

LITERARIUM (The Magical World Of Books)

A Project Report Submitted as part of the Course HUMAN COMPUTER INTERACTION CSE 4015 School of Computer Science Engineering VIT Chennai

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ABSTRACT

Literarium is a Digital Library Platform where we will have a home page containing basic information about the Library, Images of few books and brief information about the Website. In this Website an user can search for his/her book and download it in case the PDF is available, if not he would be directed to the shopping page where he/she has an access to purchase the book.

The main objective of our project is to implement a Multi User Website in which Students have an access to Digital Library with an option to purchase the book from the available list or read the book available in Online PDF's by downloading it and Lecturers/Professors have an additional access to add or remove books in the cart alongside with purchasing the book and reading the book.

This website allows user to search, download and purchase a book online based on title, author and subject. The selected books are displayed in a tabular format and the user can download if PDF link is provided if not the user can place their order for their books online through credit card payment or any other form. Using this website the user can purchase a book online instead of going out at this pandemic situation and risking their life and wasting a lot of money.

There are many online book stores like Powell's, Amazon which has only an option to purchase books but our website also provides the user to download books which has a link. The lectures also upload their notes which facilitates easy way to browse particular topic they need.

Online Book Platform is an Online Web Application in which user can login using his account details or new users can set up an account very quickly. They should give the details of their name, contact number and shipping Address. The user can also give their feedback to the website.

The books are divided into various categories based on topics like Software, Arts, Fantasy, English etc. The admin/lecturer have additional features apart from purchasing and downloading. They can add, delete and update the book details, add in book categories, know the member information and also confirm a placed order.

The user can either login as a student or an Admin.After Logging in as Student the user would be directed to a page with list of books and its PDF links there the person can search for any book he/she wants.If the book,the user needs is not available then the user is directed to a Webpage where the user is provided with the shopping link.The user has to click on the link and purchase the book inorder to read the book.

After Logging in as Admin the user would be directed to a page where there would be facilities like adding or removing books/PDF's for the available list along with all other features that is offered to the student.

We have used HTML,CSS,JavaScript as the FrontEnd for this Website.The BackEnd used for this Website is MySQL,PHP.

1. INTRODUCTION

- Online Book Application(Literarium) is an online web application where the customer
 can purchase books online or download the needed books in case the book is
 attached with a PDF link. Through a web browser the customers can search for a
 book by its title or author, if the book has a downloadable link then the user can
 download or later can add to the shopping cart and finally purchase the books.
- The Online Book Store (OBS) application enables vendor to setup online book store, customers to browse through the books, and a system administrator to approve and reject requests for new books and maintain lists of book categories.
- The main objective of "Online Book Application" is to provide an essence of online book store via a simple and yet powerful medium. The project has been designed to simulate the working of an actual online book store and library.
- We are using HTML,CSS,JavaScript and PHP,MySQL to develop our Website.
- HTML provides the basic structure of sites, which is enhanced and modified by other technologies like CSS and JavaScript. CSS is used to control presentation, formatting, and layout. JavaScript is used to control the behavior of different elements.
- PHP is the most popular scripting language for web development. It is free, open source and server-side (the code is executed on the server). MySQL is a Relational Database Management System (RDBMS) that uses Structured Query Language (SQL). It is also free and open source.

This project has the following functionalities:

I. A Home page with product catalog

This is the page where the user will be navigated after a successful login. It will display all the book categories and will have a search keyword option to search for the required book. There will be few options available on the homepage like Facts, Contact, Login, Signup, Search etc.It also includes some special sections like user rating.

- 1. When the user clicks on Facts he/she is directed to a page that will contain facts about the library.
- 2. When the user clicks on Contact, details to contact would be provided.
- 3. When the user clicks on Login he/she gets two options to either sign in as a student or an admin. Respective information needs to be entered by the user.
- 4. When the user wants to create an account he has to click on Signup where basic details of the user would be collected.
- 5. Search is enabled for users to feel ease on using the website.

II. Search

A search by keyword option is provided to the user using a textbox .The keyword to be entered should be the book title.Search helps the user to search for a book based on Title, Author, Category and price range. All the books which match the particular search criteria and their availability will be displayed .From here the user can select a book and add to the shopping cart or download .

