

DANS COMPUTERS

User Manual



JUNE 1, 2023

Table of Contents

- 3.1 INTRODUCTION 2
- 3.2 BASICS: ACCESSING YOUR WEBSITE AND ADMIN..... 3
- 3.3 PRODUCTS: ADDING, REMOVING, AND UPDATING PRODUCTS 6
- 3.4 SHIPPING OPTIONS10
- 3.5 ORDERS11
- 3.6 UPDATING A PAGE ON YOUR SITE13
- 3.7 COLLECTING MONEY FROM THE STORE.....14
- 3.8 CHECKING WEB TRAFFIC AND STATISTICS.....15
- 3.9 APPENDIX17
- 3.10 TABLE OF CONTENTS.....18

3.1 Introduction

3.1.1 Background

My client, Daniella, sells computer parts. She required an e-Commerce website where she could sell her computer parts on. She wanted a database driven website where could add new items and delete old items from a database, and then have the website automatically updated. Additionally, she required a cart feature to be able to see what customers purchase.

3.1.2 About this website

The e-Commerce website, *Dans Computers*, was created using the following technologies:

- PHP
- HTML
- CSS
- JavaScript
- SQL
- mySQL

The website is hosted on a domain, using php to dynamically update and load webpages. HTML is used to create the structure of the webpage, while CSS is used to style it. JavaScript is used for data validation (sign up page) as well as interactivity of the website, such as onclick listeners for buttons. SQL is used to manipulate the database tables. mySQL was used to create a relational database that stores and provides the data for the website. It makes use of primary and foreign keys to ensure strict data integrity. For example, when the Admin deletes an item from the item database, the foreign key also deletes all entries of that item from the cart table. Php is also used to interact with the database.

3.2 Basics: Accessing your website and Admin

3.2.1 Accessing the website

The website can be accessed for both regular users and the admin using the following link:

- <http://danscomputers.infinityfreeapp.com/>

Test account details:

- Username: Test
- Email: test@gmail.com
- Password: 12345678

Upon clicking the link, the user will be taken to the homepage of the website. If it is the first time visiting the website, they will not be signed in, however if they have already made an account and signed in before, their session will be resumed.

