Project Report

On

BOOK ONLINE SHOPPING SYSTEM

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DBMS PROJECT

In

Computer Science and Engineering

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TABLE OF CONTENTS

ABSTRACT

Book Online Shopping System is a project which aims in developing a computerized system to buy the book online .This project has many features like facility of user login ,maintaining user's account and cart facility. It also has a facility of admin login through which the admin can monitor the whole system . It has also a facility where user after logging in their accounts can buy the book ,see the book features .If the user wants to return the book due to some issue then it has also a facility to do this. There is an admin login through which admin can insert new product ,view all product , insert new categories of books , view all categories of books ,insert new publication ,view all publication.

Overall this project is being developed to user to easily buy the books online at very low price .

1. INTRODUCTION

This chapter gives an overview about the aim , objectives ,background and operation environment of the system.

1.1 PROJECT AIMS AND OBJECTIVES

The project aims and objectives that will be achieved after completion of this project are discussed in this subchapter. The aims and objectives are as follows:

- Online book shopping
- Category wise specification of books
- Publication wise specification of books
- User login page where user can see their orders, manage their orders, manage their account .
- A search column to search availability of books
- Admin login page where admin can have full control over the system capable of manipulating database.

1.2 BACKGROUND OF PROJECT

Book Online Shopping System is an application which refers to book online systems which are generally small or medium in size. It is used by any user who wants to buy the specified books online .Through this system they can easily do their work.

The objective of this project is to develop a general purpose book store where any books can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online book store.

User login features is also given to manage their account, see their orders, manage their orders.. With this computerized system there will be no loss of record or member record which generally happens when a non computerized system is used.

An online store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart. At checkout time, the items in the shopping cart will be presented as an order. At that time, more information will be needed to complete the transaction. Usually, the customer will be asked to fill or select a billing address, a shipping address, a shipping option, and payment information such as credit card number. An e- mail notification is sent to the customer as soon as the order is placed.

1.3 OPERATION ENVIRONMENT

PROCESSOR	INTEL CORE PROCESSOR OR BETTER PERFORMANCE
OPERATING SYSTEM	WINDOWS VISTA , WINDOWS 7 ,8 ,10, UBUNTU
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
DATABASE	MY SQL

2. SYSTEM ANALYSIS

In this chapter, we will discuss and analyze about the developing process of Book Online Shopping System including software requirement specification (SRS). The functional and non functional requirements are included in SRS part to provide complete description and overview of system requirement before the developing process is carried out.

2.1 SOFTWARE REQUIREMENT SPECIFICATION

2.1.1 GENERAL DESCRIPTION

PRODUCT DESCRIPTION:

Book Online Shopping System can help the customer to buy the required books easily through the internet from anywhere. It can help to manage the transaction or record more effectively and time-saving.

PROBLEM STATEMENT:

The problem occurred before having computerized system includes:

- **More time taken physically**

  When online system was not there ,the whole process of buying books takes more time as we have to go to market to buy the book and it takes more time.

- **Difficult to search books**

  When there was no computerized system there was always a difficulty in searching of books .

2.1.2 SYSTEM OBJECTIVES

- **Improvement in control and performance**

  The system is developed to cope up with the current issues and problems.

- **Save cost**

  After computerized system is implemented less human force will be required to maintain thus reducing the overall cost.

- **Save time**

  Customer is able to search books by using few clicks of mouse and few search keywords thus saving his valuable time.

2.1.3 SYSTEM REQUIREMENTS

2.1.3.1 NON FUNCTIONAL REQUIREMENTS

- ***Product Requirements***

EFFICIENCY REQUIREMENT

When a book online shopping system will be implemented customer will easily buy the books and it saves times and price .

RELIABILITY REQUIREMENT

The system should accurately performs user registration , user validation , transaction and search of books.

USABILITY REQUIREMENT

The system is designed for a user friendly environment so that customer can perform the various tasks easily and in an effective way.

ORGANIZATIONAL REQUIREMENT

IMPLEMENTATION REQUIREMNTS

In implementing whole system it uses html in front end with php as server side scripting language which will be used for database connectivity and the backend ie the database part is developed using mysql.

