

Ecommerce's Website

17th June 2023

Order Product

OrderID: 5

ProductID: 1

Quantity: 100

Current Price: 200.0000

Search Product Name: Oak Table

Search Product

ID	Name	Price	Quantity
1	Oak Table	200.0000	100

Current Order

ID	Name	Price	Quantity
1	Oak Table	200.0000	100
4	Oak Chair	100.0000	200

Add to Order **Buy** **Search Product**

Background:

In January of 2023 I was set out to create an ecommerce website that is made with Visual Studio that is connected to a SQL Database. I wanted to create an ecommerce website like Amazon that lets you either sign in as a customer or a staff member, and being able to let customers search up and buy products on it, while having exclusive features that only staff can do such as adding, editing, or deleting products off the database.

Planning Stage:

Before I created the project, I first set out a list of idea for what the website can have which include:

- Being able to add, edit and delete data of customers, staff, and product database
- Customers being able to search and buy products
- Having a cart feature that lets you buy all products at once and not one by one
- Having a search feature for products
- Have a login system to keep accounts secure for customers and especially staff

Initial Sketches:

The image shows hand-drawn sketches of a customer form layout on a whiteboard. The sketches are organized into three main columns. The first column contains labels for form fields: Customer ID, Customer Title, Customer First Name, Customer Surname, Customer House Number, Customer Street, Customer Town, and Search Surname. The second column contains corresponding input boxes. The third column contains a table with five columns: First Name, Surname, Phone Number, Postcode, and Customer ID. The table contains three rows of data: Bob Smith, Bob Smith, and Bob Smith. The sketches are drawn in pencil and are somewhat rough, showing the initial design phase of the website.

Before I started making my website in Visual Studios, I first drew out sketches of each form to create the layout while coming up with each data that will be added to the database and annotated them, so that once it came to creating the database and developing the website on Visual Studio, I will know what to put into the database without having to go back later on if I realise I forgot something, and also make it easier to know what I'm doing with designing the layout in Visual Studio and know how I am going to make the programme work with already knowing how each feature and function will work.

Development Stage:

The image is a screenshot of a web application titled "Customer". It features a form with various input fields for customer information, including Customer ID, Customer Title, Customer First Name, Customer Surname, Customer House Number, Customer Street, Customer Town, Customer Postcode, Customer Telephone Number, Customer Email, Customer Date of Birth, Customer Username, Customer Password, and Customer ID 2. There are also buttons for "Insert Record", "Search Combo", "Edit Record", and "Main Menu". At the bottom, there is a "Search Surname" field and a "Search Surname" button. A table at the bottom right displays the results of the search, showing columns for First Name, Surname, Phone Number, Postcode, and Customer ID. The table contains three rows of data: Bob Smith, Bob Smith, and Bob Smith.

First Name	Surname	Phone Number	Postcode	Customer ID
Bob	Smith	07034291537	BT1 23PT	1
Bob	Smith	07034291537	BT1 23PT	21
Bob	Smith	07034291537	BT1 23PT	29

I implemented all my sketches into Visual Studio to create each layout of each form. In the screenshot above, you can see that the layout of the initial sketch was fully recreated in Visual Studio, and that the data from the SQL database that I made has successfully loaded on it and also display other data from the database in the box on the bottom right that shows the search feature on the bottom left makes all data that has the surname Smith will display in the bottom right box.

