TESTING

Easy-PC- Milestone Project 4

Testing User Stories

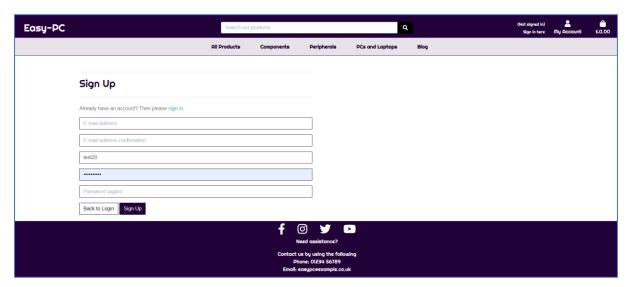
As a Visitor and a Potential Customer of the site:

I would like to navigate the website without registering or signing up.

- Anyone is able to visit and browse the site without the need to register or signing up. All links and buttons redirect to the correct destinations.

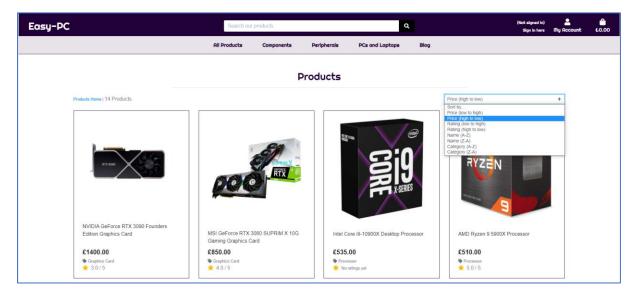
I would like to register for an account

- The Register page will allow a user to sign up for an account. They will then be sent an email to verify their email.



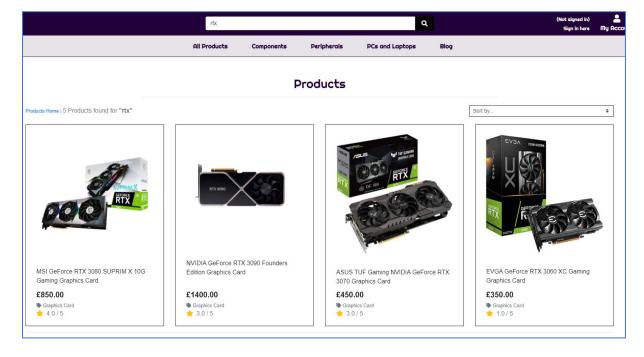
I would like to browse products and sort them by either name, rating or price.

- When navigating to the All Products page, using the dropdown menu, ordering the products is possible and is working as intended.



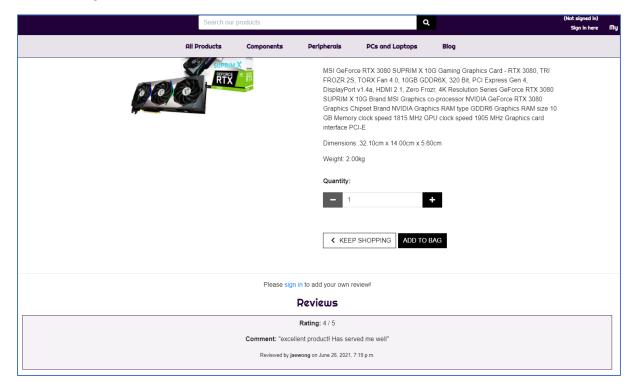
I would like to search for a product.

- Using the search bad, users can search terms to find their desired products. The screenshot below shows that the term "rtx" was searched and brought the desired results. Also there is a notification to show how many results were found.



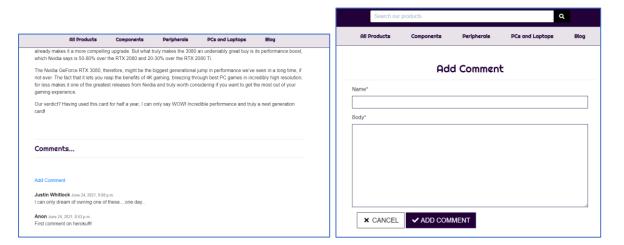
I would like to read reviews of a product or comments on a blog article.

- Clicking on a product, if written, reviews are found at the bottom of the page showing the rating, comment, author and date the review was written.



I would like to leave a comment on a blog post even without having an account.

