

F28WP – Coursework 1 report

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Task Separation

Amaan Akram mainly worked on the pages that showed customers all of our products. He made sure customers are able to put in an order and send it to a database. He mainly used html 5 to make the pages functional, and he used CSS3 in order to give the html elements a good look.

Raymond Aina worked mainly on the server side. Making sure all the details from the website were stored in a database. He used SQL to create and query the database.

Both Amaan and Raymond worked on the testing of the website. They used numerous devices and tested many different scenarios in order to see the strengths and weaknesses of their website.

Application

The application we decided to make was a website in which customers could go to buy footwear. The website offers various types of shoes for men, women and kids. The users could order anything they wanted and it would be stored in a database. We wanted a small simple logo which clearly shows customers our purpose. We decided to have a plain background with a lot of colourful, detailed photographs to showcase some of the latest shoes we have to offer. We also have a banner with logos of some of the main brands we have on offer. We decided to have a clear search bar in the top right alongside the basket icon, this is so the customers don't have a hard time trying to look for something specific or simply checking out. The public http URL where the system is deployed is:

www2.macs.hw.ac.uk/~aa322/index.xhtml

HTML 5 / CSS3 Elements

We used numerous HTML5 elements for our webpage. We have used <header> to store our logo, our search bar and our basket icon. We have used the <button> element for the shopping cart image and also for the search bar on our page. The user should be able to press the shopping cart image to see everything they've put in their basket, they should then be able to checkout. The search bar uses another element known as <input>. This was used so the

user can input anything specific they'd We also have the <nav> element for all the different categories of shoes. Within the <nav> element we have mens, womens, new, brands and about us. The user should be able to click on any of these options and be directed to the page of their choice. We have used required quantities and placeholders for our order page. The placeholder

CSS3, color, max width, align content, margin, margin top, margin bottom, margin right, text align

As well as html 5, we also used a number of CSS3 elements. We used background-color: aliceblue for all of our pages, we wanted a consistent cool colour for the customers. We had the padding at 15% on both the left and the right side, with 1% at the top. We feel this made the layout look neater as all the images fit perfectly in the middle with the two gaps at the side being equal. Padding was also used in other parts of our web page such as the header and the men's section. We used various font properties in parts of our website also. In our navigation section with all the categories, we used font-family: fantasy. In the search bar, we set the font-size to 17px. Elements height and width were also used in the search bar. We had a set height of 40px and a width of 300px. We have also used max width in the area with the search bar and the basket icon. We have the search bar at 75% and the basket icon at 25%, so the search bar has most of the space in the top right area. We have used the float function for the top of our webpage, the logo is floated to the left whilst the search bar and the basket icon are floated to the right. We have used align-content to keeps everything cantered on the web page.

Strengths/Weaknesses

Strengths

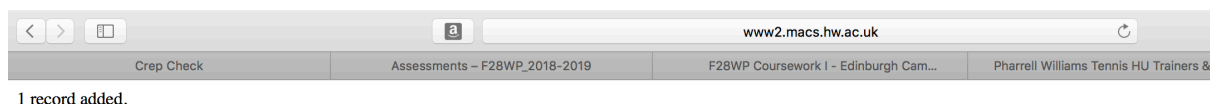
The customer can actually make an order, and they can view the orders that they have made. These orders are stored on a database to ensure they are not forgotten. The page is somewhat responsive when compressed to a different screen size. This means the user could possibly use the site from different devices without too much stress.

Weaknesses

A limitation of the website is that its unfinished, as a result, we only have the men's page up and running. In addition to this, once the user has ordered their

product they are unable to edit this. Furthermore, when the user presses the plus button on an item, it just directs them to the order page instead of actually adding the item to the basket. Another limitation is that we don't have an actual basket working, just a page where the customer makes their order. When the user types something in the search bar, nothing happens.

