Testing

Test No.	Module	Description	Test Type	Expected Outcome	Pass/Fail
1	Register	Inputting the correct name, email and password(in the correct format) into all the inputs.	Normal	The user should be added to the database.	

The screenshots show that the input that was given to the registration form has been successfully added to the Users table in the database, therefore, the user has been registered and so the test passed.

| 2 | Register | Inputting Incorrect name, email and password(in incorrect format) into all the inputs. | Erroneous | The application should output an error message underneath each input. | |

The screenshot shows that there are errors that were printed when incorrect data were inputted into the form, therefore, the test has passed.

3	Register	Inputting an email that already exists in the Users table in the database.	Extreme	The application should output an error message informing the user that an account with that email already exists.	

UserID	UserType	FirstName	LastName	Email	Password	phoneNumber	Country	City
1	0	Abdul Bari	Ibrahim	aibrahim2015@qmschool.org.uk	$2y$10$SyUo5Ff9fq40zqAWWQKz2.Nhdmu9NVcA7XQndfaTQRX...	7448982707	UK	London
5	1	Jack	Smith	jack20@hotmail.com	$2y$10$2tOTG20eMtv/IOOaqqzNI.NfyutqO7eoFHOPySKIJ99...	7488982404	UK	London
6	1	abdul	bari	aibrahim2015@qmschool.org.uk	$2y$10$4UtaRkGNIHrl/Ehh3M0ReepCUuAoDnaHvch7m.No4i/...	7488982405	UK	London

The screenshot shows that two users with the same email address have been added to the database, which is not supposed to occur as two different users can't have the same email.
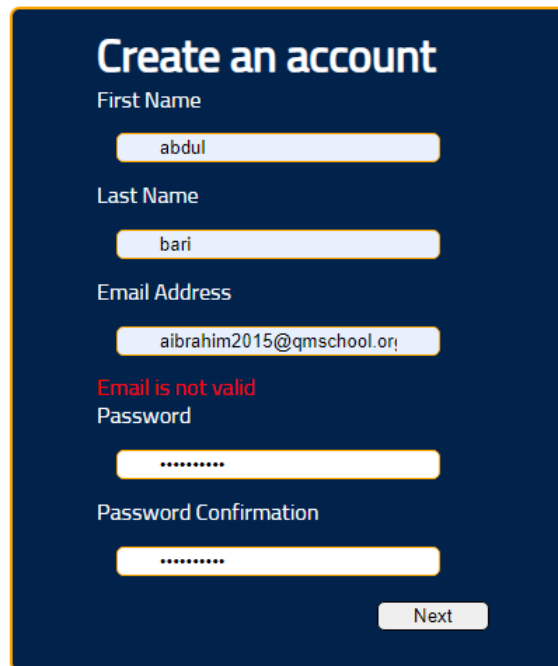
```php
if (sizeof($errors) == 0) {
    $mysqli = new mysqli("localhost", "root", "", "e-commerce");
    $stmt = $mysqli->prepare("SELECT * FROM `eusers` WHERE Email=?");
    $stmt->bind_param("s", $email);
    $stmt->execute();
    $res = $stmt->get_result();
    $stmt->close();
    if ($res->num_rows > 0) {
        $row = $res->fetch_assoc();
        $errors[] = "email";
        $_SESSION["allerrors"] = $errors;
        $p = http_build_query($vals);
        header("Location: /MyEcommerce/Register.php?error=Failed Validation&" . $p);
        exit;
    } else {
        $regQuery = "INSERT INTO `eusers` (`UserType`, `FirstName`, `LastName`, `Email`, `Password`, `phoneNumber`, `Co
        $stmt1 = $mysqli->prepare($regQuery);
        $stmt1->bind_param("ssssissss", $fname, $lname, $email, $hashedPassword, $pNum, $country, $city, $address, $pos
        $stmt1->execute();
        $stmt1->close();
        header("Location: /MyEcommerce/Welcome.php");
        exit;
    }
}
```

I fixed this problem by adding extra code in the register process file. After the if statement that validates all the inputs, the extra code accesses the database and extracts any record with the

inputted email address using the SELECT query. If there are any results, then it means that the email already exists and can't be used, so the user gets an error message.

If there are no results from the select query, then the code registers the user and adds the data to the user's table.

4	Login	Inputting the email and password of an existing user.	Normal	The user should be logged in and redirected to the Welcome page.	
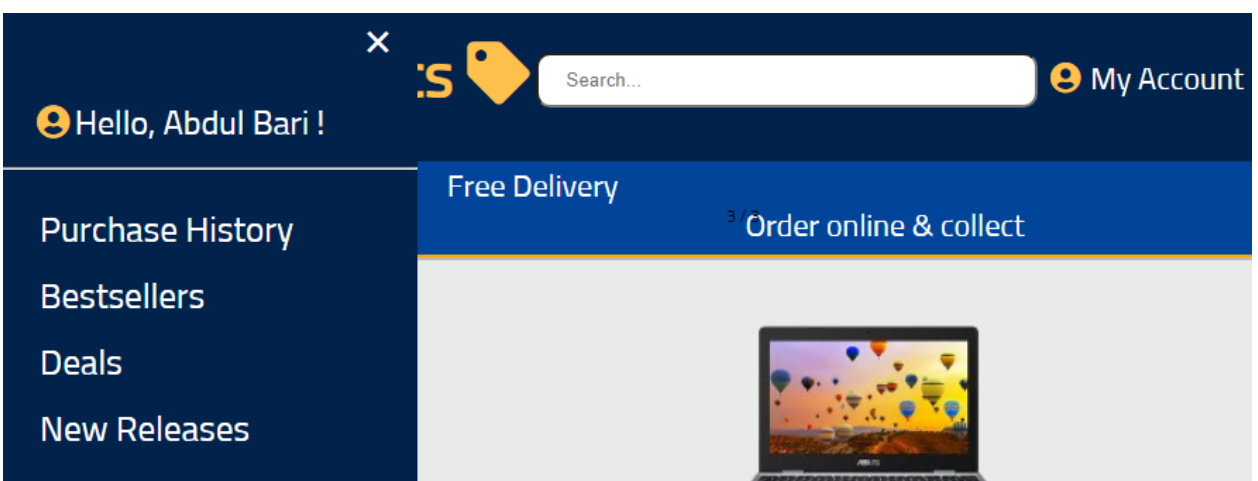
The screenshot shows the user's name in the sidebar navigation, which suggests that the user has successfully logged in, and so the test has passed.