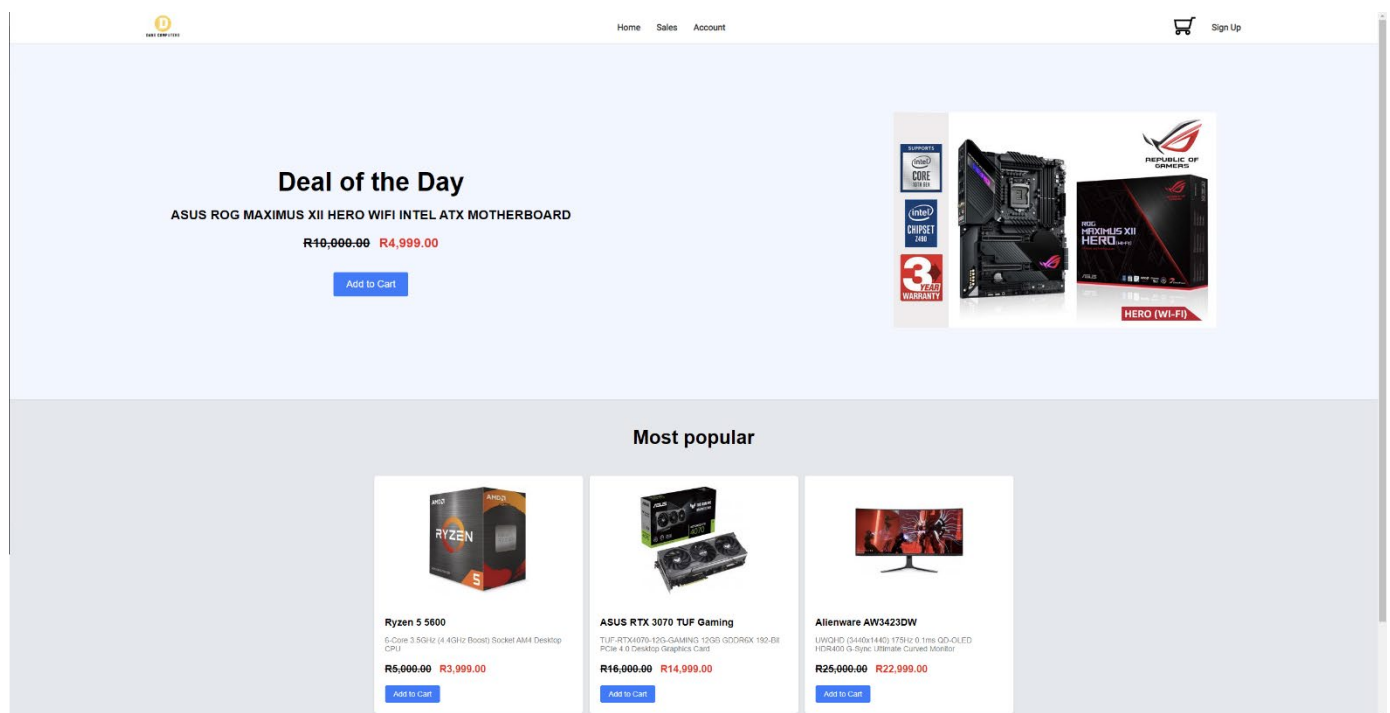


Figure 1: Image for first time clicking link

From the homepage, the user can browse the deal of the day as well as the most popular products. However, if the user clicks the add to cart button and they are not logged in, they will be redirected to the account page which will feature a login screen.

If the user is logged in and they click the add to cart button, the product will be added to their cart. The only page not available to the user when they are not logged in is the cart page.

3.2.2 The Admin Area

The admin account details are as follows:

- Username: Admin
- Email: admin@adminonly.com
- Password: admin1234

There is only one admin account that is predefined, and is checked for upon login in. If the admin account is used, the user is directed to the admin screen.

The screenshot shows a web application interface for 'DANS COMPUTERS'. At the top, there is a header with the company logo on the left, navigation links 'Home', 'Sales', and 'Account' in the center, and a shopping cart icon with a 'Sign Up' link on the right. The main content area is a light gray rectangle containing a white 'Login' form. The form has a title 'Login', an 'Email' field with the text 'admin@adminonly.com', a 'Password' field with masked characters, and a blue 'Log In' button. At the bottom of the page, there is a footer with the company logo on the left, navigation links 'Home', 'Sales', and 'Account' in the center, and a copyright notice 'Copyright © 2023 Dans Computers' on the right.

Figure 2: Image for logging in with admin details

Upon logging in with the admin details, the user (admin) will be redirected to the admin page. If the admin clicks on a different page, they can return to the admin page by clicking on their username, 'Admin', in the top right corner of the navigation bar (header).

