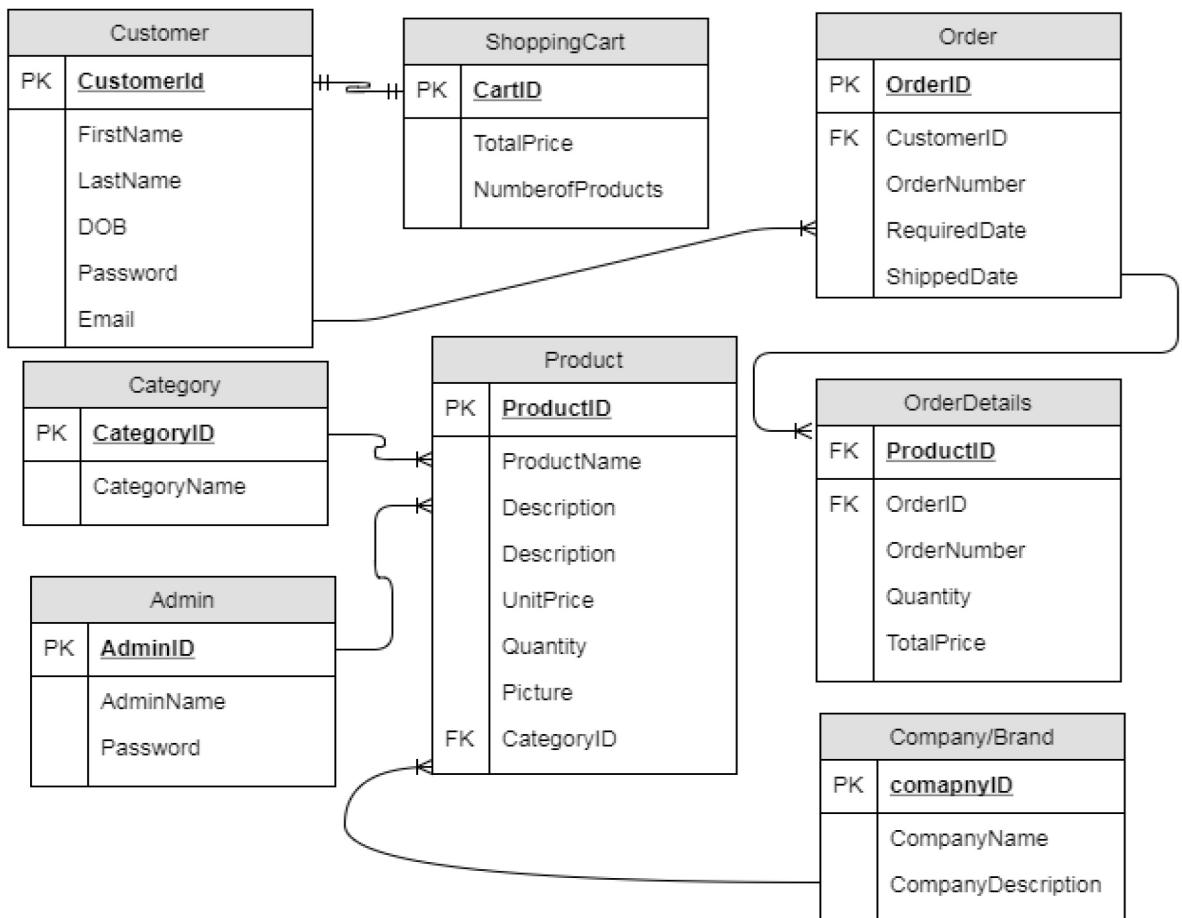
Controls	Item ID	Item Code	Item Name	Item Description	Image Url	Item Price	Item Stock	Category	Brand
Update Cancel	23	P003	Teacher Gift C	Colorized & well format		95	0	Gift Cat	IS La B
Edit	24	P004	Gold Plated Clock	Smart Alarm & Awesome Design	itemImage/gold-plated-clock-gift-item-500x500.jpg	3550	13	Decoration	Arches
Edit	26	P006	Embroided Salwar Kamiz	100% Cotton	itemImage/545.jpg	2350	12	Fashion	Aarong
Edit	27	P007	Samsung Galaxy 8	latest Smart Phone	itemImage/samsung.jpg	80000	10	Smart Phone	Samsung Mobile
Edit	30	P01	OPPO F1	Selfie Expert	itemImage/oppo-f1-plus-pakistan-priceoye.jpg	20000	13	Smart Phone	OPPO