III. Book Description

If the user would like to know details about a book he can click on the title from where he will be directed to a Book description page. It includes the notes on the book content.

IV. <u>User Voting</u>

The user can give rating to a book based on his interest.

V. Downloadable Link

Book and notes that are uploaded on to the website with the pdf link can be downloadable by the user. This link is attached along with the book when the person searches for the required book or material.

VI. Shopping Cart

The user can manage a shopping cart which will include all the books he selected. The user can edit, delete and update his shopping cart. A final shopping cart summary is displayed which includes all the items the user selected and the final total cost.

VII. Managing user accounts

Each user should have an account to access all the functionalities of website. User can login using login page and logout using the logout page. All the user sessions will be saved in the database.

VIII. Administration

The Administrator will be provided with special functionalities like

- Add or delete a book category
- ❖ Add or delete a member
- Manage member orders.
- Add or delete a Credit Card type.
- ❖ Add or delete Book description.
- Update downloadable links on to the website.

2. LITERATURE SURVEY

A lot of websites and applications can be found when we search the google which are developed for learning purposes. But there is ambiguity in choosing the appropriate content in appropriate time. Some websites has been developed which consists of stories, novels, essays etc. The website till now has a separate online library and a separate online store but we have combined both to one website so that the user can easily purchase the book without the end to search online for that book.

Electronic Commerce (e-commerce) applications support the interaction between different parties participating in a commerce transaction via the network, as well as the management of the data involved in the process. Over three quarters of the 10,000 respondents report having purchased items online. The most cited reason for using the web for personal shopping was convenience (65%), followed by availability of vendor information (60%), no pressure from sales person (55%) and saving time (53%).

A good e-commerce site should present the following factors to the customers for better usability:

- Knowing when an item was saved or not saved in the shopping cart.
- Returning to different parts of the site after adding an item to the shopping cart.
- Easy scanning and selecting items in a list.
- Effective categorical organization of products.
- Simple navigation from home page to information and order links for specific products.
- Obvious shopping links or buttons.
- Minimal and effective security notifications or messages.
- Consistent layout of product information.

Another important factor in the design of an e-commerce site is feedback. The interactive cycle between a user and a web site is not complete until the web site responds to a command entered by the user.

3. EXISTING WORK

The existing web framework till now has a separate library in which the users can only read and an other framework which had a separate store in which the users can only purchase book. There is no feedback taken in many of the websites. Many websites lack in proper shopping web page. At times it also doesn't indicate if the book is added to cart or not. The user friendliness is compromised in many existing web sites. The person has to struggle a lot to understand the Web Site. Returning to different parts of Web Site after an item is added to the cart is tough in many existing Web Sites. The search bar in most websites don't show the exact result that is expected and it takes a long time to show the result in many Web Site. The organization of books into different categories are not in many existing web framework. Most of the website are not made attractive which doesn't fantasize the users of the Web Site.

4. PROPOSED WORK

Literarium is a Digital Library Platform whose objective is to implement a Multi User Website in which Students have an access to Digital Library with an option to purchase the book from the available list or read the book available in Online PDF's by downloading it and Lecturers/Professors have an additional access to add or remove books in the cart alongside with purchasing the book and reading the book.

Languages Used to develop the Website:

FrontEnd: HTML,CSS,JavaScript

BackEnd: MySQL,PHP

There will be few options available on the homepage like Facts, Contact, Login, Signup, Search etc.

- 1. When the user clicks on Facts he/she is directed to a page that will contain facts about the library.
- 2. When the user clicks on Contact, details to contact would be provided.
- 3. When the user clicks on Login he/she gets two options to either sign in as a student or an admin. Respective information needs to be entered by the user.
- 4. When the user wants to create an account he has to click on Signup where basic details of the user would be collected.
- 5. Search is enabled for users to feel ease on using the website.

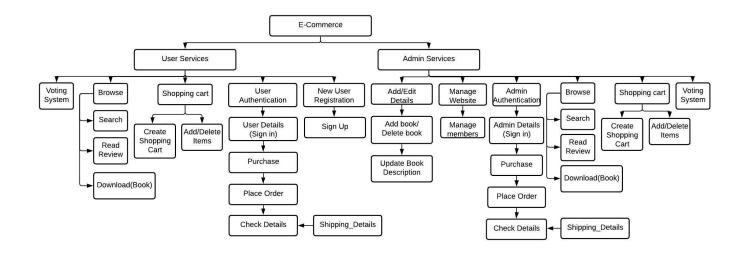
After Logging in as Student the user would be directed to a page with list of books and its PDF links there the person can search for any book he/she wants. If the book, the user needs is not available then the user is directed to a Webpage where the user is provided with the shopping link. The user has to click on the link and purchase the book inorder to read the book.