DELIVERY REQUIREMENTS

The whole system is expected to be delivered in one months of time with a weekly evaluation by the project guide.

2.1.3.2 FUNCTIONAL REQUIREMENTS

1. NORMAL USER

1.1 USER LOGIN

Description of feature

This feature used by the user to login into system. They are required to enter email id and password before they are allowed to enter the system .The email id and password will be verified and if invalid id is there user is not allowed to enter the system.

Functional requirements

-Registration is done through their Email Id.

-The system must only allow user with valid email id and password to enter the system

-The system performs authorization process which decides what level user can acess to.

-The user must be able to logout after they finished using system.

1.2 REGISTRATION OF NEW USER

Description of feature

This feature can be performed by all users to register new user to create account. They will require to enter customer name, customer email, customer password , customer image , customer country , customer city , customer contact customer address.

Functional requirements

-System must be able to verify information

1.4 SEARCH BOOK

Description of feature

This feature is found after the user is logged into his/her account . we can search books based on product.

Functional requirements

- System must be able to search the database based on select search type
- System must be able to filter book based on keyword entered
- System must be able to show the filtered book in table view

2.1.4 SOFTWARE AND HARDWARE REQUIREMENTS

This section describes the software and hardware requirements of the system :

2.1.4.1 SOFTWARE REQUIREMENTS

- **Operating system:** Ubuntu ,Windows 8.1 is used as the operating system as it is stable and supports more features and is more user friendly

- **Database MYSQL:** MYSQL is used as database as it easy to maintain and retrieve records by simple queries which are in English language which are easy to understand and easy to write.

- **Development tools and Programming language:** HTML is used to write the whole code and develop webpages with css, java script for styling work and php for sever side scripting.

2.1.4.2 HARDWARE REQUIREMENTS

- Intel core i5 5th generation and Intel core i3 5^{th} generation is used as a processor because it is fast than other processors and provide reliability and stablity. By using this processor we can keep on developing our project without any worries.

- RAM 4 GB is used as it will provide fast reading and writing capabilities and will in turn support in processing .

2.2 SOFTWARE TOOLS USED

The whole Project is divided in two parts the front end and the back end.

2.3.1 Front end

The front end is designed using of html , Php ,css, Java script

- HTML**: HTML** or **Hyper Text Markup Language** is the main markup language for creating web pages and other information that can be displayed in a web browser.HTML is written in the form of HTML elements consisting of *tags* enclosed in angle brackets (like <html>), within the web page content. HTML tags most commonly come in pairs like <h1> and </h1>, although some tags represent *empty elements* and so are unpaired, for example <img>. The first tag in a pair is the *start tag*, and the second tag is the *end tag* (they are also called *opening tags* and *closing tags*). In between these tags web designers can add text, further tags, comments and other types of text-based content. The purpose of a web browser is to read HTML documents and compose them into visible or audible web pages. The browser does not display the HTML tags, but uses the tags to interpret the content of the page.HTML elements form the building blocks of all websites. HTML allows images and objects to be embedded and can be used to create interactive forms. It provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. It can embed scripts written in languages such as JavaScript which affect the behavior of HTML web pages.

- CSS**: Cascading Style Sheets** (**CSS**) is a style sheet language used for describing the look and formatting of a document written in a markup language. While most often used to style web pages and interfaces written in HTML . CSS is a cornerstone specification of the web and almost all web pages use CSS style sheets to describe their presentation. CSS is designed primarily to enable the separation of document content from document presentation, including elements such as the layout, colors, and fonts. This separation can improve content accessibility, provide more flexibility and control in the specification .

- JAVA SCRIPT**:** **JavaScript** (**JS**) is a dynamic computer programming language. It is most commonly used as part of web browsers, whose implementations allow client-side scripts to interact with the user, control the browser, communicate asynchronously, and alter the document content that is displayed. Here, it is mainly used to generate alert message on some invalidity and also to pass a value from one page to other.

