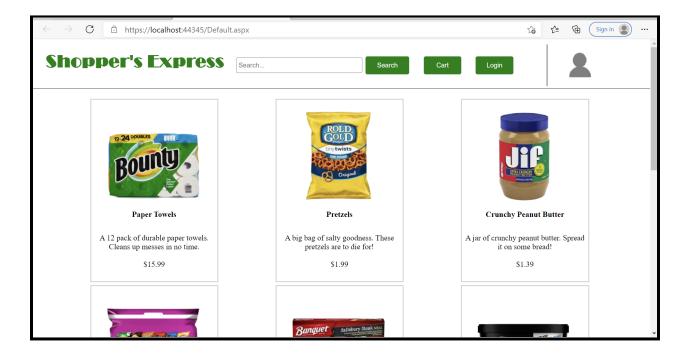
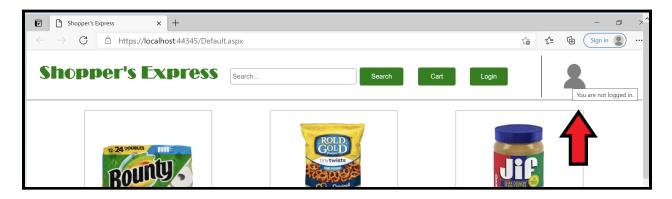
Shopper's Express

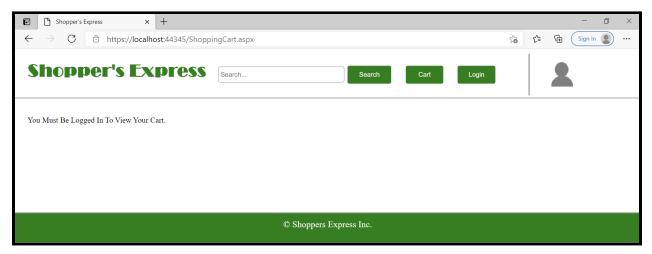


Our website is called Shopper's Express. We are framing it as a website for a wholesale grocery store like Sam's Club or Costco in which people who purchase memberships get a discounted price on goods.

Anybody can view the website to see what's in stock, but in order to add things to their online shopping carts, they must have a membership. For example, when you hover over the face icon in the top-right corner of the page, you will see a tooltip pop up that states you are not logged in.



So, when you try to access your online shopping cart by clicking the "Cart" button, you will see this page.



You must be logged in to view your shopping cart.

Whenever you are on the page Default.aspx, you will see 9 products that the store offers. These products are **not** hard-coded onto this web page. These products are dynamically placed onto the page via SQL queries to our database, which bind database data to objects known as DataList's.

```
Oreferences
protected void Page_Load(object sender, EventArgs e)

{

//Citing a helpful source: https://www.youtube.com/watch?v=BnDC8gMGRCI

//Pulling connection string from our web.config file
string connStr = ConfigurationManager.ConnectionStrings["StoreConnection"].ConnectionString;

//Creating a new Sql connection to our database specified by the connection string
System.Data.SqlClient.SqlConnection connection = new System.Data.SqlClient.SqlConnection(connStr);

//Opening the connection for database access
connection.Open();

//Creating a new sql command
System.Data.SqlClient.SqlCommand command = connection.CreateCommand();
command.CommandType = System.Data.CommandType.Text;

//Query the database for products whose product Id's are less than 4,
//that should return 3 rows from our database. We will show these 3 rows as 1 column
//on our web page.
command.CommandText = "SELECT * FROM [Product] WHERE [PRODUCT_IO] < 4";

//Execute this query...might not need this because of DataAdapter...but website works and don't want
command.ExecuteNonQuery();

//DataList uses Datatable. Datatable is like the middle man between database table and dataList object
//The queried rows are placed in the dataTable, which is used to populate our data list.
System.Data.DataTable table = new System.Data.DataTable();
```

Default.aspx Code Behind

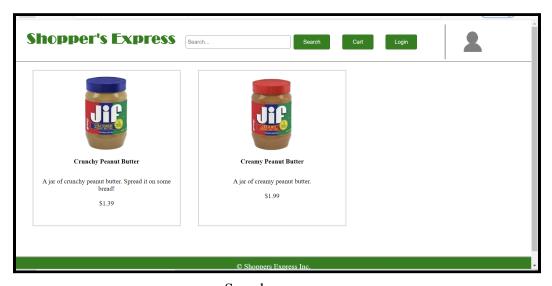
Whenever you click on one of the product images on Default.aspx, you will be taken to this page.



ProductDescriptionPage.aspx

This page is used to display the product descriptions and "add to cart" features for all products that we are selling. This is accomplished by using a Session object that holds the product's unique ID. The Session object is created when the user clicks on a product's image in Default.aspx.

