

# **SOFTWARE VERIFICATION, VALIDATION AND TESTING**

## **TESTING DOCUMENTATION**

Asos.com

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# 1. Introduction

In today's digital age, e-commerce has emerged as an integral part of the global economy, facilitating convenient and efficient online shopping experiences. This project focuses on software verification and validation for ASOS.com, a prominent online fashion and beauty retailer. We aim to enhance the functionality, performance, security, and user experience of the ASOS.com web application. By conducting thorough testing, we will identify and address issues that could impact its operations, ultimately improving the platform for its global user base.

## 1.1. About the Project

ASOS.com is a renowned and widely recognized online fashion and beauty retailer catering to a diverse and extensive customer base worldwide. The platform is a one-stop destination for a broad spectrum of fashion products, including clothing, accessories, and beauty items. ASOS.com is committed to delivering a seamless and user-friendly online shopping experience to its customers.

The importance of software verification and validation is paramount for ASOS.com, as the platform undergoes frequent updates and enhancements to meet the ever-evolving expectations of its global user community.

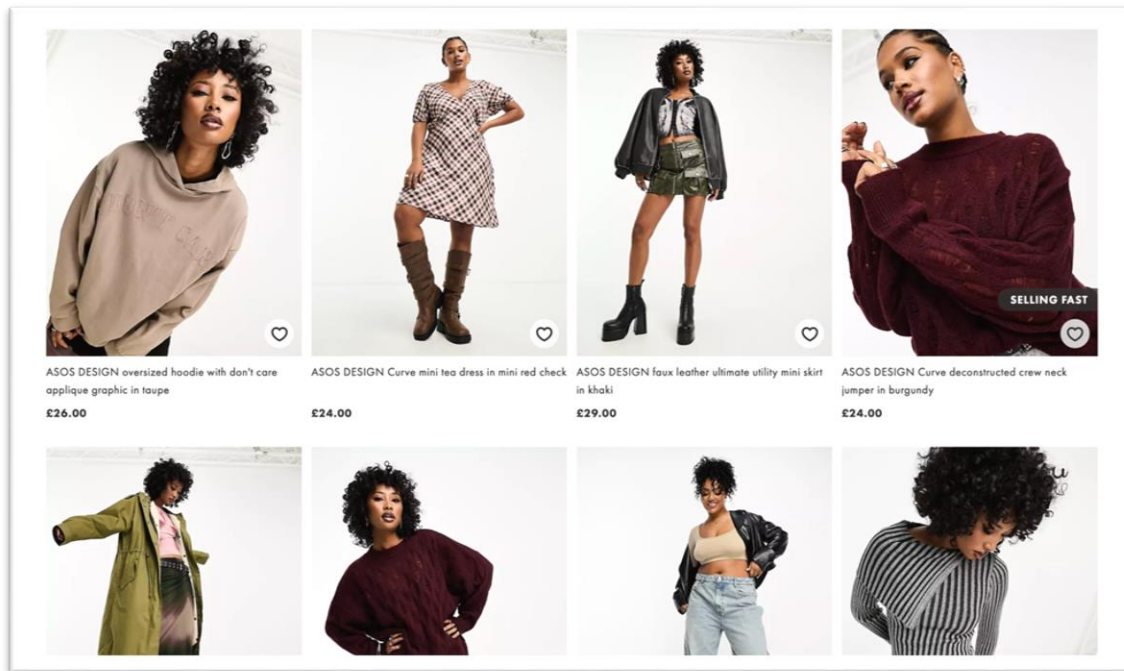
This project focuses on scrutinizing ASOS.com's software for functionality, security, performance, and usability. The goal is to identify and address any potential issues that could affect the website's operations, ensuring a positive and secure shopping experience for its users.