- PHP**:** **PHP** is a server-side scripting language designed for web development but also used as a general-purpose programming language. PHP is now installed on more than 244 million websites and 2.1 million web servers. Originally created by Rasmus Lerdorf in 1995, the reference implementation of PHP is now produced by The PHP Group. While PHP originally stood for *Personal Home Page*, it now stands for *PHP: Hypertext Preprocessor*. PHP code is interpreted by a web server with a PHP processor module, which generates the resulting web page. PHP commands can be embedded directly into an HTML source document rather than calling an external file to process data. It has also evolved to include a command-line interface capability and can be used in standalone graphical applications. PHP is free software released under the PHP License. PHP can be deployed on most web servers and also as a standalone shell on almost every operating system and platform, free of charge.

2.3.2 Back end

The back end is designed using mysql which is used to design the databases and PHP for form validation.

- MYSQL- **MySQL** ("My S-Q-L", officially, but also called "My Sequel") is (as of July 2013) the world's second most widely used open-source relational database management system (RDBMS). It is used for manipulating the databases . It is used as database as it easy to maintain and retrieve records

by simple queries which are in English language which are easy to understand and easy to write.

3. SYSTEM DESIGN

3.1 TABLE DESIGN

Various table to maintain Information

- **BOOKS** Table for database of books

14/11/2016 localhost / localhost / project / books | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**book_id**	int(100)			No	*None*	AUTO_INCREMENT
2	**book_cat**	int(100)			No	*None*	
3	**book_brand**	int(100)			No	*None*	
4	**book_title**	varchar(255)	latin1_swedish_ci		No	*None*	
5	**book_price**	int(100)			No	*None*	
6	**book_desc**	text	latin1_swedish_ci		No	*None*	
7	**book_image**	text	latin1_swedish_ci		No	*None*	
8	**book_keywords**	text	latin1_swedish_ci		No	*None*	

- **User Registration** Table for User/Customer Information

14/11/2016 localhost / localhost / project / customers | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**customer_id**	int(10)			No	*None*	AUTO_INCREMENT
2	**customer_ip**	varchar(255)	latin1_swedish_ci		No	*None*	
3	**customer_name**	text	latin1_swedish_ci		No	*None*	
4	**customer_email**	varchar(20)	latin1_swedish_ci		No	*None*	
5	**customer_pass**	varchar(20)	latin1_swedish_ci		No	*None*	
6	**customer_country**	text	latin1_swedish_ci		No	*None*	
7	**customer_city**	text	latin1_swedish_ci		No	*None*	
8	**customer_contact**	varchar(20)	latin1_swedish_ci		No	*None*	
9	**customer_add**	varchar(200)	latin1_swedish_ci		No	*None*	
10	**customer_image**	text	latin1_swedish_ci		No	*None*	

- **CART** Table for keeping track of books in cart

14/11/2016 localhost / localhost / project / cart | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**book_id**	int(10)			No	*None*	AUTO_INCREMENT
2	**ip_add**	varchar(100)	latin1_swedish_ci		No	*None*	
3	**qty**	int(10)			No	*None*	

- **Categories** Table for categories of books done by admin

14/11/2016 localhost / localhost / project / categories | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**cat_id**	int(100)			No	*None*	AUTO_INCREMENT
2	**cat_title**	text	latin1_swedish_ci		No	*None*	

- **ADMIN LOGIN** Table that holds the information of admin

14/11/2016 localhost / localhost / project / admin | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**user_id**	int(10)			No	*None*	AUTO_INCREMENT
2	**user_email**	varchar(20)	latin1_swedish_ci		No	*None*	
3	**user_pass**	varchar(20)	latin1_swedish_ci		No	*None*	

- **Publication** Table that contains the Detail of books according to publication

14/11/2016 localhost / localhost / project / publication | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**pub_id**	int(10)			No	*None*	AUTO_INCREMENT
2	**pub_title**	varchar(100)	latin1_swedish_ci		No	*None*	

- **MENU** Table that keeps the detail of menu

14/11/2016 localhost / localhost / project / menu | phpMyAdmin 4.5.2

#	Name	Type	Collation	Attributes	Null	Default	Extra
1	**m_id**	int(10)			No	*None*	AUTO_INCREMENT
2	**m_title**	varchar(20)	latin1_swedish_ci		No	*None*	

