

# SPAMAZON

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## Introduction

*The group has decided to make a website called “Spamazon” using different languages such as CSS, HTML, PHP, MySQL, and JavaScript. The website will have a number of pages which will allow customers to login and purchase items from the online store.*

*This report will detail the various aspects of the website and also the approach taken to creating the website. The contribution of each member will be mentioned and which languages were used. To better understand the website the general requirements, the logical design (an Entity Relationship Diagram) and the physical design (annotated screen shots) have also been included. A critical evaluation of our will explain what we have achieved, what we might have done better had we had more time or tools and what we had intended on including but were unable to.*

## System Overview

When the customer first access the website they will be directed to the home page. From there they can view the deal and different products they might be interested. From there the customer can access all other pages. They can browser the product pages, login or have a look at the technical pages such as the policies pages or the about section.

All customer details including invoices will be stored in a back end database. Each customer will have an email address and password stored in order for them to login. When the customer logs in which they can do from the navigation bar at the top of the page, they will have a specialised home page to detail their previous orders and suggest products that they may like to purchase. They will also have their card details stored to make for a faster checkout.

The products are split into three different categories: Men’s, Women’s and Children’s. It is then split up further into tops, bottoms, shoes and “other stuffs.” These are all accessible through the navigation bar at the top of the page. The product pages feature a description of each item, a picture and the price. On the right hand side there are different options for size, colour and quantity to ensure the customer orders the correct item for them.

Once the customer has decided on what they want to purchase they can view their shopping cart. Once again this is accessible from the navigation bar at the top of the screen. Once they are satisfied with their choices they can then proceed to checkout wither using the button in the cart page or from the navigation bar. If the customer does not have their address and payment information stored in their account they will be required to enter it.

If the customer wishes to view any of the company information they can click on one of the links in the footer of any page. In the footer they can also access their own account information if they wish to change any of the information stored about them or to close their account.

## Member Contributions

<u>Author</u>	<u>Languages Used</u>	<u>Breakdown of Work</u>
Craig Morrison	MySQL PHP/HTML JavaScript AJAX	Database including Entity Relationship Diagram SQL Queries Registration / date validation Account pages
Tom Maxwell	PHP/HTML JavaScript SAAS/CSS JQuery	Front end design Add to cart script Website layout General Page Structures
Chloe Forsyth	English CSS SQL	Report Helped format the Product pages SQL Database Insertions
Stewart Key	JavaScript	Session starting Some Input Validation Creating Cookies script Broke lots of stuff Bought Pizza
Aidan O'Grady	PHP/HTML  Various	Started the Search page Policies pages Purchase System  Practical 4

## Approach

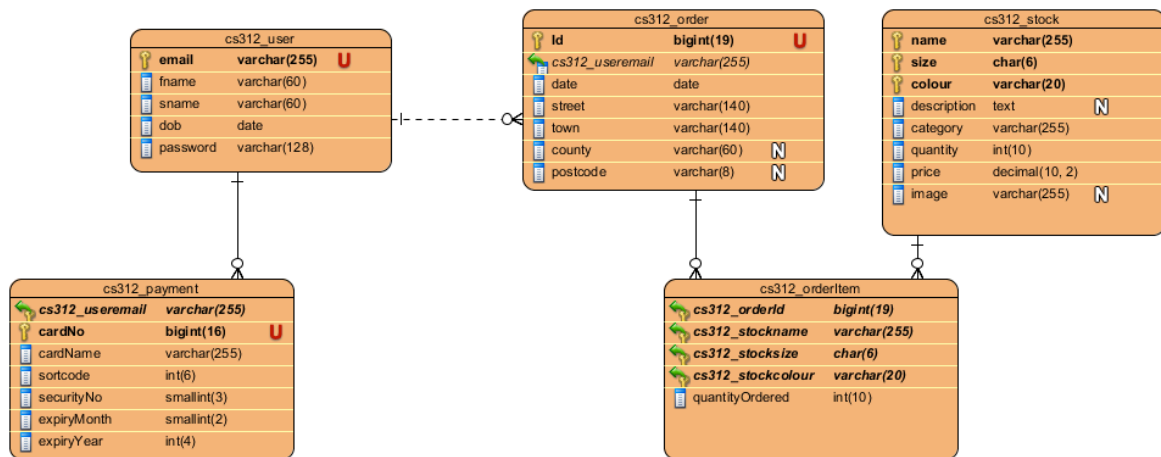
The group decided to use an object oriented design approach to the website. Object Oriented Design can be described as a design strategy where system designers think in terms of 'things' instead of operations or functions. With Object Oriented Design there is no real reason or rhyme to the code. Each section of code relies on an event, like a button click, from the front end by the user. The system as a whole is designed around how each part will interact with each other, how one thing will set in motion another and another like dominos. All through the implementation, the code will be tested and debugged to make sure everything works the way it should. After this the program will be tested as a whole and provided everything works as it should it will be available online.