After Logging in as Admin the user would be directed to a page where there would be facilities like adding or removing books/PDF's for the available list.

In addition to this facilities offered by the system the user is provided with a voting system in top corner in which the user is asked if he/she likes to use this platform.

The proposed work is that we have integrated a online library with an online book store. We have also included feedback system from customer. The web is designed user friendly and attractive.

5. WORKING MODULES AND FLOW CHART



6. DESCRIPTION OF EACH MODULE(EXPLANATION)

USER SERVICES

Browse for a Book

Purpose: A user can search for a book of his choice by selecting category and title. Then a select query is used to retrieve data from the database and display the selected information.

Actor: User

Input: The user will select a category and enter title in a text box provided.

Output: The system will display the books which matches the selected search criteria. A dataset is created as a result of select query. Later the dataset is binded to the data repeater to display the selected data.

Download Book(Book Link)

Purpose: A user can download a book of his choice by selecting the link that is listed along with the name of the book.

Actor:User

Input: The user will browse for the book and see if there is a link present beside the book name. He would click on the link.

Output: Once the user clicks on the link the book will automatically get downloaded.

Voting System

Purpose: If the user wants to vote the website on how did he find it.

Actor: User

Input: The user will select a rating based on his opinion.
Output: The system will display the rating of the website

Sign Up

Purpose: If the user doesn't have an account then he will be asked to register.

Actor: User

Input: The user will enter details in the registration form according to the required fields.

The fields include 1. Username 2. Password 3. confirm password 4. first name 5. last name 6.

email 7. Address 8. Phone

Output: After registration the user will be directed to the main home page.

Sign In

Purpose: If the user wants to get access to all the functionalities of Online Book Store he should login using his username and password.

Actor: User

Input: The user will enter his username and password.

Output: If it is a successful login the user will be directed to the main home page. Else if the

user enters invalid information he will be asked to check the entered information.

Logout

Purpose: If the user wants to end his session and sign out of the website then he can use the logout option.

Actor: User

Input: The user will click the logout button.

Output: The user's account session comes to an end and he should login again if he wants

to enter into the website.

Place an order

Purpose: If the user wants to purchase a book then he can place an order by selecting the add to shopping cart button and entering the quantity required under the book description.

Actor: User

Input: The user will enter the quantity required and click the add to shopping cart button.

Output: The order will be added to the user's shopping cart.

Update Shopping Cart

Purpose: If the user wants to change the quantity of a book or change a book then he can update his shopping cart.

Actor: User

Input: The user will click the details button in the shopping cart summary to edit and update his order details..

Output: The updated order details are reflected in the shopping cart summary.

View Shopping Cart

Purpose: If the user wants to view the items he added to the shopping cart then he can click the shopping cart link at the top of the page.

Actor: User

Input: The user will click the shopping cart link at the top of every page.

Output: The user's shopping cart summary will be displayed in the form of a tabular format with all the books and their quantity. A total cost of all the items is also displayed at the bottom.

ADMIN SERVICES

Apart from user services, admin have few more services listed below

Login

Purpose: If the Administrator wants to get access to all the functionalities of Online Book Store he should login using his username and password.

Actor: Administrator

Input: The Administrator will enter his username and password.

Output: If it is a successful login the Administrator will be directed to his menu page. Else if the Administrator enters invalid information he will be asked to check the entered information.

Add or Delete Category

Purpose: If the Administrator wants to add or delete a book category then he can insert or delete a book category using his administration rights and the category table will be updated in the database.

Actor: Administrator

Input: If the Administrator wants to add a book category the he should click the insert link button in the category page else he can delete a particular selected book category. Output: The updated categories list will be displayed in the main home page.

Add or Delete Book

Purpose: If the Administrator wants to add or delete a book then he can insert or delete a book using his administration rights and the book table will be updated in the database.