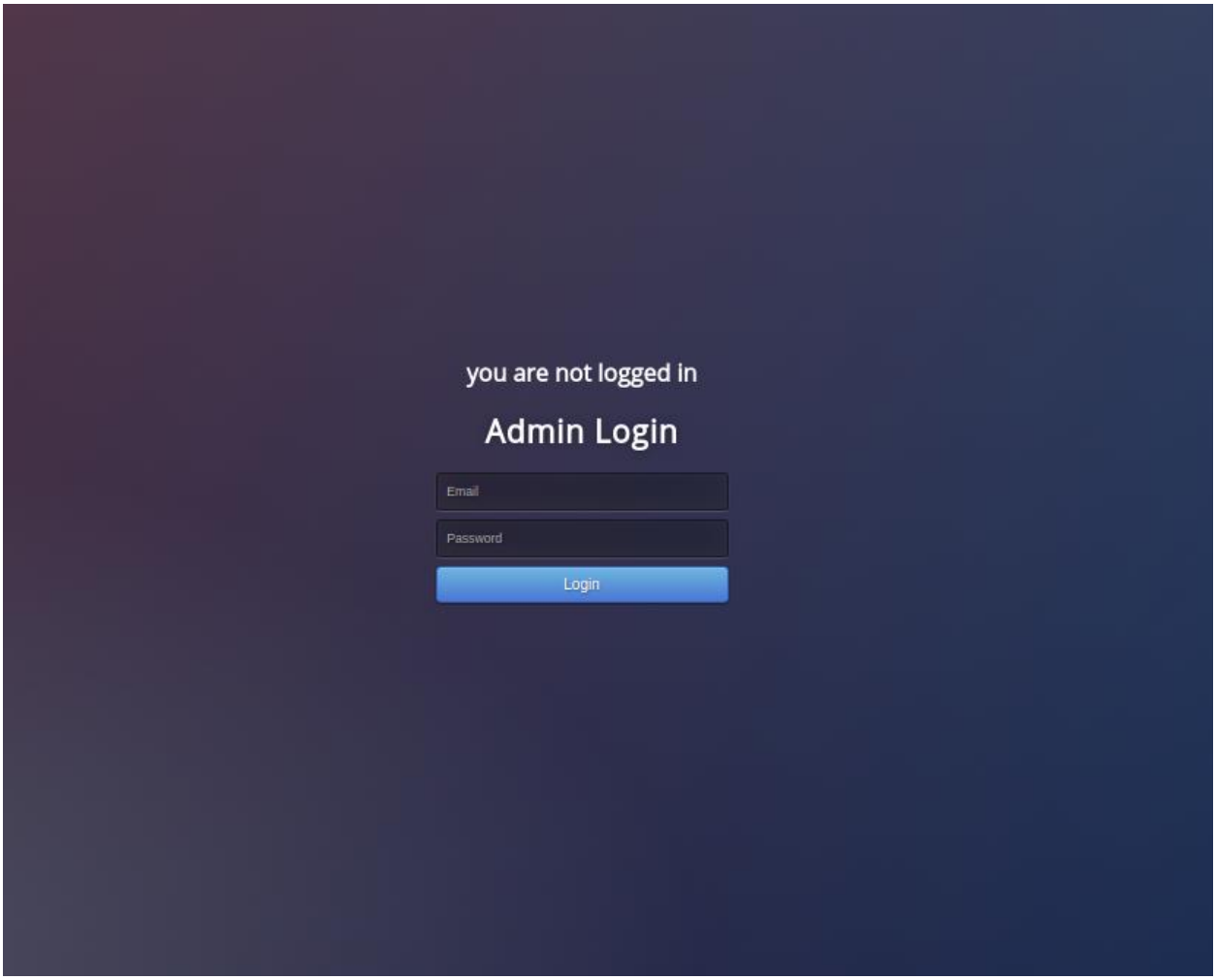
4.SYSTEM IMPLEMENTATION

4.1.1 Screenshot for homepage