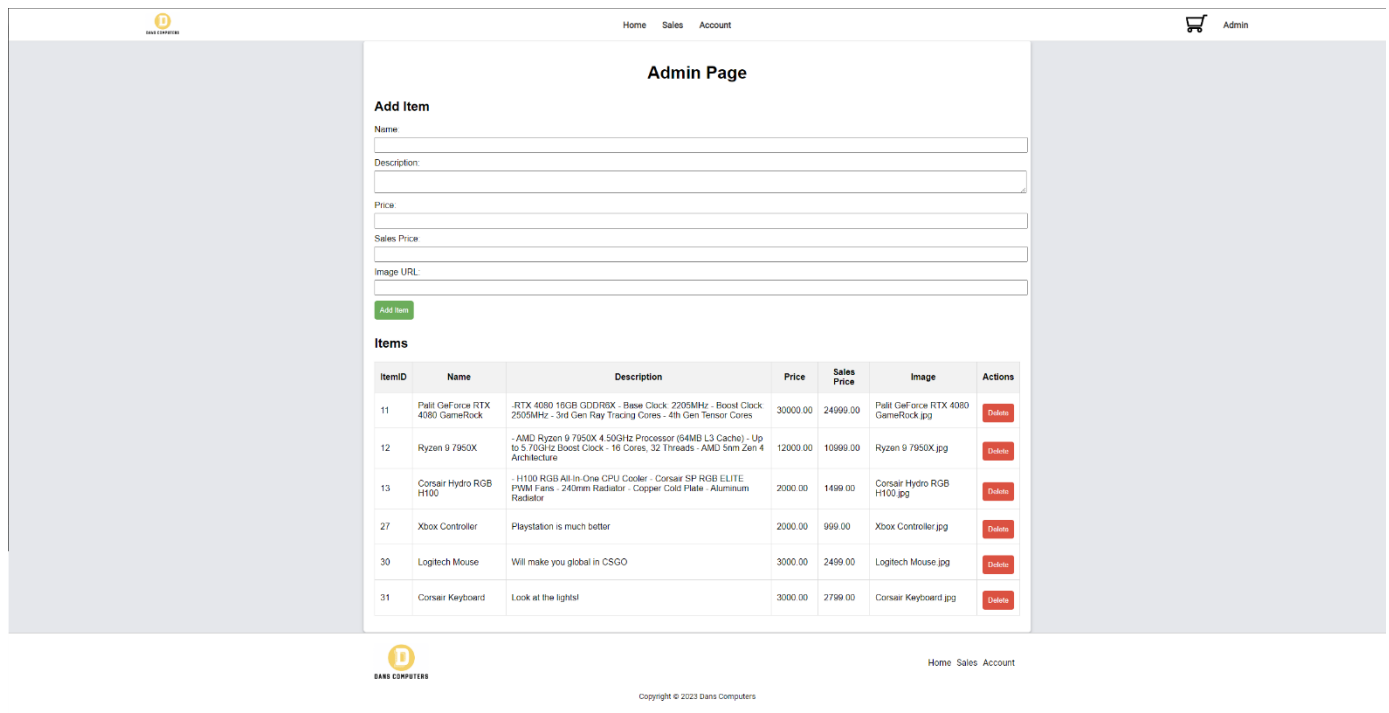


Figure 3: Image of Admin Page

The admin area is used for adding and deleting items (products) from the 'items' table in the 'dans_computers_db' database.

3.3 Products: Adding, removing, and updating products

3.3.1 Adding and Removing Products

The 'Admin' page is used for adding and deleting items (products) from the 'items' table in the 'dans_computers_db' database.

When an item is deleted from the 'items' table, it is also removed from all user's carts, to prevent purchasing an item that is no longer available. This is achieved through a foreign key link between the 'items' table and the 'user_cart' table.

When an item is added, it will appear on the website, under the 'Sales' page under the heading 'All Products'. And similarly, when an item is deleted, it will be removed from the 'Sales' page under the 'All Products' heading.

Adding products

Products are added by filling out the form on the Admin page and clicking the green 'Add item' button.

The screenshot shows the 'Admin Page' of a web application. At the top, there is a navigation bar with a logo on the left, links for 'Home', 'Sales', and 'Account' in the center, and a shopping cart icon with the text 'Admin' on the right. The main content area is divided into two sections. The top section, titled 'Add Item', contains a form with the following fields: 'Name' (with 'Corsair Keyboard' entered), 'Description' (with 'Mech. heavy 808. LFDs' entered), 'Price' (with '2800.00' entered), 'Sales Price' (with '1499.00' entered), and 'Image URL' (with 'Corsair Keyboard.jpg' entered). Below the form is a green 'Add Item' button. The bottom section, titled 'Items', contains a table with the following data:

ItemID	Name	Description	Price	Sales Price	Image	Actions
11	Palit GeForce RTX 4080 GameRock	-RTX 4080 16GB GDDR6X - Base Clock: 2205MHz - Boost Clock: 2505MHz - 3rd Gen Ray Tracing Cores - 4th Gen Tensor Cores	30000.00	24999.00	Palit GeForce RTX 4080 GameRock.jpg	Delete
12	Ryzen 9 7950X	-AMD Ryzen 9 7950X 4.50GHz Processor (84MB L3 Cache) - Up to 5.70GHz Boost Clock - 16 Cores, 32 Threads - AMD 5nm Zen 4 Architecture	12000.00	10999.00	Ryzen 9 7950X.jpg	Delete
13	Corsair Hydro RGB H100	- H100 RGB All-in-One CPU Cooler - Corsair SP RGB ELITE PWM Fans - 240mm Radiator - Copper Cold Plate - Aluminum Radiator	2000.00	1499.00	Corsair Hydro RGB H100.jpg	Delete
27	Xbox Controller	Playstation is much better	2000.00	999.00	Xbox Controller.jpg	Delete

At the bottom of the page, there is a footer with the logo on the left, links for 'Home', 'Sales', and 'Account' in the center, and the text 'Copyright © 2023 Dans Computers' on the right.

Figure 4: Image for adding an item

Upon clicking the add item button, the website will attempt to add the item to the 'items' table. If the item is added successfully a successful notification will pop up, if not, an error notification will pop up.

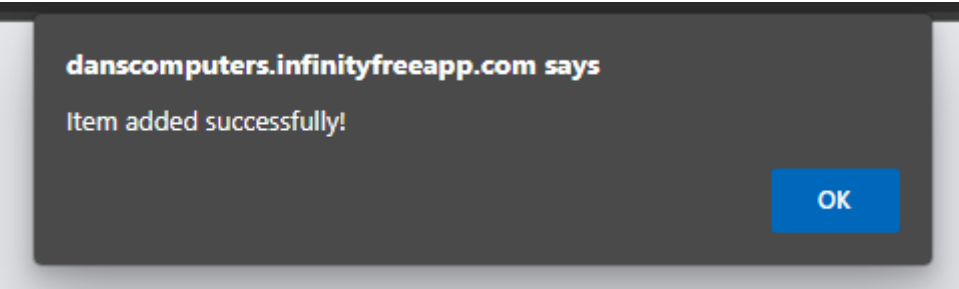


Figure 5: Image for success message when adding item

The product will be displayed under the 'Sales' page on the website.