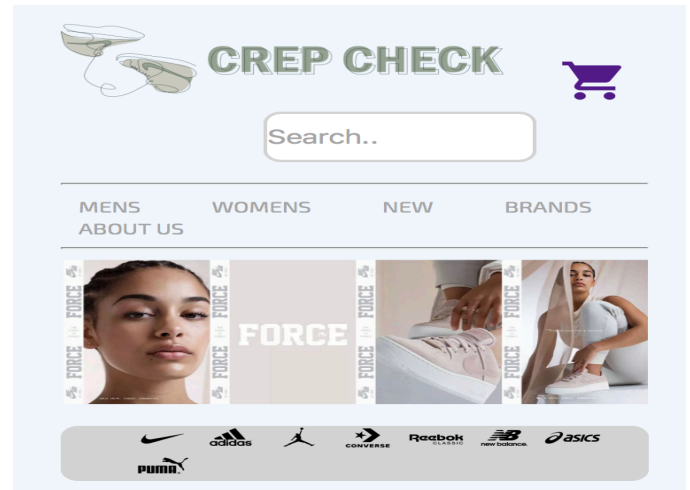
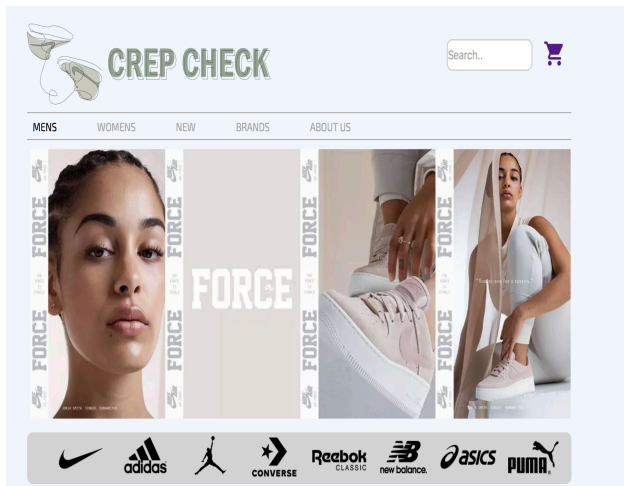
Ordering the product is a longer process than it should be. First of all, the user needs to make an account with a username and their actual name, they are then taken to this page:



The user then needs to go back to the website and use the aforementioned username to order the specific product they would like to acquire. They are then shown a table of the order they have placed with the price.

Testing

We tested the responsiveness of the website by reducing the size on the screen. We found the general page looked ok but some of the items in a row were put in a separate row. This is shown below, with the original on the left and the condensed version on the right:



We tested the XHTML 5 and CSS3 code by using a validator. Fortunately, no errors showed up. We also tested the order process by simply using the website. We tested ordering each product individually and we tested ordering multiple products at a time. We input the username, the order reference and the quantity. We then checked our database to see if our order had been placed, at first, we had numerous errors but after a fair amount of editing, we managed to get our order successfully placed in the database.

1 record added.

ProductName	Quantity	Price	Total
Air Max 97 black	1	111	111
GrandTotal			
111			

INDEX.XHTML

```
<!DOCTYPE HTML>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>
```

```
  <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet"/>
```

```
  <link href="https://fonts.googleapis.com/css?family=Exo+2" rel="stylesheet"/>
```

```
  <link rel = "stylesheet" type = "text/css" href = "crepstyle.css"/>
```

```
  <title> Crep Check </title>
```

```
</head>
```

```
<body>
```

```
  <header>
```

```
    <div id = "logo">
```

```
      <a href="index.xhtml">
```

```
        
```

```
      </a>
```

```
    </div>
```

```
    <div id = "topright">
```

```
      <div id = "basket">
```

```
        <a href="basket.xhtml"> <i class="material-icons">shopping_cart</i> </a>
```

```
      </div>
```

```
    <div id ="search">
```

```
        <input type="text" placeholder="Search.." />
    </div>
</div>
</header>
```

```
<nav>
    <hr />
    <ul>
        <li><a href= "mens.xhtml"> MENS</a></li>
        <li><a href= "#"> WOMENS</a></li>
        <li><a href= "#"> NEW</a></li>
        <li><a href= "#"> BRANDS</a></li>
        <li><a href= "#"> ABOUT US</a></li>
    </ul>
    <hr />
</nav>
```

```
<a href = "#">
    
</a>
```

```
<div id = "logobar">
    <ul>
        <li></li>
        <li></li>
        <li></li>
```

```
<li> </li>

<li> </li>

<li> </li>

<li> </li>

<li> </li>

</ul>

</div>
```

```
<a href = "mens.xhtml">
```

```