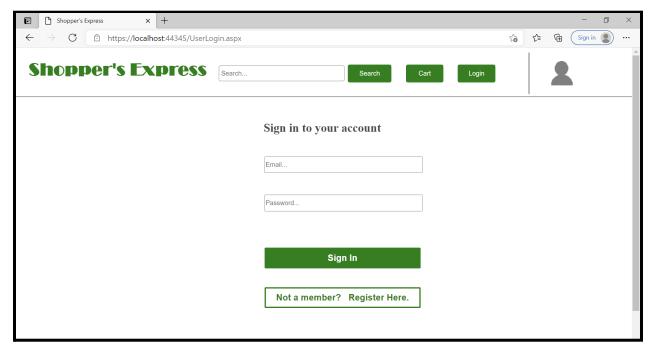
We also have a search bar that allows users to look for products. For example, typing the word "peanut" into the search bar will yield this page:



Search.aspx

Whenever we click the "Search" button, a Session object is created that contains the inputted search string. Within the Page_Load() function in Search.aspx.cs, we retrieve this search string from the Session object and perform an SQL query to the database. Only the product names are searched for. So, since we have 2 products in our database that have "peanut" in their names, these 2 products are the only ones that are displayed.

Naturally, logging in also connects to the database. Here is our Login page:



UserLogin.aspx

You can access this page by clicking the "Login" button at the top of the website. Validation checks have been implemented on this page. For example, if we just click the "Sign In" button without entering any information, we get this:

Email		
Password		
**Please Enter : **Please Enter :		
	Sign In	

Regex Expression Validation has also been implemented for the Email textbox. Once the user enters a valid email and password and clicks the "Sign In" button, the database will be queried to see if the inputted email and password exist in the database. If they do not exist, then an error message will be displayed. If they do exist, then the user will be able to log in.

You can log in as either a Shopper's Express member on this page or an admin. For example, try these two accounts:

1. Member account

a. Email: Jerome123@gmail.com

b. Password: password

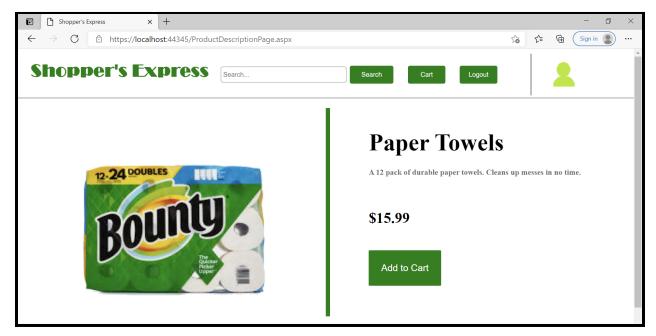
2. Admin account

a. Email: Admin@gmail.com

b. Password: admin5

Account information is stored in Cookies that expire in 10 minutes if you do not log out before then.

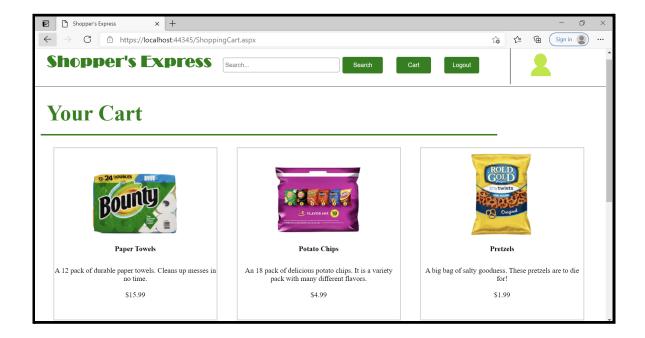
Logging in as a **Member** will allow you to add things to your cart and purchase items.

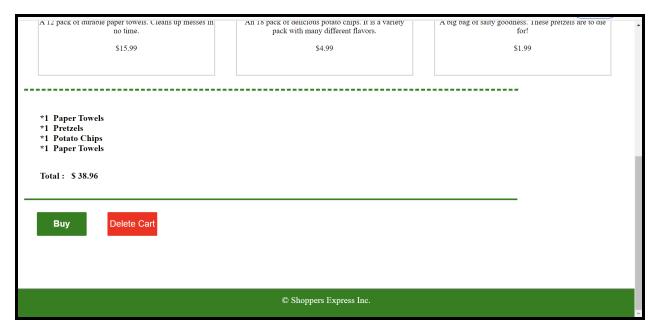


Click the "Add to Cart" button to add to your cart.

Let's say we add these items to our cart, in this order: Paper Towels, Pretzels, Potato Chips, Paper Towels.