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Class Diagram



Schema Diagram for DB



OOP Structure

➤ Encapsulation

```

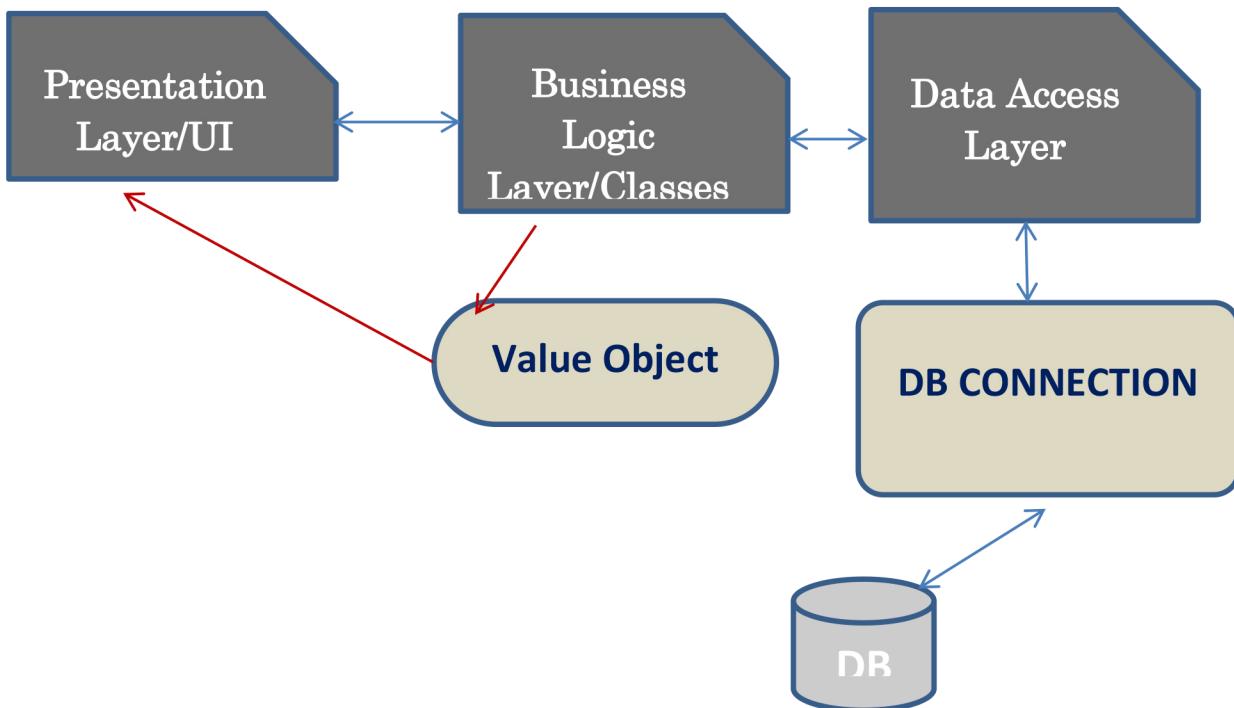
 9  namespace E_Commerce.BusinessAccess
10 {
11     public class Customer
12     {
13         public string fullName { get; set; }
14         public string userName { get; set; }
15         public string nickname { get; set; }
16         public string email { get; set; }
17         public int phone { get; set; }
18         public int pincode { get; set; }
19         public string pass { get; set; }
20
21         public string state { get; set; }
22         public string city { get; set; }
23         public string address { get; set; }
24
25
26
27         public void AddCustomer()
28         {
29
30             SqlParameter[] parameter = new SqlParameter[10];
31
32             parameter[0] = DataAccess.DataLayer.AddParameter("@userName", userName, System.Data.SqlDbType.VarChar, 30);
33
34             parameter[1] = DataAccess.DataLayer.AddParameter("@fullName", fullName, System.Data.SqlDbType.VarChar, 20);
35
36             parameter[2] = DataAccess.DataLayer.AddParameter("@email", email, System.Data.SqlDbType.VarChar, 100);
37
38             parameter[3] = DataAccess.DataLayer.AddParameter("@nickName", nickname, System.Data.SqlDbType.VarChar, 20);
39
40             parameter[4] = DataAccess.DataLayer.AddParameter("@phone", phone, System.Data.SqlDbType.Int, 100);
41
        }
    }

```

The screenshot shows the Microsoft Visual Studio interface with the 'Customer.cs' file open in the code editor. The code defines a class named 'Customer' with various properties and a method 'AddCustomer'. A callout box with the text 'Encapsulation' points to the class declaration.