5	Login	Inputting an email and a password that does not exist in the Users table in the database.	Extreme	The user should be redirected to the login page and an error message should be printed.	

I entered an email address that doesn't exist in the database and received the above error, therefore, the test has passed.

6	Login	Inputting correct email and an incorrect password.	Erroneous	An error message should appear informing the user that one of the inputs is incorrect.	

I entered a correct email address that exists in the database, however, I entered the wrong password and received the above error, therefore, the test has passed.

7	Browse	Search for a product that exists in the database.	Normal	The users should be redirected to the results page where they can see the products they searched for.	
8	Browse	Search for a product that does not exist in the Products Table in the database.	Erroneous	The users should be redirected to the results page and a message should appear saying no items found.	

9	Browse	Search for a product in a specific category with the product existing in that category.	Normal	The users should be redirected to the results page where they can see the products they searched for.	
10	Browse	Search for a product in a specific category with the product not existing in that category.	Extreme	The users should be redirected to the results page and a message should appear saying no items found.	
11	Browse	Rate and Write a review for a product.	Normal	The review should be added to the database and it should appear with the rating in the correct position on the product details page.	
12	Browse - Administrator	Reply to a review of a product.	Normal	The reply must be displayed under the review that has been replied to, also it should be added to the database.	
13	Basket	Add a product that has stock to the basket	Normal	The product should be added and displayed in the basket.	

The screenshot shows that the product has been added to the basket, showing the total price and other information about the product, so the test has passed.

13.1	Basket	Add a product that is run out of stock to the basket	Normal	The user should receive a message saying the product is not available.	

The screenshot shows that a message has been printed informing the user that the product has run out of stock, in this case, the iPhone 12. Therefore, the test has passed.

14	Basket	Add a product that already exists in the basket.	Extreme	The quantity of the product should increase as well as the	

				total price.	

As we can see the quantity of the products is 3, this is because I did this using the add to basket button on the welcome page 3 times, each time it increased the quantity by 1 instead of adding the product 3 different times, therefore the test has passed.

15	Basket	Increase the quantity of a product using the quantity button.	Normal	The total price should increase.	

The screenshot shows that even though the quantity is 50, the total price hasn't changed, meaning the test has failed.

Fixing the total price in the basket div on the left was easy as I only had to add ('..') for a PHP code in the basket object file.

Before:

```
<div id="itemPrice">
    <input type="hidden" id="price'.$id.'" value="$product->getProductPrice()">
    <span>Price: £'.$product->getProductPrice().'</span>
</div>
```

After

```
<div id="itemPrice">
    <input type="hidden" id="price'.$id.'" value="'.$product->getProductPrice().'">
    <span>Price: £'.$product->getProductPrice().'</span>
</div>
```

However, updating the total price on the total price div on the right(in the first screenshot) was a little bit more complicated. This is because I had to use jQuery in the Basket.php file to fetch the requested HTML snippet and insert it into the page.

```
function updateTotal(id) {
    var a = document.getElementById("amount" + id).value;
    var b = document.getElementById("price" + id).value;
    var c = a * b;
    document.getElementById("total" + id).innerHTML = "Total: " + "£" + c;

    $.post("/MyEcommerce/Processors/addToBasketProcess.php",
        { Product: id, flag: true },
        function( html ) {
            $("#basketPage").html(html);
        }
    )
}
```

In the addToBasketProcess.php file, I added an if statement to check if the flag is true, and if it is then it prints the new basket with the updated total price.

```
if (isset($_REQUEST["flag"])) {
    echo $basket->printBasket();
}
else if ($product->getProductStock() > 0) {
    header("Location: /MyEcommerce/Welcome.php");
} else {
    header("Location: /MyEcommerce/Welcome.php?StockError=Item Out of Stock");
}
```

Items in your Basket

🗑	Windows 11 RAM 4GB 128GB SSD FULL HD Screen	Quantity [28]	Price: £349	Total: £9772
🗑	Size: 32 Inche Resolution: 720p Type: LED	Quantity [33]	Price: £249	Total: £8217

Total

Sub-Total (ex VAT):	£17,989.00
VAT (20%):	£3,597.80
Total:	£21,586.80
Discount Code:	Apply
	Check Out

As shown, now the total price has been updated in both places correctly.