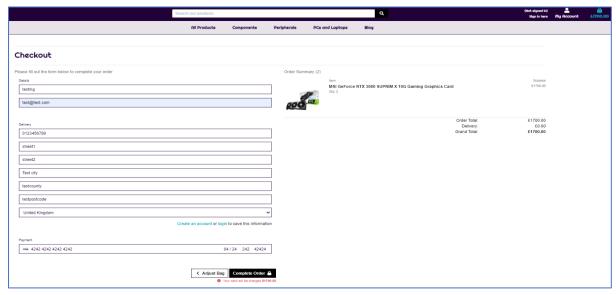
- When viewing an article, the bottom of the page will show existing comments (if any) and anyone is able to add their own comment. This will show the name and comment, as well as the day the comment was made. Clicking the "Add Comment" link will redirect to the add comment page.

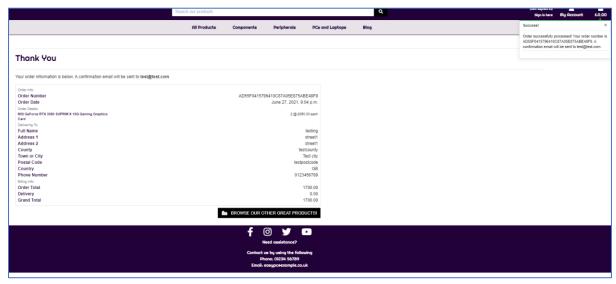


I would like to purchase an item and checkout easily.

- Any visitor of the site is able to add a product to the shopping bag, edit the bag by updating the quantity or return to the products page to add more items to the bag. Every time an item is added to the bag, a toast message (top-right) will show the contents of the shopping bag along with the link to proceed to checkout. Once payment is completed, the site will redirect the user to a "Thank You" page with the Order Number.





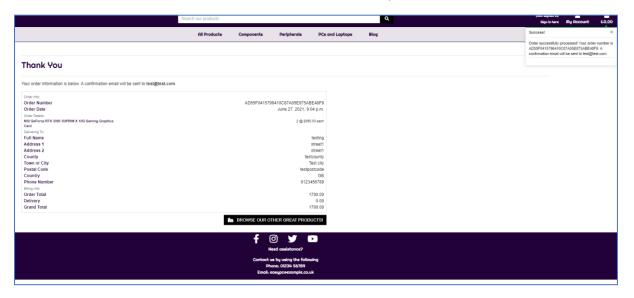


I would like to edit my shopping bag easily.

 As above, in the shopping bag page, adjusting the bag is easy where the user is able to increase, decrease or remove an item. Different products are also able to be added by going back to the products page.

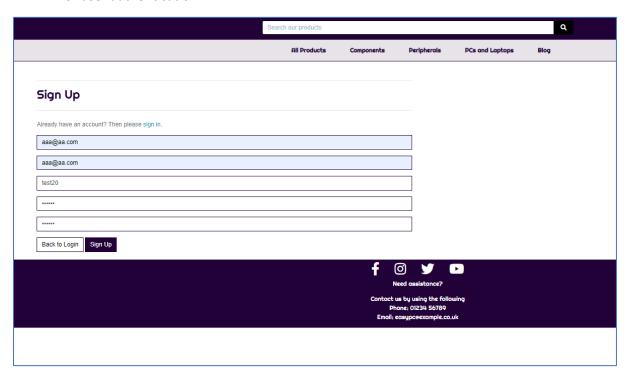
I would like to receive confirmation of my order.

- A confirmation email will be sent once checkout it completed.



I would like to register an account.

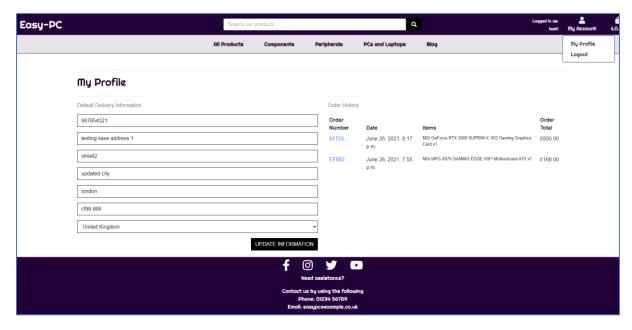
- The sign-up page will allow a user to register an account. The user will need to input their email address, username and password. An email will be sent to the user once signed up as they will need to verify themselves. The link in the email will redirect to a confirmation page for user authentication.