## General Requirements

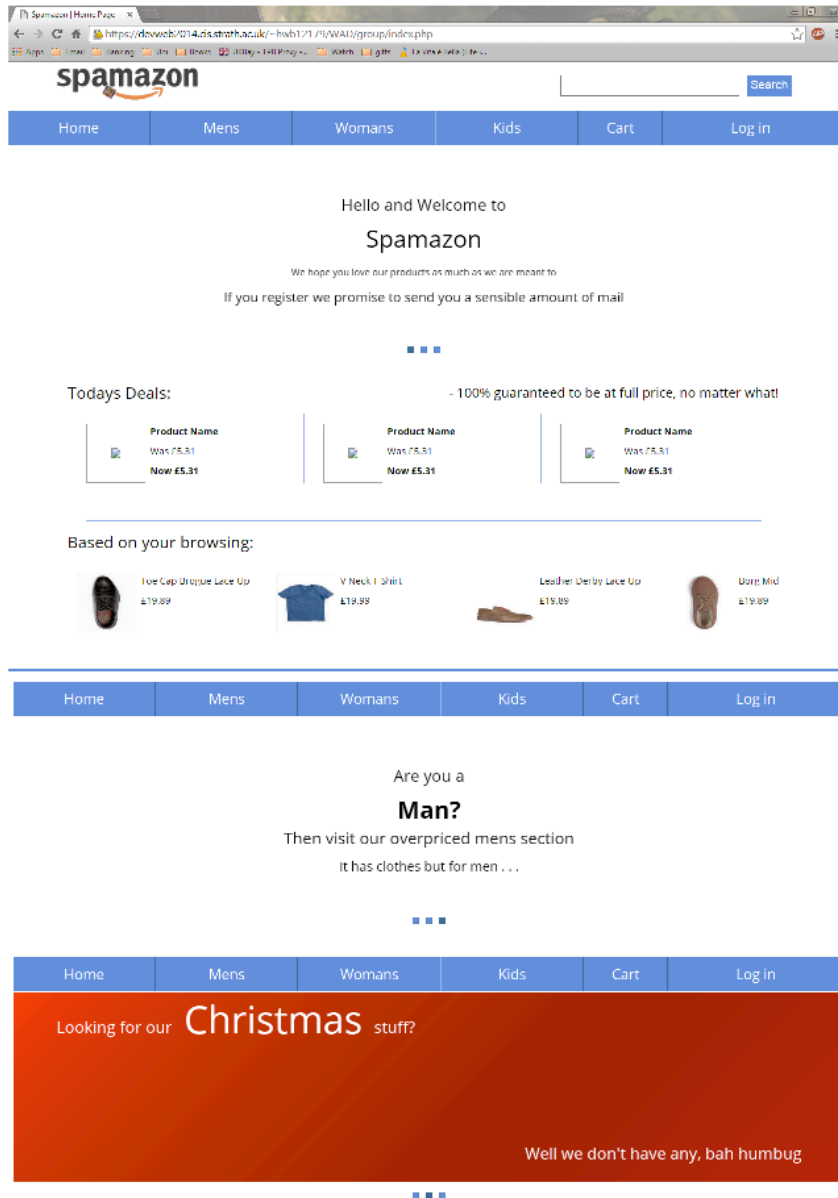
### Functional Requirements:

- Have a log in facility
- Validate user logins
- Be able to store customer information in a back-end database
- Have a selection of products available in at least three sizes
- Be able to see the stock level
- Automatically replenish stock levels
- Have a shopping cart so customers can buy more than one item at a time
- Online payment feature
- Search facility
- Order history

## Logical Design



## User Interface / Physical Design



This is the home screen. It features a search facility in the top left corner, a navigation bar running just below it. The three product options and the cart option are all drop down menus with links to subcategories.

The home page also has a scrolling banner, deals and suggestions based on browsing history.

The banner has 3 different screens.

A welcome screen (above), a christmas screen (below) and an advert for the mens section (left)

Username:

Password:

Log in

Not a member?