16	Basket	Decrease the quantity of a product using the quantity button.	Normal	The total price should decrease.	
	The reason this test failed was that when I was clicking on the decrease button, the quantity was increasing, so no matter what I clicked whether it was the increase or decrease button the quantity was increasing. To fix this issue, I added another attribute called quantity in the jquery function $.post to send data to the required page. This attribute holds the value of the amount variable which is the value of the quantity button.					

```javascript
function updateTotal(id) {
    var a = document.getElementById("amount" + id);
    var url = "addToBasketProcess.php";
    if (a.value < a.getAttribute('data-lastVal')) {
        url = "removeFromBasket.php";
    }

    $.post("/MyEcommerce/Processors/"+url,
            { Product: id, flag: true, quantity: a.value},
            function( html ) {
                $("#basketPage").html(html);
            }
    );
}
```

Then after that, I created a function in the basket object called UpdateQuantity() that takes in quantity and product as parameters. This function checks the value of the parameter quantity and if it's 0 then it uses the removeFrombasket function to remove that product from the basket using the product parameter. Otherwise, it gets the product id and updates its quantity in the basket.

```php
function updateQuantity($product, $quantity) {
    if ($quantity == 0) {
        $this->removeFromBasket($product);
    } else {
        $productId = $product->getProductID();
        $this->products[$productId] = [$product, $quantity];
    }
}
```

I called this function in the removeFromBasketProcess.php file, and I passed the product using the function loadProductById function that I created previously, and for quantity, I used the attribute in the $.post function that I mentioned above.

```php
if (isset($_REQUEST["flag"])) {
    $quantity = $_REQUEST["quantity"];
    $basket->updateQuantity($product, $quantity);
    echo $basket->printBasket();
} else {
    if ($basket->removeFromBasket($product)) {
        $_SESSION["userBasket"] = $basket;
        header("Location: /MyEcommerce/Basket.php");
    } else {
        header("Location: /MyEcommerce/Basket.php?error=Item not found");
    }
}
```

This updates the quantity if decreased and prints the new version of the basket page the same way we did for increasing the quantity.

Items in your Basket

Windows 11
RAM 4GB
128GB SSD
FULL HD Screen

Quantity: 10

Price: £349   Total: £3490

Total

Sub-Total (ex VAT):	£3,490.00
VAT (20%):	£698.00
Total:	£4,188.00
Discount Code:	Apply

Check Out

Items in your Basket

Windows 11
RAM 4GB
128GB SSD
FULL HD Screen

Quantity: 6

Price: £349   Total: £2094

Total

Sub-Total (ex VAT):	£2,094.00
VAT (20%):	£418.80
Total:	£2,512.80
Discount Code:	Apply

Check Out

17	Basket	Delete an item from the basket.	Normal	The user should no longer see the item in the basket and the total price should decrease by the price of the deleted item.	

Items in your Basket

Windows 11
RAM 4GB
128GB SSD
FULL HD Screen

Quantity: 4

Price: £349   Total: £1396

Size: 32 Inch
Resolution:
720p Type: LED

Quantity: 1

Price: £249   Total: £249

Total

Sub-Total (ex VAT):	£1,974.00
VAT (20%):	£329.00
Total:	£2,303.00
Discount Code:	Apply

Check Out

Items in your Basket

Windows 11
RAM 4GB
128GB SSD
FULL HD Screen

Quantity: 4

Price: £349   Total: £1396

Total

Sub-Total (ex VAT):	£1,675.20
VAT (20%):	£279.20
Total:	£1,954.40
Discount Code:	Apply

Check Out

The first screenshot shows that there are 2 products in the basket with a total price of £2303.00, but in the second screenshot, the second item is deleted, so the total price has decreased by the amount of the deleted item plus 100 which is the VAT, therefore the test has passed.

18	Basket	Add an item to the basket while the user is logged in.	Normal	The basket should be updated and no errors should appear.	

Items in your Basket

Windows 11
RAM 4GB
128GB SSD
FULL HD
Screen

Quantity: 1

Price: £349   Total: £349

Total

Sub-Total (ex VAT):	£418.80
VAT (20%):	£69.80
Total:	£488.60

Discount Code: _____   **Apply**

Check Out

The screenshot shows that the product has been added to the basket, showing the total price and other information about the product, so the test has passed.

19	Basket	Adding items to the basket while the user is not logged in.	Erroneous	The basket should not be updated and the user should be redirected to the login page.	

The basket wasn't updated, and when the user clicks on the basket they get redirected to the login page, so the test has passed.

20	Basket	Create a new basket.	Normal	The user should see 2 different baskets in the Basket Page	

21	Checkout	Inputting valid credit card details.	Normal	The order should be added to the order table.	

The reason why this test has failed was that in the DoCheckout.php file I did not consider what would happen if the user didn't check the checkbox. Therefore, to fix this I added an if statement that checks if the checkbox SaveCard is not set, if it's not set then insert the details of the card into the order table and instead of inserting the card id it just inserts the card number used. I tested this by checking out without saving the card and the result was that the order details were added to the order table.

```php
if (isset($saveCard)) {
    $stmt = $mysqli->prepare("SELECT * FROM `epayment_methods` WHERE CardNumber=?");
    $stmt->bind_param("i", $cardNum);
    $stmt->execute();
    $res = $stmt->get_result();
    $stmt->close();
    if ($res->num_rows == 1) {
        $row = $res->fetch_assoc();
        $messages[] = "card is already saved";
    } else {
        $regQuery = "INSERT INTO `epayment_methods` (`CustomerID`, `CardNumber`, `Exp_Date`, `CVV`) VALUES (?, ?, ?, ?)";
        $stmt2 = $mysqli->prepare($regQuery);
        $stmt2->bind_param("iisi", $userID, $cardNum, $exp, $cvv);
        $stmt2->execute();
        $stmt2->close();
        $messages[] = "card has been saved";
    }
}
if (!isset($saveCard)){
    $orderQuery = "INSERT INTO `eorders` (`UserID`, `PaymentID`, `totalPrice`) VALUES (?, ?, ?)";
    $stmt1 = $mysqli->prepare($orderQuery);
    $stmt1->bind_param("iii", $userID, $cardNum, $price);
    $stmt1->execute();
    $stmt1->close();
}
$orderQuery = "INSERT INTO `eorders` (`UserID`, `PaymentID`, `totalPrice`) VALUES (?, ?, ?)";
$stmt1 = $mysqli->prepare($orderQuery);
$stmt1->bind_param("iii", $userID, $row["CardID"], $price);
$stmt1->execute();
$stmt1->close();
$messages[] = "Order has been submitted";
$_SESSION["allmessages"] = $messages;
header("Location: /MyEcommerce/Welcome.php");
exit;
```