```

```
</a>
```

```
<a href = "mens.xhtml">
```

```

```

```
</a>
```

```
<a href = "#">
```

```

```

```
</a>
```

```
<a href = "mens.xhtml">
```

```

```

```
</a>
```

```
<a href = "mens.xhtml">
```

```

```

```
</a>
```



```
<div>

    <a href="https://jigsaw.w3.org/css-validator/check/referer">CSS</a> - <a
href="http://validator.w3.org/check?uri=referer">XHTML</a>

</div>

</body>
</html>
```

MENS.XHTML

```
<!DOCTYPE HTML>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head>

    <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet"/>
    <link href="https://fonts.googleapis.com/css?family=Exo+2" rel="stylesheet"/>
    <link rel = "stylesheet" type = "text/css" href = "crepstyle.css"/>
    <title> Crep Check </title>

</head>
```

<body>

<header>

<div id = "logo">

</div>

<div id = "topright">

<div id = "basket">

 <i class="material-icons">shopping_cart</i>

</div>

<div id ="search">

<input type="text" placeholder="Search.." />

</div>

</div>

</header>

<nav>

<hr />

 MENS

 WOMENS

 NEW

 BRANDS

 ABOUT US

<hr />

</nav>

<div id = "items">

<div id = "item1">

<h3>Air Max 1 Jewel Pink</h3>

<h3>£69.99</h3>

<i class="material-icons">help_outline</i>

<i class="material-icons">control_point</i>

</div>

<div id = "item2">

<h3>Air Force 1 Low White</h3>

<h3>£69.99</h3>

<i class="material-icons">help_outline</i>

<i class="material-icons">control_point</i>

</div>

<div id = "item3">

<h3>Air Max 97 Black</h3>

<h3>£110.98</h3>

<i class="material-icons">help_outline</i>

<i class="material-icons">control_point</i>

</div>

</div>

</body>

</html>

BASKET.XHTML

<!DOCTYPE HTML>

<html xmlns="http://www.w3.org/1999/xhtml">

<head>

<link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet"/>

<link href="https://fonts.googleapis.com/css?family=Exo+2" rel="stylesheet"/>

<link rel = "stylesheet" type = "text/css" href = "crepstyle.css"/>

<title> Crep Check </title>

</head>

<body>

<header>

<div id = "logo">

</div>

<div id = "topright">

<div id = "basket">

 <i class="material-icons">shopping_cart</i>

</div>

<div id="search">

<input type="text" placeholder="Search.." />

</div>

</div>

</header>

<nav>

<hr />

 MENS

 WOMENS

 NEW

 BRANDS

 ABOUT US

<hr />

</nav>

<form class="Order" action="http://www2.macs.hw.ac.uk:8080/aa322/order.jsp">

<h2>New Order</h2>

<p> Username <input name="UserName" size="16" required="required" placeholder="Username"/> </p>

<p> ProductID <input name="productID" size="16" required="required" placeholder="Enter productID"/> </p>

<p> Quantity <input name="quantity" size="16" required="required" placeholder="Enter Quantity"/> </p>

<p> <input type="submit" /> </p>

</form>

<form class = "User" action ="http://www2.macs.hw.ac.uk:8080/aa322/user.jsp">

<h2>Create User</h2>

<p> Username <input name="userName" size="16" required="required" placeholder="Username"/> </p>

<p> Name <input name="name" size="16" required="required" placeholder="Name"/> </p>

