

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

Jnana Sangama, Belgaum-590018



A Database Management System Mini Project Report on

“ONLINE BOOKSTORE ”

Submitted in Partial fulfillment of the Requirements for the V Semester of the Degree of

Bachelor of Engineering
in
Computer Science & Engineering
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Under the Guidance of

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CERTIFICATE

This is to certify that the Database Management System Project work entitled "**Online Bookstore**" has been carried out by **Usmi Mukherjee (1CR16CS183)** and **Vedhitha S (1CR16CS176)** bonafide students of CMR Institute of Technology in partial fulfillment for the award of **Bachelor of Engineering in Computer Science and Engineering** of the Visvesvaraya Technological University, Belgaum during the year **2018-2019**. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. This DBMS Project Report has been approved as it satisfies the academic requirements in respect of project work prescribed for the said degree.

Signature of Guide

Mrs. Dhanthuluri Sudha
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Dept. of CSE, CMRIT

Signature of HOD

Dr. Jhansi Rani P
Professor, Head
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External Viva

Name of the examiners

1.

2.

Signature with date

ABSTRACT

The purpose of Online Book Store is to automate the existing manual system by the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. The required software and hardware are easily available and easy to work with.

Online Book Store as described above, can lead to error free, secure ,reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources. The organization can maintain computerized records with redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information. Basically the project describes how to manage for good performance and better services of the clients.

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Chapter 1

INTRODUCTION

Online Book Store has been developed to override the problems prevailing in the practicing manual systems. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner .

The application is reduced as much as possible to avoid errors while entering invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly. Online Book Store, as described above, can lead to error free, secure, reliable and fast management system. It can assist the user to concentrate on their other activities rather to concentrate on the record keeping. Thus it will help organization in better utilization of resources.

Every organization , whether big or small, has challenges to overcome and managing the information of Stock, Book, Bill, Payment. Every Online Book Store has different Book needs, therefore we design exclusive employee management systems that are adapted to your managerial requirements. This is designed to assist in strategic planning, and will help you ensure that your organization is equipped with the right level of information and details for your future goals. Also, for those busy executive who always on the go, our system come with remote access features, which will allow you to manage your workforce anytime, at all times.

This systems will ultimately allow you to better manage resources.

Chapter 2

SYSTEM REQUIREMENT

To be used efficiently, all computer software needs certain hardware components or other software resources to be present on a computer. These prerequisites are known as (computer) system requirements and are often used as a guideline as opposed to an absolute rule.

2.1 SOFTWARE REQUIREMENT

Software requirements deal with defining software resource requirements and prerequisites that need to be installed on a computer to provide optimal functioning of an application. These requirements or prerequisites are generally not included in the software installation package and need to be installed separately before the software is installed. The different software requirements are:

Operating System: Windows XP/7/10 , MacOS

Database: MySQL

Front end: HTML,CSS, JavaScript, Bootstrap

Server side script: PHP

2.2 HARDWARE REQUIREMENT

The most common set of requirements defined by any operating system or software application is the physical computer resources, also known as hardware, A hardware requirements list is often accompanied by a hardware compatibility list (HCL), especially in case of operating systems. The hardware requirements are :