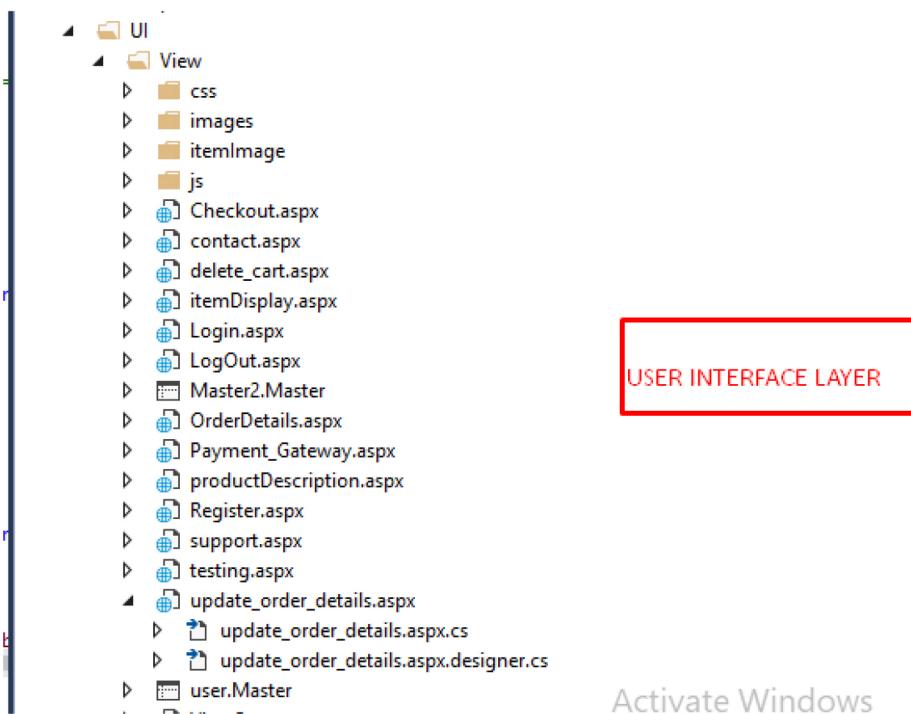
3 Layer Architecture

⇒ Overview of 3 Layers



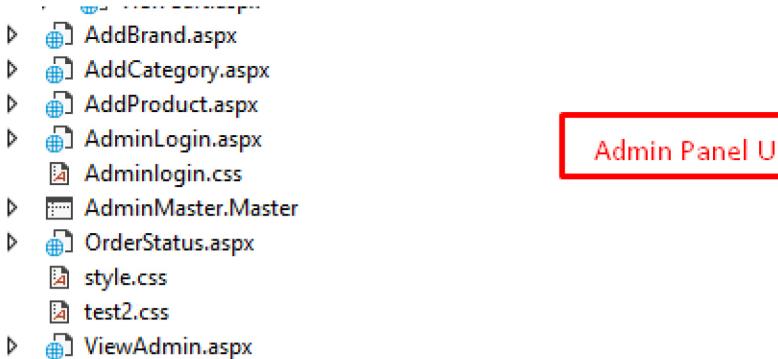
⇒ Presentation/UI Layer Of Giftz-Commerce