Home Page Link: <https://www.asos.com/women/>

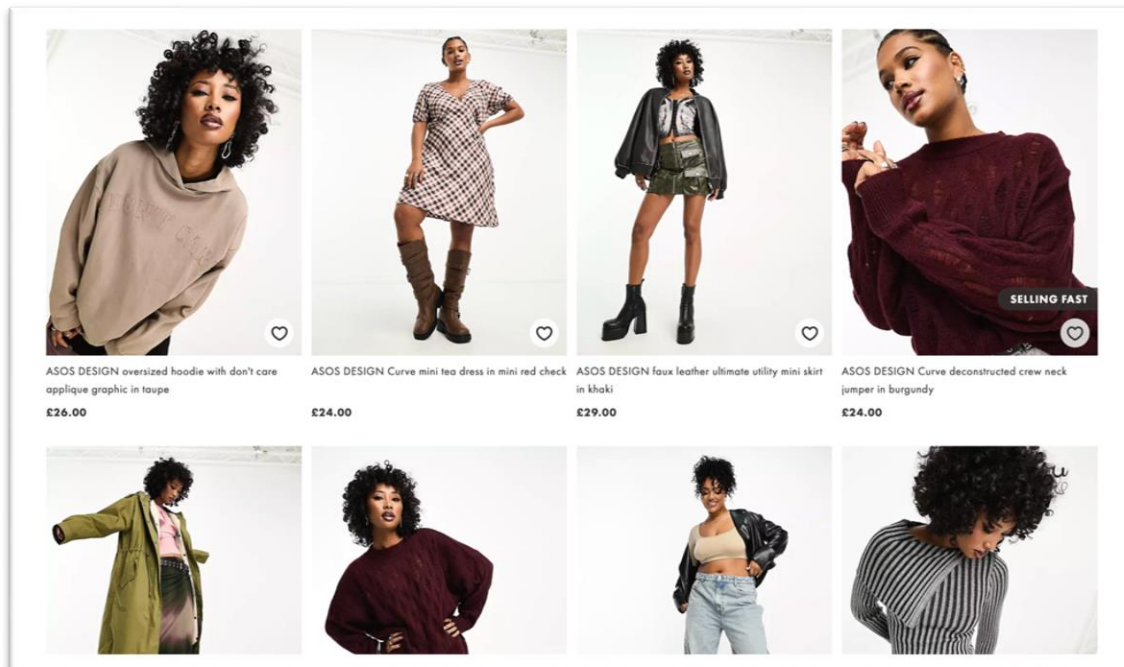
GitHub Repository Link: <https://github.com/merjjem/SVVT-Project.git>

## **1.2. Project Functionalities and Screenshots**

1. Product listings - display products with images, names, prices and filter and sort products based on categories, sizes, colors, etc.
2. Product details - provide detailed information for each product, including descriptions, specifications, and customer reviews.
3. Search functionality - allows user to search for products using keywords or filters and present search results with relevant products.
4. Shopping cart – enables users to add products to their cart, display the cart's contents, including quantities and total cost. Also, it allows users to edit or remove items from the cart.
5. Checkout process - guide users through the steps to complete a purchase, including shipping and payment information and provide order summaries and confirmations.
6. User account management – allows users to create, log in, and manage their accounts and provides options for updating personal information and changing passwords.
7. Wishlist – this functionality enables users to add products to their wish list for future consideration and allow users to manage and prioritize wish list items.
8. Payment processing - offers various payment methods, such as credit cards, PayPal, and other secure options, it ensures secure and efficient payment processing.
9. Order history - allow users to view their order history and check the status of current orders.
10. Newsletter subscription - allow users to subscribe or unsubscribe from newsletters and updates
11. Account recovery - provide options for password reset and account recovery
12. Localization and language preferences – It supports multiple languages and currencies to cater to a global user base
13. Mobile responsiveness: ensure that the website is user-friendly and functional on mobile devices.
14. Browser compatibility - make sure the website works seamlessly across different web browsers.