<p> <input type="submit" value="Create" /> </p>

</form>

<form class = "View" action ="http://www2.macs.hw.ac.uk:8080/aa322/pastorder.jsp">

<h2>View Order</h2>

<p> Username <input name="username" size="16" required="required" placeholder="Username"/> </p>

<p> Name <input name="name" size="16" required="required" placeholder="Name"/> </p>

<p> <input type="submit" /> </p>

</form>

<div class = "key">

<h2>ORDER KEY</h2>

<table>

<th> Key </th>

<th> Item </th>

```
<tr> </tr>

<td> 1 </td>

<td> Air Max 1 Jewel Pink </td>

<tr> </tr>

<td> 2 </td>

<td> Air Max 97 Black </td>

<tr> </tr>

<td> 3 </td>

<td> Air Force 1 Low </td>

</table>

</div>

</body>

</html>
```

CREPSTYLE.CSS

```
@font-face {

  font-family: 'Exo 2', sans-serif;

  src: url('https://fonts.googleapis.com/css?family=Exo+2');

}
```

```
body{

  font-family: 'Exo 2', sans-serif;

  padding-left: 15.5%;
```

```
padding-right: 15.5%;  
padding-top: 1%;  
background-color:aliceblue;  
}
```

```
header{  
    font-family: 'Exo 2', sans-serif;  
    padding: 0;  
    margin: 0;  
}
```

```
#logo{  
    float:left;  
    width:350px;  
}
```

```
header img{  
    padding-top:10px;  
    margin:0;  
    width:125%;  
    cursor:pointer;  
}
```

```
#topright{  
    padding-top:40px;  
}
```

```
nav{  
    text-align: left;  
    float:left;
```



```
width: 100%;  
}
```

```
nav ul li {  
    display: block;  
    padding-right: 5%;  
    display: inline;  
  
}
```

```
nav ul {  
  
    padding: 0;  
    margin: 0;  
  
}
```

```
nav ul li a{  
    padding: 10px;  
    text-decoration: none;  
    font-family:'Exo 2', sans-serif;  
    color: darkgray;  
  
}
```

```
nav ul li a:hover{  
    color:black;  
}
```

```
.navactive{  
    color:black;  
}
```

```
#search input[type=text] {  
    transition: 0.5s ease;  
    padding:0;  
    margin:0;  
    height: 40px;  
    width: 150px;  
    float: right;  
    border-radius: 10px;  
    border-style: solid;  
    border-color: lightgrey;  
  
    font-size: 17px;
```

```
}  
#search input[type=text]:focus{  
    border-bottom-style: none;  
    width:300px;  
}
```

```
#search {  
    max-width:70%;  
    float:right;  
    margin-top:10px;  
    margin-bottom:10px;  
    padding-right: 0px;  
    margin-right:1%;
```

border-radius: 60px

}

#basket{

max-width:25%;

padding-top: 10px;

padding-bottom: 10px;

margin: 0;

float: right;

}

.nikelarge {

width:100%;

}

#logobar{

background-color:lightgrey;

border-radius: 10px

}

#logobar ul li {

max-height: 10%;

display: inline;