Actor: Administrator

Input: If the Administrator wants to add a book the he should click the insert link button in the book page and fill the following fields related to the book.

- 1. Title
- 2. Author
- 3. Link
- 4. Category
- 5. Description

If he wants to delete a book he can click the delete button to remove it from the database. Output: The updated books list will be displayed in the main home page under their particular category.

Add or Delete Member

Purpose: If the Administrator wants to add or delete a book category then he can insert or delete a book category using his administration rights and the category table will be updated in the database.

Actor: Administrator

Input: If the Administrator wants to add a book category the he should click the insert link button in the category page else he can delete a particular selected book category.

Output: The updated categories list will be displayed in the main home page.

Logout

Purpose: If the Administrator wants to end his session and sign out of the website then he can use the logout option.

Actor: Administrator

Input: The Administrator will click the logout button.

Output: The Administrator's account session comes to an end and he should login again if he wants to enter into the website.

7. RESULT AND DISCUSSION

We have successfully designed a multi-user Website called "LITERARIUM". We have integrated front end HTML,CSS,Java Script to the back end PHP,MySQL. Books with their links have been added to the database. When the person clicks on the book he needs the description along with its availability is displayed. Search bar is made available for the user to easily search for his/her required book. Shopping page is made available for those books whose links are not available. So if the person wants that book he can add to cart and then purchase. For admin the adding book, deleting book, update book description are all enabled. The admin can also purchase and download books. For those who do not have an account can use the Sign up page and fill in their details to access this facility. Feedback that is whether the user liked the website or not is also provided so the user can enter their suggestions.

8. COMPLETE PROGRAM

Checkout Page

```
File Edit Format View Help
                 </div>
                  <div class="form-group">
                           <label for="city" class="control-label col-md-4">City</label>
                           <div class="col-md-4">
                                    <input type="text" name="city" class="col-md-4" class="form-control">
                  </div>
                  <div class="form-group">
                           <label for="zip_code" class="control-label col-md-4">Zip Code</label>
                           <div class="col-md-4">
                                    <input type="text" name="zip_code" class="col-md-4" class="form-control">
                  </div>
                  <div class="form-group">
                           <label for="country" class="control-label col-md-4">Country</label>
                           <div class="col-md-4">
                                    <input type="text" name="country" class="col-md-4" class="form-control">
                           </div>
                  </div>
                  <div class="form-group">
                           cinput type="submit" name="submit" value="Purchase" class="btn btn-primary">
         </form>
         <?php
         } else {
                  echo "Your cart is empty! Please make sure you add some books in it!";
         if(isset($conn)){ mysqli_close($conn); }
         require_once "./template/footer.php";
```

SignUp Page

```
PSignUp.php - Notepad
File Edit Format View Help
khtml>
<head>
<title> Sign Up page</title>
<style>
* {box-sizing: border-box}
/* Full-width input fields */
 input[type=text], input[type=password] {
 width: 100%;
 padding: 15px;
 margin: 5px 0 22px 0;
 display: inline-block;
 border: none;
 background: #f1f1f1;
}
input[type=text]:focus, input[type=password]:focus {
 background-color: #ddd;
 outline: none;
}
 border: 1px solid #f1f1f1;
 margin-bottom: 25px;
}
/* Set a style for all buttons */
button {
 background-color: #4CAF50;
 color: white;
 padding: 14px 20px;
```

Project Details

```
project.php - Notepad
File Edit Format View Help
 ProjectName
  Description
  Moto
  Members
Leader
Category
 <?php
$conn = mysqli_connect("localhost", "root", "", "book_store");
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
$sql = "SELECT * FROM projectdetails ORDER BY ProjectName";
$result = $conn->query($sql);
if ($result->num_rows > 0) {
// output data of each row
while($row = $result->fetch_assoc()) {
echo "" . $row["ProjectName"]. "" . $row["Description"] . "" . $row["Description"] . "
.$row["Moto"]. ""
.$row["Members"]. ""
.$row["Leader"]. ""
.$row["Category"]. "";
echo "";
} else { echo "O results"; }
$conn->close();
?>
<br>
```