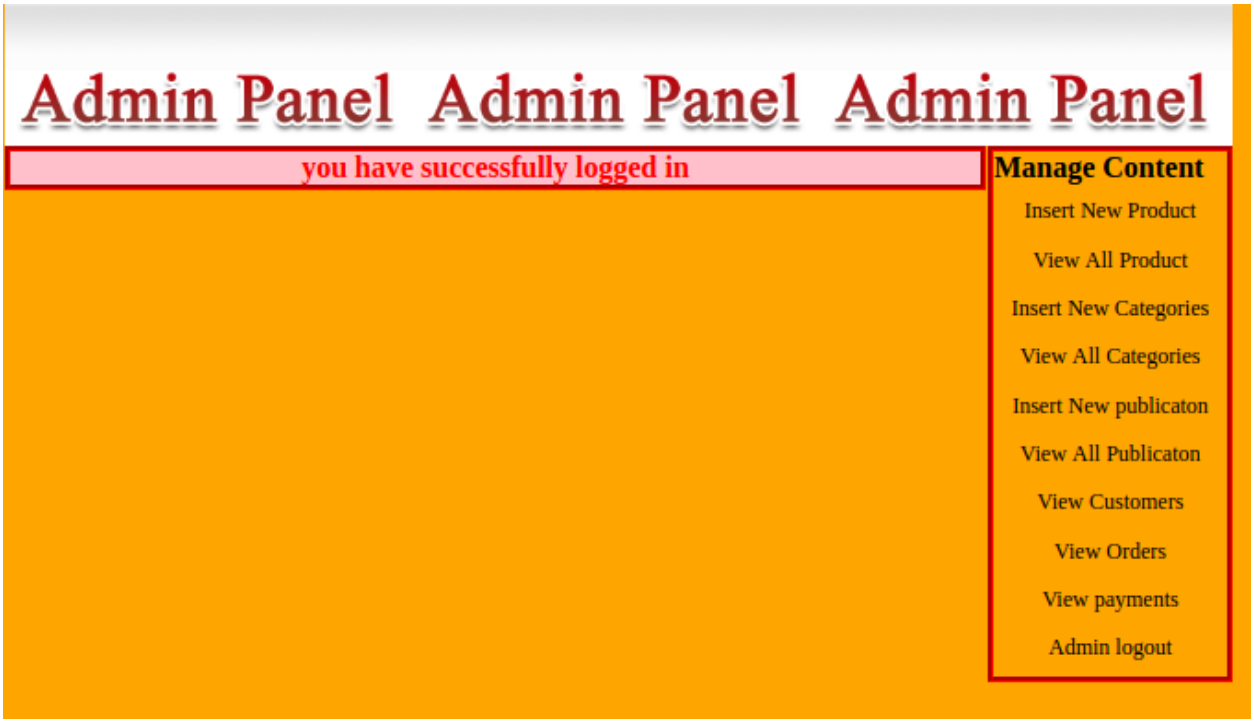
4.1.2 Screenshot for User/Customer Login page