Testing Stage:

Customer

Customer ID: 3 Customer Postcode: BT8 5ZPT 13 February 1978

Customer Title: Mr Customer Telephone Number: 07342915393 4

Customer First Name: Paul Customer Email: PaulKnox@gmail.com

Customer Surname: Knox Customer Date of Birth: 13/02/1978 00:00:00

Customer House Number: 70 Customer Username: SuperDad78

Customer Street: Shankill Customer Password: TheDeep

Customer Town: DerryMcCash Customer ID 2: 3

Search Surname: Smith Search Surname

Insert Record Search Combo

Edit Record Main Menu

Search

Firstname	Surname	Phone Number	Postcode	CustomerID
Bob	Smith	07834291537	BT1 23PT	1
Bob	Smith	07834291537	BT1 23PT	21
Bob	Smith	07834291537	BT1 23PT	29

Customer

Customer ID: 3 Customer Postcode: BT8 5ZPT 13 February 1978

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Customer Surname: Knox Customer Date of Birth: 13/02/1978 00:00:00

Customer House Number: 70 Customer Username: SuperDad78

Customer Street: Shankill Customer Password: TheDeep

Customer Town: DerryMcCash Customer ID 2: 3

Search Surname: Smith

Update Record

Are you sure? Are you sure you want to update?

Yes No

Firstname	Surname	Phone Number	Postcode	CustomerID
Bob	Smith	07834291537	BT1 23PT	1
Bob	Smith	07834291537	BT1 23PT	21
Bob	Smith	07834291537	BT1 23PT	29

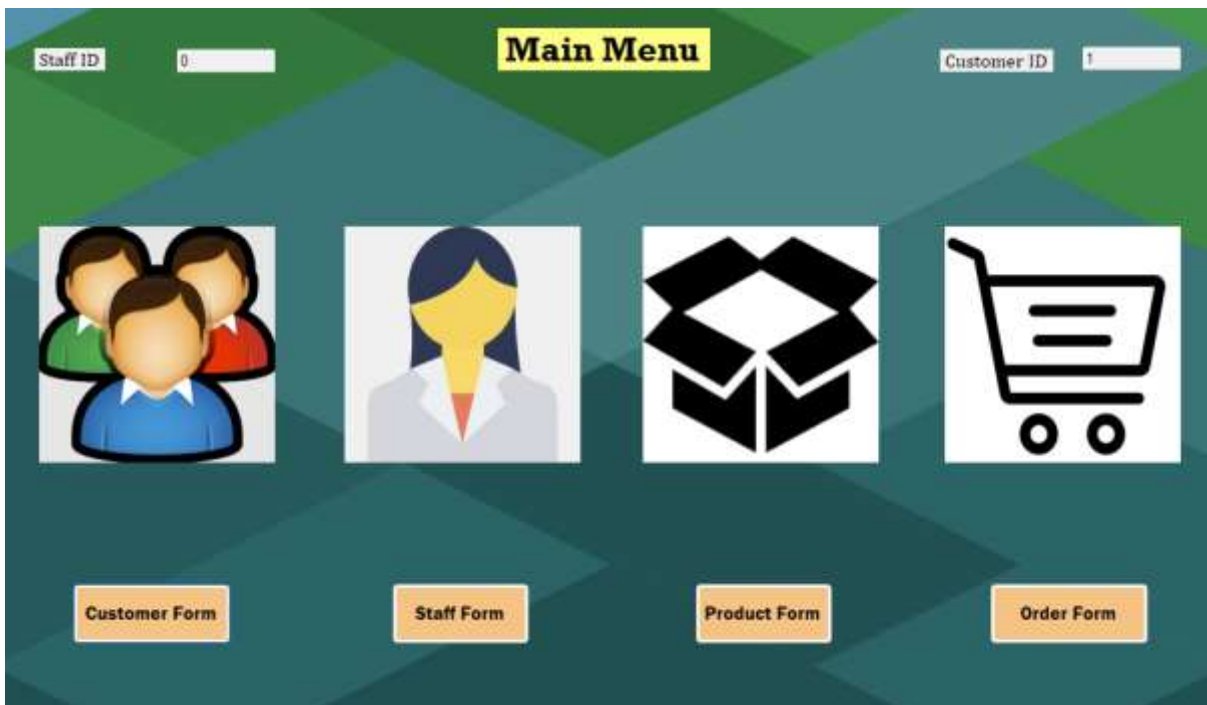
Once I made my website, I started testing it in order to make sure that every feature works and functions as they should, such as in these screenshots, I tested the edit record feature, with this feature when you click the edit button all other buttons go invisible to help make the update button stand out and also help to make it feel like you are making changes to the database. Once you click the update button it gives you the option to either update it or cancel any changes made.