Login Page

```
Plogin.php - Notepad
File Edit Format View Help
<div class="header">
<img src="Logoimg.png" align="left" height=200px width=200px>
 <h1>Literarium</h1>
<hr align="center" length=30px>
</div>
(br>
<form method="post" action="profL.php">
 <div class="imgcontainer">
  <img src="img_avatar2.png" alt="Avatar" class="avatar">
 </div>
 <div class="container">
  <label for="uname"><b>AdminID</b></label>
  <input type="text" placeholder="Enter your email ID....." name="uname" required>
  <label for="psw"><b>Password</b></label>
  <input type="password" placeholder="Enter Password" name="psw" required>
  <button type="submit">Login</button>
    <input type="checkbox" checked="checked" name="remember"> Remember me
  </label>
 </div>
 <div class="container" style="background-color:#f1f1f1">
  <button type="button" class="cancelbtn">Cancel/button>
  <span class="psw">Forgot <a href="#">password?</a></span>
 </div>
</form>
</body>
</html>
```

Book Store Welcome Page

```
index.php - Notepad
File Edit Format View Help
<?php
 session_start();
 $count = 0;
 // connecto database
 $title = "Index";
 require_once "./template/header.php";
 require_once "./functions/database_functions.php";
 $conn = db_connect();
 $row = select4LatestBook($conn);
?>
   <!-- Example row of columns -->
   Latest books
   <div class="row">
     <?php foreach($row as $book) { ?>
          <div class="col-md-3">
                   <a href="book.php?bookisbn=<?php echo $book['book_isbn']; ?>">
      <img class="img-responsive img-thumbnail" src="./bootstrap/img/<?php echo $book['book_image']; ?>">
      </a>
          </div>
     <?php } ?>
   </div>
 if(isset($conn)) {mysqli_close($conn);}
 require_once "./template/footer.php";
```

Literarium Home Page(HTML)

```
Home.php - Notepad
File Edit Format View Help
khtml>
<head>
<title>LogIn to our Bookstore</title>
<style>
* {box-sizing: border-box;}
body {font-family: Verdana, sans-serif;}
.mySlides {display: none;}
img {vertical-align: middle;}
/* Slideshow container */
.slideshow-container {
 max-width: 800px;
 position: relative;
 margin: auto;
}
/* Caption text */
.text {
 color: #f2f2f2;
 font-size: 15px;
 padding: 8px 12px;
 position: absolute;
 bottom: 8px;
 width: 100%;
 text-align: center;
/* Number text (1/3 etc) */
.numbertext {
 color: #f2f2f2;
```

Shopping Cart

```
File Edit Format View H
                 $_SESSION['total_items'] = total_items($_SESSION['cart']);
        <form action="cart.php" method="post">

                         Item
                                  Price
                                  Quantity
                                  Total
                         <?php
                         foreach($_SESSION['cart'] as $isbn => $qty){
                                           $conn = db_connect();
                                           $book = mysqli_fetch_assoc(getBookByIsbn($conn, $isbn));
                         ?>
                         <?php echo $book['book_title']." by ". $book['book_author']; ?>
                                  <?php echo "$" . $book['book_price']; ?>
                                  <input type="text" value="<?php echo $qty; ?>" size="2" name="<?php echo $isbn; ?>">
                                  <?php echo "$" . $qty * $book['book_price']; ?>
                         <?php } ?>
                    
                          
                         <?php echo $_SESSION['total_items']; ?>
                         <?php echo "$" . $_SESSION['total_price']; ?>
                   (/tr>
                 <input type="submit" class="btn btn-primary" name="save_change" value="5ave Changes">
        </form>
```