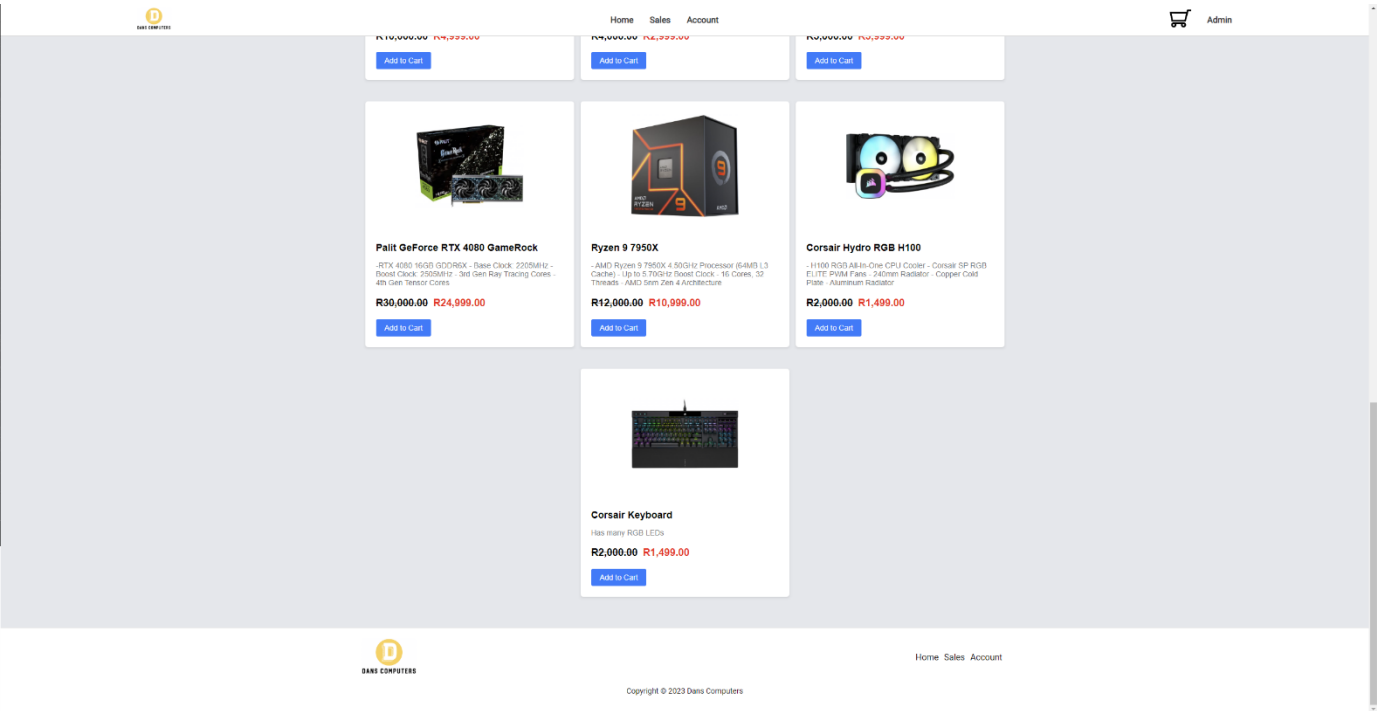


Figure 6: Image for item added

Removing products

Products are removed by clicking the red 'Delete' button under the 'Actions' heading on the 'Items' table on the 'Admin' page.