To gain a deeper understanding of the services and features ASOS provides, the following screenshots illustrate some of the key functionalities and capabilities offered



by the platform. These visuals will help shed light on how ASOS caters to the diverse needs of its user base.

## PRODUCT LISTING

## PRODUCT DETAILS

tennis


×

Q

Tennis	102
Tennis Skirt	25
Tennis Dress	10
Tennis Shoes	3
Adidas Tennis	18
Tennis Skort	14

MY BAG

Items are reserved for 60 minutes




£26.00

ASOS DESIGN bias midi skirt in red check

RED CHECK | EU 36 | Qty 1

Save for later



£53.00

Accessorize tiered maxi beach summer dress in red and white

White | S | Qty 1

Save for later

SUB-TOTAL

£79.00

TOTAL

Sub-total

£79.00

Delivery

Standard Delivery (£8.00)

CHECKOUT

WE ACCEPT:

VISA

MasterCard

Apple Pay

Google Pay

VISA

Got a discount code? Add it in the next step.

ASOS

WOMEN

MEN

Search for items and brands

Q

🛒

👤

📄

🛍️

Sale

New in

Clothing

Dresses

Shoes

Accessories

Autumn

Gifting

Face + Body

Topshop

Sportswear

Brands

Outlet

Marketplace

PAY ON ASOS

APPLE PAY

BILLING ADDRESS

CHANGE

Merjem Ahmedspahić  
Branilaca Šipa 26  
Sarajevo  
Bosnia and Herzegovina  
710000  
Bosnia and Herzegovina  
38761377741

PAYMENT TYPE

CHANGE

CREDIT / DEBIT CARD

VISA

VISA (3011)  
Exp: 07/25  
Ahmedspahić Tarik

CVV

WE ACCEPT:

VISA

MasterCard

Apple Pay


Google Pay

VISA

BUY NOW

2 ITEMS

Edit




£26.00

ASOS DESIGN bias midi skirt in red check

RED CHECK | EU 36

Qty: 1



£53.00

Accessorize tiered maxi beach summer dress in red and white

White | S

Qty: 1

Subtotal

£79.00

Delivery

£8.00

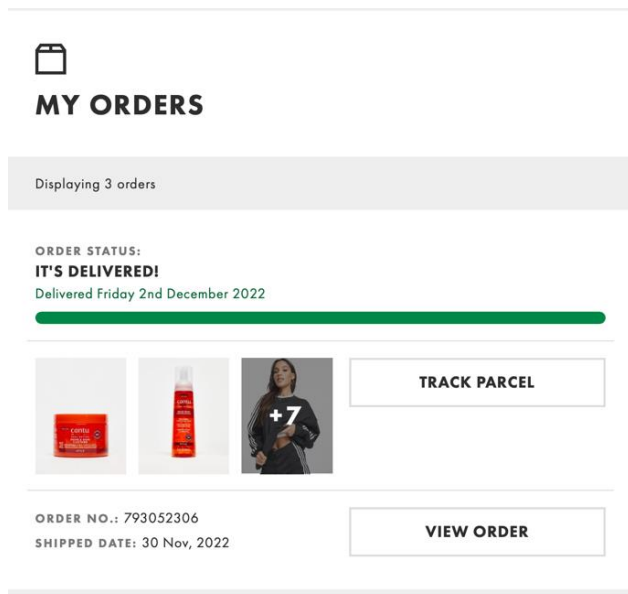
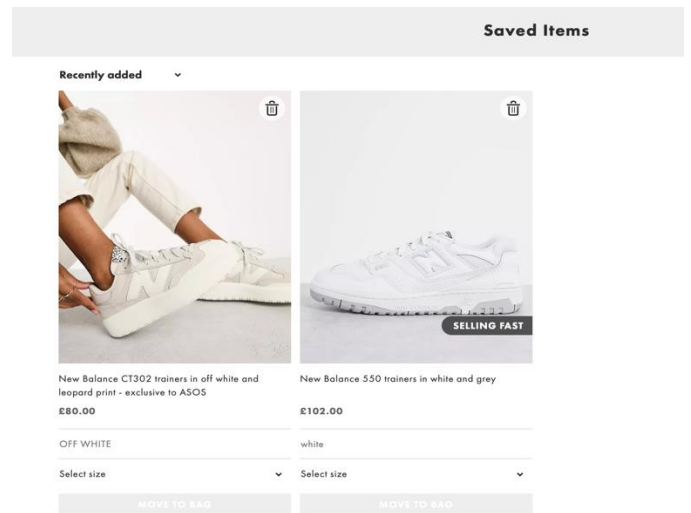
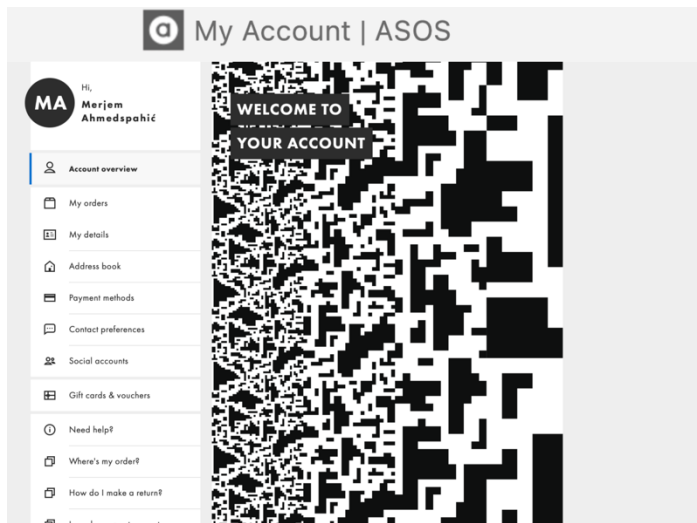
TOTAL TO PAY

£87.00

FREE STANDARD DELIVERY TO BOSNIA AND HERZEGOVINA WHEN YOU SPEND OVER £200.00

SEARCH FUNCTIONALITY

SHOPPING CART



CHECKOUT

USER ACCOUNT MANAGEMENT

WHISHLIST

ORDER HISTORY  
LOCALIZATION AND LANGUAGE PREFERENCES

MOBILE RESPONSIVENESS

## PREFERENCES



### SHOP IN:

Bosnia and Herzegovina



### CURRENCY:

£ GBP



UPDATE PREFERENCES

## 2. Bug Report Example

Title: Unable to Login to User Account

Date: October 27, 2023

Reporter: Kerim Kurić (kerim.kuric@stu.ibu.edu.ba)

Priority: High

Platform: Web

Description:





I encountered a critical issue while trying to log in to my user account on the website. Upon entering my valid credentials and clicking the "Login" button, the following problems occurred

Steps to Reproduce:

1. Open the website in Google Chrome (www.asos.com ).
2. Click on the "Login" button.
3. Enter the correct username ("kerim123") and password ("kurickuric3").
4. Click the "Login" button.

Expected result:

The website should log me into my user account, and I should have access to my account dashboard

Actual result:

Instead of logging in, the website displayed an error message login failed please try again without terror code or specific details were provided to help diagnose the issue. Repeated login attempts resulted in the same error message.

### 3. TEST PLAN

#### Introduction

**This test plan outlines the testing approach for a ASOS website, aiming to ensure that the project's features function as intended. The testing process will focus on verifying the correctness and user-friendliness of the project.**

### 3.1. SCOPE

- Verify new user registration
- Validate input data
- Test user login functionality
- Ensure search returns relevant results
- Confirm product details display
- Verify the ability to add products to the cart
- Validate cart contents and pricing
- Validate the ability to add products to the wish list
- Validate accessing help center
- Validate sorting function

### 3.2. Testing Environment and Tools

In our testing environment, we leverage a powerful combination of tools and frameworks to ensure robust and efficient test automation. Our primary focus is on utilizing Visual Studio Code (VS Code) as our integrated development environment (IDE), Selenium WebDriver for browser automation, Jest for JavaScript testing, and TypeScript to enhance the overall reliability and maintainability of our codebase.