art.php - Notepad

Admin Editing Page

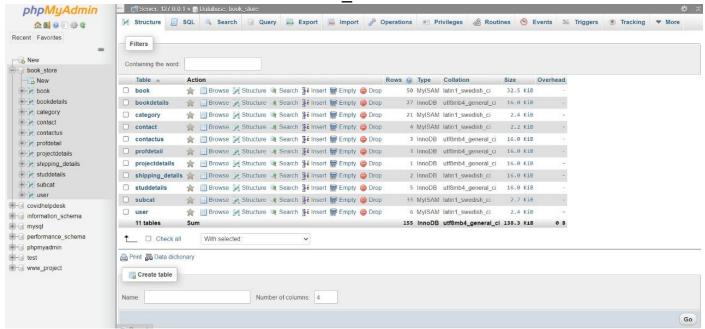
admin add.php - Notepad

```
File Edit Format View Help
<?php
          session_start();
          require_once "./functions/admin.php";
          $title = "Add new book";
          require "./template/header.php";
           require "./functions/database_functions.php";
          $conn = db_connect();
          if(isset($_POST['add'])){
    $isbn = trim($_POST['isbn']);
                     $isbn = mysqli_real_escape_string($conn, $isbn);
                     $title = trim($_POST['title']);
                     $title = mysqli_real_escape_string($conn, $title);
                     $author = trim($_POST['author']);
                     $author = mysqli_real_escape_string($conn, $author);
                     $descr = trim($_POST['descr']);
                     $descr = mysqli_real_escape_string($conn, $descr);
                     $price = floatval(trim($_POST['price']));
                     $price = mysqli_real_escape_string($conn, $price);
                     $publisher = trim($_POST['publisher']);
                     $publisher = mysqli_real_escape_string($conn, $publisher);
                     // add image if(isset($_FILES['image']) && $_FILES['image']['name']!= ""){
                                $image = $_FILES['image']['name'];
$directory_self = str_replace(basename($_SERVER['PHP_SELF']), '', $_SERVER['PHP_SELF']);
                                $uploadDirectory = $_SERVER['DOCUMENT_ROOT']. $directory_self. "bootstrap/img/";
                                move_uploaded_file($_FILES['image']['tmp_name'], $uploadDirectory);
                     }
                     // find publisher and return pubid
                     // if publisher is not in db, create new
                     $findPub = "SELECT * FROM publisher WHERE publisher_name = '$publisher'";
                     $findResult = mysqli query($conn, $findPub);
```

Book Details

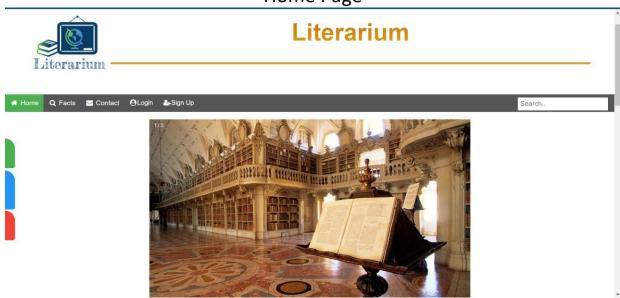
```
books.php - Notepad
File Edit Format View Help
k?php
 session_start();
 $count = 0;
 // connecto database
 require_once "./functions/database_functions.php";
 $conn = db_connect();
 $query = "SELECT book_isbn, book_image FROM books";
 $result = mysqli_query($conn, $query);
 if(!$result){
  echo "Can't retrieve data " . mysqli_error($conn);
  exit;
 $title = "Full Catalogs of Books";
 require_once "./template/header.php";
 Full Catalogs of Books
  <?php for($i = 0; $i < mysqli_num_rows($result); $i++){ ?>
    <div class="row">
     <?php while($query_row = mysqli_fetch_assoc($result)){ ?>
      <div class="col-md-3">
       <a href="book.php?bookisbn=<?php echo $query_row['book_isbn']; ?>">
        <img class="img-responsive img-thumbnail" src="./bootstrap/img/<?php echo $query_row['book_image']; ?>">
       </a>
      </div>
     <?php
      $count++;
      if($count >= 4){
         $count = 0;
        break;
```