As a Registered User of the site:

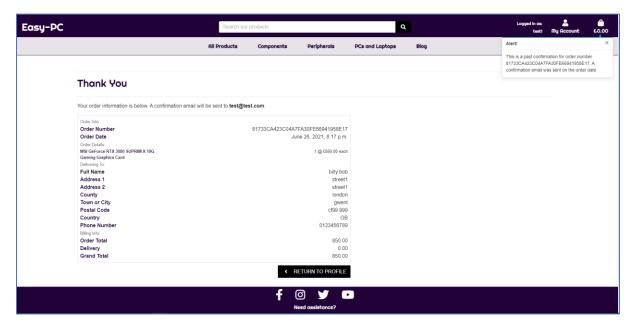
I would like to save my details to my profile.

- On the navbar, the "My Account" button will bring up a new window which provides options for "My Profile" and "Logout". Clicking "My Profile" will redirect the user to the profile page where they are able to make changes to their delivery information. This will be automatically entered into the checkout form.



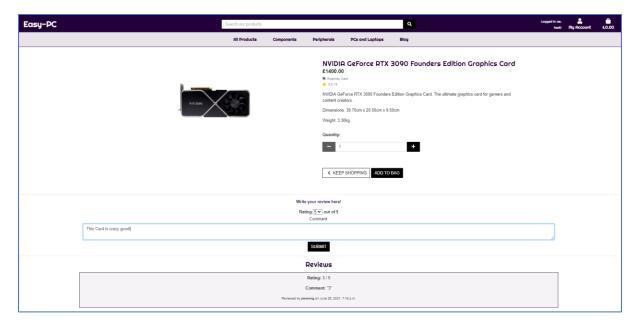
I would like to view my order history.

- Similar to the above, the profile page will display the user's order history. They can also click the Order Number link to view more information on that particular order.

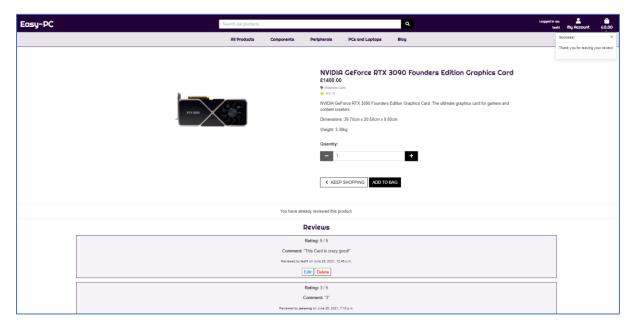


I would like to review a product.

- On the product detail page, the bottom of the page lies the reviews section. Only one user is able to leave one review per product. Here a review is written by "test1" and once a review has been submitted, the page displays a message that I have already placed a review and no longer able to write another one for this product.



- A toast message is displayed on the top right to notify of the successful posting of the review. The user is also able to either edit or delete their own reviews only. The product average rating is also updated as shown below.



I would like to "Like" a Blog Article.

- On the article page, there is a "Like" button available for users and superusers. The number inside the brackets displays the total likes the article has received.



When a user clicked to like the article, the number will increase by 1 where the icon will
change to a thumbs-down, and text changed to "Unlike" if the reader wishes to retract their
like.



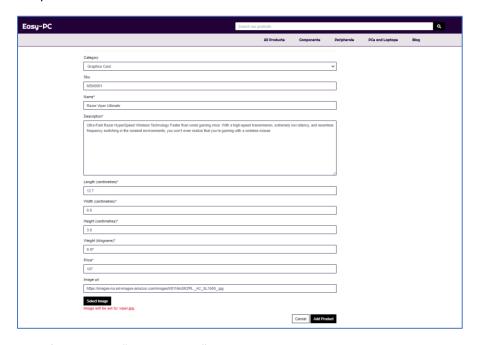
- When the "Unlike" button is clicked, the total likes will reduce by 1 and the button will revert back to "Like" with a thumbs up icon. Only 1 like per user per article is permitted.



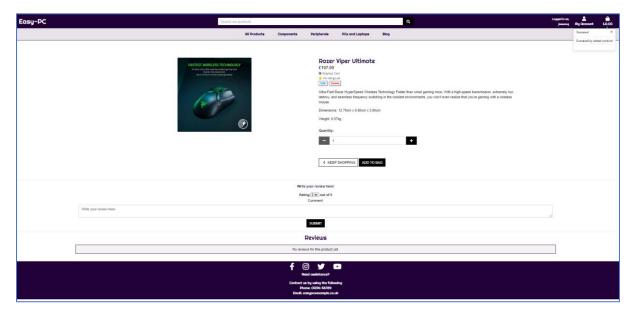
As an Administrative User:

I would like to add a new product to the database.