## 4. Test Execution

TEST SCENARIO – SEARCHING FOR PRODUCT AND SHOPPING.  
SMOKE TEST

Test step	Test Data	Expected result
-----------	-----------	-----------------

Go to <a href="http://www.asos.com">www.asos.com</a> home page		Homepage is loaded
Click on the "Sale" category in navigation bar at the top of the page		New bar pops up with the list of different categories
Click on the "Selling Fast" subcategory in pop up bar		New page is loaded that list only "Selling fast" items
Hover over one item and click on it		New page is loaded with product details
Click on the dropdown or selection area for choosing the size		A list of available size options should appear in a dropdown menu
Select a size from the available options		Users can choose a size from the available options
Click the "Add to Bag" or button to add the product to the shopping cart		The product is successfully added to the shopping cart with the chosen size
Scroll up and click on cart at the top of the page on the right side to verify that item is added to cart		My cart page is loaded and items is in the cart
On the shopping cart page, locate and click the "Checkout" button		New pages is loaded with sign in form
Enter valid e-mail address in an e-mail address field	Kerim.kuric@stu.ibu.edu.ba	E-mail address is entered
Enter valid password in the password input filed	kerakera	Password is entered
Click on a black and white sing in button below fields		User is successfully logged in and new page is loaded
In the checkout page enter valid shipping address	Branilaca Šipa 26	Address is entered

Enter customers name	Kerim Kuric	Name is entered
Enter valid country	Bosnia and Herzegovina	Country is entered
Enter valid postal code	71000	Postal code is entered
Enter phone number	+378 222 222	Phone number is entered
In the shipping section, choose a shipping method (e.g., standard shipping or express shipping)		Users can choose a shipping method
Choose a payment method		User can choose a payment method
Enter credit card information	Kerim Kuric 07/27 4000 3000 2000 1000 123	Credit card information are entered
Click the "Buy now" button to finalize the order		New page is loaded with the message indicating that order has been successfully placed
Click on the "Shop more" button		User return to the homepage successfully

## 1. TEST SCENARIO- REGISTRATION OF A NEW USER

### REGRESSION TEST

Test step	Test data	Expected result
-----------	-----------	-----------------

Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage.		Homepage is loaded
Click on the User icon in the top right corner		The User icon feature loads without errors.
Click on Join button in the dropdown menu		The Join feature loads without errors.
Enter your e-mail in the "e-mail" input field	merjem.ahmedspahic@stu.ibu.edu.ba	Email is entered successfully
Enter your first name in the input field	Merjem	First name is entered successfully
Enter last name in the input field	Ahmedspahić	Last name is entered successfully
Enter a valid test password	meriMeri1234	Password is entered successfully
Select birth day in a Birth Date field	3	Birth day is selected successfully
Select birth month in a Birth Date field	1	Birth month is selected successfully
Select birth year in a Birth Date field	2002	Birth year is selected successfully
Click the "Join Asos" button		User is registered successfully

## 2. TEST SCENARIO – LOGIN OF A USER

### REGRESSION TEST

Test step	Test data	Expected result
-----------	-----------	-----------------

Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage		Homepage is loaded successfully
Click on the User icon in the top right corner		The User icon feature loads without errors.
Click on the Sign In button in the dropdown menu		Sign in button loads successfully
Enter the correct email	merjem.ahmedspahic@stu.ibu.edu.ba	E-mail is entered successfully
Enter correct password for provided e-mail	nisamSigurna6767	Password is entered successfully
Click the "Sign in" button to submit the login information		User logged in successfully