4.1.3 Screenshot for User/Customer Account page

4.1.4 Screenshot for Admin login page

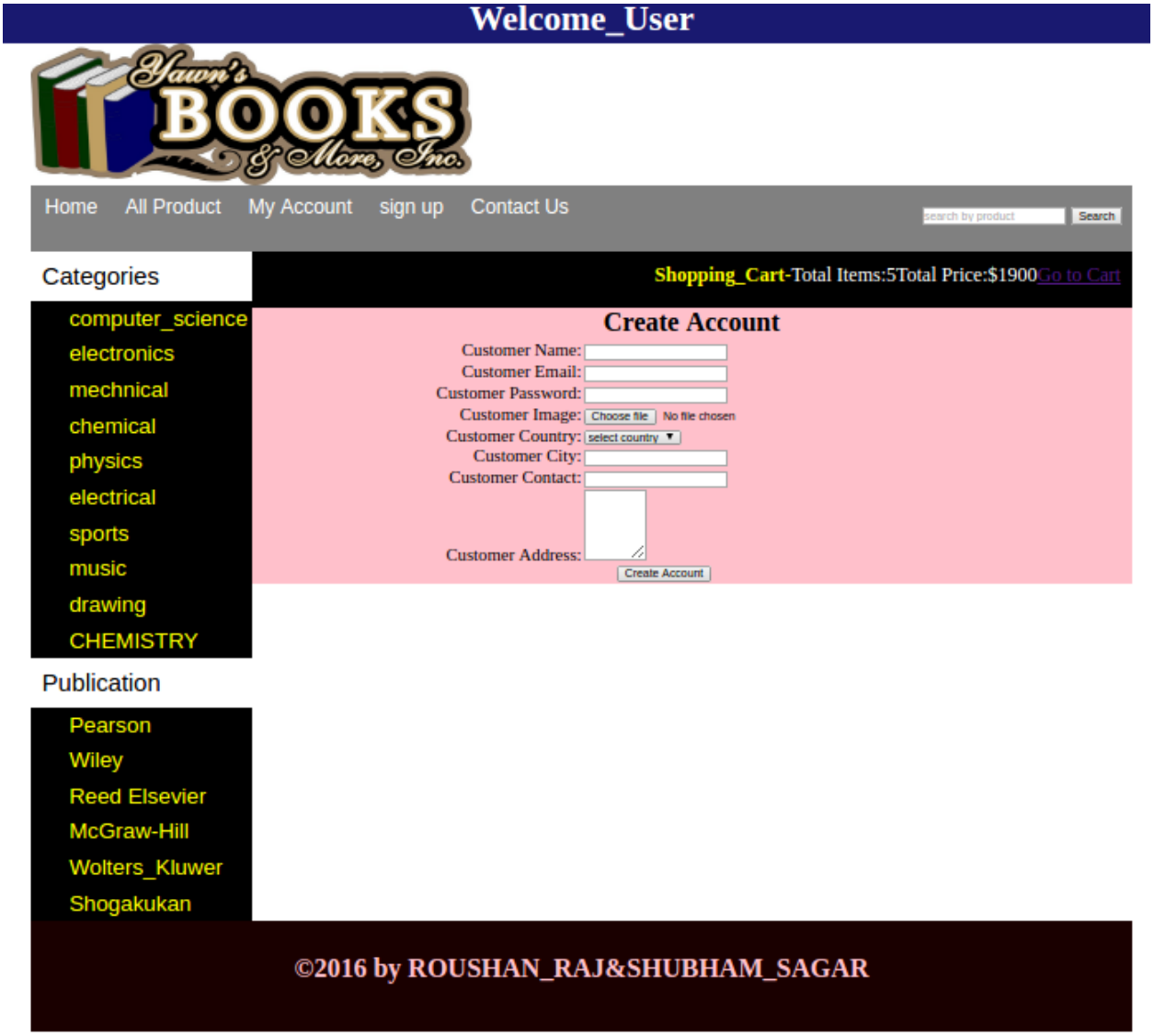

you are not logged in
Admin Login
Email
Password
Login

3.1.5 Screenshot for Admin account page



3.1.6 Screenshot for Cart page

3.1.7 Screenshot for User Registration page



3.1.8 Screenshot for Contact Us page

3.2 MODULE DESCRIPTION

For Book Online Shopping System it is divided into the following Modules:

4.2.1 Admin Module

The following module contains various facilities like student validation, teacher registration, book addition.

Code for Admin module

Code for entering admin username and password

```
<!DOCTYPE>
<html>
    <head>
        <title>
            Admin_Login_Form
        </title>
        <link rel="stylesheet" href="styles/admin_sytle.css" media="all"/>
    </head>
      <body>
                <div class="login">
              <h2 style="color:white; text-align:center;"><?php echo @$_GET['logged_in'];?></h2>
               <h2 style="color:white; text-align:center;"><?php echo @$_GET['logout'];?></h2>
                    <h1>Admin Login</h1>
                    <form method="post">
                        <input type="text" name="email" placeholder="Email" required="required"
/>
                        <input type="password" name="p" placeholder="Password"
required="required" />
                        <button type="submit" name="sub" value="Login" class="btn btn-primary
btn-block btn-large">Login</button>
                    </form>
                </div>
      </body>
</html>
<?php
include("includes/db.php");
session_start();
if(isset($_POST['sub']))
      {
          $email=mysql_real_escape_string($_POST['email']);
          $pass=mysql_real_escape_string($_POST['p']);
          $encrypt=md5($pass);//security purpose
          $query="select * from admin where user_email='$email' AND user_pass='$pass'";
          $run=mysqli_query($con,$query);
```

```
        $check_user=mysqli_num_rows($run);
        if($check_user==0)
            {
                echo "<script>alert('Password or Email is wrong,try again!')<script>";
            }
        else
            {
                $_SESSION['user_email']=$email;
                echo "<script>window.open('index.php?logged_in=you have successfully logged
in','_self')</script>";
            }

    }
?>
```

