Homepage

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php  
require\_once** (**"functions.php"**);  
**echo** get\_core\_tags(**"Northumbria book Company | Home"**, **"stylesheet"**);  
**?>**<**body**>  
 *<!--Gets the getRequest JS script for AJAX-->* <**script type="text/javascript" src="getRequest.js"**></**script**>  
  
**<?php** *//Gets the login form and title header with the logo and links* get\_login\_form();  
 **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** <**div class="search"**>  
 <**label**>Search for Books:  
 <**input type="text" id="searchBox" placeholder="Search Books"**/>  
 </**label**>  
 </**div**>  
  
 <**div class="indexWrapper"**>  
 <**main id="indexMain"**>  
 <**header**>  
 <**h1**>Homepage</**h1**>  
 <**p**>Welcome to Northumbria Book Company we sell a range of different computing books from: PHP, Databases and UNIX.</**p**>  
 </**header**>  
  
 *<!--Some page information.-->* <**p**>  
 We have a great range of books. To search for books use the search box on this page and the book information will be retrieved.  
 If you want to buy books then click on the Buy Book link or <**a href="orderBooksForm.php"  
 accesskey="7"**>click here</**a**>.  
 </**p**>  
  
 *<!--Section for the auto complete box-->* <**section**>  
 <**h2**>Searched Book</**h2**>  
 *<!--This paragraph will dissapear once a book is selected from the menu-->* <**p id="overView"**>Book details will appear if you search and select a book from the search box.</**p**>  
 <**div id="returnedBook"**>  
 *<!--Returned content goes here.-->* </**div**>  
 </**section**>  
 </**main**>  
  
 *<!--For the special offers AJAX-->* <**aside**>  
 <**section**>  
 <**h2**>Special Offers</**h2**>  
 <**img src="special-offers.jpg" width="100" height="100" alt="Special Offers image" title="Special offers"**/>  
 *<!--This paragraph will be replaced with the offer retrieved. -->* <**p id="offers"**>If you see this text there has been an error. Check that javascript is enabled in your web browser.</**p**>  
 <**script type="text/javascript"**>  
 *//<![CDATA[* **'use strict'**;  
 *//Add the event listener for when page loads* **window**.addEventListener(**'load'**, **function** () {  
  
 *//Updates the paragraph with the book offer* **function** *updateText*(newOffer) {  
 **'use strict'**;  
 **document**.getElementById(**'offers'**).**innerHTML** = newOffer;  
 }  
  
 *//Gets the book offer using AJAX getRequest function* **var** *getOffer* = **function** () {  
 *getRequest*(**'getOffers.php'**, *updateText*);  
  
 *//Times the function and call it again after every 5 seconds* setTimeout(*getOffer*, 5000);  
 };  
  
 *//Cal the variable again  
 getOffer*();  
 });  
 *//]]>* </**script**>  
 </**section**>  
 </**aside**>  
 </**div**>  
**<?php  
 echo** get\_footer(**"Copyright: Northumbria Book Company 2017. Contact us by E-mailing: BNC@outlook.com or telephone 00000 123456"**);  
**?>** *<!--Scripts for the Jquery autocomplete.-->* <**script type='text/javascript' src='//code.jquery.com/jquery-2.1.3.js'**></**script**>  
 <**script type="text/javascript" src="//code.jquery.com/ui/1.11.3/jquery-ui.js"**></**script**>  
 <**script type='text/javascript' src='JQuery/autocomplete.js'**></**script**>  
</**body**>  
*<!--Closing html tag in function that will be imported-->*</**html**>

Order Book Form

**<?php***//create and start the session  
ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
  
<?php** *//Gets core tags, login form and title header passing pages as a paramter* **require\_once** (**"functions.php"**);  
 **echo** get\_core\_tags(**"Northumbria book Company | Order Books"**, **"stylesheet"**);  
 **echo "\t<body>\n"**;  
 get\_login\_form();  
  
 **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
  
 **echo "<main>"**;  
**?>  
  
  
<?php***/\* This code dynamically generates a web page containing a form designed with the html required to display one  
checkbox for each of the books currently held in the nbc\_books database table has been provided for you in the  
assessment section for the module on blackboard. The user can select one or more books that they are interested in  
ordering by clicking the checkboxes.  
Use the browser to look at the structure of the html generated by the php code. \*/*$url = **"http://unn-izge1.newnumyspace.co.uk/KF5002/assessment/orderBooksFormInc.php"**;  
$curl = *curl\_init*($url);  
*curl\_setopt*($curl, ***CURLOPT\_RETURNTRANSFER***, 1);  
$result = *curl\_exec*($curl);  
*curl\_close*($curl);  
**echo** $result;  
**?>  
  
<?php  
 echo "</main>"**;  
**?>***<!-- Here you need to add Javascript or a link to a script to process the form as required for the assignment -->* <**script type="text/javascript"**>  
 *//<![CDATA[* **'use strict'**;  
 **window**.addEventListener(**'load'**, **function** start() {  
 **var** form = **document**.getElementById(**"orderForm"**); *//Gets a reference to the form* **var** totalPrice =0; *//Variable for total price* **var** hasSelectedAProduct = **false**; *//Variable for if a product is selected for validation.  
  
 //Check the form when submitted* form.onsubmit = **function** (e) {  
 **return** *checkForm*(**this**);  
 };  
  
 *//When the submit button changes call the termsAndCondition function* form.termsChkbx.onchange = *termsAndConditionsCheck*;  
  
 *//Get a referece is devilery type and add the cost if devlier to home is selected* **var** deliveryType = form.querySelectorAll(**'input[type=radio]'**);  
 **for**(**var** n=0; n< deliveryType.**length**; n++) {  
 **var** price; *//price of te devliery for some reason making this 0 produces an error where when you click on  
 // collect from store the current price isn't removed from the total  
  
 //Finds the radio button that is currently checked* **if**(deliveryType[n].**checked**) {  
 price = parseFloat(deliveryType[n].**dataset**.price);  
 totalPrice += price;  
  
 form.total.**value** = totalPrice.toFixed(2);  
 }  
  
 *//When the devliery type is changed* deliveryType[n].onchange = **function** () {  
 *//Removes the current price from the total* totalPrice -= price;  
 *//Update the price variable with a new price* price = parseFloat(**this**.**dataset**.price);  
 *//Add the new price to te total* totalPrice += price;  
 *//Update the price box using toFixed() for rounding to 2 DP* form.total.**value** = totalPrice.toFixed(2);  
 }  
 }  
  
  
 *//Get a reference to the product* **var** product = form.querySelectorAll(**'input[type=checkbox]'**);  
  
 *//Taking off 1 from the total length will stop the checkbox for terms and conditions being selected* **var** totalProductLength = product.**length** -1;  
 **for**(**var** i=0; i< totalProductLength; i++) {  
 product[i].onchange = *calculateCost*;  
  
 form.total.**value** = totalPrice.toFixed(2);  
 }  
   
  
 *//Function calcuates gets the cost of the products and updates the price* **function** *calculateCost*() {  
 **'use strict'**;  
  