}

```
#logobar ul li img{  
    width: 12%;
```

```
}
```

```
#square {  
    padding: 1%;  
    width:31.7%;  
}
```

```
a {  
    cursor: pointer;  
}
```

```
#leftsquare {  
    width:31.7%;  
    padding-left:0;  
    padding-right: 1%;  
    padding-top: 1%;  
    padding-bottom: 1%;  
}
```

```
#rightsquare{  
    width:31.7%;  
    padding-right:0;  
    padding-top: 1%;  
    padding-bottom: 1%;  
    padding-left:1%;  
}
```

```
#mentop{  
  width:100%;  
}
```

```
@media only screen and (max-width: 1000px){
```

```
  #search input[type=text] {  
    transition: 3s ease;  
    max-width: 150px;  
    max-width: 150px;  
    max-width: 150px;  
  }
```

```
  nav ul li a{  
    font-size:13px  
  
  }
```

```
  #logo{  
    width: 200px;  
  }  
}
```

```
#items{
```

```
padding-top: 20px;
width: 100%;

}
```

```
#item1{
    text-align: center;
    float:left;
    background-color:white;
    max-width:25%;
    padding:3%;
    border-radius: 75px;
}
```

```
#item1 img{
    max-width:100%;
}
```

```
#item2{
    text-align: center;
    float:right;
    background-color:white;
    max-width:25%;
    padding:3%;
    border-radius: 100px;
}
```

```
#item2 img{
    max-width:100%;

}
```

```
#item1 img{  
    max-width:100%;  
  
}
```

```
#item3{  
    margin-left: 3.5%;  
    text-align: center;  
    float:left;  
    background-color:white;  
    max-width:25%;  
    padding:3%;  
    border-radius: 100px;  
}
```

```
#item3 img{  
    max-width:100%;  
  
}
```

```
.material-icons {  
    margin-left:10px;  
    margin-right:10px;  
    font-size:40px;  
    cursor:pointer;
```

```
}
```

```
.material-icons:hover {  
    color:grey;  
    background-color:aliceblue;  
}
```

```
#items h3 {  
    font-family: 'Exo 2',sans-serif;  
  
}
```

```
.Order {  
    margin-top:1%;  
    float:right;  
  
    text-align: center;  
}
```

```
.key {  
    margin-left:25%;  
    margin-top: 1%;  
    align-content: center;  
    text-align:center;  
    float:left;  
  
    border-style:solid;  
}
```



```
#topb {
    width: 100%;
}

.View {
    margin-top: 1%;

    float: left;

    text-align: center;
}

li {
    list-style-type: none;
}
```

PASTORDER.JSP

```
<%@ page import="java.sql.*" %>

<!DOCTYPE HTML>

<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">


<% Class.forName("com.mysql.jdbc.Driver").newInstance();

    Connection conn = DriverManager.getConnection(

        "jdbc:mysql://mysql-server-1/aa322?user=aa322&password=abcaa322354");
```

```
Statement stmt = conn.createStatement();
```

```
String username = request.getParameter("UserName");
```

```
String name = request.getParameter("name");
```

```
String sql2 = "SELECT productName, quantity, price, (quantity*price) FROM pastorders,  
product WHERE ";
```

```
sql2 += "username = '" + username + "'"AND pastorders.productID =  
product.productID";
```

```
ResultSet result = stmt.executeQuery(sql2);
```

```
String productName = "";
```

```
int quantity = 0;
```

```
int price = 0;
```

```
int total = 0;
```

```
int grandtotal = 0;
```

```
%>
```

```
<table border ="1">
```

```
<tr>
```

```
<th>ProductName</th>
```

```
<th>Quantity</th>
```

```
<th>Price</th>
```

```
<th>Total</th>
```

```
</tr>
```

```
<%
```

```
while(result.next()){
```

```
productName = result.getString(1);
```

```
quantity = result.getInt(2);
```

```
price = result.getInt(3);
```

```
total = result.getInt(4);
```

```
%>
```

```
<tr>
```

```
  <td>
```

```
    <%= productName %>
```

```
  </td>
```

```
  <td>
```

```
    <%= quantity %>
```

```
  </td>
```

```
  <td>
```

```
    <%= price %>
```

```
  </td>
```

```
  <td>
```

```
    <%= total %>
```

```
  </td>
```

```
</tr>
```

```
<% } %>
```

```
<% result.close(); %>
```

```
</table>
```

```
<%
```

```
String sql3 = "SELECT SUM(quantity * price) FROM pastorders, product WHERE ";
```

```
sql3 += "username = '" + username + "' AND pastorders.productID =  
product.productID";
```

```
ResultSet result3 = stmt.executeQuery(sql3);
```

```
%>
```

```
<table border ="1">
```

```
<tr>
```

```
<th>GrandTotal</th>
```

```
</tr>
```

```
<%
```

```
while(result3.next()){
```

```
grandtotal = result3.getInt(1);
```

```
%>
```

```
<tr>
```

```
<td>
```

```
<%= grandtotal %>
```

```
</td>
```

```
</tr>
```

```
<% } %>
```

```
<% result3.close(); %>
```

```
</table>
```