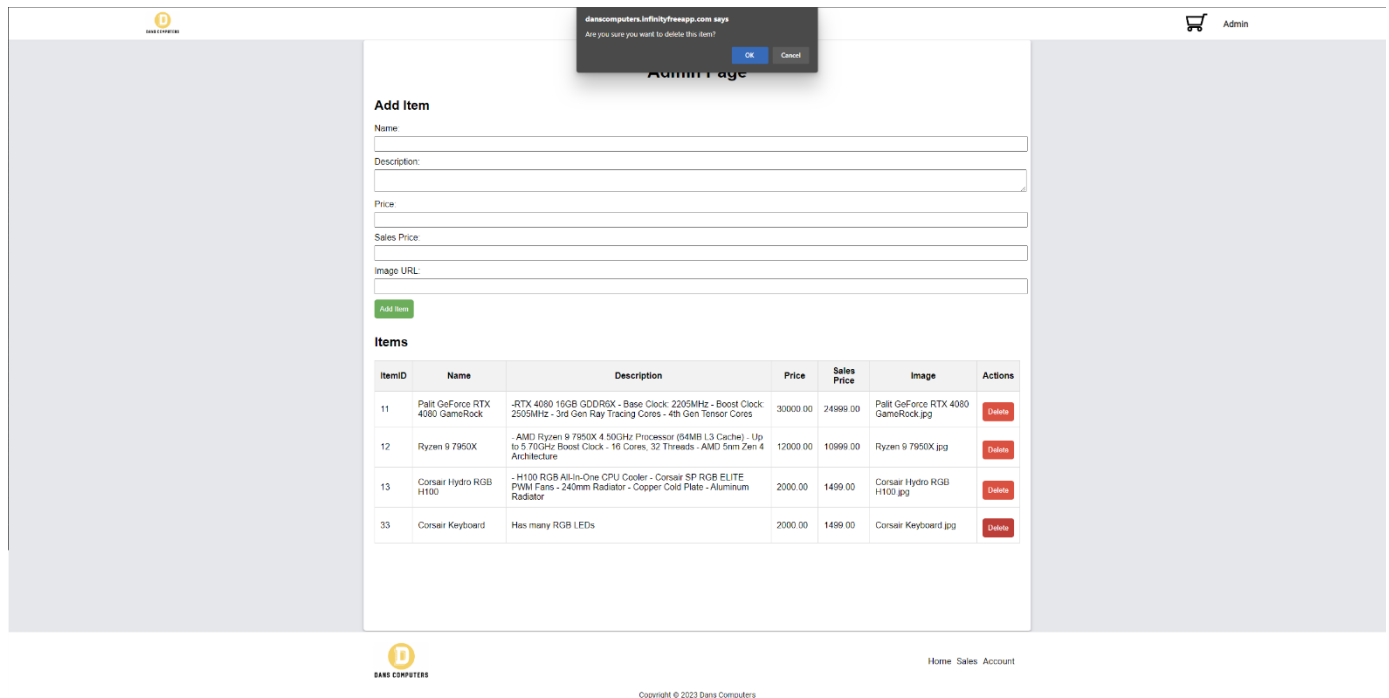


Figure 7: Image for item to be deleted

A deletion confirmation message will pop up to warn the user that the item is going to be deleted. If the message is accepted by clicking 'OK' then the table will update with the item being deleted. Additionally, the item will be removed from the 'Sales' page.

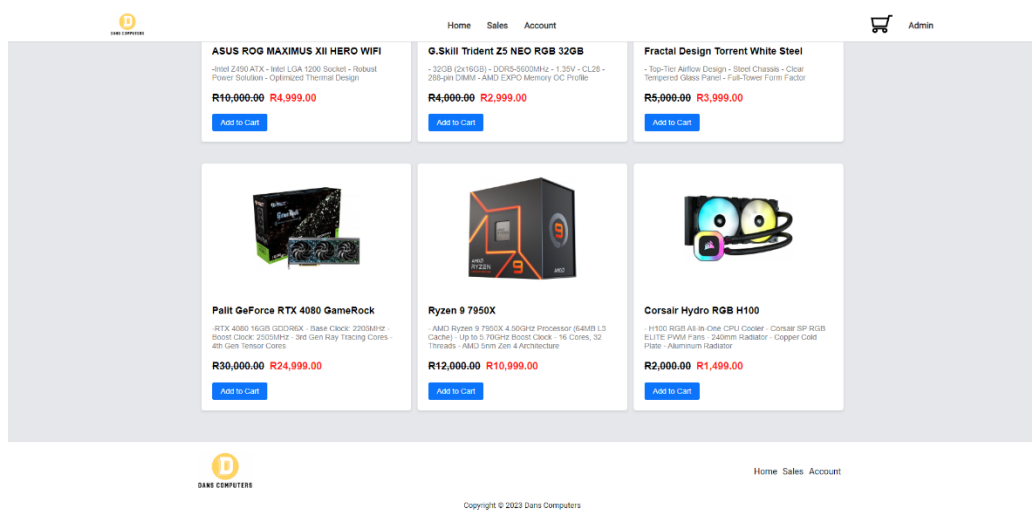


Figure 8: Image for item deleted

The 'Corsair Keyboard' item is no longer displayed on the 'Sales' page.

3.3.2 Updating Products

Products cannot be updated directly on the Admin page. However, products can be updated by deleting them and then readding them with the updated details.

If the Admin user has access to the backend and is familiar with SQL, they will then be able to update the products using SQL queries.

3.4 Shipping Options

Shipping price is calculated on the price of an order. All orders under R1000 will have a flat shipping fee of R100 applied. All orders above R1000 will have free shipping.

```
// Calculate the shipping cost  
$shipping = ($subtotal >= 1000) ? 0 : 100;
```

Figure 9: Image for shipping cost calculation

The shipping functionality was not fully implemented and therefore there is no option to choose the shipping option. The default is a door-to-door courier.