 *//Ternary if. If product selected add to the total price and make semected product = true. If unchekced  
 //Removed the price and make selected a product = false.* (**this**.**checked**) ? totalPrice += parseFloat(**this**.**dataset**.price) : totalPrice -= parseFloat(**this**.**dataset**.price);  
 (**this**.**checked**) ? hasSelectedAProduct = **true** : hasSelectedAProduct = **false**;  
  
 *//Sends the total to the total price box* form.total.**value** = totalPrice.toFixed(2);  
 }  
  
  
 *//Hides or displays the company name box depeneding on what is selected from the select list* form.customerType.onchange = **function** () {  
 **var** customerTradeBox = **document**.getElementById(**'tradeCustDetails'**);  
 **if** (form.customerType.**value** === **"trd"**) {  
 customerTradeBox.**style**.**visibility** = **"visible"**;  
 } **else** {  
 customerTradeBox.**style**.**visibility** = **"hidden"**;  
 }  
 };  
  
  
 *//Function checks that the form is complete* **function** *checkForm*(form) {  
 **'use strict'**;  
 *//trim() === "" checks if the input boxes are empty* **if**(form.forename.**value**.trim() === **''**) {  
 alert(**"Forename is empty"**);  
 theForm.forename.focus();  
 **return false**;  
 }  
 **if** (form.surname.**value**.trim() === **''**) {  
 alert(**"Surname is empty"**);  
 theForm.surname.focus();  
 **return false**;  
 }  
 **if** (form.customerType.**value** === **"trd"**) {  
 **if**(theForm.companyName.**value**.trim() === **''**) {  
 alert(**"Company name is empty"**);  
 theForm.companyName.focus();  
 **return false**;  
 }  
 }  
 **if**(form.customerType.**value** === **""**) {  
 alert(**"You need to select a customer type"**);  
 theForm.customerType.focus();  
 **return false**;  
 }  
 *//Hasn't selected at least 1 book* **if**(!hasSelectedAProduct) {  
 alert(**"You need to select at least book"**);  
 **return false**;  
 }  
 **return true**;  
 }  
   
 **function** *termsAndConditionsCheck*() {  
 **'use strict'**;  
  
 **var** submitButton = **this**.**form**.querySelector(**'input[type=submit]'**);  
  
 *//If button disabled property will be opposite if the t&c box is checked. For example if the t&c box is  
 //checked then submitButton..disabled = false.* submitButton.**disabled** = !**this**.**checked**;  
  
 *//Use a ternary if statement to change the colour ad style of the parent node which is a label when the checkbox  
 //is ticked or un-ticked* **this**.**parentNode**.**style**.**color** = (**this**.**checked**) ? **'black'** : **'red'**;  
 **this**.**parentNode**.**style**.**fontWeight** = (**this**.**checked**) ? **' inherit'** : **'bold'**;  
 }  
 }); *//End addActionListener  
 //]]>* </**script**>  
</**body**>  
</**html**>

Select Book to Edit Page

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php** *//gets the function file* **require\_once** (**"functions.php"**);  
 *//gets the development enviroment file* **require\_once** (**"setEnv.php"**);  
 *//Import the main core tags* **echo** get\_core\_tags(**"Northumbria book Company |Choose Book List"**, **"stylesheet"**);  
 **echo "\n\t<body>\n"**;  
 *//Gets the login form* get\_login\_form();  
 *// gets the title header* **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** *<!--HTML and opening body tag are inside get\_title\_header() function-->* <**main**>  
 <**header**>  
 <**h1**>Select Book to Edit</**h1**>  
  
 **<?php** *//Checks to see if the user is logged on with the user name using the check\_login function* **if** (check\_login(**'logged-in'**) && check\_login(**'username'**))  
 {  
 *//User is logged on so they have access to restroicted content* **echo "\t<p>Click on a book title in the list to select one for editing.</p>\n"**;  
 **echo "\t\t</header>\n"**;  
 *//Adds title headers to each coloumn* **echo "\t\t<div class='item'>\n  
 <span class='bookTitleHeader'>Book Title</span>  
 <span class='bookYearHeader'>Book Year</span>  
 <span class='catDescHeader'>Category</span>  
 <span class='bookPriceHeader'>Price</span>  
 </div>\n"**;  
  
 **try** {  
 *//Include the getConnection function for the database connection* $db = get\_connection();  
  
 $sql = **"SELECT bookISBN, bookTitle, bookYear, bookPrice, catDesc  
 FROM nbc\_books  
 INNER JOIN nbc\_category  
 ON nbc\_books.catID = nbc\_category.catID  
 ORDER BY bookTitle"**;  
 $query = $db->query($sql);  
  
 *//Iterate over the results of the query* **while** ($rowObj = $query->fetchObject())  
 {  
 $bookISBN = $rowObj->**bookISBN**;  
 $bookTitle = $rowObj->**bookTitle**;  
 $bookYear = $rowObj->**bookYear**;  
 $catDesc = $rowObj->**catDesc**;  
 $bookPrice = $rowObj->**bookPrice**;  
  
 *//Remove any tags that might of been part of what has been selected.* $bookTitle = *filter\_var*($bookTitle, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookYear = *filter\_var*($bookYear, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $catDesc = *filter\_var*($catDesc, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookPrice = *filter\_var*($bookPrice, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 *//Display the books selected* **echo "\t\t<div class='item'>  
 <span class='bookTitle'>  
 <a href='editBookForm.php?bookISBN=**$bookISBN**'   
 title='Click on edit this book.'  
 class='bookTitleLinks'>**$bookTitle**</a>  
 </span>  
 <span class='bookYear'>**$bookYear**</span>   
 <span class='catDesc'>**$catDesc**</span>  
 <span class='bookPrice'>**$bookPrice**</span>  
 </div>\n"**;  
 }  
 }  
 **catch** (Exception $e){  
 *//If enviroment is set to development* **if**(*defined*(**"DEVELOPMENT"**) && ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 *//If false create an log error* **echo "<p>Sorry something went wrong. Please try again later</p>"**;  
 log\_error($e);  
 }  
 }  
 }  
 **else** {  
 *//Not logged i so they dont get access to restricted content* **echo "\t<p>You do not have permission to view this page!</p>\n"**;  
  
 *//closing header tag needed since the original closing one will be displayed if not logged in* **echo "\t\t</header>\n"**;  
 }  
 **?>** </**main**>  
**<?php  
 echo** get\_footer(**"Copyright: Northumbria Book Company 2017. "**);  
**?>**</**body**>  
</**html**>

Credits

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php  
 require\_once** (**"functions.php"**);  
 **echo** get\_core\_tags(**"Northumbria book Company |Credits"**, **"stylesheet"**);  
  