↳ Customer UI

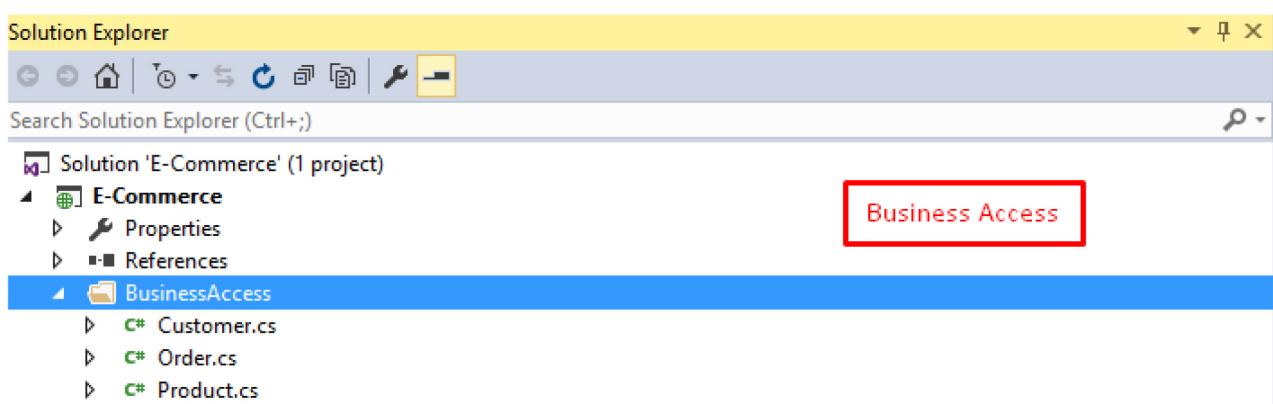


Activate Windows

↳ Admin UI



⇒ Business Access Layer



Customer class

The screenshot shows the Microsoft Visual Studio interface with the title bar "E-Commerce - Microsoft Visual Studio". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, Help. The toolbar has standard icons like Save, Undo, Redo, Cut, Copy, Paste, Find, etc. The status bar at the bottom shows "Ready", "Ln 15", "Col 45", "Ch 45", "INS". The main code editor window displays "Customer.cs" with the following code:

```

9
10  namespace E_Commerce.BusinessAccess
11  {
12      public class Customer
13      {
14          public string fullName { get; set; }
15          public string userName { get; set; }
16          public string nickName { get; set; }
17          public string email { get; set; }
18          public int phone { get; set; }
19          public int pincode { get; set; }
20          public string pass { get; set; }
21
22          public string state { get; set; }
23          public string city { get; set; }
24          public string address { get; set; }
25
26
27          public void AddCustomer()
28          {
29
30              SqlParameter[] parameter = new SqlParameter[10];
31
32              parameter[0] = DataAccess.DataLayer.AddParameter("@userName", userName, System.Data.SqlDbType.VarChar, 30);
33
34              parameter[1] = DataAccess.DataLayer.AddParameter("@fullName", fullName, System.Data.SqlDbType.VarChar, 20);
35
36              parameter[2] = DataAccess.DataLayer.AddParameter("@email", email, System.Data.SqlDbType.VarChar, 100);
37
38              parameter[3] = DataAccess.DataLayer.AddParameter("@nickName", nickName, System.Data.SqlDbType.VarChar, 20);
39
40              parameter[4] = DataAccess.DataLayer.AddParameter("@phone", phone, System.Data.SqlDbType.Int, 100);
41
        }
    }

```

The code implements a Customer class with properties for fullName, userName, nickName, email, phone, pincode, state, city, and address. It also contains an AddCustomer() method that takes an array of SqlParameter parameters to add a customer to the database using the DataAccess.DataLayer.

Product Class

The screenshot shows the Microsoft Visual Studio interface with the title bar "E-Commerce - Microsoft Visual Studio". The menu bar includes File, Edit, View, Project, Build, Debug, Team, Tools, Test, Analyze, Window, Help. The toolbar has standard icons like Save, Undo, Redo, Cut, Copy, Paste, Find, etc. The status bar at the bottom shows "Ready", "Ln 13", "Col 6", "Ch 6", "INS". The main code editor window displays "Products.cs" with the following code:

```

1
2  using System;
3  using System.Collections.Generic;
4  using System.Linq;
5  using System.Web;
6  using System.Data.SqlClient;
7  using System.Configuration;
8  using E_Commerce.DataAccess;
9
10 namespace E_Commerce.BusinessAccess
11 {
12     public class Product
13     {
14         public string categoryName { get; set; }
15         public int categoryId { get; set; }
16         public string getCategory { get; set; }
17
18         public string brandName { get; set; }
19         public string brandDescription { get; set; }
20         public int brandID;
21         public string getBrand { get; set; }
22
23         public string itemID {
24             get; set; }
25         public string itemCode { get; set; }
26         public string itemName { get; set; }
27         public string itemDescription { get; set; }
28         public string itemImage { get; set; }
29         public int itemStock { get; set; }
30         public int itemPrice { get; set; }
31
32
33
        }
    }

```

The code implements a Product class with properties for categoryName, categoryId, brandName, brandDescription, brandID, itemID, itemCode, itemName, itemDescription, itemImage, itemStock, and itemPrice. The class is part of the E_Commerce.BusinessAccess namespace.