- From the Navbar, click "My Profile" -> "Product Management". This is only available to the superuser. This will redirect to the Product Admin page where the superuser can add a new product as below.

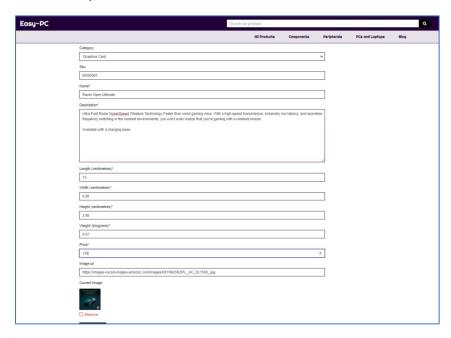


- After clicking "Add Product", the site will redirect the super user to the Product Detail page of the recently added product.

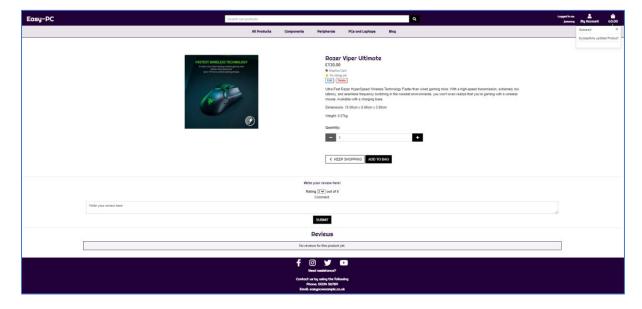


I would like to edit existing product details.

- From either the All Products page or the Product Detail page, the "Edit" button is available only to the superuser. This will redirect to the Product Management page where a form is pre-filled with existing information. Any of these fields can be changed to update the product. Here added a line in the description, made changes to the dimensions and price as an example.

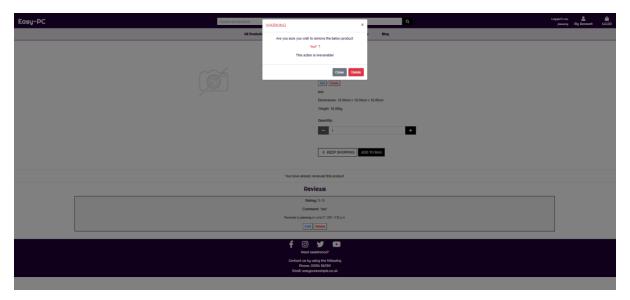


- Here we can see the product has been successfully updated with a corresponding toast message notifying the success of the update

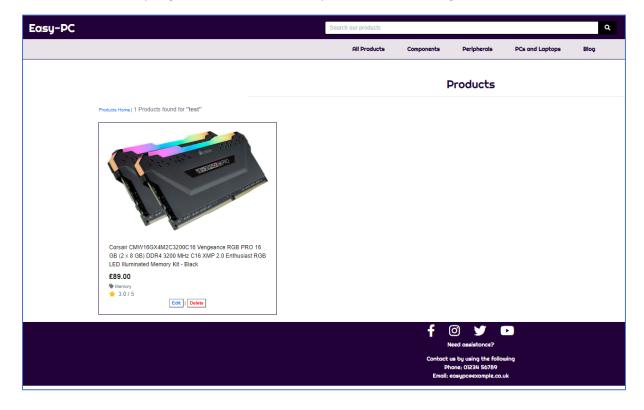


I would like to delete an existing product.

- The delete button will allow the superuser to delete a product. This can be done from the all products page or the product detail page. When clicked, a modal will appear to ask the superuser if they with to continue with removing the product from the database. Here I deleted a "test" product that was recently added.

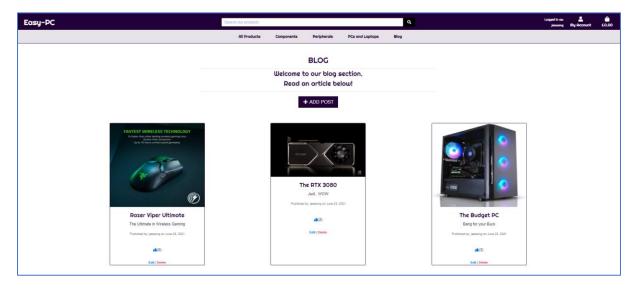


- When attempting to search for this "test" product, it can no longer be found.