### 3. TEST SCENARIO – SEARCHING FOR PRODUCT

#### REGRESSION TEST

Test step	Test data	Expected result
Go to <a href="http://www.ASOS.com">www.ASOS.com</a> website		Homepage is loaded
Click on the Search bar		Search bar loads successfully
In the search bar, enter the name of a product	Men Tshirt	Users can initiate a product search by entering a valid product name
Click the "Search" icon to initiate the search		The search results page displays relevant product listings

### 4. TEST SCENARIO- ADDING PRODUCT TO THE WISH LIST

#### REGRESSION TEST

Test step	Test data	Expected result
-----------	-----------	-----------------

Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage		Asos website is loaded
Click on the Search bar		Search bar loads successfully
In the search bar, enter the name of a product	Men Tshirt	Users can initiate a product search by entering a valid product name
Click the "Search" icon to initiate the search		The search results page displays relevant product listings
Click on the wanted item		Item details load successfully
Click wish list button in the right		Product is successfully added to a wish list

## 5. TEST SCENARIO - SIZE CHOOSING

### REGRESSION TEST

Test step	Test data	Expected result
Go to <a href="http://www.ASOS.com">www.ASOS.com</a> website		Homepage is loaded
Click on the Search bar		Search bar loads successfully
In the search bar, enter the name of a product	Men Tshirt	Users can initiate a product search by entering a valid product name
Click the "Search" icon to initiate the search		The search results page displays relevant product listings
Click on the wanted item		Item details load successfully
Select size by clicking on a size selection field	XS	The selected size is clearly visible and selected successfully

## 6. TEST SCENARIO – SORTING PRODUCTS

### REGRESSION TEST

Test step	Test data	Expected result
-----------	-----------	-----------------

Go to <a href="http://www.ASOS.com">www.ASOS.com</a> website		Homepage is loaded
Click on the Search bar		Search bar loads successfully
In the search bar, enter the name of a product	Men Tshirt	Users can initiate a product search by entering a valid product name
Click the "Search" icon to initiate the search		The search results page displays relevant product listings
Click on a "Sort" Button in the top left corner		Dropdown menu loads successfully
Click on a "New In" Button in the dropdown menu		New In products are loaded successfully

#### 7. TEST SCENARIO – ADD TO CART

Test step	Test data	Expected result
Go to <a href="http://www.ASOS.com">www.ASOS.com</a> website		Homepage is loaded
Click on the Search bar		Search bar loads successfully
In the search bar, enter the name of a product	Men Tshirt	Users can initiate a product search by entering a valid product name
Click the "Search" icon to initiate the search		The search results page displays relevant product listings
Click on the wanted item		Item details load successfully
Select "ADD TO CART" button		Item is added to cart successfully

#### 8. TEST SCENARIO – RETURNS INFORMATION

Test step	Test data	Expected result
-----------	-----------	-----------------



Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage.		Homepage is loaded
Click on the User icon in the top right corner		The User icon feature loads without errors.
Click on the “Returns Information” option		Return information help center is loaded successfully

#### 9. TEST SCENARIO – ORDER ISSUES

Test step	Test data	Expected result
Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage.		Homepage is loaded
Click on the User icon in the top right corner		The User icon feature loads without errors.
Click on the “Returns Information” option		Return information help center is loaded successfully
Click on the “ORDER ISSUES” Button		Order issues information’s are loaded successfully

#### 10. TEST SCENARIO – ASOS DELIVERY

Test step	Test data	Expected result
-----------	-----------	-----------------

Navigate to the <a href="http://www.asos.com">www.asos.com</a> homepage.		Homepage is loaded
Click on the User icon in the top right corner		The User icon feature loads without errors.
Click on the “Returns Information” option		Return information help center is loaded successfully
Click on the “Delivery” Button		Delivery information’s are loaded successfully