3.5 Orders

When a user is logged in and adds items to their cart, they can navigate to the 'Cart' page by clicking on the cart icon on the top right side of the header. This will bring them to the 'Cart' page where they will be able to see their order details.

The screenshot displays the 'Checkout Cart' page. At the top, there is a header with a logo on the left and navigation links 'Home', 'Sales', 'Account', and a shopping cart icon labeled 'Test' on the right. The main content area is divided into sections: 'Customer Information' (Username: Test, Email: test@gmail.com, Shipping Address: 22 Firgrove, Cape Town, South Africa), 'Shipping Method' (Door-to-door Courier: Standard Shipping (3-5 business days)), and 'Payment Information' (Payment Method: Credit Card, Card Number: *****, Expiration Date: 12/2024, Billing Address: 22 Firgrove, Cape Town, South Africa). Below these is a table titled 'Items in Order' with columns for Item, Price, Quantity, and Remove. It lists two items: 'G Skill Trident Z5 NEO RGB 32GB' at R2,999.00 and 'Ryzen 5 5600' at R3,999.00, both with a quantity of 1 and a 'Remove' button. At the bottom, a summary shows Subtotal: R5,998.00, VAT (15%): R1,049.70, Shipping: R0.00, and a bolded Total: R8,047.70. A blue 'Checkout' button is positioned below the total. The footer contains the 'DANS COMPUTERS' logo, navigation links 'Home', 'Sales', 'Account', and a copyright notice 'Copyright © 2023 Dans Computers'.

Item	Price	Quantity	Remove
G Skill Trident Z5 NEO RGB 32GB	R2,999.00	1	Remove
Ryzen 5 5600	R3,999.00	1	Remove

Subtotal: R5,998.00
VAT (15%): R1,049.70
Shipping: R0.00
Total: R8,047.70

Figure 10: Image for Cart page

The user can click the remove button next to the items in the order to remove the item or decrease its quantity.

The order summary at the bottom of the page will update in real time to reflect changes to the cart.

The user will see a final total in bold which will be the final amount for the order.

Upon clicking checkout, the user's cart will be cleared, and they will be thanked for their order.