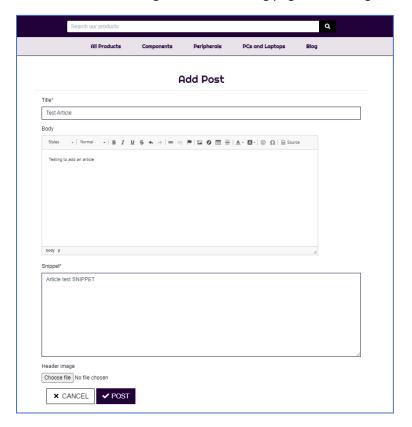


I would like to create new blog posts.

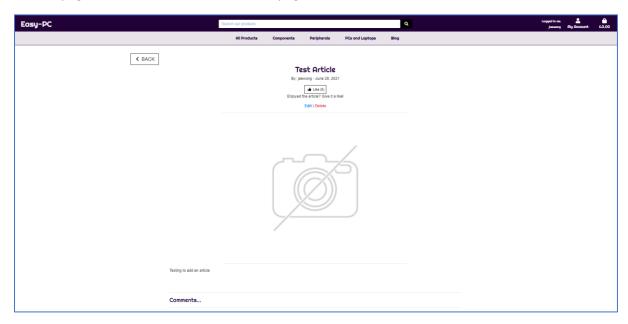
- From the blog page, the "Add Post" button is only available to the superuser. They are able to add a new blog post as below:

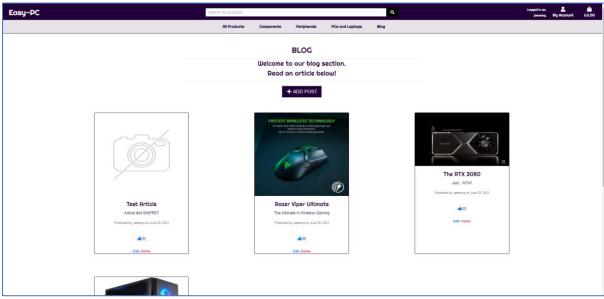


The button will redirect to the Add Post form for the superuser to fill out. The Snippet field is the sub-heading found on the Blog page. This is to give a small description of the article.



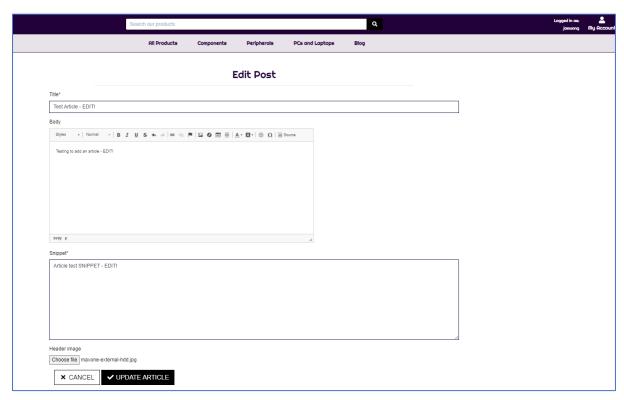
- When "POST" is clicked to add the post, the superuser is redirected to that particular article page and is also visible on the BLOG page.



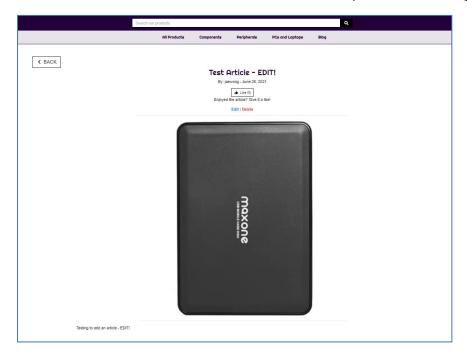


I would like to edit an existing blog post.

- The Edit button can be found on the BLOG page or inside the Article page. Both will redirect to the Edit Post form page. Here the superuser is able to edit the article as they wish. Images can also be changed here.



- As shown below, the article contents has been updated and an image is added.