 **echo "\n\t<body>\n"**;  
  
 get\_login\_form();  
 **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** <**main**>  
 <**h1**>Credits</**h1**>  
 <**p**>Student ID: w16005124</**p**>  
 <**p**>Student Name: Chris Aston</**p**>  
 <**p**>E-mail: chris.aston@northumbria.ac.uk</**p**>  
 <**p**>The title logo text was my own graphics however the The book used in the title logo was obtained by a web search http://www.carechartsuk.co.uk 2014, Book Reviews - Care Charts UK[online]  
 available at http://www.carechartsuk.co.uk/book-reviews [ Accessed 18 October 2017]  
 <**p**>  
 <**p**>The special offers image on the index page obtained by a web search http://www.chalkevalleystores.co.uk 2015, Promotions - Chalke Valley Stores [online]  
 available at: http://www.chalkevalleystores.co.uk/promotions [accessed 20 October 2017]  
 </**p**>  
 <**p**>  
 Autocomplete CSS was used by a web search http://www.jqueryui.com.com 2013, All jQuery UI Downloads | jQuery UI [online]  
 available at https://jqueryui.com/download/all/ [accessed 26 November 2017]  
 </**p**>  
 </**main**>  
**<?php  
 echo** get\_footer(**"Copyright: Northumbria Book Company 2017. All web pages were produced by Chris Aston w16005124."**)  
**?>**</**body**>  
</**html**>*<!--Start HTML tag in function-->*

Edit Book Form

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php** *//Import the files and get the get core tags, login form and title header* **require\_once** (**"functions.php"**);  
 **require\_once** (**"setEnv.php"**);  
 **echo** get\_core\_tags(**"Northumbria book Company |Edit Book Form"**, **"stylesheet"**);  
  
 **echo "\n\t<body>\n"**;  
  
 get\_login\_form();  
 **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** <**main**>  
 <**h1**>Edit Book Form</**h1**>  
 **<?php** *//Checks if the user is logged in. If so display the rest of the page, if not it shows an error saying user doesn't have  
 //permission to view this page.* **if** (check\_login(**'logged-in'**) && check\_login(**'username'**))  
 {  
 **echo "<!--Overview about the form.-->  
 <p>Fill out the form completely and click on submit to edit a current record. There are accesskeys enabled. Starting with  
 ALT + 7 for Book title, ALT + 8 for book year etc with category being ALT +0 and price being ALT + -.</p>   
 <p>If there are any errors you will be redirected here and the error(s) will be displayed  
 and the original pre-edited value will be shown instead.</p>"**;  
  
 *//Checks to see if there are any errors found from the editBookScript* $errors = **isset**($\_SESSION[**'bookFormErrors'**]) ? $\_SESSION[**'bookFormErrors'**] : **null**;  
 *//Checks to see if there are any errors and if $error is an array* **if** (!**empty**($errors) && *is\_array*($errors))  
 {  
 **foreach**($errors **as** $error) {  
 *//echo each error to the web browser* **echo "<p id='errorMessages'>**$error**</p>"**;  
 }  
  
 *//Empty the array so errors don't appear when clicking on a new title* **unset**($\_SESSION[**'bookFormErrors'**]) ;  
 }  
 **try** {  
 *//Gets the bookISBN* $bookISBN = *filter\_has\_var*(***INPUT\_GET***,**'bookISBN'**)? $\_GET[**'bookISBN'**] : **null**;  
  
 $db = get\_connection();  
  
 *//SQL to select the rest of the book properties.* $sql = **"SELECT bookISBN, bookTitle, bookYear, bookPrice, catID, pubID  
 FROM nbc\_books  
 WHERE bookISBN = :bookISBN"**;  
  
 *//Prepare the statement and execute it* $stmt = $db->prepare($sql);  
 $stmt->execute(**array**(**':bookISBN'** => $bookISBN));  
  
 $rowObj = $stmt->fetchObject();  
  
 *//get the data* $bookISBN = $rowObj->**bookISBN**;  
 $bookTitle = $rowObj->**bookTitle**;  
 $bookYear = $rowObj->**bookYear**;  
 $bookPrice = $rowObj->**bookPrice**;  
 $catID = $rowObj->**catID**;  
 $pubID = $rowObj->**pubID**;  
  
 *//Remove any tags that might of been part of what has been selected by the sql.* $bookTitle = *filter\_var*($bookTitle, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookYear = *filter\_var*($bookYear, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $catID = *filter\_var*($catID, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $pubID = *filter\_var*($pubID, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookPrice = *filter\_var*($bookPrice, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 **echo "<form method='get' action='editBookScript.php'>  
 <fieldset>  
 <legend>Book Details</legend>  
 <!--Hidden since we don't want tot display the ISBN number to the user-->  
 <input type='hidden' value='**$bookISBN**' name='bookISBN'/>  
   
 <label>Book Title:  
 <input type='text' value='**$bookTitle**' name='bookTitle' accesskey='7'/>  
 </label>  
   
 <label>Book Year:  
 <input type='number' value='**$bookYear**' name='bookYear' accesskey='8' />  
 </label>   
   
 <label>Book Publisher:  
 <select name='bookPublisher' accesskey='9'>\n"**;  
 **try**{  
 *//SQL to make a list from the DB.* $pubSQL = **"SELECT pubID, pubName  
 FROM nbc\_publisher  
 WHERE pubID = :pubID"**;  
 $stmt = $db->prepare($pubSQL);  
 $stmt->execute(**array**(**':pubID'**=>$pubID));  
 $rowObj = $stmt->fetchObject();  
 $pubID = $rowObj->**pubID**;  
 $pubName = $rowObj->**pubName**;  
  
 $pubID = *filter\_var*($pubID, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $pubName = *filter\_var*($pubName, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 **echo "<option value='**$pubID**'>**$pubName**</option>\n"**;  
  
 *//Gets rest of the publishers names from the DB* $pubSQL2 = **"SELECT DISTINCT pubID, pubName  
 FROM nbc\_publisher  
 ORDER BY pubName"**;  
 $pubQuery2 = $db->query($pubSQL2);  
 **while** ($rowObj = $pubQuery2->fetchObject())  
 {  
 $pubID2 = $rowObj->**pubID**;  
 $pubName2 = $rowObj->**pubName**;  
  
 $pubID2 = *filter\_var*($pubID2, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $pubName2 = *filter\_var*($pubName2, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 **if** ($pubID != $pubID2)  
 {  
 **echo "<option value='**$pubID2**'>**$pubName2**</option>\n"**;  
 }  
 }  
 }  
 **catch** (Exception $e) {  
 **if** (*defined*(**"DEVELOPMENT"**)&& ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>There was an error please try again later.</p>"**;  
  
 *//Creates an error log* log\_error($e);  
 }  
 }  
 **echo"</select>  
 </label>  
   
 <label>Book Category:  
 <select name='bookCategory' accesskey='0'>\n"**;  
 **try** {  
 *//Gets selected category.* $catSQL=**"SELECT catID, catDesc   
 FROM nbc\_category  
 WHERE catID = :catID"**;  
  