22	Checkout	Inputting invalid credit card details.	Erroneous	An error message should appear to the user stating the	

				invalid inputs.	

The user did not receive any error messages, so the test has failed.
I fixed the problem by using the errors array that I had created earlier in the DoCheckout.php file and stored it in the session by calling it in the checkout.php file which represents the checkout page. I used this array to check which inputs are invalid as any input that is invalid was added to the array in the DoCheckout.php file, and based on the input name in the array I printed the required message. I tested this again by leaving all inputs blank and the error messages were printed successfully.

```php
<?php
$myErrors = array();
if (isset($_SESSION["allerrors"])) {
    $myErrors = $_SESSION["allerrors"];
    unset($_SESSION["allerrors"]);
}
?>
<div id="cardNum">
    <p id="Label">Card Number</p>
    <p><input class="textInput" type="text" name="cardNum" /></p>
    <?php
        if (in_array("cardNum", $myErrors)) {
            echo "<p class='errorMessage'>Card Number is not valid</p>";
        }
    ?>
</div>
<input class="textInput" type="text" name="exp" placeholder="Expiry Date" style="width:40%; float:left"/>
<input class="textInput" type="text" name="cvv" placeholder="CVV" style="width:30%; float:right"/>
<?php
    if (in_array("exp", $myErrors)) {
        echo "<p class='errorMessage'>Expiry Date is not valid</p>";
    }
```

Shipping Details

First Name

Last Name

Phone Number

Country

Address

E.g. Door Num + Street Nam

Postcode

Card Details

Card Number

Card Number is not valid

Expiry Date   CVV

Expiry Date is not valid
CVV is not valid

☐ Save Card for Future Purchases

Save

23	Checkout	Ticking the box to allow the system to store the card in the database.	Normal	The card should be saved and stored in the payment table in the database.	

Shipping Details

First Name
abdul

Last Name
bari

Phone Number
07488982404

Country
UK

Address
Victoria Road 17

Postcode
HA4 0LS

Card Details

Card Number
5512345678923145

8/25   7777

☑ Save Card for Future Purchases

Save

CardID	CustomerID	CardNumber	Exp_Date	CVV	addedDate
1	1	5512345678912345	8/24	1234	2021-12-01 13:03:05.796456
21	1	5512345678954321	8/29	4321	2021-12-17 09:24:36.668198
22	1	5512345678945321	8/24	1234	2021-12-17 10:21:01.357589
23	1	5512345678923145	8/25	7777	2022-01-24 14:33:19.118144

The screenshots show that the credit card details have been added to the payments table so the test has passed.

