COM519-Project Report

For my Project, I have chosen to do an e-commerce site where you can buy authentic frozen Nepalese foods. This idea inspiration came from my parents who have always wanted to open a little takeaway place but have never gotten around to do so and a result they have been selling our highly popular and high in demand homemade "Momo" (dumplings) to our close family and friends. You may think that this business is not very practical but making good dumplings is quite hard and time consuming and as a result my parents would make lots of dumplings in their days off, freeze it and then sell it. The way you prepare these frozen dumplings are very simple, you take the frozen dumplings and put in any sort of food steamer for about 15 minutes and a make sauce to go with your dumplings.

After the first lockdown hit, my parents were getting more and more call orders every day! I have created this site in hopes to make their lives easier by my making a more efficient way to receive orders and manage stocks rather than writing it down over the phone.

This is the home screen page; it displays all the products that you can view and buy. Once you press "View" on the product of your choice, you are then met with the following page:

Each product has its own landing page, displaying the: description about the product, the price, the status whether it is in stock or not, a dropdown box to choose how much quantity you want to buy and a button to add it to your cart. Here is a screenshot of all the products individual pages:

Chicken Momo

Price: £30

Description: Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via various names today like dim sums and dumplings, in the streets of Nepal, today too they are our very own momos. The commonly identified food item which needs no introduction, the momos are one dish that one has to try when in Nepal. Momo is a dumpling made of all-purpose flour and filled with either meat or vegetables. Apart from the streets, this staple food of the country is a common affair in every household of Kathmandu. The red chilli chutney served alongside is what takes this dish to another level altogether. *1 BAG CONTAINS 50 PIECES

Price:	£30
Status:	In Stock
Qty	1

Add To Cart

Vegetable Momo

Price: £25

Description: Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via various names today like dim sums and dumplings, in the streets of Nepal, today too they are our very own momos. The commonly identified food item which needs no introduction, the momos are one dish that one has to try when in Nepal. Momo is a dumpling made of all-purpose flour and filled with either meat or vegetables. Apart from the streets, this staple food of the country is a common affair in every household of Kathmandu. The red chilli chutney served alongside is what takes this dish to another level altogether. *1 BAG CONTAINS 50 PIECES

Price:	£25
Status:	In Stock
Qty	1

Add To Cart

Sel Roti

Price: £5

Description: Sel Roti is the local Nepalese doughnut which is reddish brown in color with a crispy texture. It is a ring-shaped sweet bread made of rice but it can be customized further for various flavors. *1 BAG CONTAINS 8 PIECES

Price:	£5
Status:	In Stock
Qty	1

Add To Cart

Yomari

Price: £5

Description: Yomari, also called Yamari, is a delicacy of the Newar community in Nepal. It is a steamed dumpling that consists of an external covering of rice flour with sweet fillings such as chaku. Chaku comes from concentrated sugarcane juice. *1 BAG CONTAINS 10 PIECES

Price:	£5
Status:	In Stock
Qty	1

Add To Cart

Once you choose what product and how much quantity you want, you can press "Add To Cart". You are then taken to the "Cart" page, which displays what items you have in your cart, the quantity and the sub-total price of all your products.

As you can see, it accurately displays the total number of items and the total price. The "Cart" button on the nav bar, simultaneously updates and displays the total quantity of items you have in your cart. So, for example: if I were to delete an item from my cart using the red bin delete button, it would update the cart, displaying the correct price and quantity; even on the nav-bar.

Once you are on the cart page, you can either click on "Shop" or the logo "Shrestha's Kitchen" which will take you to the home screen page where you can view all the products and add a different product.

Another functionality of this project is that all the product items are linked using a MongoDB database which means that the stock status and the number of quantities displayed are directly connected to the database. The drop-down quantity will only display the maximum number of quantities that is stated in the database. So, for example in the screenshot below, it only goes up to 10 and if were to the check the MongoDB atlas, the "Qty" displayed should match with "countInStock" field in our corresponding document.

