ISYS2160 LocalShop Testing Report

| **Feature 1 - Product Catalogue** | |
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| Catalogue page | Products are displayed with name, price, image.    Product description, brand and category can be found when users view the product.    Filters work expectedly, displaying only items within the chosen category. |
| Admin functions | Admin can add new products by filling in the form, upon success, the new product is displayed along with others.    Admin can update or delete products with these buttons. Clicking update will prompt the admin to fill in a form for update, while the delete button will remove the product from the catalogue.    Successful update of the product description from Juicy strawberry to Sour strawberry as well as the price of the product.    Successful delete of Strawberry product, it cannot be seen on the product catalogue anymore. |

| **Feature 2 - Shopping cart** | |
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| Customer can add products to cart | Modifying the quantity and clicking the “Add to Cart” button adds the items to the cart.    Successfully added the item to the cart. |
| Customer can update quantity | Correctly display new quantity as well as update the total price of products in the cart. |
| Customer can remove product | Customers can remove products using the “Clear my cart” button.    There is no longer the Samsung Laptop in the cart anymore, it has been successfully discarded, the total amount is also updated as well. |
| Products summary & Checkout | As shown in the above images, the cart displays important information about products in it, as well as calculating the total amount of money that needs to be paid. Customers can navigate to the payment site by clicking the “Move to checkout” button.    Successfully redirected users to Stripe to checkout. |

| **Feature 3 - Secure Payment Gateway** | |
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| User can securely pay | Users can fill in the card details, however, for testing we only use specific card information as listed in the above image. Cards that have any fields different from those will not be accepted, as shown in the below image.    This card has a different number, thus is not accepted.    If the card user enters is valid, the payment is processed and the user is redirected back to the application with a message “Payment Successful”    Successfully redirected the user back to the application with a message indicating a complete payment. |

| **Feature 4 - Order Management System** | |
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| Users can view their order history | Users can see their order history in the “Order” tab, which shows id, time of purchase, cost, and current status of each order.    In addition, they can click on each order to find more detailed information such as products and respective quantities. |
| Admin can access the admin panel to manage orders | Admins can access the “Manage Order” tab to update order status, simply by choosing a status from the drop down list and clicking “update” to change the status.    Successfully changed the order status to delivered. |

| **Feature 5 - User Authentication & Authorisation** | |
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| Guest Page Landing | Correctly displays “Register” and “Login” buttons that lead guest users to log in or register to our system. |
| Sign Up | Correctly identifies edge cases such as invalid or taken email addresses, short passwords, and empty username. The system alerts users with appropriate error messages. Upon success, users are redirected to the Login page.    Successfully directed users to the Login page. |
| Log In | Correctly identifies errors cases such as users entering wrong credentials. The system correctly alerts users when the username or password does not match to our database. Upon success, users are redirected to home.    Successfully redirected users to the home page. |
| User Authorisation | Normal users are redirected to the homepage with proper header options to view products, cart, and previous orders. They cannot access the admin panel. |
| Admin Authorisation | Admin users are redirected to the homepage with proper header options to view products and have access to admin features. |
| Log Out | Users are directed to the guest landing page after they log out. |
| Token Authorisation | Once a user successfully logs in, the JWT token is generated using the user's information and sent as a http-only cookie from the backend server to the client side(frontend).    If some email address or password is provided from the user, the server throws an error and shows the corresponding error message, and it does not generate any JWT token.  When a user logs out, the cookie is automatically cleared out and user is not able to use any features that require authentication and authorisation. |