EXAMPLE CLASS REPORT CE1002 INTRODUCTION TO COMPUTING SYSTEMS



LAB GROUP FE2:

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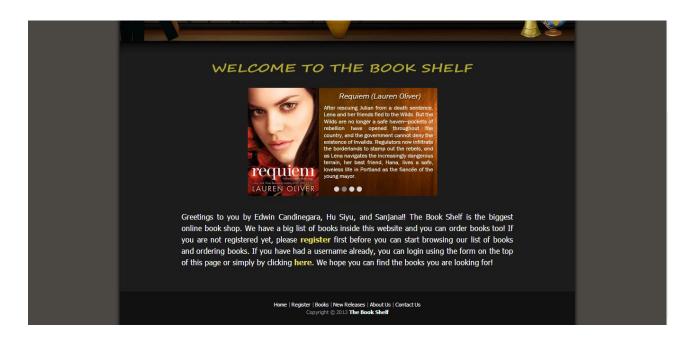
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SCHOOL OF COMPUTER ENGINEERING
NANYANG TECHNOLOGICAL UNIVERSITY

I. Introduction

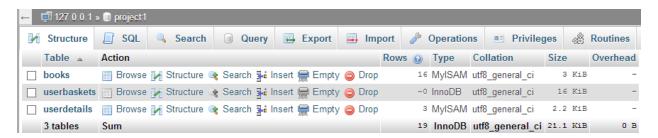
This website has been created as a part of our project in CE1002 Introduction in Computing Systems in order to enhance our knowledge in HTML, PHP, and database. This website is an online book store called "The Book Shelf". In this website, we are able to register a new user, log in as user, buy books online, manipulate orders, and other things. Furthermore, we also use JavaScript for simple form validation in this project.





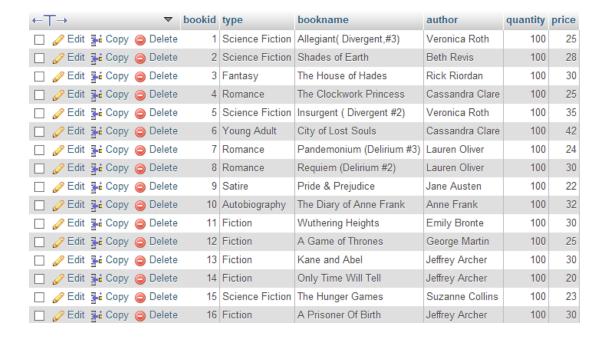
II. Database

The database "project1" has three tables which are books, userdetails, and userbaskets. We use these three tables to store all information related to the user's details, user's orders, and book's details.



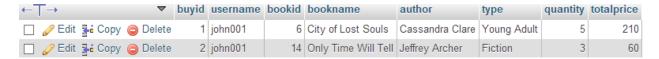
2.1 Books

The books table has six fields. They are bookid, type, bookname, author, quantity, and price. The bookid field is the primary key of this table. Each book has its own book ID. This table stores all information related to the books which are put in the website.



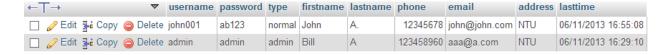
2.2 Userbaskets

The userbaskets table consists of eight fields. They are buyid, username, bookid, bookname, author, type, quantity, and totalprice. The buyid and username fields are the primary keys in this table. The username connects this table with userdetails table and the buyid, which increments automatically, is to distinguish between one orders with another. Basically, this table stores every order details.



2.3 Userdetails

The third table is the userdetails table. It has nine fields which are username, password, type, firstname, lastname, phone, email, address, and lasttime. The unique field is the username. In addition, the username and password fields are using utf8_bin collation so that the username and password are case sensitive.



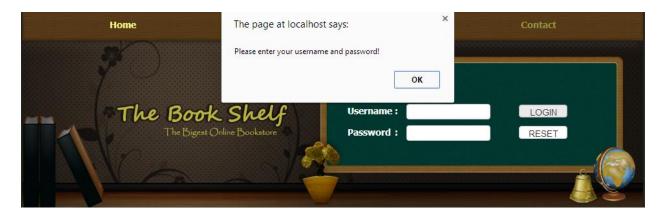
III. WEBSITE

3.1 Login Page



The login form can be found on the homepage. This form is processed by login.php and also validated first by a JavaScript function as in the picture below.

As long as one of the two textboxes are empty, the JavaScript function will provide an alert message and the form will not be processed by login.php.