Processor: Intel core i3,i5,i7 and Amd A9-9420

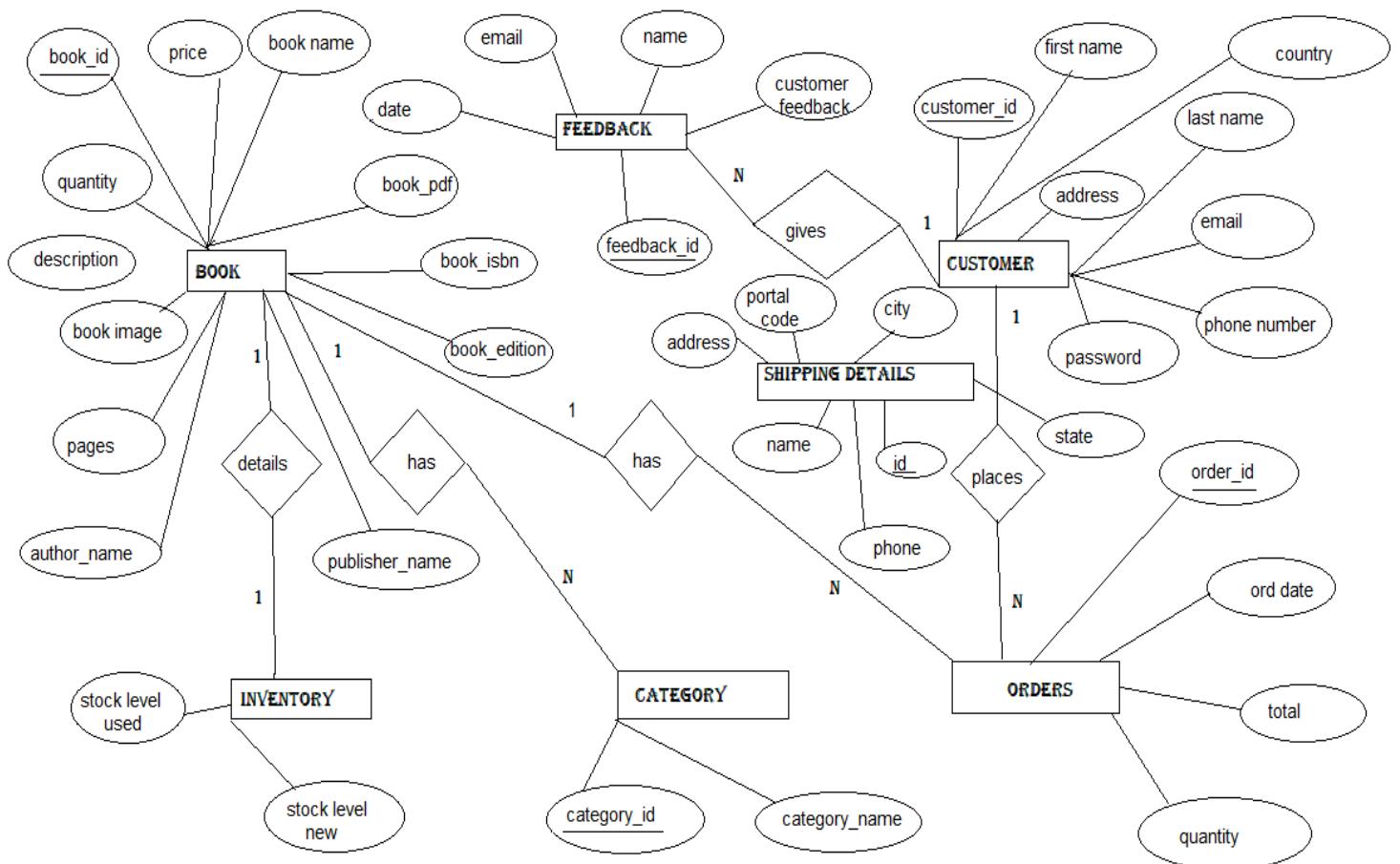
RAM: 1GB(32 bit),2GB (16 bit)

Hard disk: 20GB(64 bit),16GB(32bit)