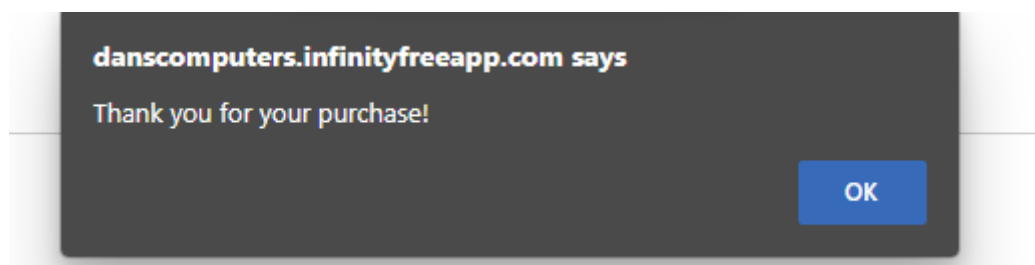


Figure 11: Image for checkout message

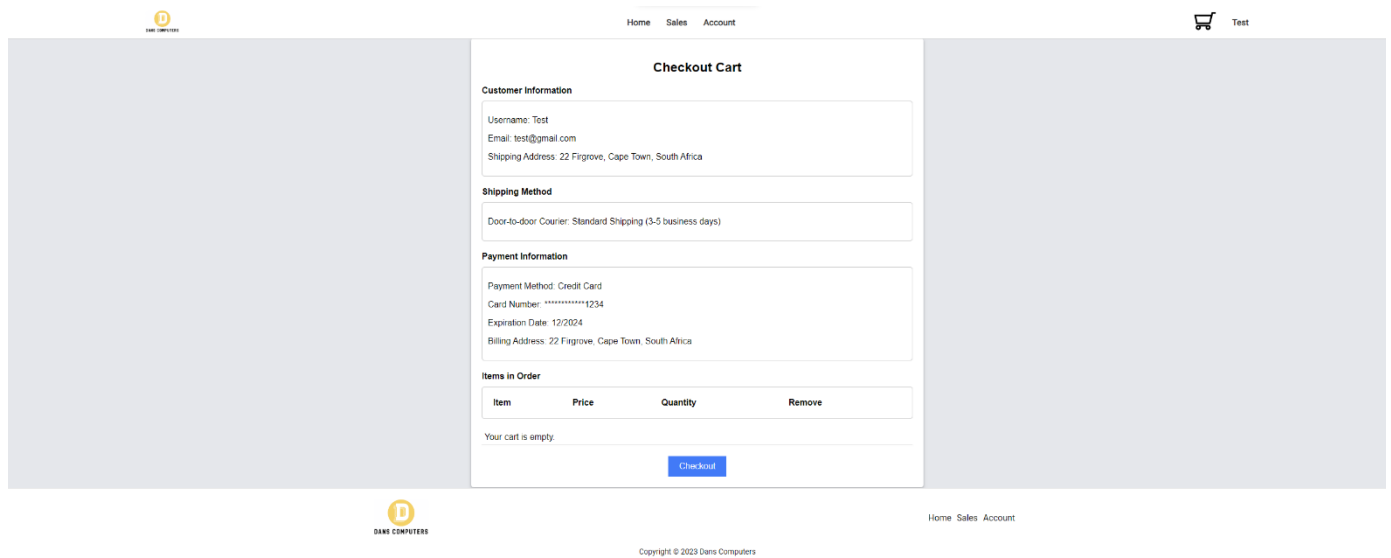


Figure 12: Image for empty cart

If the user tries to checkout an empty cart they will receive a message notifying them that the cart is empty.



Figure 13: Image for empty cart

After the user checks out, a transaction is supposed to be auto generated and saved in a database, where the store owner can then have a record of all products sold. However, this functionality was not fully implemented. The database exists, but the transactions are not recorded automatically.

3.6 Updating a page on your site

Pages can be updated by updating the 'items' database using the Admin page that was previously discussed.

If the store owner wants a completely new page to be added, the website developer (I) would have to create a new link in the header which would serve as a method to access the new page, along with added a new php file for the page.

3.7 Collecting money from the store

My client's store will work of Electronic Fund Transfers, meaning that the customer will have access to my client's bank account details where they can then pay for their order based on the transaction that was generated.

3.8 Checking Web Traffic and Statistics

The server used to host my client's e-Commerce website offers statistics such as Resource Usage and daily traffic. The admin will be able to view these graphs and statistics on the server.