 $stmt = $db->prepare($catSQL);  
 $stmt->execute(**array**(**':catID'**=>$catID));  
 $rowObj = $stmt->fetchObject();  
 $catID = $rowObj->**catID**;  
 $catDesc = $rowObj->**catDesc**;  
  
 *//Filter out any tags that might of been selected* $catID = *filter\_var*($catID, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $catDesc = *filter\_var*($catDesc, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 **echo "<option value='**$catID**'>**$catDesc**</option>\n"**;  
  
 *//Gets the rest of the data* $catSQL2 = **"SELECT DISTINCT catID, catDesc   
 FROM nbc\_category  
 ORDER BY catDesc"**;  
 $catQuery2 = $db->query($catSQL2);  
  
 **while** ($rowObj = $catQuery2->fetchObject())  
 {  
 $catID2 = $rowObj->**catID**;  
 $catDesc2 = $rowObj->**catDesc**;  
  
 $catID2 = *filter\_var*($catID2, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $catDesc2 = *filter\_var*($catDesc2, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 *//if the ID doesn't match to the one being edited then add it to the option select list* **if** ($catID != $catID2)  
 {  
 **echo "<option value='**$catID2**'>**$catDesc2**</option>\n"**;  
 }  
 }  
 }  
 **catch** (Exception $e) {  
 **if** (*defined*(**"DEVELOPMENT"**)&& ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>There was an error please try again later.</p>"**;  
  
 *//Creates an error log* log\_error($e);  
 }  
 }  
 **echo"</select>  
 </label>  
   
 <label>Book Price:  
 <input type='number' step='0.01' name='bookPrice' value='**$bookPrice**' accesskey='-'/>  
 </label>  
   
 </fieldset>  
 <input type='submit' value='Submit' id='submitButton' accesskey='+'/>  
 </form>\n"**;  
 }  
 **catch** (Exception $e){  
 **if** (*defined*(**"DEVELOPMENT"**)&& ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>There was an error please try again later.</p>"**;  
  
 *//Creates an error log* log\_error($e);  
 }  
 }  
 }  
 **else** {  
 *//user not logged on and shouldnt see this page* **echo "<p>You do not have permission to view this page!</p>"**;  
 }  
 **?>** </**main**>  
**<?php  
 echo** get\_footer(**"Copyright: Northumbria Book Company 2017"**);  
**?>**</**body**>  
</**html**>

Edit Book Script

**<?php***//Start the session  
ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php** *//Gets the files and create the nav links* **require\_once** (**"functions.php"**);  
 **require\_once** (**"setEnv.php"**);  
 **echo** get\_core\_tags(**"Northumbria book Company |Edit Book Submission"**, **"stylesheet"**)  
**?>**<**body**>  
**<?php** get\_login\_form();  
  
 *//gets the title header with the nav links and l+ogo from the functions file* **echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** <**main**>  
 <**h1**>Edit Book Submission</**h1**>  
 **<?php** *//Checks if logged in.* **if** (check\_login(**'logged-in'**) && check\_login(**'username'**))  
 {  
 *//make a list that would e populated by the result of validate\_for* **list**($input, $errors) = validate\_form();  
 *//If $errors is not null there is errors* **if** ($errors) {  
 show\_errors($errors, $input);  
 } **else** {  
 *//No errors so process the form* process\_form($input);  
 }  
 }  
 **else** {  
 *//user not logged in* **echo "<p>You do not have permission to view this page!</p>\n"**;  
 }  
  
 *//Function checks the form for blank space and checks all the input is legal* **function** validate\_form()  
 {  
 *//filter\_has\_var() gets the variable from the arrays  
 //trim() removes any blank space* $input = **array**();  
 $errors = **array**();  
  
 $input[**'bookISBN'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookISBN'**) ? $\_GET[**'bookISBN'**] : **null**;  
  
 $input[**'bookTitle'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookTitle'**) ? $\_GET[**'bookTitle'**] : **null**;  
 $input[**'bookTitle'**] = *trim*($input[**'bookTitle'**]);  
 $input[**'bookTitle'**] = *filter\_var*($input[**'bookTitle'**], ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 $input[**'bookYear'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookYear'**) ? $\_GET[**'bookYear'**] : **null**;  
 $input[**'bookYear'**] = *trim*($input[**'bookYear'**]);  
  
 $input[**'bookPublisher'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookPublisher'**) ? $\_GET[**'bookPublisher'**] : **null**;  
 $input[**'bookPublisher'**] = *trim*($input[**'bookPublisher'**]);  
  
 $input[**'bookCategory'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookCategory'**) ? $\_GET[**'bookCategory'**] : **null**;  
 $input[**'bookCategory'**] = *trim*($input[**'bookCategory'**]);  
  
 $input[**'bookPrice'**] = *filter\_has\_var*(***INPUT\_GET***, **'bookPrice'**) ? $\_GET[**'bookPrice'**] : **null**;  
 $input[**'bookPrice'**] = *trim*($input[**'bookPrice'**]);  
  
 *//create a variable and add to the array from whats in the input array* $categories = **array**($input[**'bookCategory'**]);  
 $publishers = **array**($input[**'bookPublisher'**]);  
  
 *//Checks to make sure the data not empty. If empty add to to the errors array* **if** (**empty**($input[**'bookISBN'**]))  
 {  
 $errors[] = **"A book has not been selected."**;  
 }  
 **if** (**empty**($input[**'bookTitle'**]))  
 {  
 $errors[] = **"The Book Title is empty"**;  
 }  
 **if** (**empty**($input[**'bookYear'**]))  
 {  
 $errors[] = **"The year is empty"**;  
 }  
 **if** (**empty**($input[**'bookPublisher'**]))  
 {  
 $errors[] = **"The book publisher is empty"**;  
 }  
 **if** (**empty**($input[**'bookCategory'**]))  
 {  
 $errors[] = **"The book category is empty"**;  
 }  
 **if** (**empty**($input[**'bookPrice'**]))  
 {  
 $errors[] = **"The price must have .00 on the end or the price isn't a float"**;  
 }  
 *//Compares the bookCategory in the input array to the cateogroes array t make sure they match with each* **if** (!*in\_array*($input[**'bookCategory'**], $categories))  
 {  
 $errors[] = **"The category selected doesn't exist"**;  
 }  
 **if** (!*in\_array*($input[**'bookPublisher'**], $publishers))  
 {  
 $errors[] = **"The publisher doesn't exist"**;  
 }  
 *//Checks the price is a floating point number* **if** (!*filter\_var*($input[**'bookPrice'**], ***FILTER\_VALIDATE\_FLOAT***))  
 {  
 $errors[] = **"The price is not a float"**;  
 }  
 **if**(!*filter\_var*($input[**'bookYear'**], ***FILTER\_VALIDATE\_INT***))  
 {  
 $errors[] = **"The year should be an int"**;  
 }  
  