Other Forms:



The screenshot shows a login interface with a teal and blue abstract background. At the top center is a yellow box with the text "Login". Below it are two input fields: "Username" with the value "MrBob123" and "Password" with the value "Apple". At the bottom are two orange buttons: "Staff Login" and "Customer Login".

The login screen lets customers or staff login to their own account, signing into a customers account gives basic features to the website, while a staff account has more features such as being able to make changes / edits to the database such as either adding, editing, or deleting data on it.



The screenshot shows a main menu interface with a teal and blue abstract background. At the top center is a yellow box with the text "Main Menu". On the top left is a "Staff ID" field with the value "0". On the top right is a "Customer ID" field with the value "1". Below these are four icons in white boxes: a group of three people (Customer Form), a person in a lab coat (Staff Form), an open box (Product Form), and a shopping cart (Order Form). At the bottom are four orange buttons: "Customer Form", "Staff Form", "Product Form", and "Order Form".

The main menu screen lets you access the rest of the other forms of the website, and also displays your id on the top left if you are a staff member, or on the top right if you are a customer like it is in this screenshot.

Staff

StaffID	<input type="text" value="1"/>	Staff Postcode	<input type="text" value="BT6 7BPT"/>	StaffID 2	<input type="text"/>
Staff Title	<input type="text" value="Mr"/>	Staff Telephone Number	<input type="text" value="07116639402"/>	<input type="button" value="Search"/>	
Staff First Name	<input type="text" value="Mike"/>	Staff Email	<input type="text" value="Mike@gmail.com"/>	<input type="text" value="07 September 2003"/>	
Staff Surname	<input type="text" value="Clarke"/>	Staff Date of Birth	<input type="text" value="07/09/2003 00:00:00"/>	<input type="text" value="1"/>	
Staff House Number	<input type="text" value="72"/>	Staff Bank Info	<input type="text" value="7777 8888 9999 0000"/>	<input type="button" value="Insert Record"/>	<input type="button" value="Search Combo"/>
Staff Street	<input type="text" value="Potadown Road"/>	Staff Username	<input type="text" value="Boss Mike"/>	<input type="button" value="Edit Records"/>	<input type="button" value="Main Menu"/>
Staff Town	<input type="text" value="Potadown"/>	Staff Password	<input type="text" value="Pizza72"/>		
Surname	<input type="text"/>	<input type="button" value="Search"/>		<input type="text" value="StaffID"/> <input type="text" value="Firstname"/> <input type="text" value="Surname"/> <input type="text" value="Phone Number"/> <input type="text" value="Postcode"/>	

The staff screen displays all the data of the staff from the database and lets staff to search up other staff on the database or lets them make changes to it by either adding, editing, or deleting data on it.

Product

ProductID	<input type="text" value="1"/>	Product Image	<input type="text"/>	<input type="text" value="1"/>
Product Name	<input type="text" value="Oak Table"/>	Product Rating	<input type="text" value="5"/>	<input type="button" value="Search Combo"/>
Product Genre	<input type="text" value="Furniture"/>	Product Price	<input type="text" value="200.0000"/>	<input type="button" value="Insert Record"/>
Product Size	<input type="text" value="Big"/>	Product Quality	<input type="text" value="8/10"/>	<input type="button" value="Edit Record"/>
Product Colour	<input type="text" value="Dark Brown"/>	Product Quantity	<input type="text" value="100"/>	
Product Description	<input type="text" value="A table made from oak wood"/>	ProductID 2	<input type="text"/>	<input type="button" value="Search"/>
				<input type="button" value="Main Menu"/>

The product screen displays all the data of the product from the database and lets customers and staff to search up products on the database, but it only lets staff make changes to it by either adding, editing, or deleting data on it.