After the textboxes are filled in, login.php will process the data by checking whether the username exists or not and the user's type. If the login process is successful, and its type is normal user, the user will be directed to basket.php. If the user's type is admin, then the admin user will be brought to the adminusers.php page. Moreover, the username and password will be saved as \$_SESSION variables so that it is reusable in other pages.

```
if ($type['type'] === "admin")
{
   header("refresh:0; url=adminusers.php");
   $_SESSION['username']=$username;
   $_SESSION['password']=$password;
   $_SESSION['lasttime']=$lasttime;
}

if ($type['type'] === "normal")
{
   header("refresh:0;url=basket.php");
   $_SESSION['username']=$username;
   $_SESSION['password']=$password;
   $_SESSION['lasttime']=$last;
}
```

On the other hand, if it does not exist, the PHP file will run a script alerting the user and redirect the user to the registration page.



In addition, if the username exists, but the user inserts a wrong password, the PHP file will tell the user that his/her password is wrong.



3.2 Registration Page

REGISTRATION FORM:				
Please fill in the form :				
First Name	:			
Last Name	: -			
Username	*must be alphabet or numeric	only, at least 5 but not more than 20 characters		
Password	*at least 8 characters and mu	st be alphabet or numeric only		
Confirm Password	:			
Address	:			
Phone Number	: + -			
E-Mail				
	ear Fields			

Basically, this page provides form used for registering a new user. As in login form, this form is also validated using JavaScript first. An alert box is popped if a condition is not fulfilled. For example, a textbox is blank, the first name and last name contain a number, and other validations.

Once the submit button is pressed, the data is processed by registration.php. It checks whether the username has existed before. If the username does not exist, the PHP file will

update userdetails table with the data. Otherwise, the PHP file will bring you back to the registration page.

When the registration process is successful, the PHP will pop an alert message telling the new user to login first and redirect him/her to the home page.



3.3 Logging In

Normal User:

When you log in as a normal user, you will be directed to the basket.php page where you can see your book orders. After you log in, you will be able to see your status such as how many orders you have, your last login time, and also it provides a link which brings you to a page where you can change your password.

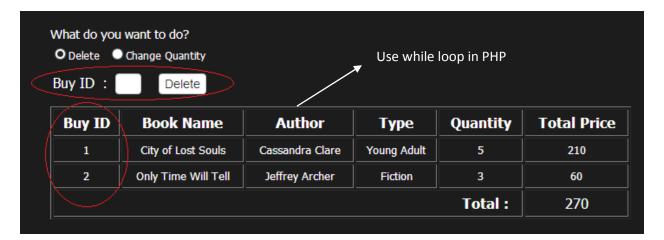


"Your Basket" Page:

In basket.php, user can alter their book orders. They can change the quantity of the books and delete their orders by using their buy ID specified in the order's table. Inside the basket.php, we use PHP while loops to show the content of the order's table. Further, deleting

order is done by the deletebook.php and changing quantity is done by using changeqty.php file.

To delete book orders:



To change the quantity of books ordered:



Admin user:

If you are an admin, you will be directed to adminusers.php page after logging in successfully. Admin has the power to delete users, and orders, and to see the full details of each books available.

Admin Page Which table do you want to see? O User Details User Baskets Books Details Username : Delete **Last Name** Address Username Password Type First Name Phone **Email** abcd1234 12345678 NTU john001 John john@john.com normal 123458960 NTU admin admin admin Bill admin@admin.com

Admin Page							
Which table do you want to see? User Details User Baskets Books Details Delete							
Buy ID	Buy ID Username Book ID Book Name Author Type Quantity Total Price						
1	john001	13	Kane and Abel	Jeffrey Archer	Fiction	8	240
2	john001	16	A Prisoner Of Birth	Jeffrey Archer	Fiction	3	90