ORDER.JSP

```
<%@ page import="java.sql.*" %>
```

```
<!DOCTYPE HTML>
```

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
```

```
<% Class.forName("com.mysql.jdbc.Driver").newInstance();
```

```
Connection conn = DriverManager.getConnection(
```

```
"jdbc:mysql://mysql-server-1/aa322?user=aa322&password=abcaa322354");
```

```
Statement stmt = conn.createStatement();
```

```
String sql = "insert into orders values ";
```

```
String username = request.getParameter("UserName");
```

```
String productID = request.getParameter("productID");
```

```
String Quantity = request.getParameter("quantity");
```

```
sql += "(" + username + ", " + productID + ", " + Quantity + ")"; %>
```

```
<%= stmt.executeUpdate(sql) %> record added.
```

```
<% String sql2 = "SELECT productName, quantity, price, (quantity*price) FROM orders,  
product WHERE ";
```

```
sql2 += "username = '" + username + "'AND orders.productID = product.productID";
```

```
ResultSet result = stmt.executeQuery(sql2);
```

```
String productName = "";
```

```
int quantity = 0;
```

```
int price = 0;
```

```
int total = 0;
```

```
int grandtotal = 0;
```

```
%>
```

```
<table border ="1">
```

```
<tr>
```

```
<th>ProductName</th>
<th>Quantity</th>
<th>Price</th>
<th>Total</th>
</tr>
<%
    while(result.next()){
        productName = result.getString(1);
        quantity = result.getInt(2);
        price = result.getInt(3);
        total = result.getInt(4);

    %>
    <tr>
        <td>
            <%= productName %>
        </td>

        <td>
            <%= quantity %>
        </td>

        <td>
            <%= price %>
        </td>

        <td>
            <%= total %>
        </td>
    </tr>
<% } %>
```

```
<% result.close(); %>
```

```
</table>
```

```
<%
```

```
String sql3 = "SELECT SUM(quantity * price) FROM orders, product WHERE ";
```

```
sql3 += "username = '" + username + "' AND orders.productID = product.productID";
```

```
ResultSet result3 = stmt.executeQuery(sql3);
```

```
%>
```

```
<table border ="1">
```

```
<tr>
```

```
<th>GrandTotal</th>
```

```
</tr>
```

```
<%
```

```
while(result3.next()){
```

```
grandtotal = result3.getInt(1);
```

```
%>
```

```
<tr>
```

```
<td>
```

```
<%= grandtotal %>
```

```
</td>
```

```
</tr>
```

```
<% } %>
```

```
<% result3.close(); %>
```

```
</table>
```

```
<%
```

```
String swap = "INSERT INTO pastorders SELECT * FROM orders";
```

```
%>
```

```
<%= stmt.executeUpdate(swap) %>
```

```
<%
```

```
String delete = "DELETE FROM orders WHERE ";
```

```
delete += "username = '" + username + "'";
```

```
%>
```

```
<%= stmt.executeUpdate(delete) %>
```

USER.JSP


```
<%@ page import="java.sql.*" %>
```

```
<!DOCTYPE HTML>
```

```
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
```

```
    <%@ page import="java.sql.*" %>
```

```
    <% Class.forName("com.mysql.jdbc.Driver").newInstance();
```

```
    Connection conn = DriverManager.getConnection(
```

```
        "jdbc:mysql://mysql-server-1/aa322?user=aa322&password=abcaa322354");
```

```
    Statement stmt = conn.createStatement();
```

```
    String sql = "insert into users values ";
```

```
    String username = request.getParameter("userName");
```

```
    String name = request.getParameter("name");
```

```
    sql += "(" + username + ", " + name + ")"; %>
```

```
    <%= stmt.executeUpdate(sql) %> record added.
```