E-Commerce - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Quick Launch (Ctrl+Q) A.m. Arif AA

Server Explorer Toolbox Solution Explorer Properties Team Explorer Class View

Product.cs

```

34     public void AddNewCategory()
35     {
36         SqlParameter[] parameter = new SqlParameter[1];
37         Parameter[0] = DataAccess.DataLayer.AddInParameter("@CategoryName", categoryName, System.Data.SqlDbType.VarChar, 200);
38         DataTable dt = DataAccess.DataLayer.ExecuteDTByProcedure("SP_AddNewCategory", parameter);
39     }
40
41     public void AddNewBrand()
42     {
43         SqlParameter[] parameter = new SqlParameter[2];
44         Parameter[0] = DataAccess.DataLayer.AddInParameter("@BrandName", brandName, System.Data.SqlDbType.VarChar, 200);
45         Parameter[1] = DataAccess.DataLayer.AddInParameter("@BrandDescription", brandDescription, System.Data.SqlDbType.VarChar, 200);
46         DataTable dt = DataAccess.DataLayer.ExecuteDTByProcedure("SP_AddNewBrand", parameter);
47     }
48
49
50     public void AddNewProducts()
51     {
52         SqlParameter[] parameter = new SqlParameter[8];
53         // parameter[0] = DataAccess.DataLayer.AddInParameter("@ItemID", itemID, System.Data.SqlDbType.VarChar, 10);
54         Parameter[0] = DataAccess.DataLayer.AddInParameter("@ItemCode", itemCode, System.Data.SqlDbType.VarChar, 200);
55         Parameter[1] = DataAccess.DataLayer.AddInParameter("@ItemName", itemName, System.Data.SqlDbType.VarChar, 500);
56         Parameter[2] = DataAccess.DataLayer.AddInParameter("@ItemDescription", itemDescription, System.Data.SqlDbType.VarChar, 500);
57         Parameter[3] = DataAccess.DataLayer.AddInParameter("@ItemImage", itemImage, System.Data.SqlDbType.VarChar, 1000);
58         Parameter[4] = DataAccess.DataLayer.AddInParameter("@ItemPrice", itemPrice, System.Data.SqlDbType.Int, 100);
59         Parameter[5] = DataAccess.DataLayer.AddInParameter("@ItemStock", itemStock, System.Data.SqlDbType.Int, 100);
60         Parameter[6] = DataAccess.DataLayer.AddInParameter("@CategoryName", getCategory, System.Data.SqlDbType.VarChar, 100);
61         Parameter[7] = DataAccess.DataLayer.AddInParameter("@BrandName", getBrand, System.Data.SqlDbType.VarChar, 100);
62
63
64         DataTable dt = DataAccess.DataLayer.ExecuteDTByProcedure("SP_AddItem", parameter);
65     }
66

```

Product class continue

Activate Windows Go to Settings to activate Windows.

Error List Output Data Tools Operations Ready Ln 13 Col 6 Ch 6 INS Publish

Order Class

E-Commerce - Microsoft Visual Studio

File Edit View Project Build Debug Team Tools Test Analyze Window Help

Quick Launch (Ctrl+Q) A.m. Arif AA

Server Explorer Toolbox Solution Explorer Properties Team Explorer Class View

Order.cs

```

1  using System;
2  using System.Collections.Generic;
3  using System.Linq;
4  using System.Web;
5  using System.Data;
6  using System.Data.SqlClient;
7  using E_Commerce.DataAccess;
8
9  namespace E_Commerce.BusinessAccess
10 {
11     public class Order
12     {
13         public int order_id { get; set; }
14         public string fullname { get; set; }
15         public string city { get; set; }
16         public int phone { get; set; }
17         public string state { get; set; }
18         public string Address { get; set; }
19         public string paymentOption { get; set; }
20
21
22         public void AddOrder()
23         {
24
25             SqlParameter[] parameter = new SqlParameter[7];
26
27             parameter[0] = DataAccess.DataLayer.AddInParameter("@order_id", order_id, System.Data.SqlDbType.Int, 30);
28             parameter[1] = DataAccess.DataLayer.AddInParameter("@fullname", fullname, System.Data.SqlDbType.VarChar, 30);
29             parameter[2] = DataAccess.DataLayer.AddInParameter("@Address", Address, System.Data.SqlDbType.VarChar, 300);
30             parameter[3] = DataAccess.DataLayer.AddInParameter("@city", city, System.Data.SqlDbType.VarChar, 30);
31             parameter[4] = DataAccess.DataLayer.AddInParameter("@state", state, System.Data.SqlDbType.VarChar, 30);
32             parameter[5] = DataAccess.DataLayer.AddInParameter("@phone", phone, System.Data.SqlDbType.Int, 30);
33             parameter[6] = DataAccess.DataLayer.AddInParameter("@paymentOption", paymentOption, System.Data.SqlDbType.VarChar, 30);

```

order class

Activate Windows Go to Settings to activate Windows.