QUERY RESULTS 1-4 OF 4

_id: ObjectId("6004ab73d7294043e86aac27")
name: "Sel Roti"
imageUrl: "https://i.pinimg.com/originals/d2/54/49/d2544997fd07a0733e6c9f87a68f20..."
description: "Sel Roti is the local Nepalese doughnut which is reddish brown in colo..."
price: 5
countInStock: 5
_v: 0

_id: ObjectId("6004ab73d7294043e86aac25")
name: "Chicken Momo"
imageUrl: "https://images.unsplash.com/photo-1534422298391-e4f8c172dddb?ixid=MXwx..."
description: "Without a doubt, the absolute best Nepalese street food in Kathmandu a..."
price: 30
countInStock: 15
__v: 0

_id: ObjectId("6004ab73d7294043e86aac26")
name: "Vegetable Momo"
imageUrl: "https://truffle-assets.imgix.net/b2ea17cb-506_vegetablemomos_dishland2..."
description: "Without a doubt, the absolute best Nepalese street food in Kathmandu a..."
price: 25
countInStock: 10
_v: 0

If I were to change the value of the "countInStock" in our database, it should correctly reflect on our site. For example: I am going to the change the "countInStock" for the "Chicken Momo" from **15 to 0**.

```
1    _id: ObjectId("6004ab73d7294043e86aac25")
2    name  : "Chicken Momo  "
3    imageUrl  : "https://images.unsplash.com/photo-1534422298391-e4f8c172dddb?ixid=MXwxMjA3fDB8MHxwaG90by1wYWdlfHx8fGVufDB8fHw%3D&ixlib=rb-1.2.1&auto=forma
4    description  : "Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via various names today like dim sums and dum
5    price : 30
6    countInStock  : 0
7    __v : 0
```

Chicken Momo

Price: £30

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Price:	£30
Status:	Out of Stock
Qty	

Add To Cart

As you can see, it has been updated to accurately to show the correct information from our database.

Another unqiue functionallity of this application is that, even when you refresh, close and repoen the site, the contents in your cart will not be lost, it will stay saved on your local browser storage.

Latest Products

Sel Roti
Sel Roti is the local Nepalese doughnut which is reddish brown in color with a crispy texture. It is...
£5
View

Chicken Momo
Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via variou...
£30
View

Vegetable Momo
Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via variou...
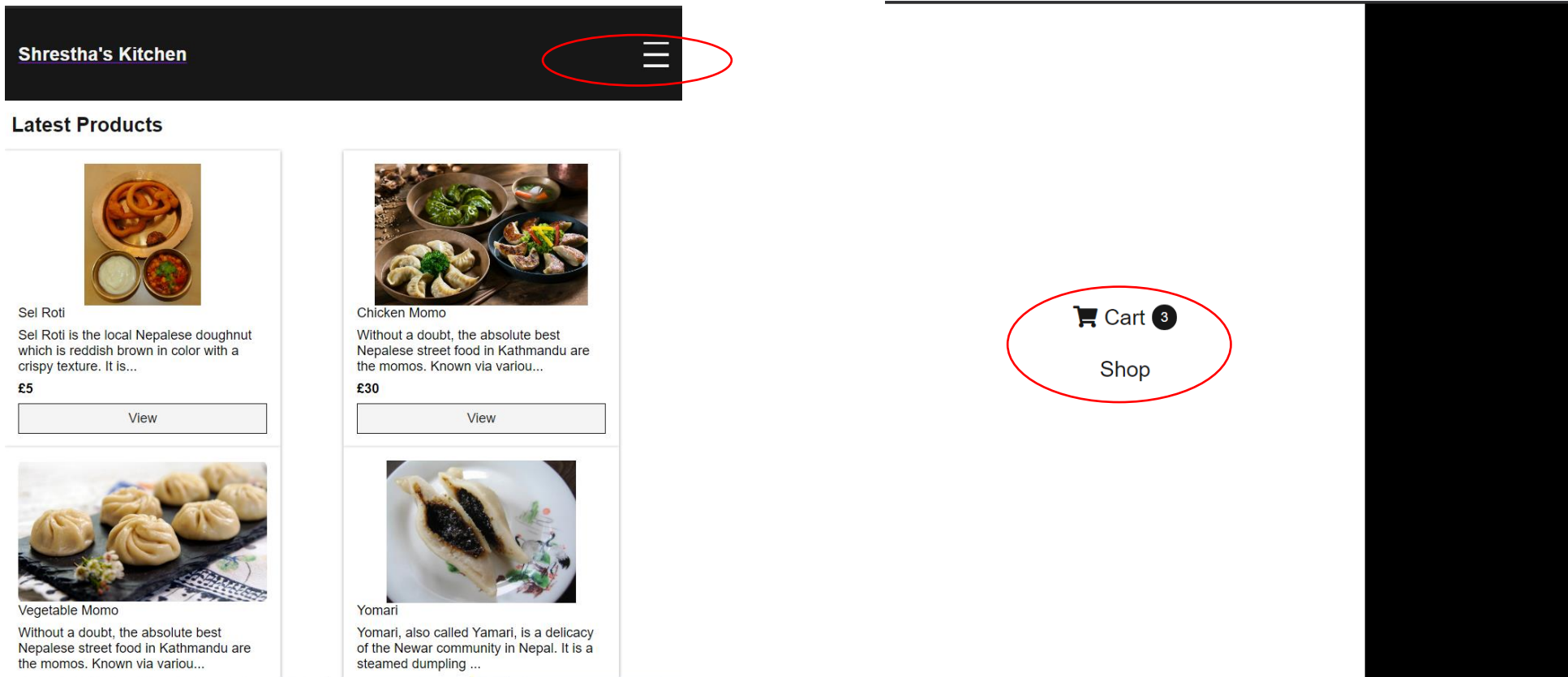£25
View