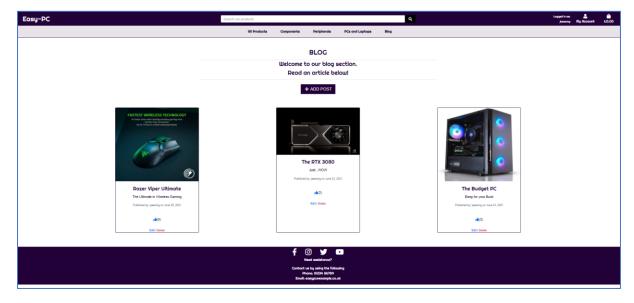


I would like to delete an existing blog post.

- The Delete button can be found on the BLOG page or inside the Article page. Both will, when clicked, redirect the superuser to the delete confirmation page.

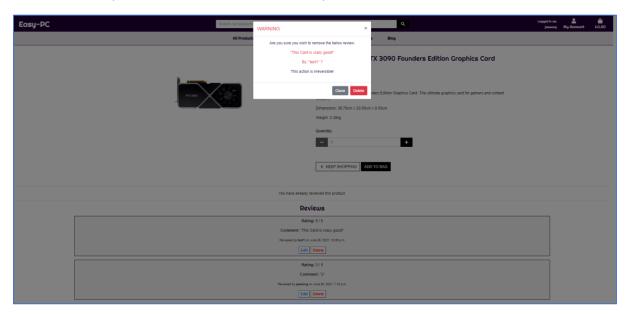


- When the "DELETE ARTICLE" button is clicked to confirm removable, the superuser is then redirected to the blog page where the deleted article no longer exists.

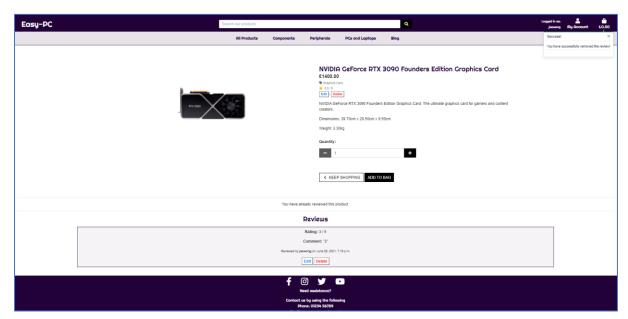


I would like to delete existing Product reviews written by all users in case the content is inappropriate.

- As a superuser, it is possible to delete reviews by all users. Below is a screenshow to show that a superuser is able to delete a review by a different user called "test1".

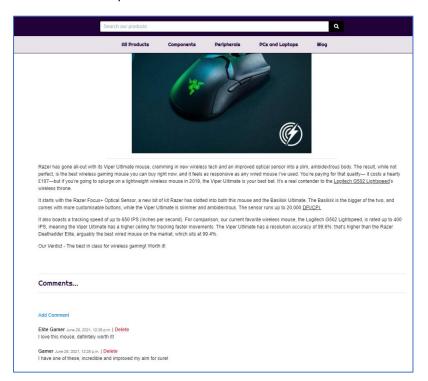


- After confirming deletion, the review is successfully removed.

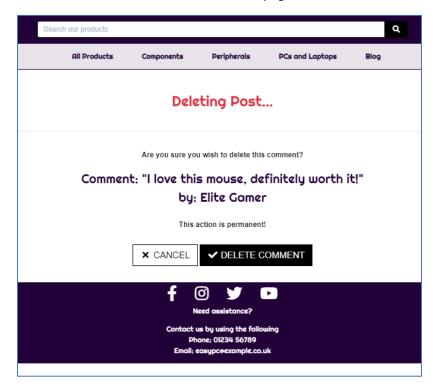


I would like to remove existing Blog Article comments by all users or visitors, in case the content is inappropriate.

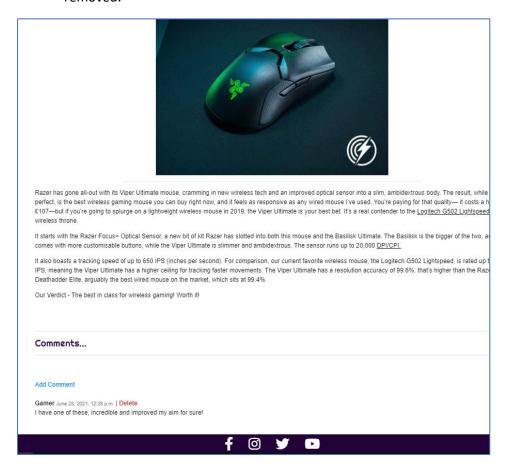
- The are delete buttons next to all comments on each blog article. Again this is only available for the superuser.