Error List Output Data Tools Operations Ready Ln 15 Col 41 Ch 41 INS Publish

⇒ Data Access Layer

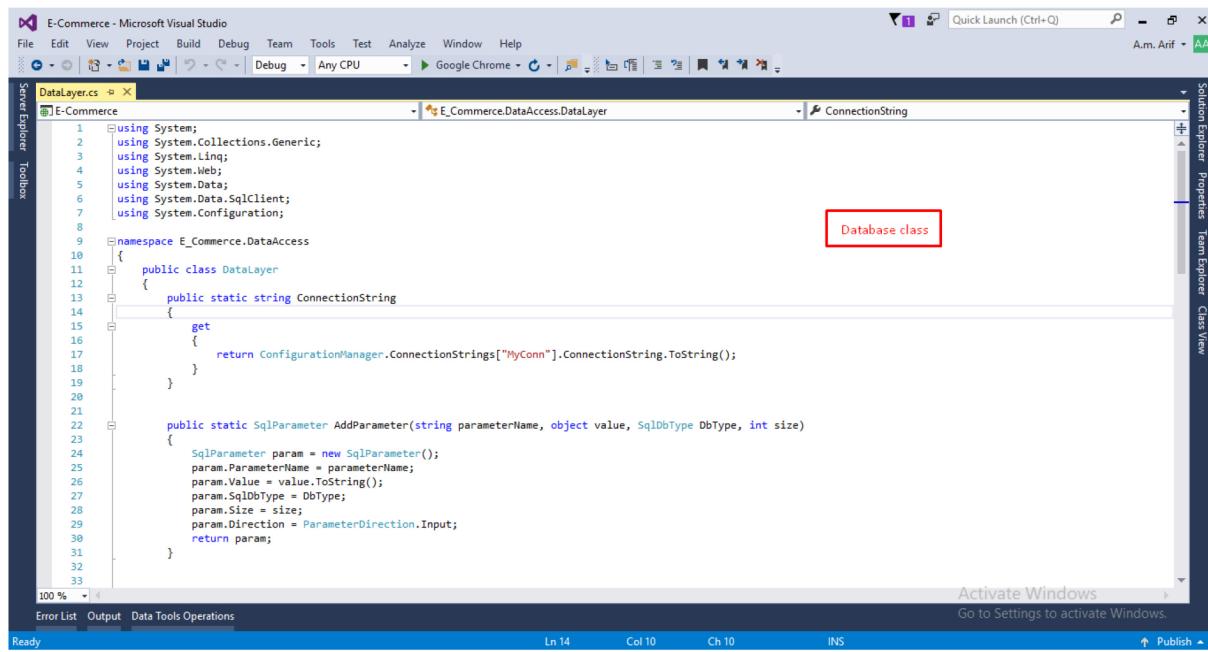
Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'E-Commerce' (1 project)

- E-Commerce**
 - Properties
 - References
 - BusinessAccess
 - DataAccess**
- DataLayer.cs**