Which table do you want to see? ■ User Details ■ User Baskets □ Books Details					
Book ID	Туре	Book Name	Author	Quantity	Price
1	Science Fiction	Allegiant(Divergent,#3)	Veronica Roth	100	25
2	Science Fiction	Shades of Earth	Beth Revis	100	28
3	Fantasy	The House of Hades	Rick Riordan	100	30
4	Romance	The Clockwork Princess	Cassandra Clare	100	25
5	Science Fiction	Insurgent (Divergent #2)	Veronica Roth	100	35
6	Young Adult	City of Lost Souls	Cassandra Clare	95	42
7	Romance	Pandemonium (Delirium #3)	Lauren Oliver	100	24
8	Romance	Requiem (Delirium #2)	Lauren Oliver	100	30
9	Satire	Pride & Prejudice	Jane Austen	100	22
10	Autobiography	The Diary of Anne Frank	Anne Frank	100	32
11	Fiction	Wuthering Heights	Emily Bronte	100	30
12	Fiction	A Game of Thrones	George Martin	100	25
13	Fiction	Kane and Abel	Jeffrey Archer	100	30
14	Fiction	Only Time Will Tell	Jeffrey Archer	97	20
15	Science Fiction	The Hunger Games	Suzanne Collins	100	23
16	Fiction	A Prisoner Of Birth	Jeffrey Archer	100	30

The deleting username process is done by the deleteuser.php file while the deleting orders process is done by the deletebookadmin.php.

3.4 Logging Out:

User can easily log out from the system by clicking the "Logout" button which is in the status board on the top of the page. When a user logs out, the logout.php file will destroy the session, unset all session variables, and also delete session cookies.

```
<?php
   // Initialize the session.
   // If you are using session name("something"), don't forget it now!
   session start();
   // Unset all of the session variables.
   $ SESSION = array();
   // If it's desired to kill the session, also delete the session cookie.
   // Note: This will destroy the session, and not just the session data!
   if (ini get("session.use cookies")) {
       $params = session_get_cookie_params();
       setcookie(session_name(), '', time() - 42000,
           $params["path"], $params["domain"],
           $params["secure"], $params["httponly"]
       );
   // Finally, destroy the session.
   session destroy();
   header("refresh:0;url=home.php");
```

3.6 Changing Password

User is able to change their password after the user is logged in. Changing password can be done by clicking the link found in the status board. It will bring the user to change_pass.php where a form to change password can be found. This form will be processed using changepassword.php. It will update the user's password in the userdetails table inside the database.

CHANGE YOUR PASSWORD				
Old Password New Password	:	*at least 8 characters and must be alphabet or numeric only		
Confirm New Password	:			
Change Passwo	ord Clear			

3.6 Books

In this page, the user can view books of different genres and their prices. Further, user can read the full description of a book by simply clicking the "Read more..." button. Clicking the button will bring the user to a particular book page where user can also find a form used for adding an order.

ВОО	KS	
nrones (by George Martin)	Kane and	Abel (by Jeffrey Archer)
In the novel, presenting various points of view and plot-lines, Martin introduces the noble houses of Westeros \$25 Read more	JEFFREY ARCHER Kane and Abel	Kane and Abel is a 1979 novel by British author Jeffrey Archer. The title and story is a play on the Biblical brothers, Cain and Abel \$30 Read More
ill Tell (by Jeffrey Archer) The plot revolves around the main protagonist Harry Clifton, spanning the time between 1920 and the beginning of the \$20 Read More	JEFFREY ARCHER A Prisoner of Birth	A Prisoner of Birth is a mystery novel by English author Jeffrey Archer, first published on 6 March 2008 by Macmillan
	In the novel, presenting various points of view and plot-lines, Martin introduces the noble houses of Westeros \$25 Read more The plot revolves around the main protagonist Harry Clifton, spanning the time between 1920 and the beginning of the	In the novel, presenting various points of view and plot-lines, Martin introduces the noble houses of Westeros \$25 Read more III Tell (by Jeffrey Archer) The plot revolves around the main protagonist Harry Clifton, spanning the time between 1920 and the beginning of the \$20 A Prisoner Control of Rinth

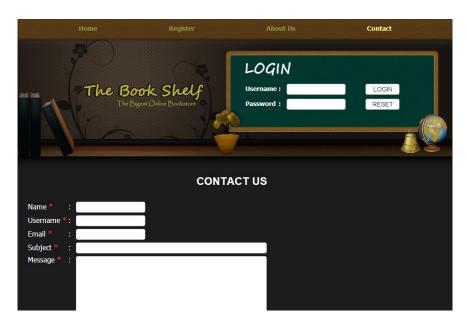
3.7 Ordering a book:

There are 16 book's description pages. Each pages has a synopsis or a short description of the book, a form which is used by user to add a book order, and also it shows the number of books available in the store. Once a user adds an order, the table inside the database will be updated. This process is be done by bookadd.php.