Yomari
Yomari, also called Yamari, is a delicacy of the Newar community in Nepal. It is a steamed dumpling ...
£5
View

Another functionallity of this application is that it full repsonsive and has an extra feature when viewing from smaller screens.

As you can see, as we are viewing in a smaller screen, the "Cart" and "Shop" are removed from the nav-bar and out pops this little hamburger menu which consists of the "Cart" and "Shop" links when you press it. The "Cart" like before simulatensouly updates and displays the total quantity of items in your cart. Here are screenshots displaying how the application is adapted for mobile users:

This is how the individual product page would be dipalyed:

Shrestha's Kitchen

Chicken Momo

Price: £30

Description: Without a doubt, the absolute best Nepalese street food in Kathmandu are the momos. Known via various names today like dim sums and dumplings, in the streets of Nepal, today too they are our very own momos. The commonly identified food item which needs no introduction, the momos are one dish that one has to try when in Nepal. Momo is a dumpling made of all-purpose flour and filled with either meat or vegetables. Apart from the streets, this staple food of the country is a common affair in every household of Kathmandu. The red chilli chutney served alongside is what takes this dish to another level altogether. *1 BAG CONTAINS 50 PIECES

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Price: £30

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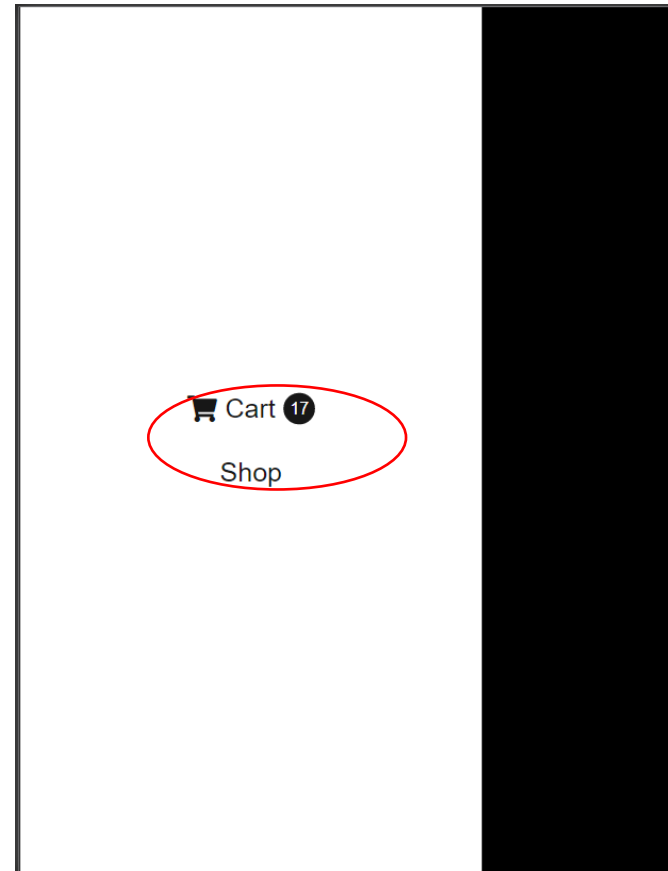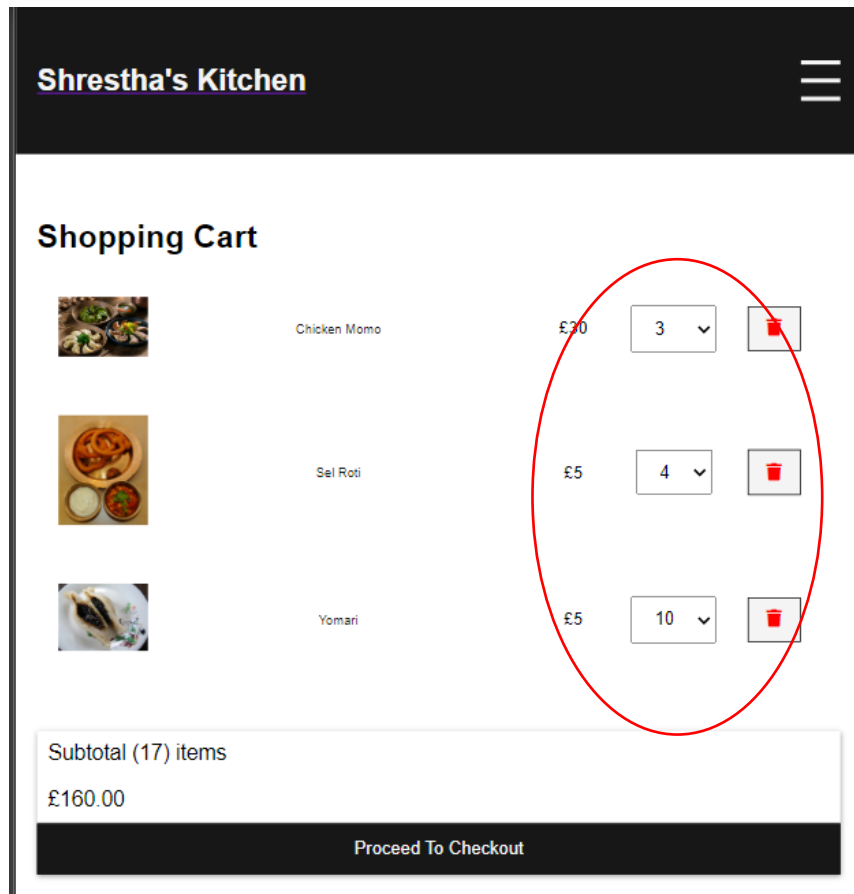
Price:	£30
Status:	Out of Stock
Qty	

Add To Cart

This is how the "Cart" page would be displayed:

That essentially is all the functionallity of my application. It is a simple full stack e-commerce site that loads up the product details from a database, you can view each individual products and the exact amount of stock it has. You can add it to your cart which updates accordingly if you wanted to change your quantity.

To summarise, if I had more time I would improve on my application by implementing the "Proceed to Checkout" functionallity, where you would be able to actually buy a product using a valid credit card. Another functionallity, I would like to add is a user account based system, where you would be able to sign-up, login and view your previous orders but with all this you would need to have proper secuirty in place as you are handling with sensitive information.

The main problem, I had during this application was not being able to properly host my web application on heroku. It would successfully deploy but display an "application error". If I had more time, I would also fix this issue in order to sucessfuly deploy my web application.

Heroku Link: https://com519.herokuapp.com/

Rahul Shrestha