4.2.2 User Login Module

Code for User Login module

Code for entering user email and password

```
<?php
  echo"roushan_raj";
  include("includes/db.php");
   //include("function/function.php");
?>
<div padding="100">
 <form action="" method="post">
    <table width="500" bgcolor="yellow" align="center">
        <tr align ="center">
          <td colspan="4"><h2>Login or Registar to Buy<h2></td>
        </tr>
        <tr>
            <td align="right"">Email:</td>
            <td><input type="text" name="email" placeholder="enter email" required><td>
        </tr>
        <tr>
            <td align="right">Password:</td>
            <td><input type="password" name="pass" placeholder="enter password"
required><td>
        </tr>
        <tr>
            <td colspan="4" align="center"><a href="checkout.php" style="text-
decoration:none;" >Forget Password? </a></td>
        </tr>
        <tr align="center">
            <td colspan="4"><input type="submit" name="s" value="login"><td>
        </tr>
```

```
            </table>
            <table>
               <h2 style="float:right "><a href="customer_register.php">New? Register Here<h2>
            </table>
         </form>
        </div>

        <?php

        if(isset($_POST['s']))
                {
                  $email=$_POST['email'];
                  $pass=$_POST['pass'];
                  $query="select * from customers where customer_email='$email' AND
customer_pass='$pass'";
                  $run=mysqli_query($con,$query);
                  $no_row=mysqli_num_rows($run);

                  $ip=getIp();
                  $c_query="select * from cart where ip_add='$ip'";
                  $c_run=mysqli_query($con,$c_query);
                  $c_no=mysqli_num_rows($c_run);
                  if($no_row==0)
                        {
                           echo "<script>alert('password or email is incorrect,please try
again!')</script>";

                        }

                  else if($c_no==0 AND $no_row>0)
                        {
                           $_SESSION['customer_email']=$email;
                           echo "<script>alert('you logged in successfully')</script>"   ;
                           echo "<script>window.open('customer/my_account.php','_self')</script>";
                        }
                  else
                        {

                           $_SESSION['customer_email']=$email;
                           echo "<script>alert('you logged in successfully')</script>"   ;
                           echo "<script>window.open('checkout.php','_self')</script>";


                        }
                }

        ?>
```

SYSTEM TESTING

The aim of the system testing process was to determine all defects in our project .The program was subjected to a set of test inputs and various observations were made and based on these observations it will be decided whether the program behaves as expected or not.

Our Project went through two levels of testing
1. Unit testing
2. Integration testing

UNIT TESTING

Unit testing is undertaken when a module has been created and succesfully reviewed .Unit testing was done on each and every module .

1. Test For the admin module

- Testing admin login form: This form is used for log in of administrator of the system. In this we enter the email and password if both are correct administration page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for username and password

2. **Test for User /Customer login module**

- Test for Customer login Form: This form is used for log in of **User /Customer** .In this we enter the email and password if all these are correct ,user login page will open otherwise if any of data is wrong it will get redirected back to the login page and again ask for email and password.

INTEGRATION TESTING

In this type of testing we test various integration of the project module by providing the input .The primary objective is to test the module interfaces in order to ensure that no errors are occurring when one module invokes the other module.

CONCLUSION AND FUTURE SCOPE

This website provides a computerized version of Book Online Shopping System such that user/customer can buy the books easily and it is time saving process.

There is a future scope of this facility that many more features can be added to the project such that we can extend it to the more area and sell more things.

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