- The button will redirect to a new page to confirm the removal of the comment



- Once the "DELETE COMMENT" is clicked, we can see that the comment is successfully removed.



Further Manual Testing

In this section, I did further manual testing to ensure the site functionality and security is working as intended.

Secured Admin Views (defensive design):

Adding, Deleting and Editing

Deleting or Editing of the following can only be done by the superuser or admin. Here I tested by either logging in with a regular user account "test1" and without being signed in.

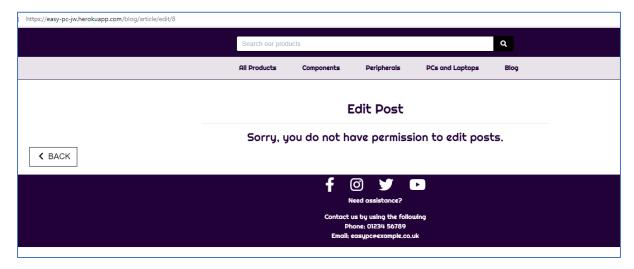
These include:

- 1) Product Adding, Editing and Deleting
- 2) Product Reviews Editing and Deleting
- 3) Blog Articles Adding, Editing and Deleting
- 4) Blog Article Comments Deleting

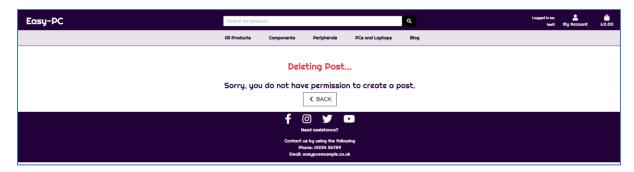
In the Product app, the user will be redirected to the home page with a toast message to display "Sorry, only store owners can do that"



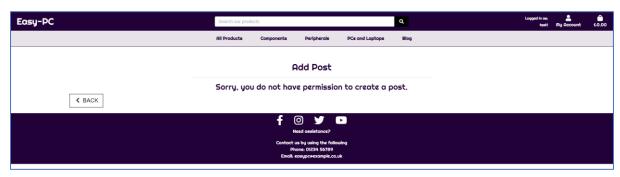
In the BLOG app, a whole page will display the below message "Sorry, you do not have permission to edit posts" when attempting to edit.



In unauthorised attempts to delete Blog posts, the below will be displayed:



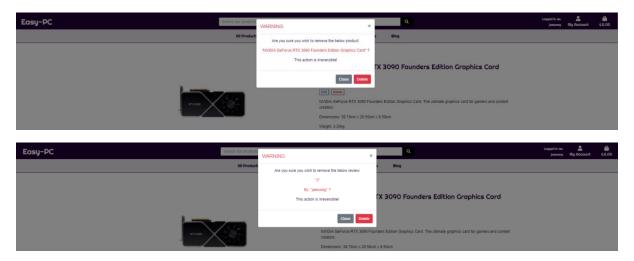
And when attempting to add posts as a non-superuser:



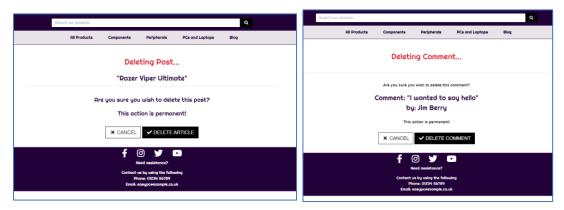
Warning Modals and Pages

As a precaution and an extra step for deletion, modals and additional pages were created to implement this.

Modals for the Product App when attempting to delete a product or product review as below:

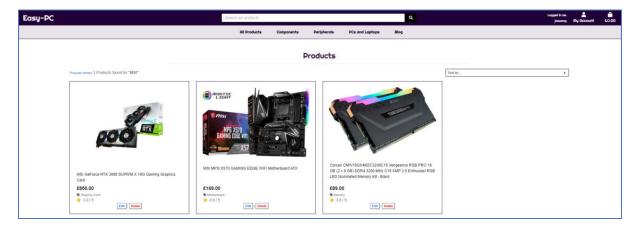


Pages for confirming deletion of blog articles and comments are below. The Cancel button will redirect back to the article page.