Data Access Layer



```

E-Commerce - Microsoft Visual Studio
File Edit View Project Build Debug Team Tools Test Analyze Window Help
Debug Any CPU Google Chrome
ConnectionString

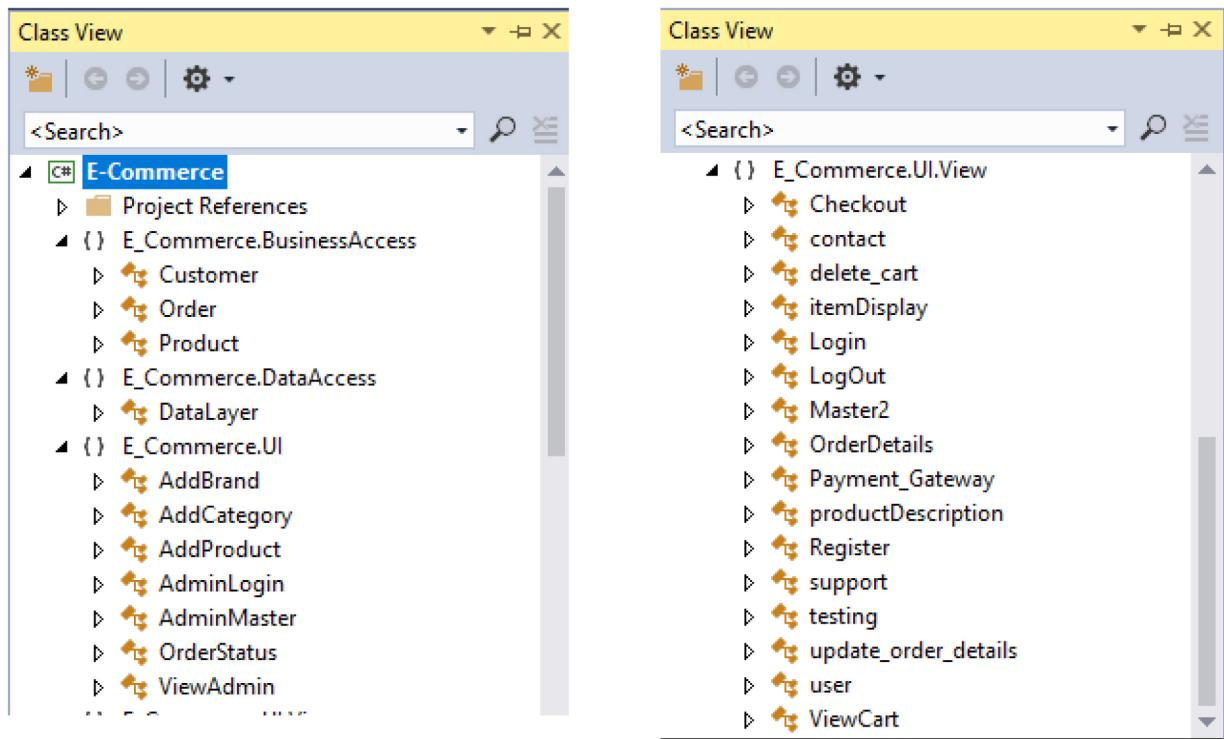
DataLayer.cs
E-Commerce
E_Commerce.DataAccess.DataLayer
ConnectionString

1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System.Web;
5 using System.Data;
6 using System.Data.SqlClient;
7 using System.Configuration;
8
9 namespace E_Commerce.DataAccess
10 {
11     public class DataLayer
12     {
13         public static string ConnectionString
14         {
15             get
16             {
17                 return ConfigurationManager.ConnectionStrings["MyConn"].ConnectionString.ToString();
18             }
19         }
20
21
22         public static SqlParameter AddParameter(string parameterName, object value, SqlDbType DbType, int size)
23         {
24             SqlParameter param = new SqlParameter();
25             param.ParameterName = parameterName;
26             param.Value = value.ToString();
27             param.SqlDbType = DbType;
28             param.Size = size;
29             param.Direction = ParameterDirection.Input;
30             return param;
31         }
32
33     }
34
35 }

100 %
Error List Output Data Tools Operations Ln 14 Col 10 Ch 10 INS Ready Activate Windows Go to Settings to activate Windows. Publish

```

⌚ Overview of all classes including web forms



Class View (Left):

- Project References
- E_Commerce.BusinessAccess
 - Customer
 - Order
 - Product
- E_Commerce.DataAccess
 - DataLayer
- E_Commerce.UI
 - AddBrand
 - AddCategory
 - AddProduct
 - AdminLogin
 - AdminMaster
 - OrderStatus
 - ViewAdmin

Class View (Right):

- Checkout
- contact
- delete_cart
- itemDisplay
- Login
- LogOut
- Master2
- OrderDetails
- Payment_Gateway
- productDescription
- Register
- support
- testing
- update_order_details
- user
- ViewCart

Future Objectives

Customer

- Order Details- Customer can view their orders as well as observe.
- Reviews: Customer can review their opinion about products & queries.
- Profile: Customer will have their own profile with update.

Admin

- Order Status- Admin can view customer orders & update order status.
- Stock Alert: Admin will get an alarm of item while its quantity is near at out of stock.