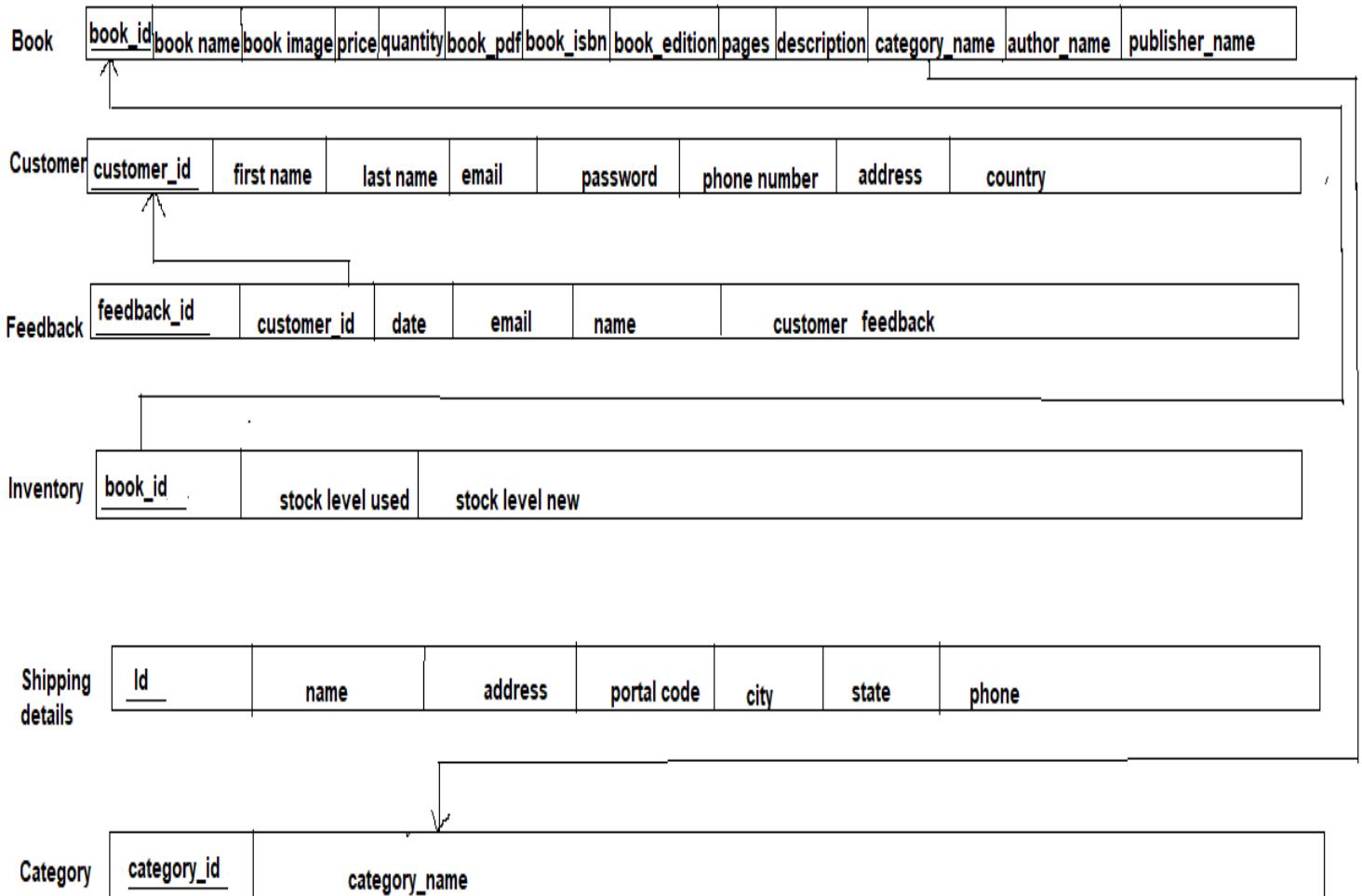
Chapter 3

DESIGN

3.1 ER-DIAGRAM



3.2 SCHEMA DIAGRAM



3.3 TABLES

3.3.1 Book Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 BookID 	int(20)		No	None			AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 BookName	varchar(60)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	3 BookImage	varchar(600)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	4 Price	int(10)		No	None				 Change  Drop  More
<input type="checkbox"/>	5 Quantity	int(10)		No	None				 Change  Drop  More
<input type="checkbox"/>	6 Book_pdf	varchar(600)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	7 Book_ISBN 	bigint(20)		No	None				 Change  Drop  More
<input type="checkbox"/>	8 Book_Edition	varchar(40)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	9 Pages	int(11)		No	None				 Change  Drop  More
<input type="checkbox"/>	10 Description	text	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	11 Category_name	varchar(60)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	12 AuthorName 	varchar(60)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	13 PublisherName	varchar(60)	latin1_swedish_ci	No	None				 Change  Drop  More

3.3.2 Category Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 Category_ID 	int(15)		No	None			AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 Category_Name	varchar(60)	latin1_swedish_ci	No	None				 Change  Drop  More