Join Us!

The login page checks details against the database of customers, or if a customer is not registered they can click "Join Us!" button to be taken to the registration page.

## Registration

Email:

Password:

Confirm Password:

### Personal Details





First name:

Surname:

Date of Birth:

Create Account

The following items are in your cart:

	<b>Product Name</b> £5.31	<b>Colour:</b> Black	<b>Size:</b> XL	<b>Quantity:</b> 2	<p>Checkout</p>
	<b>Product Name</b> £5.31	<b>Colour:</b> Black	<b>Size:</b> XL	<b>Quantity:</b> 2	
	<b>Product Name</b> £5.31	<b>Colour:</b> Black	<b>Size:</b> XL	<b>Quantity:</b> 2	
	<b>Product Name</b> £5.31	<b>Colour:</b> Black	<b>Size:</b> XL	<b>Quantity:</b> 2	

The view cart page shows the user what items they have in the cart. The user does not need to have an account to purchase items.

## Address

Address Line 1:

Address Line 2:

Town/City:

Post Code:

Country:

Phone Number:

Deliver to this Address

Once the user is happy with the item the checkout button will take them to the checkout page so that they can pay for their items and tell Spamazon where to send their products.

## Card Details

Card Number:

Name on Card:

Expiry Date:  2014

Choose this card.

Manage Orders

Open Orders

Closed Orders

Account Settings

Account Details

Payment Details

Change email

Change password

Change I don't know other stuff

You don't have any stored payment information

Danger Zone

The actions in this section are dangerous and can not be undone. If you close your account or delete the interwebs by accident, support can not help you. Please only perform these actions if you are sure you know what you are doing!

Close account.

The customer's account page (left) can be accessed at trough the footer at the bottom of all pages by clicking on one of the account links.

The customer can use this page to change various account details.

The customer can also delete their account at the bottom of the page. This will take them to a new page (below) to verify this is in fact what they want.

Policies

Terms & Conditions

By using Spamazon you agree to all of the requirements as listed below. Please be aware that Spamazon hold the right to alter the deal. Pray we do not alter it further.

By contrinuing to use Spamazon, you acknowledge that Spamazon hold no legal obligations whatsoever in relation to the sending of goods. Spamazon is also not obligated in regards to the content shown on this website.

Spamazon hold no responsibility over the actions of its users. The views and opinions of its users, if displayed on the website, do not reflect those of Spamazon.

Privacy

Privacy, schmprivacy. If you're using this website why would you put in your actual info? It's a uni project! While we will not actively provide our data to third parties, please be aware that sometimes accidents happen.

Cookies

We will use cookies at some point. Take note when we alter the deal.

Shipping

Things may get shipped... eventually... maybe... it's been known to happen. Again, this isn't an actual store, it's a uni project on web development, so shipping isn't really an option here.

The policies page can also be accessed through the footer at the bottom of each page.

About Us	Policies	Account
<a href="#">About</a>	<a href="#">T&amp;C of Use &amp; Sale</a>	<a href="#">Open Orders</a>
<a href="#">People</a>	<a href="#">Privacy</a>	<a href="#">Past Orders</a>
<a href="#">Contact</a>	<a href="#">Cookies</a>	<a href="#">Account Settings</a>
<a href="#">Press</a>	<a href="#">Shipping</a>	<a href="#">Returns &amp; replacements</a>

## About Us

Spamazon was created as a project for the class CS312 - Web Application Development at the University of Strathclyde, more information about the class can be found [here](#). The aim of the assignment is gain experience in the following technologies: HTML, CSS, JavaScript, AJAX, PHP and SQL. We are allowed to use other technologies to achieve the goal but must include those mentioned above. We had the choice of the following projects:

- 1: An online ordering facility for clothing with (at least) ten garment types, each in three sizes, stock control and pseudo payment feature.
- 2: An online seat booking facility for an airline with a range of two daily national flights in each of two routes, two aircraft types, i.e., different passenger capacities, and a booking window of one calendar month.
- 3: An online system for designing, delivering and recording the answers to questionnaires allowing users to define their own questions, answers, page appearance options, etc.

We chose to work on number one and hence Spamazon was born.

### The People

The people involved in creating Spamazon are:

### Contact Us

Want to get in touch? Well unfortunately as this is a magical fictional website that is not actually possible. There is quite simply no one home to respond.

Still want to get in touch? Try the email addresses which can be found [here](#).