#### 4.1. Test scenario name

<b>Test Name:</b> joinAsos				
<b>Description:</b> Registration of new user				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 10	<b>Test Data:</b> "email": "merjem.ahmedspahic@stu.ibu.edu.ba", "firstName": "Merjem", "lastName": "Ahmedspahic", "password": "meriMeri1234"	<b>Expected Result:</b>  TO REGISTER NEW USER	<b>Actual Result:</b>  ACCESS DENIED	<b>Status:</b> PASS

<b>Test Name:</b> signInAsos				
<b>Description:</b> Log in				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 5	<b>Test Data:</b> email": "merjem.ahmedspahic@stu.ibu.edu.ba", "password": "nisamSigurna6767"	<b>Expected Result:</b>  TO SIGN IN ACCOUNT	<b>Actual Result:</b>  ACCESS DENIED	<b>Status:</b> PASS

<b>Test Name:</b> searchAsos				
<b>Description:</b> Search for item				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 2	<b>Test Data:</b> "item": "Men Tshirt"	<b>Expected Result:</b>  TO FIND A PRODUCT	<b>Actual Result:</b>  PRODUCT IS FINDED	<b>Status:</b> PASS

<b>Test Name:</b> wishListAdd				
<b>Description:</b> Add product to a wish list				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 4	<b>Test Data:</b>	<b>Expected Result:</b> TO ADD PRODUCT TO WISH LIST	<b>Actual Result:</b> PRODUCT WAS ADDED	<b>Status:</b> PASS

<b>Test Name:</b> sizeCheck				
<b>Description:</b> To choose a size of an item				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 4	<b>Test Data:</b>	<b>Expected Result:</b> TO CHOOSE SIZE ON AN ITEM	<b>Actual Result:</b> SIZE WAS CHOOSSED	<b>Status:</b> PASS

<b>Test Name:</b> sortItem				
<b>Description:</b> Sort searched products				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 4	<b>Test Data:</b>	<b>Expected Result:</b> TO SORT SEARCH	<b>Actual Result:</b> SEARCH WAS SORTED	<b>Status:</b> PASS

<b>Test Name:</b> addToCart				
<b>Description:</b> Add product to cart				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 4	<b>Test Data:</b>	<b>Expected Result:</b> TO ADD PRODUCT TO CART	<b>Actual Result:</b> PRODUCT WAS ADDED	<b>Status:</b> PASS

<b>Test Name: returnsInformation</b>				
<b>Description:</b> To access help centar				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 2	<b>Test Data:</b>	<b>Expected Result:</b> TO ACCES HELP CENTAR	<b>Actual Result:</b> IT WAS ACCESSED	<b>Status:</b> PASS

<b>Test Name: orderIssues</b>				
<b>Description:</b> To access order issues informations				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 2	<b>Test Data:</b>	<b>Expected Result:</b> TO ACCES ORDER ISSUES INFORMATIONS	<b>Actual Result:</b> IT WAS ACCESSED	<b>Status:</b> PASS

<b>Test Name: asosDelivery</b>				
<b>Description:</b> To access delivery informations				
<b>Pre-condition(s):</b> no				
<b>Test Steps:</b> 2	<b>Test Data:</b>	<b>Expected Result:</b> TO ACCES DELIVERY INFORMATIONS	<b>Actual Result:</b> IT WAS ACCESSED	<b>Status:</b> PASS

**Notes:** For the Registration and Login test basically all tests pass but it cannot register or login on chrome driver because page is protected so it denies access.

## 5. Conclusion

### 5.1. Testing Summary

Testing Tool	Total Tests	Passed Tests	Failed Tests
Visual Studio Code Selenium Webdriver Jest Typescript	11	11	0

### 5.2. Final Thoughts

Our final thoughts are really positive, we find this project really interesting and QA overall is really interesting. We don't think that this much of documentation is necessary it took me a lot of time. Overall project was useful and I hope that we answered it well.