| 24 | Checkout | Not allowing the system to store the card by not ticking the box. | Normal | The card should not be saved and stored in the payment table in the database. | |
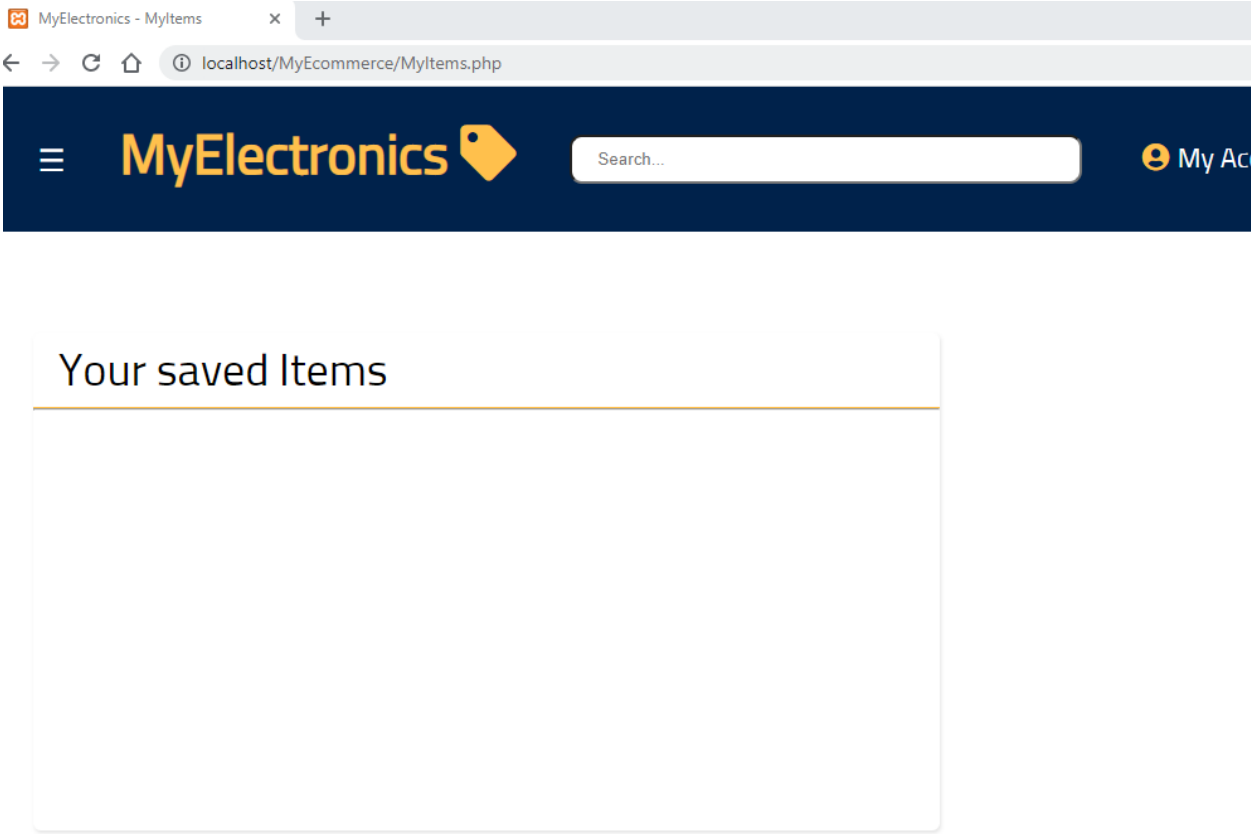
After clicking save, the user was redirected to the welcome page, receiving a message saying the order has been submitted which disappears after 3 seconds. Without saving the card, the test has passed.
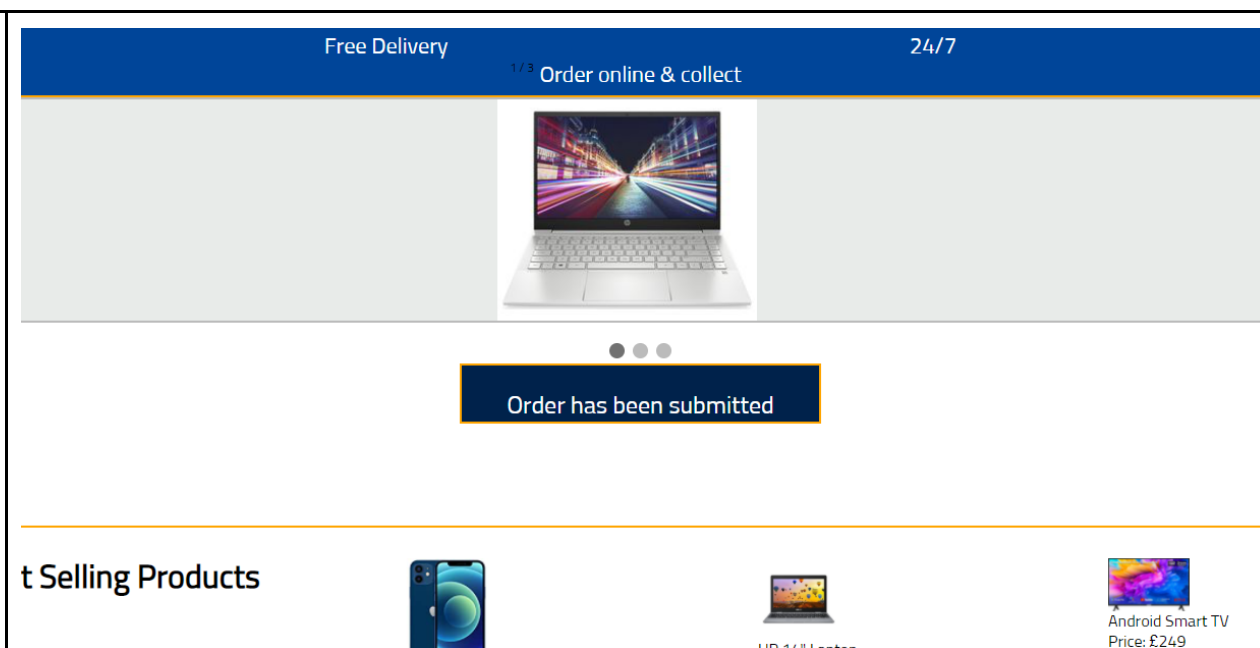
25	Purchase History	Adding items to the basket and checking out with valid credit card numbers, sort codes, dates and billing addresses.	Normal	The purchase history should be updated and the user should be able to see the items he/she purchased.	
26	Administrator - Delete a user	Delete a user that exists in the database by typing the first name and the ID in the search bar	Normal	The user should be deleted from the system.	
27	Administrator - Delete a user	Try and delete a user that doesn't exist in the database by searching the first name and the ID	Erroneous	An error message should appear informing the admin that the user doesn't exist.	
28	Delete a user	Login with the account that got deleted	Erroneous	The user should not be able to log in as the account got deleted from the database.	
29	Stock	Update the amount of stock when the user adds a product to the basket.	Normal	The amount of stock should be decreased based on the quantity the user has purchased.	
30	Admin - Stock	Add stock for a certain product.	Normal	The product table should be updated and stock should increase based on the quantity added by the admin.	
31	Links	Clicking on the basket link in the header.	Normal	The user should be redirected to the basket page.	

| 32 | Links | Clicking on the My Items link in the header. | Normal | The user should be redirected to the My Items page. | |