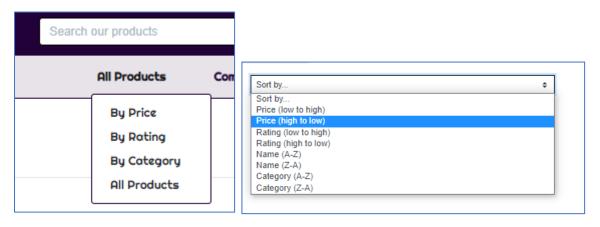
Search Queries

The search function for products was tested and works as intended. The search terms correctly display results and also display the number of products found. An example below is by searching the brand term "MSI". This correctly displayed 3 products.



Sorting

The products can also be sorted using the dropdown menu or navigation link.



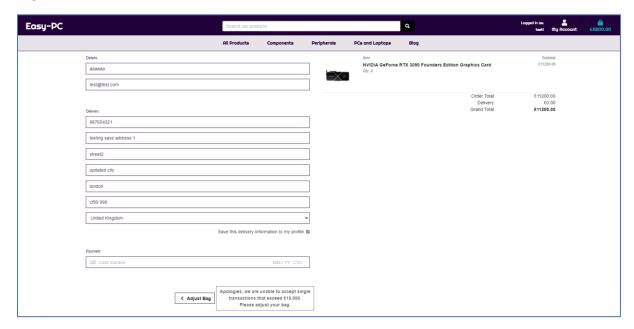
Having tested this thoroughly, the products are sorted in the correct selected orders with no issues.

Purchasing and Checkout

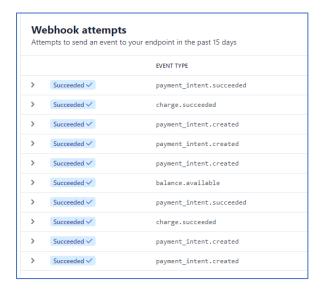
Purchase limit - £10,000

Using Stripe, there is a purchase limit of £10,000 in place.

To tackle this within the project, during the checkout phase, the complete checkout button is disabled and instead will display a disabled button advising the customer to adjust their shopping bag.



Checking the Webhooks on stripe, I can see that the payments are all going through successfully.



Product Ratings

Each product has an average rating which displays on both the All Products page or the individual Product Detail page.

This is influenced by user reviews and is automatically updated upon adding reviews and removing reviews.

This was thoroughly tested where the app updates the product review each time a review rating is added, edited or deleted.

Responsive Design

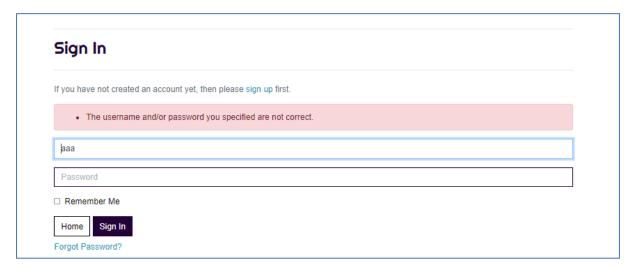
The Webapp was tested on both Desktop and Mobile devices using Google Chrome and Firefox web browsers.

I currently own a OnePlus 6 so this real-life device was used to test the whole website on both Google Chrome and Firefox web browsers.

Responsinator (http://www.responsinator.com/) was also used to test a variety of screen sizes to ensure the website responsiveness.

User Login Information

When logging into a profile, submitting incorrect credentials will notify the user of such.



If a user has forgotten their password, they can request for an email to reset this.

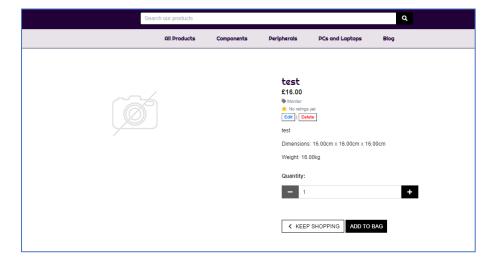
Having tested this on a few user accounts, this is working as intended.

Product and Blog Images

When creating products or blog articles, images are normally added.

Both new products and blog articles have optional image fields. If there is no image uploaded, a generic "no image" is used as a placeholder.

This is also used if the admin removes an image of the product or blog article.



Navigation

To ensure all links are working, I checked all links and buttons to ensure they redirect to the correct destinations.

The footer houses social media links for Facebook, YouTube, Instagram and Twitter. These are all working as intended.

There is also a "back to top" button at the bottom-right of the all products page which correctly functions.