 *//returns the array* **return array**($input, $errors);  
 }  
  
 **function** show\_errors($errors, $input)  
 {  
 *//Put the errors into an array and go back to the page* $\_SESSION[**'bookFormErrors'**] = $errors;  
 $bookISBN = $input[**'bookISBN'**];  
 *header*(**"location:http://unn-w16005124.newnumyspace.co.uk/\_secondYear/assigment/editBookForm.php?bookISBN=**$bookISBN**"**);  
 }  
  
 **function** process\_form($input)  
 {  
 **try** {  
 $bookISBN = $input[**'bookISBN'**];  
 $bookTitle = $input[**'bookTitle'**];  
 $bookYear = $input[**'bookYear'**];  
 $bookPublisher = $input[**'bookPublisher'**];  
 $bookCategory = $input[**'bookCategory'**];  
 $bookPrice = $input[**'bookPrice'**];  
  
  
 *//Get the DB connection from the functions file* $db = get\_connection();  
  
 *//SQL to update the book* $updateSQL = **"UPDATE nbc\_books SET  
 bookTitle = :bookTitle,  
 bookYear = :bookYear,  
 catID = :bookCategory,  
 pubID = :bookPublisher,  
 bookPrice = :bookPrice  
 WHERE bookISBN = :bookISBN  
 "**;  
  
 *//prepare and execute the SQL* $stmt = $db->prepare($updateSQL);  
 $stmt->execute(**array**(**':bookTitle'** => $bookTitle,  
 **':bookYear'** =>$bookYear,  
 **':bookCategory'** =>$bookCategory,  
 **':bookPublisher'** =>$bookPublisher,  
 **':bookPrice'** =>$bookPrice,  
 **':bookISBN'** =>$bookISBN)  
 );  
  
 $catID = $input[**'bookCategory'**];  
 $pubID = $input[**'bookPublisher'**];  
  
 *//SQL to get the catDesc since we don't want to display PK/FK* $catSQL = **"SELECT catDesc FROM nbc\_category WHERE catID = :catID"**;  
 $stmt = $db->prepare($catSQL);  
 $stmt->execute(**array**(**':catID'** =>$catID));  
 $rowObj = $stmt->fetchObject();  
  
 $catDesc = $rowObj->**catDesc**;  
 $catDesc = *filter\_var*($catDesc, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 *//SQL to get the pubName or the invoice will display the ID instead* $pubSQL = **"SELECT pubName FROM nbc\_publisher WHERE pubID = :pubID"**;  
  
 *//Prepare the statement and execute* $stmt = $db->prepare($pubSQL);  
 $stmt->execute(**array**(**':pubID'** =>$pubID));  
  
 *//fetch the objects and make the data safe* $rowObj = $stmt->fetchObject();  
 $publisher = $rowObj->**pubName**;  
 $publisher = *filter\_var*($publisher, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 *//Display the invoice to the user* **echo "<p>Update successful. The book you edited now reads: </p>  
 <p>Book title:** $bookTitle**</p>  
 <p>The book year is:** $bookYear**</p>  
 <p>The publisher is:** $publisher**</p>  
 <p>The category is:** $catDesc**</p>  
 <p>The price is:** $bookPrice**</p>  
 <p>To go back to the book list to edit click <a href='chooseBookList.php'>here</a>.</p>  
 "**;  
 }  
 **catch** (Exception $e){  
 **if** (*defined*(**"DEVELOPMENT"**) && ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>An error occurred, please try again later.</p>"**;  
 log\_error($e);  
 }  
 }  
 }  
 **?>** </**main**>  
**<?php  
 echo** get\_footer(**"copyright: Northumbria Book Company 2017"**);  
**?>**</**body**>  
</**html**>

Login process

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php** *//include the files* **require\_once** (**"functions.php"**);  
 **require\_once** (**"setEnv.php"**);  
 **echo** get\_core\_tags(**"Northumbria book Company |Login"**, **"stylesheet"**);  
**?>**<**body**>  
**<?php  
 echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** <**main**>  
 <**header**>  
 <**h1**>Log On</**h1**>  
 <**p**>Please wait while we try to log you on.</**p**>  
 </**header**>  
  
 **<?php** *//gets the result of the login function. If errors dieplay the errors. I  
 //If good then the code in the else will execute* **list**($input, $errors) = validate\_logon();  
 **if** ($errors) {  
 show\_errors($errors);  
 }  
 **else** {  
 *//Set the session so the user is logged-in then re-dirceted to the choose list form* set\_session(**'username'**, $input[**'username'**]);  
 set\_session(**'logged-in'**, **'true'**);  
  
 **echo "<!--Go back to previuos page whre the login attempt was.-->  
 <script type='text/javascript'>  
 'use strict';  
 window.history.back();  
 </script>"**;  
 }  
  
 *//Checks the form to make sure entered details are valid.* **function** validate\_logon() {  
 $input = **array**();  
 $errors = **array**();  
  
 $input[**'username'**] = *filter\_has\_var*(***INPUT\_POST***,**'username'**) ? $\_POST[**'username'**]:**null**;  
 $input[**'password'**] = *filter\_has\_var*(***INPUT\_POST***, **'password'**) ? $\_POST[**'password'**] : **null**;  
  
 $input[**'username'**] = *trim*($input[**'username'**]);  
 $input[**'password'**] = *trim*($input[**'password'**]);  
  
 **if** (**empty**($input[**'username'**]))  
 {  
 $errors[] = **"the username is empty"**;  
 }  
 **if** (**empty**($input[**'password'**]))  
 {  
 $errors[] = **"The password is empty"**;  
 }  
  
 **try** {  
 *//Get connection* $db = get\_connection();  
  
 *//Select the user and their password hash* $sql = **"SELECT username, passwordHash FROM nbc\_users WHERE username = :username"**;  
 $stmt = $db->prepare($sql);  
 $stmt->execute(**array**(**':username'**=>$input[**'username'**]));  
 $rowObj = $stmt->fetchObject();  
 **if** ($rowObj)  
 {  
 $passwordHash = $rowObj->**passwordHash**;  
  
 *//If the password hash doesn't match then add to the error array* **if** (!*password\_verify*($input[**'password'**], $passwordHash))  
 {  
 $errors[]= **"Incorrect password"**;  
 }  
 }  
 **else** {  
 *//If the user clicked on log in with entering anything an incorrect login details wont be displayed  
 //with the username and password empty error message. This kind of felt pointless to have another  
 //message shown at the same time* **if** (! **empty**($input[**'username'**] && ! **empty**($input[**'password'**]))) {  
 $errors[] = **"Incorrect Login details"**;  
 }  
 }  
 }  
 **catch** (Exception $e){  
 **if** (*defined*(**"DEVELOPMENT"**)&& ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>Sorry there been an error, try again later.</p>"**;  
 log\_error($e);  
 }  
  
 }  
  
 *//Returns the array* **return array**($input, $errors);  
 }  
  
 *//Go back to the previous page* **function** show\_errors($errors)  
 {  
 $\_SESSION[**'logInErrors'**] = $errors;  
 **echo "<script type='text/javascript'>  
 'use strict';  
 window.history.back();   
 </script>"**;  
 }  
 **?>** </**main**>  
  