33	Links - Admin	Clicking on the Admin link in the header.	Normal	The administrator should be redirected to the admin page.	
		The admin was redirected to the page.			
33.1	Links - Admin	Login with an admin account and check if the admin link appears	Normal	The admin link should appear in the header.	
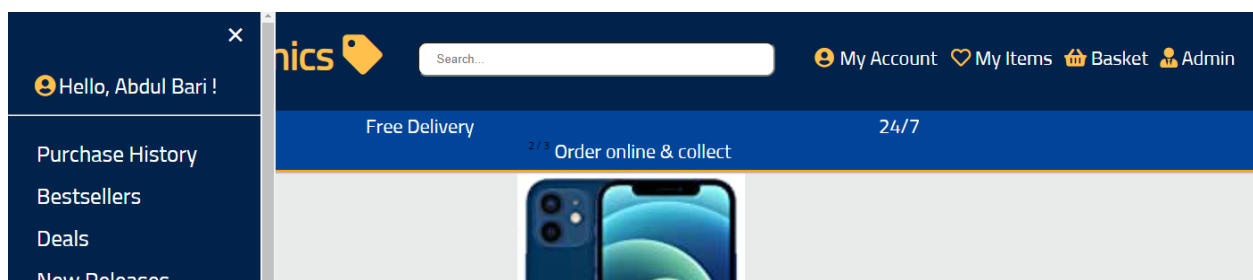
I logged in with an admin account and the admin link appeared in the navigation bar, therefore the test has passed.

33.2	Links - Admin	Login with a user account and check if the admin link appears	Normal	The admin link should not appear in the header.	
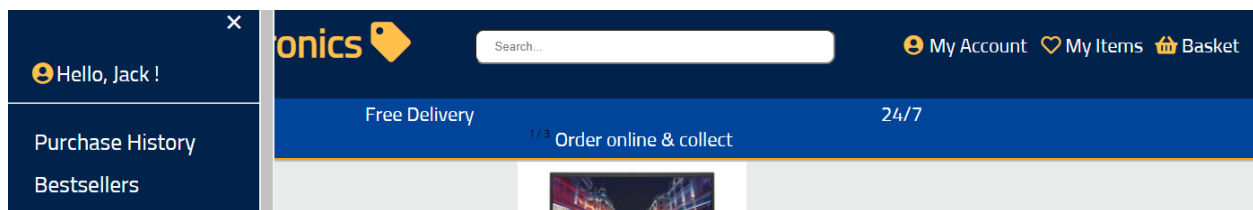
I logged in with a user account and the admin link did not appear in the navigation bar, and so the test has passed.

34	Favourite Items	Adding a product to favourite items.	Normal	The product should be on my favourite items page.	

Your saved Items

| | | Windows 11 RAM 4GB 128GB SSD FULL HD Screen | Price: £349 | Move to Basket |
| | | Size: 32 Inche Resolution: 720p Type: LED | Price: £249 | Move to Basket |
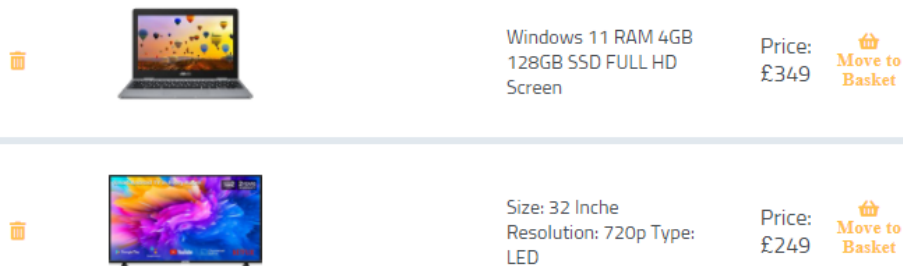
The products were added successfully to my favourite items page as shown in the screenshot, so the test has passed.

35	Favourite Items	Adding an out of stock product to Favourite items.	Normal	The product gets added to favourite items.	

Although this product has no stock, it was still added to my favourite items page, and so the test has passed.

36	Favourite Items.	Adding items to favourite items while the user is not logged in.	Erroneous	The user should be redirected to the login page.	
37	Favourite Items	Remove an item	Normal	The item should get removed from favourite items.	

The second item(in test 34) was removed from my favourite items page, as shown above, therefore the test has passed.

38	Admin - Edit Items	Edit the name of a product.	Normal	The name of the product should be updated in the products table.	
39	Admin - Edit Items	Increase the price of a product.	Normal	The price of the product should be updated in the products table.	
40	Admin - Edit Items	Set a discount on a product.	Normal	The system must calculate the discount and decrease the price, and the discount	

				percentage should appear next to the price on the product page.	
41	Admin - Edit Items	Edit the description of a product and has to be between 50 - 500 words	Normal	The description of the product should be updated in the products table.	
42	Admin - Edit Items	Edit the description of a product and make it less than 50 words.	Extreme	The user should receive an error message informing them the minimum amount of words is 50.	
43	Admin - Edit Items	Edit the description of a product and make it more than 500 words.	Extreme	The user should receive an error message informing them the maximum amount of words is 500.	
44	Admin - Edit Items	Edit the image of a product.	Normal	The image of the product should be updated in the products table.	
45	Discounts	Set a buy 1 get 1 free offer on a product.	Normal	If the user gets 2 of that product, then he/she must only be charged for one of them and the subtotal must appear in the basket.	
46	Discounts	Use a promotion code that exists in the database.	Normal	The promotion code must be fetched from the database and must be applied and the price should be updated.	(green)

Items in your Basket

🗑	(TV image)	Size: 32 Inche Resolution: 720p Type: LED	Quantity [2]	Price: £249 Total: £498
🗑	(Laptop image)	Windows 11 RAM 4GB 128GB SSD FULL HD Screen	Quantity [3]	Price: £349 Total: £1047

Total

Sub-Total (ex VAT):	£1,545.00
VAT (20%):	£309.00
Total:	£1,854.00
Discount Code: [WELCOME21]	Apply
Check Out	

Items in your Basket

🗑	[TV image]	Size: 32 Inche Resolution: 720p Type: LED	Quantity [2]	Price: Total: £249 £498
🗑	[Laptop image]	Windows 11 RAM 4GB 128GB SSD FULL HD Screen	Quantity [3]	Price: Total: £349 £1047

Total

Sub-Total (ex VAT):	£1,545.00
VAT (20%):	£309.00
Discount Amount:	£463.50
Total:	£1,390.50
Check Out	

As shown in the screenshots, after entering the code WELCOME21, a discount of 25% was applied, the discount amount was displayed as well as the total price was updated. So, the test has passed.