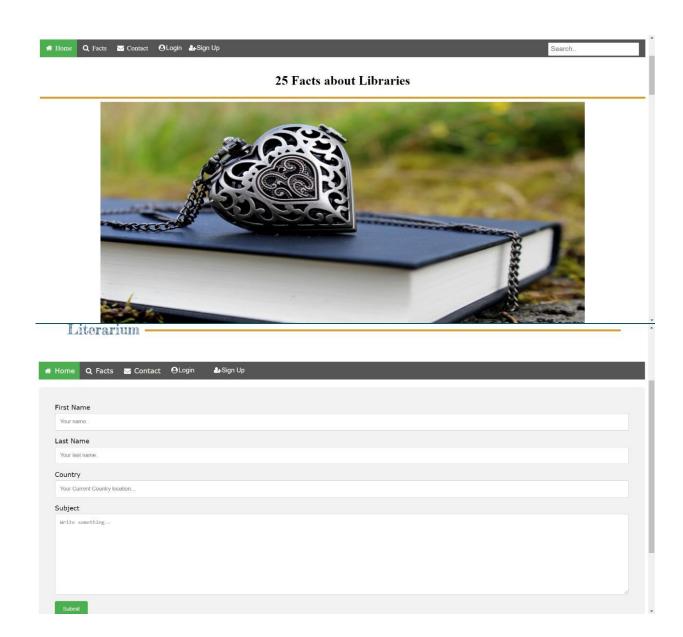
Database Book Store



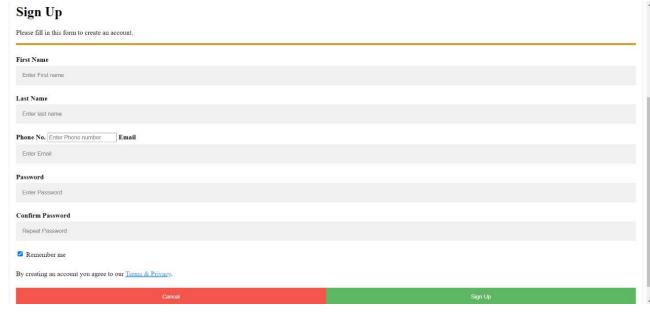
9. SCREENSHOTS OF OUTPUT







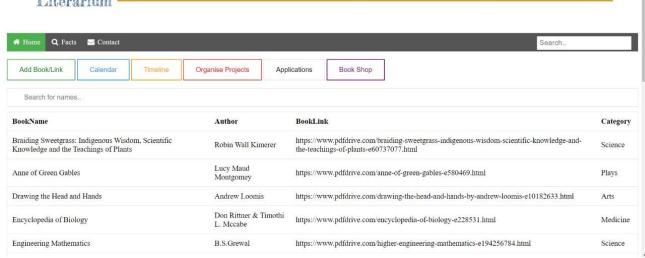
Sign Up



Admin Page



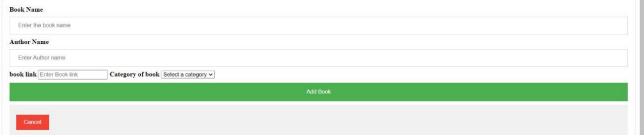
Literarium



Adding new PDF by admin



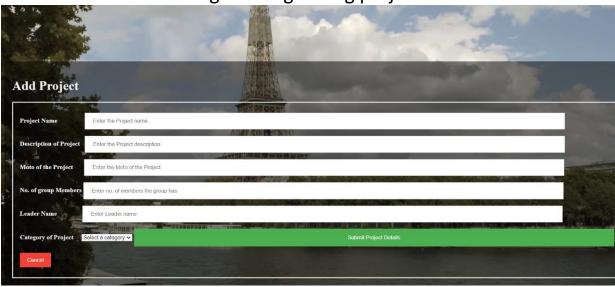




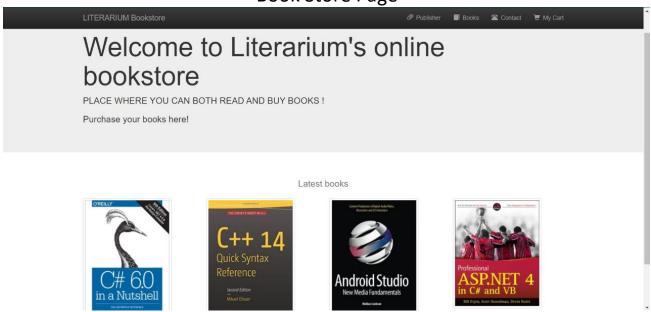
Calender Page



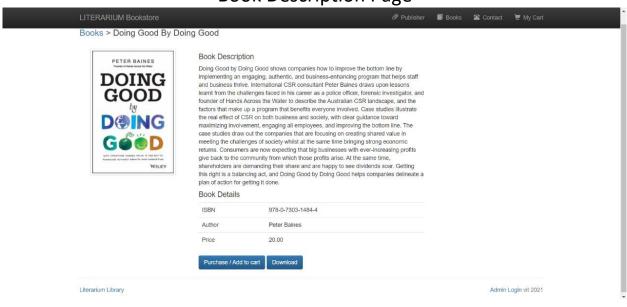
Page for organizing projects



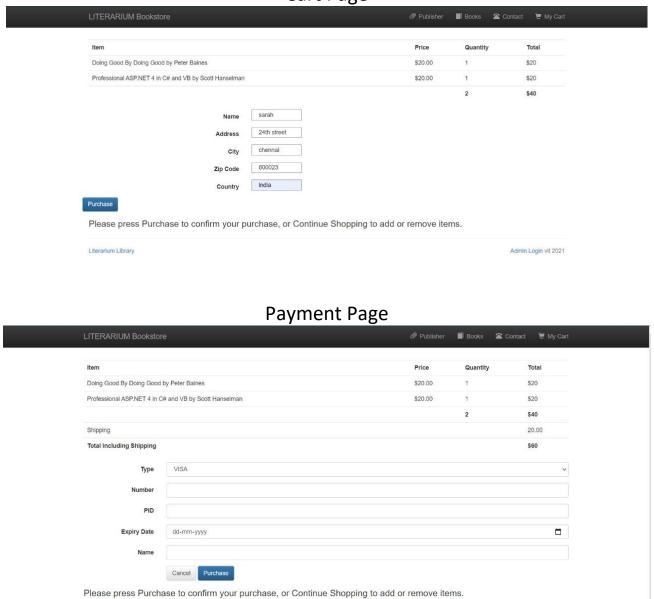
Book Store Page



Book Description Page



Cart Page



Confirmation Page

Admin Login vit 2021

	LITERARIUM Bookstore	Publisher	■ Books	Contact	My Cart
	Your order has been processed sucessfully. Please check your email to get your order confirmation and shipping detail!. Your cart has been empty.				detail!.
	Literarium Library			Admin I	Login vit 2021

10. CONCLUSION

Literarium Library

The Internet has become a major resource in modern business, thus electronic shopping has gained significance not only from the entrepreneur's but also from the customer's point of view. For the entrepreneur, electronic shopping generates new business opportunities and for the customer, it makes comparative shopping possible. As per a survey, most

consumers of online stores are impulsive and usually make a decision to stay on a site within the first few seconds. E shopping along with E library is what Literarium Stands for. "Website design is like a shop Interior. If the shop looks poor or like hundreds of other shops the customer is most likely to skip to the other site". Hence we have designed the project to provide the user with easy navigation, retrieval of data and necessary feedback as much as possible.

It is convenient for the customer to view the contents of books. The Literarium Application described in this project provides a number of features that are designed to make the customer more comfortable.

The downloadable link allows the user to experience a Digital Library where he can read his book offline by downloading from the link provided. Admin can easily add in or delete books to ensure the availability. Users need not search across various other platform to find books instead can order book on this platform itself. Notes of lectures are also been uploaded.