**<?php  
 echo** get\_footer(**"Copyright: Northumbria Book Company 2017"**);  
**?>**</**body**>  
</**html**>

Log out process

**<?php***ini\_set*(**"session.save\_path"**, **"/home/unn\_w16005124/sessionData"**);  
*session\_start*();  
**?>  
<?php  
 require\_once** (**"functions.php"**);  
 get\_core\_tags(**"Northumbria book Company | logout"**, **"stylesheet"**)  
**?>**<**body**>  
**<?php  
 echo** get\_title\_header(**array**(**"index.php"** => **"Home"**,  
 **"orderBooksForm.php"** => **"Order Books"**,  
 **"chooseBookList.php"** => **"Admin"**,  
 **"credits.php"** => **"Credits"**), **"navLinks"**);  
**?>** *<!--Displays a message to the user-->* <**main**>  
 <**header**>  
 <**h1**>Log Out</**h1**>  
 <**p**>Please wait while we log you out.</**p**>  
 </**header**>  
 </**main**>  
  
**<?php** *//unset the global variable* $\_SESSION = **array**();  
  
 *//Destroy the session  
 session\_destroy*();  
  
 *//Go back to the previous page were the log button was clicked on* **echo "<script type='text/javascript'>  
 'use strict';  
 window.history.back();   
 </script>"**;  
  
 **echo** get\_footer(**"Copyright: Northumbria Book 2017."**)  
  
**?>**</**body**>  
</**html**>

Set Development Environment

**<?php***//Defines for a constant that the webpages are in development.  
//If true the full exception will be generated on the webpage  
//if false a user friendly error message will be displayed and a error\_log generated  
define*(**"DEVELOPMENT"**, **true**);

Get Request JavaScript

**function** *getRequest*( url, callbackFunction ) {  
 **'use strict'**;  
 **var** httpRequest;  
  
 **if** (**window**.XMLHttpRequest) { *// For firefox, chrome* httpRequest = **new** XMLHttpRequest();  
 }  
 **else if** (**window**.ActiveXObject) { *// IE* **try** {  
 httpRequest = **new** ActiveXObject(**"Msxml2.XMLHTTP"**); *//for IE* }  
 **catch** (e) {  
 **try** {  
 httpRequest = **new** ActiveXObject(**"Microsoft.XMLHTTP"**);  
 }  
 **catch** (e) {}  
 }  
 }  
  
 **if** (!httpRequest) {  
 alert(**'Giving up :( Cannot create an XMLHTTP instance'**);  
 **return false**;  
 }  
  
 *//Called when the state is changed* httpRequest.onreadystatechange = **function**() {  
 **var** completed = 4, successful = 200;  
 **if** (httpRequest.**readyState** == completed) {  
 **if** (httpRequest.**status** == successful) {  
 callbackFunction(httpRequest.**responseText**);  
 } **else** {  
 alert(**'There was a problem with the request.'**);  
 }  
 }  
 };  
  
 httpRequest.open(**'get'**, url, **true**);  
 httpRequest.send(**null**);  
}

Autocomplete jQuery

**$**(**document**).**ready**(**function** () {  
 **'use strict'**;  
  
 *//Gets the search box* **$**(**'#searchBox'**).**autocomplete**({  
 **source**: **'server/getBook.php'**, *//Source of the books* **minLength**: 3, *//Min length for the term* select: **function** (event, ui) { *//Called when a book selected from the list* **console**.log(ui);  
 **$**.**ajax**({  
 **method**: **'get'**,  
 **url**: **'server/getFullBook.php?bookISBN='** + ui.**item**.**value** *//Go to the php script to get full details* })  
 .*done*(**function** (data, status, jqxhr) {  
 **console**.log(data); *//For debugging* **$**(**'#overView'**).hide(); *//Hide the overview text* **$**(**'#returnedBook'**).**html**(data); *//Write the returned text to the index page* })  
 }  
 });  
});

Get Book for autocomplete

**<?php  
require\_once**(**"../functions.php"**);  
**require\_once**(**"../setEnv.php"**);  
  
*//Gets the value from the autocomplete book since it uses a term*$term = **isset**($\_REQUEST[**'term'**]) ? $\_REQUEST[**'term'**] : **null**;  
  
*//the search box is empty***if**(**empty**($term)) {  
 **echo ""**;  
 **return**;  
}  
  
**try** {  
 $dbConn = get\_connection();  
  
 *//SQL for books to be selected. Selected book title twice so the book would be displayed  
 //in the box not the bookISBN or anything else* $sql = **"SELECT bookISBN AS 'value', bookTitle AS 'label'  
 FROM nbc\_books   
 WHERE bookTitle LIKE :term"**;  
  
 $stmt = $dbConn->prepare($sql);  
  
 *// term is a wildcard* $stmt->execute(**array**(**':term'** => **"%**{$term}**%"**));  
  
 *//fetch all returns an array fetch\_assoc return with array index by coloumn name* $array = $stmt->fetchAll(PDO::***FETCH\_ASSOC***);  
  
 *//Change the header  
 header*(**'Content-Type: application/json'**);  
  
 *//Display the data as JSON* **echo** *json\_encode*($array);  
}  
**catch** (Exception $e) {  
 **if** (*defined*(**"DEVELOPMENT"**)&& ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>Sorry there been an error, try again later.</p>"**;  
 log\_error($e);  
 }  
}

Get Full Book Autocomplete

**<?php  
require\_once** (**"../functions.php"**); *//Gets the functions***require\_once** (**"../setEnv.php"**); *//Get the development enviroment  
  
//Gets the ISBN from the URL being called*$bookISBN = *filter\_has\_var*(***INPUT\_GET***,**'bookISBN'**)? $\_GET[**'bookISBN'**] : **null**;  
  
**try** {  
 $dbConn = get\_connection();  
  
 *//SQL for full book details* $sql = **"SELECT bookISBN, bookTitle, bookYear, bookPrice, catDesc, pubName  
 FROM nbc\_books  
 INNER JOIN nbc\_category  
 ON nbc\_books.catID = nbc\_category.catID  
 INNER JOIN nbc\_publisher  
 ON nbc\_books.pubID = nbc\_publisher.pubID  
 WHERE bookISBN = :bookISBN"**;  
  
 *//Prepare the statement and execute it* $stmt = $dbConn->prepare($sql);  
 $stmt->execute(**array**(**':bookISBN'** => $bookISBN));  
  
 $rowObj = $stmt->fetchObject();  
  
 *//gets the values from the request stream* $bookISBN = $rowObj->**bookISBN**;  
 $bookTitle = $rowObj->**bookTitle**;  
 $bookYear = $rowObj->**bookYear**;  
 $catDesc = $rowObj->**catDesc**;  
 $publisher = $rowObj->**pubName**;  
 $bookPrice = $rowObj->**bookPrice**;  
  