47	Discounts	Use a promotion code that does not exist in the database.	Erroneous	The user must receive an error message saying the code is invalid/unavailable.	

The user received a message saying the discount is unavailable.

Total

Sub-Total (ex VAT):	£598.00
VAT (20%):	£119.60
Total:	£717.60
Discount Code: WELCOME22	Apply
Check Out	

Discount unavailable

48	Basket	Add an item to the basket and check the total price.	Normal	The VAT of 20% must be added to the price of the product and the total price should appear at the bottom of the basket.	

Items in your Basket

🗑	[laptop image]	Windows 11 RAM 4GB 128GB SSD FULL HD Screen	Quantity: 1	Price: £349 Total: £349
🗑	[TV image]	Size: 32 Inche Resolution: 720p Type: LED	Quantity: 1	Price: £249 Total: £249

Total

|	
Sub-Total (ex VAT):	£598.00
VAT (20%):	£119.60
Total:	£717.60
Discount Code:	Apply

Check Out

The screenshots show that a VAT of 20% was calculated and displayed under the sub-total price.

49	Admin - Adding items	Add a new item to the store with the correct name and description.	Normal	The product should be added to the database.
50	Adding items	Search for the new item in the correct category	Normal	The user should be able to see the product in the results page.
51	Adding items	Search for the new item in the incorrect category	Erroneous	The user should get an error message informing them the product is not found.
52	Admin - Adding items	Add a new item to the store with an incorrect name and description.	Erroneous	The product should not be added to the database and the admin should receive an error.
53	Admin - Deleting items	Search for a product that exists in the database and delete it.	Normal	The product should be deleted from the database.
54	Admin - Deleting items	Search for a product that doesn't exist in the database and delete it.	Erroneous	The admin should get an error saying the product is not found.
55	Deleting items	Search for the deleted item without specifying the category.	Normal	The user should get a message saying the product is no longer available.
56	Sales report	Add to the orders table and check the sales report to see the number of orders that day, most purchased product/categories and revenue.	Normal	The number of orders that day, most purchased product/categories and revenue must be updated.
57	Sales report	Click revenue in detail.	Normal	The admin should be able to see the quantity sold and revenue for each product separately.

58	Sales report	Go to previous months to see sales reports	Normal	The user should be able to select a month in the last 12 months and see the report	
59	Welcome Page	Test the page in a different browser.	Normal	The page should appear correctly.	
	The page appears correctly in the Firefox browser.				
60	Welcome Page	Test the page on a mobile phone	Normal	The page should appear correctly.	
61	Welcome Page	Change the size of the Login page on a computer.	Normal	The elements of the page should change sizes based on the change in the size of the page.	
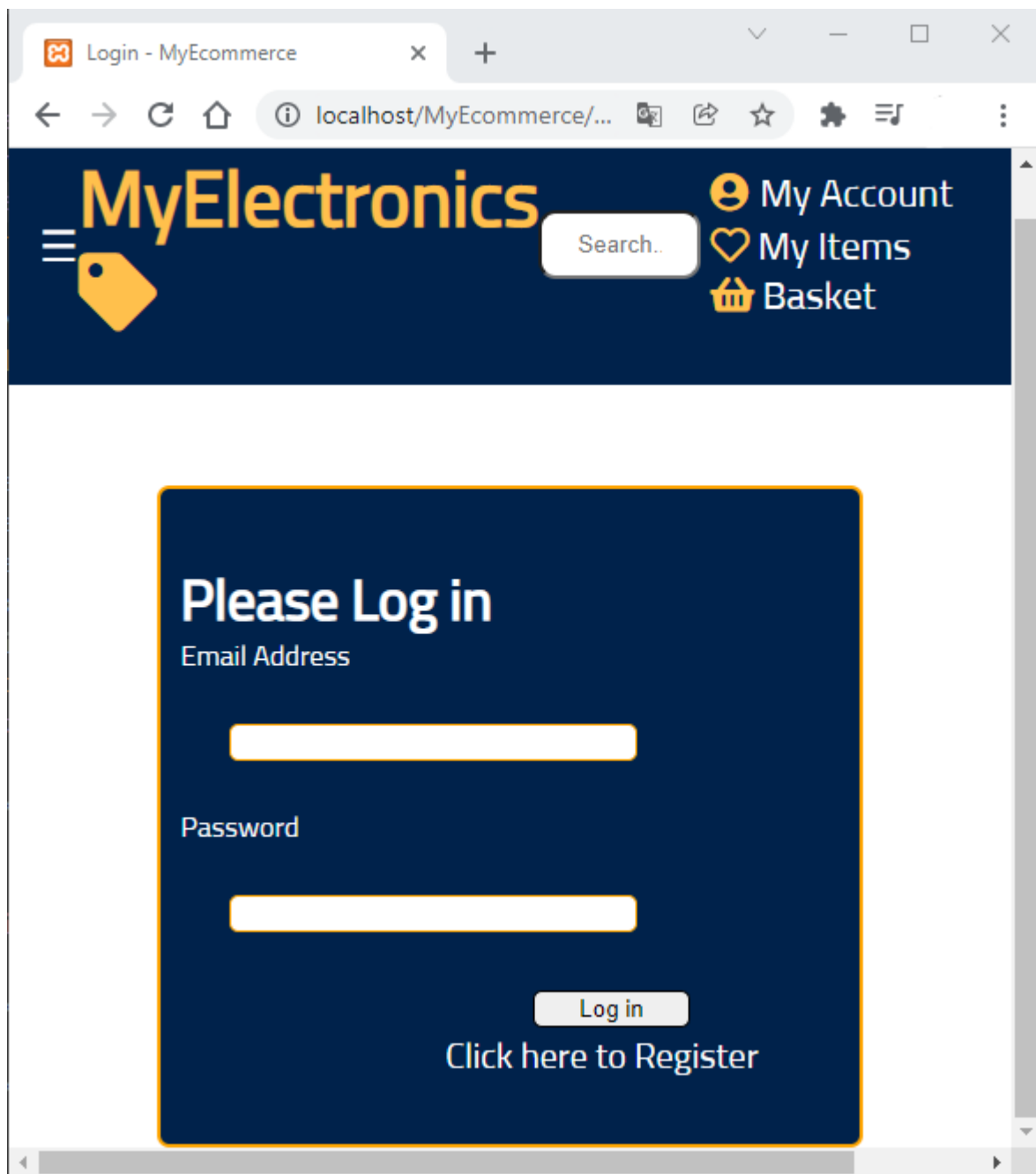
The elements changed position to fit on the page, therefore, the test has passed.