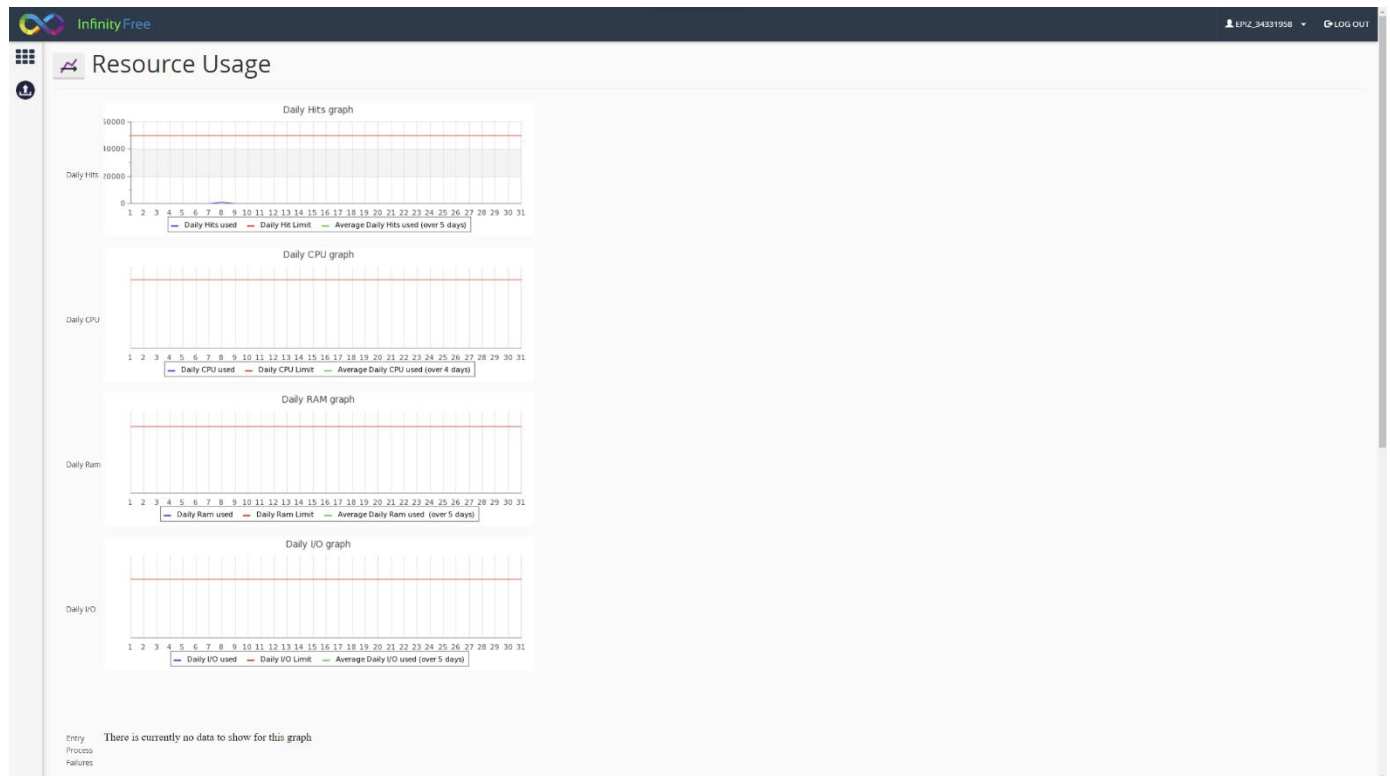


Figure 14: Image for website resource usage

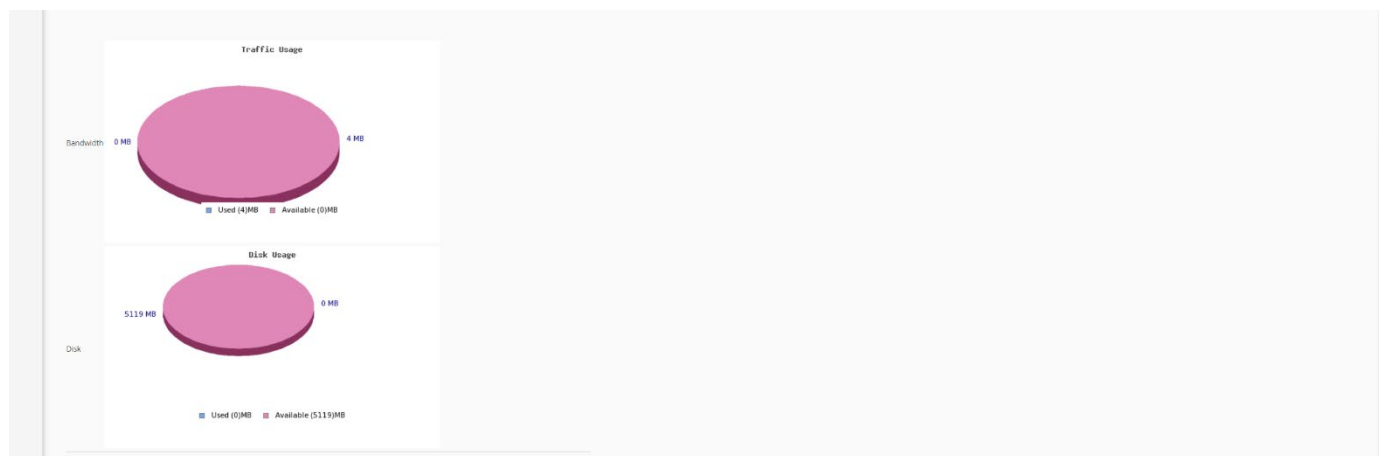


Figure 15: Image for website traffic usage

3.9 Appendix

[Use this section to explain how the website can be set up]

The website can be setup by following the following steps:

- Create a MySQL database by following the ERD in the planning.
- Create a src folder to put .php files in for the website.
- Create a styles folder to put .css files in for the HTML for the website.
- Create an images folder to put images files such as .jpg for the website items.
- Create an includes folder to put extra .php files that will be used through include/require statements in the main .php files that are in the src folder. For example, the connection.php file that will connect to the database.
- Create a scripts folder that will store .js files. This includes the signup.js file that is used for data validation.

To host the website, follow the following steps:

- Zip the root folder that contains all the folders and files listed above.
- Find a suitable hosting website, such as <https://www.infinityfree.com/>.
- Upload and unzip the file in the 'htdocs' folder on the server.
- Edit the '.htaccess' file if needed – this file is responsible for redirecting the default paths in case of a unique folder and file setup.
- Export the database script as a .sql file.
- Run the database script on the hosting website to create the database.
- Edit the connection.php file in the includes folder to connect to the database with the new details.
- Create the website domain link.
- Share the website domain link: <http://danscomputers.infinityfreeapp.com/>

3.10 Table of Contents

Figure 1: Image for first time clicking link	3
Figure 2: Image for logging in with admin details	4
Figure 3: Image of Admin Page	5
Figure 4: Image for adding an item	6
Figure 5: Image for success message when adding item	7
Figure 6: Image for item added	7
Figure 7: Image for item to be deleted	8
Figure 8: Image for item deleted	8
Figure 9: Image for shipping cost calculation	10
Figure 10: Image for Cart page	11
Figure 11: Image for checkout message	11
Figure 12: Image for empty cart	12
Figure 13: Image for empty cart	12
Figure 14: Image for website resource usage	15
Figure 15: Image for website traffic usage	16