3.3.3 Shipping Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1 Id 	int(11)		No	None			AUTO_INCREMENT	 Change  Drop  More
<input type="checkbox"/>	2 name	varchar(50)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	3 address	text	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	4 postal_code	bigint(20)		No	None				 Change  Drop  More
<input type="checkbox"/>	5 city	varchar(50)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	6 state	varchar(50)	latin1_swedish_ci	No	None				 Change  Drop  More
<input type="checkbox"/>	7 phone	bigint(20)		No	None				 Change  Drop  More

3.3.4 Customer Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	CustomerID	int(20)			No	None		AUTO_INCREMENT	Change Drop ▾ More
2	FirstName	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More
3	LastName	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More
4	Email	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More
5	Password	varchar(20)	latin1_swedish_ci		No	None			Change Drop ▾ More
6	PhoneNumber	bigint(20)			No	None			Change Drop ▾ More
7	Address	text	latin1_swedish_ci		No	None			Change Drop ▾ More
8	Country	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More

3.3.5 Feedback Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	FeedbackID	int(10)			No	None		AUTO_INCREMENT	Change Drop ▾ More
2	CustomerID	int(20)			No	None			Change Drop ▾ More
3	Date	date			No	None			Change Drop ▾ More
4	Email	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More
5	Name	varchar(30)	latin1_swedish_ci		No	None			Change Drop ▾ More
6	CustomerFeedback	text	latin1_swedish_ci		No	None			Change Drop ▾ More

3.3.6 Inventory Table

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	BookID	int(20)			No	None			Change Drop ▾ More
2	StockLevelUsed	int(10)			No	None			Change Drop ▾ More
3	StockLevelNew	int(10)			No	None			Change Drop ▾ More

Chapter 4

IMPLEMENTATION

4.1 FRONT END CODE

4.1.1 Login code

```

if( isset($_POST['Email']) and isset($_POST['Password']) )
{
  $Email=$_POST['Email'];
  $Password=$_POST['Password'];
  $ret=mysqli_query( $conn, "select * from Customer where Email='$Email' and password='$Password'" ) or
  die("Could not execute query: ".mysqli_error($conn));
  $row = mysqli_fetch_assoc($ret);
  if(!$row) {
    header("Location:../cover/cover.html");
  }
  else if($Email == "admin@gmail.com" and $Password == "admin"){
    header("Location:../Admin/Home.html")
  }
  else {
    $_SESSION=array();
    $_SESSION['unm']=$row['FirstName'];
    $_SESSION['uid']=$row['Password'];
    $_SESSION['status']=true;
    header('location:../Home/Home.php');
  }
}
  
```

4.1.2 Register code

```
<?php
$Email=$_POST['Email'];
>Password=$_POST['Password'];
$FirstName=$_POST['FirstName'];
$LastName=$_POST['LastName'];
$Address=$_POST['Address'];
$PhoneNumber=$_POST['PhoneNumber'];
$Country=$_POST['Country'];
$sql="INSERT Into Customer(Email,Password,FirstName,LastName,Address,PhoneNumber,Country)
values('$Email','$Password','$FirstName','$LastName','$Address',$PhoneNumber,'$Country')";
if ($conn->query($sql) === TRUE) {
    header("Location:../SignIn/Signin.html");
} else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}

$conn->close();
?>
```

4.1.3 Code To Add Book

```

if(!empty($_POST))
{
  $msg=array();

  if(empty($_POST['name'])||empty($_POST['description'])||empty($_POST['publisher'])||empty($_POST['e
dition']) ||empty($_POST['isbn']) || empty($_POST['pages']) || empty($_POST['price']))
  {
    $msg[]="Please full fill all requirement";
  }
  if(!(is_numeric($_POST['price'])))
  {
    $msg[]="Price must be in Numeric Format...";
  }
  if(!(is_numeric($_POST['pages'])))
  {
    $msg[]="Page must be in Numeric Format...";
  }

  if(empty($_FILES['img']['name']))
  $msg[] = "Please provide a file";

  if($_FILES['img']['error']>0)
  $msg[] = "Error uploading file";

  if(!(((substr($_FILES['img']['name'],-4)==".jpg")||(substr($_FILES['img']['name'],-
5))==".jpeg")||(substr($_FILES['img']['name'],-4)==".gif")||(substr($_FILES['img']['name'],-4)==".png")))
  {
    $msg[] = "wrong file type";
  }
}