62	Links	Login with a user account and go into the admin page by typing the link manually.	Extreme	The user should be redirected to the welcome page.	

The error was in the function isAdmin() in the utilities.php file, this is because the function redirected the user to the login page if the user wasn't logged in which is fine, however, it treated the logged-in user with the same thing which resulted in a failed test.
I fixed this by creating an else if statement that redirects the logged-in user to the welcome page.

Before:

```
function isAdmin()
{
    if (!isset($_SESSION["myUser"]) || $_SESSION["myUser"]->getUserType()
!= 0) {
        header("Location: index.php"); //Login Page
        exit;
    }
}
```

After:
```
function isAdmin()
{
    if (!isset($_SESSION["myUser"])) {
        header("Location: index.php"); //Login Page
        exit;
    } else if ($_SESSION["myUser"]->getUserType() != 0) {
        header("Location: Welcome.php");
        exit;
    }
}
```

63	Links	Without logging in with any account, access the admin page by typing the link manually.	Extreme	The user should be redirected to the index page to log in.	
		The user was redirected to the index page to log in.			
64	Browse	Search for a product and see the images.	Normal	The user should be able to see all pictures clearly and swap between them.	
65	Browse	Check the alt(alternative) text of an image.	Normal	If the image is not loading then the user should be able to see text describing the image.	
66	Browse	Enlarge the image of a product.	Normal	The user should be able to zoom in/out.	
67	Basket	Add a product to the basket and see the image.	Normal	The user should see one picture of the product with a smaller size.	
68	Browse	Search for a product and filter the results based on price.	Normal	The user should see all the products that are in the price range specified by the user.	
69	Browse	Search for a product and filter the results based on price, and	Erroneous	The user should receive an error message saying that no	

		make the range too little.		product is found in that range.	
70	Browse	Search for a product and filter the results based on colours, sizes or brands.	Normal	The user should be able to see all the filtered results.	
71	Browse	Search for a product and filter the results based on colours.	Normal	The user should be able to see all the filtered results.	
72	Browse	Search for a product and filter the results based on brands.	Normal	The user should be able to see all the filtered results.	
73	Favourite Items	Move an item from favourite items to the basket	Normal	The item should be added to the basket	

Your saved Items

Windows 11 RAM 4GB 128GB SSD FULL HD Screen

Price: £349

Move to Basket

Items in your Basket

Windows 11 RAM 4GB 128GB SSD FULL HD Screen

Quantity 1

Price: £349 Total: £349

The screenshot shows that this item was initially added to the My Items section, then was moved to the basket by clicking the button Move to Basket, which means the test has passed.

74	Sidebar Nav	Expand the sidebar navigation	Normal	The sidebar nav should be animated and expanded.	
75	Sidebar Nav	Close the sidebar navigation	Normal	The sidebar nav should be animated and closed.	
75.1	Sidebar Nav	Expand the sidebar navigation while logged in.	Normal	The sidebar nav should be animated and expanded and it should print the name of the user at the top.	

75.2	Sidebar Nav	Expand the sidebar navigation while not logged in.	Normal	The sidebar nav should be animated and expanded and it should print "Sign in" at the top.	
76	Welcome page	From another page, go to the welcome page by clicking on the logo in the navigation bar.	Normal	The user should be redirected to the welcome page.	
77	Navigation Bar	Hover over "My Account" in the navbar while not logged in.	Normal	A dropdown menu should appear giving the user the option to log in.	
78	Navigation Bar	Hover over "My Account" in the navbar while logged in.	Normal	A dropdown menu should appear giving the user the option to either go to purchase history or to log out.	
79	Navigation	Before logging in, in the index page and in the login form click on the "Click here to register" link.	Normal	The user should be redirected to the registration page to create an account.	