A good shopping cart design must be accompanied with user-friendly shopping cart application logic. It should be convenient for the customer to view the contents of their cart and to be able to remove or add items to their cart. The shopping cart application described in this project provides a number of features that are designed to make the customer more comfortable. This project helps in understanding the creation of an interactive web page and the technologies used to implement it.

11. FUTURE WORK

Integrating Literarium with other online book store for getting more stock. This application can be easily implemented under various situations. We can add new features as and when we require. Reusability is possible as and when require in this application. There is flexibility in all the modules.

SOFTWARE SCOPE:

Extensibility: This software is extendable in ways that its original developers may not expect. The following principles enhances extensibility like hide data structure, avoid traversing multiple links or methods, avoid case statements on object type and distinguish public and private operations.

Reusability: Reusability is possible as and when require in this application. We can update it next version. Reusable software reduces design, coding and testing cost by amortizing effort over several designs. Reducing the amount of code also simplifies understanding, which increases the likelihood that the code is correct. We follow up both types of reusability: Sharing of newly written code within a project and reuse of previously written code on new projects.

Understandability: A method is understandable if someone other than the creator of the method can understand the code (as well as the creator after a time lapse). We use the method, which small and coherent helps to accomplish this.

Cost-effectiveness: Its cost is under the budget and make within given time period. It is desirable to aim for a system with a minimum cost subject to the condition that it must satisfy the entire requirement. Scope of this document is to put down the requirements, clearly identifying the information needed by the user, the source of the information and outputs expected from the system.

12. REFERENCES

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