3.8 Contact Us

In fact, there are two Contact Us page in this website. The first one, "contact1.php", is used by any person in general, who enters the website, can leave an enquiry on this page. It does not contain attributes like Categories or Bestseller, and contains tabs like Home, Register, About Us and Contact on the top of the page. This contact form will then be processed by emailsend1.php.



		CONTACT US	
Name * : Username * : Email * :			
Subject * : Message * :			
	Send Message	Clear Form	
		Home Register Books New Releases Abou Copyright © 2013 The Book Sh	

The other Contact Us page, which is "contact2.php", is created for users to make any enquiries and is explicitly made for users. It differs in the layout – It contains tabs such as, Books, New releases, Your Basket, About Us and Contact on the top, and the categories and bestsellers in the left. This contact form will then be processed by emailsend2.php.

Books	New Releases	Your Basket	About Us	Contact
The	Book Shelf The Bigest Online Bookstore	Your last session	clcome john001!! on: 07/11/2013 19:43:11 uny order in your basket hange password? Logout	
Categories Audatiography Festary Fiction Romance Safere Science Fiction Young Adult Bestsellers City of Lost Souls (The Mortal Instruments #5) Kane and Abal Rondemnium (Definium #3) Only Time Will Tell The Hunger Games Studes of Earth	Name : Username : Email : Subject : Message :	CONTAC	CTUS	

Actually, these two pages have the same function, which is to send an enquiry to the website admin. Those book tab and new book tab can only be seen by a logged in user. Thus, the difference is an unregistered visitor will not be able to access the book and new book pages so that they will have to register and login first before they can start ordering. If an unlogged in user tries to enter the book.php or any other pages which can only be accessible by a logged in user, the PHP file will reject the unlogged in user and direct him/her to the home page.

3.9 About Us

The "About Us" button is on the navigation links which can be found on the top of the website. When a user clicks on it, it will direct him/her to the About Us page. Similar to the Contact Us page, there are two About Us pages. One is for users who have logged in and the other one is for any visitor visiting the website. The differences between these two pages are the same as the differences between the two Contact Us pages, e.g. about1.php does not have a list of category and bestselling books on the left side while about2.php has those lists.

ABOUT US

The Book Shelf is the biggest online book store. We have a lot of books from different categories, like Science Fiction, Fantasy, Romance, Young Adult, and the others.

Why do we use online bookstore instead of building an offline store?

It is because we want to make our services available to those who are not in the same country. They will be able to buy books from our store and those books will be sent to their country.

Why should you buy books from The Book Shelf?

We offer some services other online bookstores do not offer. All books purchased from us will be delivered to the customer's home without any additional cost and it will be sent within 3 days after we receive the payment. In addition, we are willing to give a registered user a few preview pages of the book you want to buy so that you do not buy a wrong book.

This website is made by Edwin Candinegara, Hu Siyu, and Jayakumar Sanjana. We are three students from Nanyang Technological University Singapore. This website is made for a CE1002 Introduction to Computing Systems assignment.

Categories

Autobiography

Fantasy

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Science Fiction

Young Adult

Bestsellers

ity of Lost Souls (The Mortal

'ane and Ahel

Pandomonium (Polirium #2

Only Time Will Tell

The Hunger Games

Shades of Earth

ABOUT US

The Book Shelf is the biggest online book store. We have a lot of books from different categories, like Science Fiction, Fantasy, Romance, Young Adult, and the others.

Why do we use online bookstore instead of building an offline store?

It is because we want to make our services available to those who are not in the same country. They will be able to buy books from our store and those books will be sent to their country.

Why should you buy books from The Book Shelf?

We offer some services other online bookstores do not offer. All books purchased from us will be delivered to the customer's home without any additional cost and it will be sent within 3 days after we receive the payment. In addition, we are willing to give a registered user a few preview pages of the book you want to buy so that you do not buy a wrong book.

This website is made by Edwin Candinegara, Hu Siyu, and Jayakumar Sanjana. We are three students from Nanyang Technological University Singapore. This website is made for a CE1002 Introduction to Computing Systems assignment.

IV. CONCLUSION

By doing this project, now we are able to implement what we have learned in the lectures and additional lectures. We understand how to make a simple website and how to integrate a website with a database using PHP code. Furthermore, this project pushes us to be more creative since we have to think what kind of features we should put inside the website and also helps us in developing our self-study skills since we still have to look for some syntaxes which are not covered in the lectures or in the additional lectures.