### Press

When did we set to make you want to talk to us? Oh well since this is a magical fictional website there is no press department, those people expect to be paid and we don't actually make any money. So there is quite simply no one home to respond. But hey this section makes us look professional at least.

The 'About Us' page simply details who we are and the task we were given.

The 'Contact Us' and 'Press' sections were added for effect.

Once again this can be reached from the footer at the bottom of all pages.

#### About Us

About  
People  
Contact  
Press

#### Policies

Terms of Use & Sale  
Privacy  
Cookies  
Shipping

#### Account

Open Orders  
Place Orders  
Account Settings  
Returns & Replacements



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## Embellished Trim Top

£18.00

Three-quarter sleeve top made from a soft marl jersey fabric. Finished with diamante trims to the neckline and cuffs. 65% polyester 35% viscose.

#### Select Size

10 12 14 18  
20 22 6 8

#### Select Colour

BLACK BLUE  
CHARCOAL RED

#### Quantity

1

Add to Cart

All the product pages stick to the same layout. The item with it's details on the left of the screen with different ordering options on the right. At the bottom of the screen there are similar items that the user may wish to purchase

You might also love to wear:







**Trapeze Top**  
£18.00



**Long Sleeve T-Shirt**  
£6.50



Results for your search for mens:

	<b>Blue Selvedge Jeans</b> £29.99 mens-bottoms-jeans Premium blue straight fit selvedge jean with traditional selvedge tape visible at the hem and the coin pocket. With button fly.
	<b>Borg Mid Boot</b> £19.89 mens-shoes-boots Upper: other materials. Lining and socks: textile. Outer sole: other materials.
	<b>Burgundy Print Shirt</b> £9.99 mens-tops-shirts A horrible shirt that no man should ever be seen in. Buy it now for the exclusive offer of 0% off!
	<b>Chinos</b> £42.99 mens-bottoms-chinos Straight leg chinos made from 100% cotton twill fabric and feature button fly fastening. These chinos are styled in a slim fit.

When the user searches for something, the search page will display all the relevant items down the left hand side of the page.

## Evaluation

The website as a whole is mostly functional, due to issues outside of the group's control the site is not as complete or as functional as we would have liked however the main functionality of the program is still there. Everything in the functional specification has been implemented.

For the design we decided to go for a more minimalistic look to ensure that the site was easy to navigate but not boring. The sky blue navigation bar and buttons gives the site a lift to detract from the otherwise mainly functional interface. The logo was designed to incorporate aspects of the Amazon logo and the Spam logo to ensure some entertainment for those visiting the website. Overall the site is not overly cluttered instead focusing on what is important to the user. It also means that the site is still user friendly for those who have some visual impairment.

The website has been designed so that it is viewable on a number of different devices and browsers without hampering the user interface. It works perfectly on Chrome and Mozilla Firefox, however it goes a bit wonky on Internet Explorer and the mobile site needs some work before it's truly fit for purpose. We have decided to get rid of the mobile site as we do not have the time to make it fit for purpose let alone make it presentable or anything nearing "pretty."

Parts of the code are easy to maintain. The database is easy to fix and update as it is held in a separate file. The rest of the code would require a good understanding of the languages used and help from the original programmer of the page after that person has reacquainted himself or herself with the page/code. As is indicated in this paragraph the code is not particularly elegant. It is slightly disjointed and requires a lot more comments. Parts of one page are stored in many different files.

The group has encountered a few problems with this project, mainly stemming from not having the most up to date version when starting work on a new problem. There was one large issue overall when one person committed a version that had a conflict in it and crashed the rest of the code. Other than that, there were only minor problems with formatting or using some discrepancies on how each language wanted a query presented.

Overall the group made a good effort though there is a lot that would have been done differently. Better planning from the beginning and handing out specific tasks to each person so that everyone knew which part of the site they had responsibility for. Had time allowed we would have liked to add in some extra functionality such as implementing an advanced search feature or a reviews section for each of the products.

## Comparison

Having compared our website to Beyond Retro, there are many similarities between the two sites. Both sites have a log in and register feature, a search option and both navigate through a main bar at the top of the page.

There are a few points that Beyond Retro excels beyond ours. When you view the site it informs you that you are using cookies and you can also choose the language that you wish to view the site in. It also tells you how many items there are in your basket and when you add something it opens a pop up to show what is in your basket and your running total. It also offers more details about the products.

However Beyond Retro does not store any payment information so the customer has to enter it or choose a method every time they make a new order. We also offer auto-complete in the search bar where Beyond Retro does not.