 *//Remove any tags that might of been part of what has been selected.* $bookTitle = *filter\_var*($bookTitle, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookYear = *filter\_var*($bookYear, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $catDesc = *filter\_var*($catDesc, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $publisher = *filter\_var*($publisher, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
 $bookPrice = *filter\_var*($bookPrice, ***FILTER\_SANITIZE\_STRING***, ***FILTER\_FLAG\_NO\_ENCODE\_QUOTES***);  
  
 *//Div will be shown to the user with the data on the index page* **echo "<div>  
 <p>Book ISBN:** $bookISBN**</p>  
 <p>Book Title:** $bookTitle**</p>  
 <p>Book Year:** $bookYear**</p>  
 <p>Book Price:** $bookPrice**</p>  
 <p>Category:** $catDesc**</p>  
 <p>Publisher:** $publisher**</p>  
 </div>"**;  
  
}  
**catch** (Exception $e) {  
 *//If envirment is set to development* **if**(*defined*(**"DEVELOPMENT"**) && ***DEVELOPMENT*** == **true**) {  
 **echo "<p>Query failed: "**.$e->getMessage().**"</p>\n"**;  
 }  
 **else** {  
 **echo "<p>Sorry something went wrong. Please try again later</p>"**;  
 *error\_log*($e);  
 }  
}

Stylesheet

*/\*Index only\*/*.**indexWrapper** {  
 */\*Flexes the coloumns so they are the same size in the index\*/* **display**: **flex**;  
 **flex-direction**: **row**;  
}  
  
*/\*For the search autocomplete box\*/*.**search** {  
 **position**: **absolute**;  
 **width**: 35%;  
 **top**: 123**px**;  
 **left**: 420**px**;  
}  
  
**main** {  
 **width**: 100%;  
 **border**: **thin solid black**;  
}  
  
**#indexMain** {  
 **width**: 70%;  
}  
  
**aside** {  
 **margin-left**: 4**px**;  
 **width**: 30%;  
 **float**: **right**;  
 **border**: **thin solid black**;  
}  
  
*/\*For all pages\*/***body** {  
 **position**: **relative**;  
 **font-weight**: **inherit**;  
}  
  
**html**, **body** {  
 **margin**: 1**px**;  
 **padding**: 1**px**;  
 **border**: 1**px**;  
}  
  
*/\*For the login form placing it top right\*/***#loginForm** {  
 **width**:30%;  
 **float**: **right**;  
 **margin-right**: 4**px**;  
}  
  
*/\*Make the error messages for the login red\*/***#errorMessagesLogin** {  
 **color**: **red**;  
 **font-size**: 14**px**;  
 **float**: **right**;  
}  
  
*/\*Position the logout link in the same place as as the login form\*/***#logOutLink** {  
 **position**: **relative**;  
 **float**: **right**;  
 **font-size**: 1.3**em**;  
 **top**: 103**px**;  
}  
  
**#userInput**, **#passwordInput** {  
 **width**: 50%;  
}  
  
  
**p** {  
 */\*This changes all text in a paragraph tag.\*/* **font-family**: **arial**, **sans-serif**, **vendona**;  
 */\* text size chosen at 16px to make it easy to read for a wider range of people\*/* **font-size**:16**px**;  
 **color**:**#000000**;  
 */\*Padding to cushion the paragraphs from the border lines. \*/* **padding-left**:4**px**;  
}  
  
**h1**, **h2** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **padding-left**:4**px**;  
}  
  
.**banner** {  
 */\*This is the bar which contains the navigation links \*/* **width**:100%;  
 **top**: 30**px**;  
 **background-color**: **#3366ff**;  
 **height**: 175**px**;  
 **margin**: 0 0 4**px**;  
}  
  
  
**ul** {  
 **position**: **relative**;  
 **top**:20**px**;  
 */\* Moves the links onto the bar\*/* **font-size**: 1.3**em**;  
 **list-style-type**: **none**;  
 **margin**: 0;  
 **padding**: 0;  
  
}  
  
**li** {  
 **float**: **left**;  
 **display**: **block**;  
}  
  
**a**.**navLinks**, **a#logOutLink** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **text-decoration**: **none**;  
 **padding**: 14**px** 16**px**;  
 **color**: **#000000**;  
}  
  
**a**.**navLinks**:**hover**, **a#logOutLink**:**hover** {  
 **color**: **#ffffff**;  
}  
  
**#titleBarLogo** {  
 **width**: 35%;  
 **position**: **relative**;  
 **height**: 100**px**;  
}  
  
**footer** {  
 **border**: **thin solid black**;  
 **margin-top**: 4**px**;  
 **position**: **relative**;  
 **float**: **left**;  
 */\*This keeps the footer at the bottom of the page\*/* **background-color**:**#3366ff**;  
 **width**: 100%;  
}  
  
*/\*Select book list\*/*.**item** {  
 **display**: **flex**;  
 **flex-direction**: **row**;  
 **border-bottom**: **thin solid black**;  
}  
  
.**bookTitle**, .**bookTitleHeader** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **width**: 40%;  
}  
  
.**bookYear**, .**bookYearHeader** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **width**: 15%;  
}  
  
.**catDesc**, .**catDescHeader** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **width**: 30%;  
}  
  
.**bookPrice**, .**bookPriceHeader** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **width**: 15%;  
}  
  
.**bookTitleLinks** {  
 */\*This changes all text in a paragraph tag.\*/* **font-family**: **arial**, **sans-serif**, **vendona**;  
 */\* text size chosen at 16px to make it easy to read for a wider range of people\*/* **font-size**:16**px**;  
 **padding-left**:4**px**;  
 */\*Padding to cushion the paragraphs from the border lines. \*/*}  
  
*/\*Make the coloumn headers bold\*/*.**bookTitleHeader**, .**bookYearHeader**, .**catDescHeader**, .**bookPriceHeader** {  
 **font-weight**: **bold**;  
}  
  
**span** {  
 **margin**: 4**px** 2**px** 4**px** 4**px**;  
 */\*Creates vertical spacing between the books \*/  
 /\* Creates horizontal spacing between the coloumns \*/*}  
  
  
**@media screen and** (**max-width**: 960**px**) {  
 .**bookTitle**, .**bookYear**,.**catDesc** ,.**bookPrice**, .**item** {  
 **display**: **block**;  
 **width**: 96%; */\*Not 100% because it causes a vertical scroll bar \*/* **padding-left**: 4**px**;  
 **padding-right**: 4**px**;  
 **text-align**: **center**;  
 }  
 .**bookTitle** {  
 **font-size**: 18**px**;  
 **font-weight**: **bold**;  
 }  
  
 .**bookTitleHeader**, .**bookYearHeader**, .**catDescHeader**, .**bookPriceHeader** {  
 **display**: **none**;  
 }  
}  
  
*/\*Edit Book form and login form \*/***label** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **display**: **block**;  
 **margin-bottom**: 1**em**;  
 **text-align**: **right**;  
 **position**: **relative**;  
 **padding**: 0.25**em** 80% 0.25**em** 0;  
}  
  