Then, clicking the "Cart" button at the top of the website will bring us to this page:

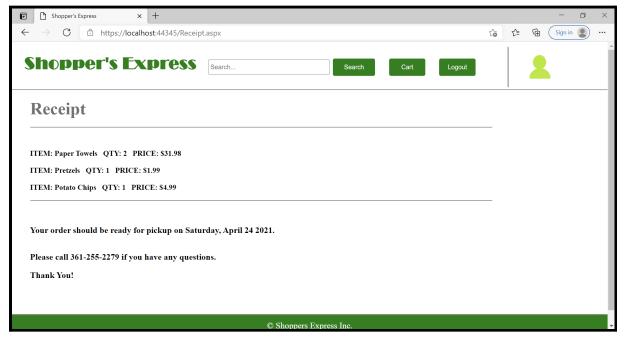




ShoppingCart.aspx

As we can see, our cart is displayed on the page and we can see the total price of our order. All of this information is stored using Cookies that expire 10 minutes after the last time you added an item to the cart.

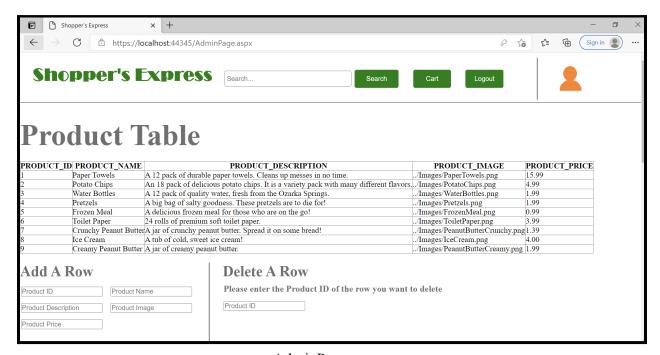
Clicking the "Delete Cart" button will delete the cookies. Clicking the "Buy" button will send you to the Receipt page:



Receipt.aspx

As we can see, we bought a quantity of 2 paper towels, 1 bag of pretzels, and 1 bag of potato chips. We can pick our items up from the store's physical location on Saturday, April 24 2021. This date is **not** hard coded, but rather is displayed using a DateTime object in the code behind.

Logging in as an **Admin** will bring you to AdminPage.aspx



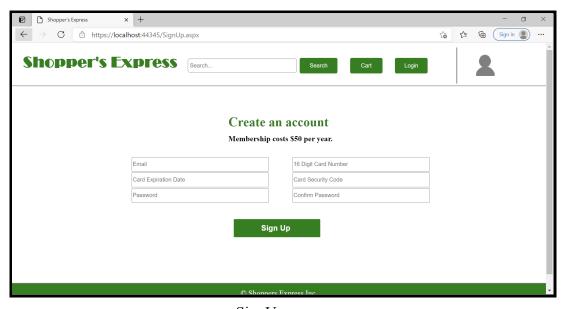
AdminPage.aspx

On this page, we use GridView objects to display 2 tables in our database: The Product table and the User table. The User table holds all of our members' information. You can add and delete rows from our database tables on this page. Validation checks have been implemented for the text boxes.

Finally, on our Login page, you can register to become a member:

Shopper's Express × +				-	Ō	×
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Sig	gn in to your account					
Ema	nail					ı
Pas	ssword					
						ı
	Sign In					1
	Not a member? Register Here.					ı
	,					
	© Shoppers Express Inc.					Ţ
		-		42:25	DM	

Clicking this button will bring you to this page:



SignUp.aspx

Membership costs \$50 and lasts for 1 year. Validation checks have been put in place for the textboxes.

- Email must be in a valid email format (example: <u>name@gmail.com</u>)
- Card Number must be a 16-digit card number.

- Expiration Date must be in the form MM/YY (example: 11/22).
- Security Code must be a 3 digit number (example: 777).
- Password and Confirm Password must match.

Once you create a Member account, you must log into that account on UserLogin.aspx.

These are the Internet Programming concepts we used for our project:

- 1. HTML, CSS, and inline Javascript.
- 2. ASP.NET
- 3. Validation Controls
- 4. HTML5 footer
- 5. CSS3 border-radius and vh and vw units.
- 6. SQL Database consisting of 3 tables.
- 7. Master Page
- 8. GridViews and DataLists
- 9. Session Objects and Cookies

Here are the sources for all of our Product Images:

- 1. Frozen Meal
- 2. Ice Cream
- 3. Paper Towels
- 4. Creamy Peanut Butter
- 5. Crunchy Peanut Butter
- 6. Potato Chips
- 7. Pretzels
- 8. Soda
- 9. Toilet Paper
- 10. Water Bottles

We hope you have fun with our website! Thank you!