**label** > **input**, **label**> **select** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **position**: **absolute**;  
 **left**: 25%;  
 **top**: 0.25**em**;  
 */\*A width 60% was choosen so the book with the longest title could be entirely seen. In this case the book  
 with the longest title is:  
 The Definitive Guide to Project Management: The fast track to getting the job done on time and on budget, 2nd edition 2008 \*/* **width**: 60%;  
}  
  
*/\*The select boxes looked a bit off so i had some extra css to make then match the input boxes it overrides current width\*/***label** > **select** {  
 **width**: 60.4%;  
 **height**: 22**px**; */\*Makes the selects have same height as the input boxes \*/*}  
  
**#submitButton** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
 **margin**: 4**px** 0 4**px** 4**px**; */\*Move the submit button away from the main border\*/*}  
  
**legend** {  
 **font-family**: **arial**, **sans-serif**, **vendona**;  
}  
  
*/\*Error message for the edit book form\*/***#errorMessages** {  
 **color**: **red**;  
}

Functions page

**<?php***//This function connects to a database using PDO***function** get\_connection() {  
 **try** {  
 $connection = **new** PDO(**"mysql:host=localhost;dbname=unn\_w16005124"**,  
 **"unn\_w16005124"**, **"Laptop3299"**);  
 $connection->setAttribute(PDO::***ATTR\_ERRMODE***,  
 PDO::***ERRMODE\_EXCEPTION***);  
 **return** $connection;  
 } **catch** (Exception $e) {  
 *//Create a log file* log\_error($e);  
 **throw new** Exception(**"Connection error "**. $e->getMessage(), 0, $e);  
 }  
}  
  
*//Sets the session for when a user logs in  
//key is the string input  
//value is input to be inserted into the session array***function** set\_session($key, $value) {  
 *// Set key element = value* $\_SESSION[$key] = $value;  
 **return true**;  
}  
  
*//Returns if the is logged in***function** get\_session($key) {  
 $return = **null**;  
 **if** (**isset**($\_SESSION[$key])) {  
 $return = $\_SESSION[$key];  
 }*//if* **return** $return;  
}  
  
*//Checks of the user is logged in***function** check\_login($key) {  
 **if** (get\_session($key)) {  
 **return true**;  
 }  
 **else** {  
 **return false**;  
 }  
}  
  
*//This function creates the "core" title and head tags of a webpage  
//PageTitle is the text between the title tags  
//Stylesheet is the css sheet, can be null***function** get\_core\_tags($pageTitle, $stylesheet = **null**) {  
 $coreTags = **<<<CORETAGS  
<!DOCTYPE html>  
<html lang="en">  
<head>  
 <meta charset="UTF-8"/>  
 <meta name="viewport" content="width=device-width, initial-scale=1"/>  
 <title>**$pageTitle**</title>  
 <link rel="stylesheet" type="text/css" href="**$stylesheet**.css"/> <!--My stylesheet-->  
 <link rel="stylesheet" type="text/css" href="JQuery/jquery-ui-1.12.1/jquery-ui.css"/> <!--Stylesheet from JQueury website for automcomplete-->   
</head>\n  
CORETAGS**;  
 $coreTags.=**"\n"**;  
 **return** $coreTags;  
}  
  
*//Gets the title bar including the images and web links***function** get\_title\_header( **array** $links, $class) {  
 $webLink = **null**; *//Create a web link variable  
  
 //For each element in the link array iterate through them assigmnt each link a value from what called* **foreach** ($links **as** $link =>$value) {  
 $webLink.=**"<li><a href='**$link**' class='**$class**'>**$value**</a></li>\n"**;  
 }  
  
 $titleHeader = **<<<TITLEHEARE  
 <div class="banner">  
 <a href='index.php'><img src='titleBarLogo.png' id='titleBarLogo' alt='Title Logo'/></a>  
 <nav>  
 <ul>  
 <!--Add the web links from the foreach loop.-->** $webLink **</ul>  
 </nav>  
 </div>\n  
TITLEHEARE**;  
 $titleHeader.=**"\n"**;  
 **return** $titleHeader;  
}  
  
  
  
*//Gets the login form***function** get\_login\_form() {  
 *//checks to make sure the user isn't already logged in* **echo "\t<div class='loginForm'>\n"**;  
 **if** (!check\_login(**'logged-in'**) && !check\_login(**'username'**)) {  
 **echo "\t\t<form action='loginProcess.php' method='post' id='loginForm'>  
 <fieldset>  
 <legend>Log In</legend>  
 <label>Username:  
 <input type='text' name='username' placeholder='Enter Username' accesskey='5' id='userInput'/>  
 </label>  
   
 <label>Password:  
 <input type='password' name='password' placeholder='Enter Password' accesskey='6' id='passwordInput'/>  
 </label>  
 <input type='submit' value='log In'/>"**;  
 *//Gets any log in errors and displays them in the form* get\_login\_errors();  
 **echo "</fieldset>  
 </form>\n"**;  
 }  
 **else** {  
 *//user already logged in so they get the log out link instead of the form.* **echo "\t<a href='logOutProcess.php' id='logOutLink' accesskey='5'>Log Out</a>\n"**;  
 }  
 **echo "\t</div>\n"**;  
}  
  
*//gets any log in errors and displays then***function** get\_login\_errors() {  
 $loginErrors = **isset**($\_SESSION[**'logInErrors'**]) ? $\_SESSION[**'logInErrors'**]:**null**;  
 **if** ($loginErrors) {  
 **foreach** ($loginErrors **as** $error) {  
 **echo "<p id='errorMessagesLogin'>\***$error**</p>"**;  
 }  
 }  
}  
  
*//Makes and returns a footer for a webpage***function** get\_footer($footerText) {  
 $footer = **<<<FOOTER  
 <footer>  
 <p>**$footerText**</p>  
 </footer>  
FOOTER**;  
 $footer .=**"\n"**;  
 **return** $footer;  
}  
  
*/\* A global exception handler that will fire if no catch block is found  
\* @param $e  
\*/***function** exceptionHandler ($e) {  
 **echo "<p><strong>Problem </strong>"** . $e->getMessage() .  
 **" in file "** . $e->getFile() .  
 **", on line "** . $e->getLine() . **"</p>"**;  
}  
  
*set\_exception\_handler*(**'exceptionHandler'**);  
  
*//Error handle***function** errorHandler ($errno, $errstr, $errfile, $errline) {  
 **if**(!(*error\_reporting*() & $errno)) {  
 **return**;  
 }  
 **throw new** ErrorException($errstr, $errno, 0, $errfile, $errline);  
}  
*set\_error\_handler*(**'errorHandler'**);  
  
  
*//Creates an error log. param $e is the exception triggered***function** log\_error($e) {  
 $fileHandle = *fopen*(**"error\_log\_file.log"**, **"ab"**);  
 $date = *date*(**'D M j G:i:s T Y'**);  
 *fwrite*($fileHandle, **"**$date**"**);  
 *fwrite*($fileHandle,$e->getMessage().***PHP\_EOL***);  
 *fclose*($fileHandle);  
}