```

```

if(file_exists("../upload_image/".$_FILES['img']['name'])){
    $msg[] = "File already uploaded. Please do not updated with same name";
}

if(empty($_FILES['ebook']['name'])) {
    $msg[] = "Please provide a document file";
}

if($_FILES['ebook']['error']>0) {
    $msg[] = "Error uploading document file"
}

if(!((substr($_FILES['ebook']['name'],-4)==".pdf")||(substr($_FILES['ebook']['name'],-4)==".ppt"
||(substr($_FILES['ebook']['name'],-5)==".pptx")||(substr($_FILES['ebook']['name'],-
4)==".doc")||(substr($_FILES['ebook']['name'],-4)==".txt")||(substr($_FILES['ebook']['name'],-5)==".docx")))
{
    $msg[] = "wrong document file type";
}
}

if(file_exists("../upload_ebook/".$_FILES['ebook']['name'])) {
    $msg[] = "Document File already uploaded. Please do not updated with same name";
}

if(!empty($msg))
{
    echo '<b>Error:-</b><br>';
    foreach($msg as $k)
    {
        echo '<li>'.$k;
    }
}

```

```

else
{
move_uploaded_file($_FILES['img']['tmp_name'], "../upload_image/".$_FILES['img']['name']);

$BookImage ="upload_image/".$_FILES['img']['name'];
move_uploaded_file($_FILES['ebook']['tmp_name'], "../upload_ebook/".$_FILES['ebook']['name']);
$Book_pdf ="upload_ebook/".$_FILES['ebook']['name'];
$BookName=$_POST['name'];
$Category_name=$_POST['cat'];
$Description=mysqli_escape_string($conn,$_POST['description']);
$Book_Edition=$_POST['edition'];
$PublisherName=$_POST['publisher'];
$Book_ISBN=$_POST['isbn'];
$Pages=$_POST['pages'];
$Price=$_POST['price'];
$AuthorName=$_POST['author'];
$Quantity=$_POST['Quantity']

$sql="INSERT INTO Books(BookImage,Book_pdf,BookName,Category_name,Description,Book_Edition,
PublisherName,Book_ISBN,Pages,Price,AuthorName,Quantity) values ('$BookImage','$Book_pdf',
'$BookName','$Category_name','$Description','$Book_Edition','$PublisherName',$Book_ISBN,$Pages,
$Price,$AuthorName,$Quantity)";

if ($conn->query($sql) === TRUE) {
    header("location:addbook.php");
}
else {
    echo "Error: " . $sql . "<br>" . $conn->error;
}
}

```

4.1.3 Code To Process Cart

```

<?php session_start();
extract($_POST);
extract($_SESSION);
if(isset($_GET['BookName']) and isset($_GET['Category_name']) and isset($_GET['Price']))
{
  //add item

$_SESSION['cart'][]=array("BookName"=>$_GET['BookName'],"Category_name"=>$_GET['Category_name'],"Price"=>$_GET['Price'],"qty"=>"1");
  header("location: viewcart.php");
}

else if(isset($_GET['id']))
{
  //del a item
  $id = $_GET['id'];
  unset($_SESSION['cart'][$id]);
  header("location: viewcart.php");
}

else if(!empty($_POST))
{
  //update qty
  foreach($_POST as $id=>$val)
  {
    $_SESSION['cart'][$id]['qty']=$val;
    header("location: viewcart.php");
  }
}

?>

```

4.2 BACKEND CODE

4.2.1 Stored procedure

```
CREATE DEFINER =`root`@`localhost` PROCEDURE `searchBooks`(IN `Book` VARCHAR(60))NOT
DETERMINISTIC CONTAINS SQL SQL SECURITY DEFINER SELECT * FROM Books where
BookName=Book;
```

4.2.2 Trigger

```
CREATE DEFINER='root'@'localhost' TRIGGER `updating_inventory` AFTER INSERT ON `Books` FOR
EACH ROW INSERT INTO Inventory(BookID,StockLevelNew)
VALUES(New.BookID,StockLevelNew+NEW.Quantity);
```

4.3 DATABASE CONNECTION CODE

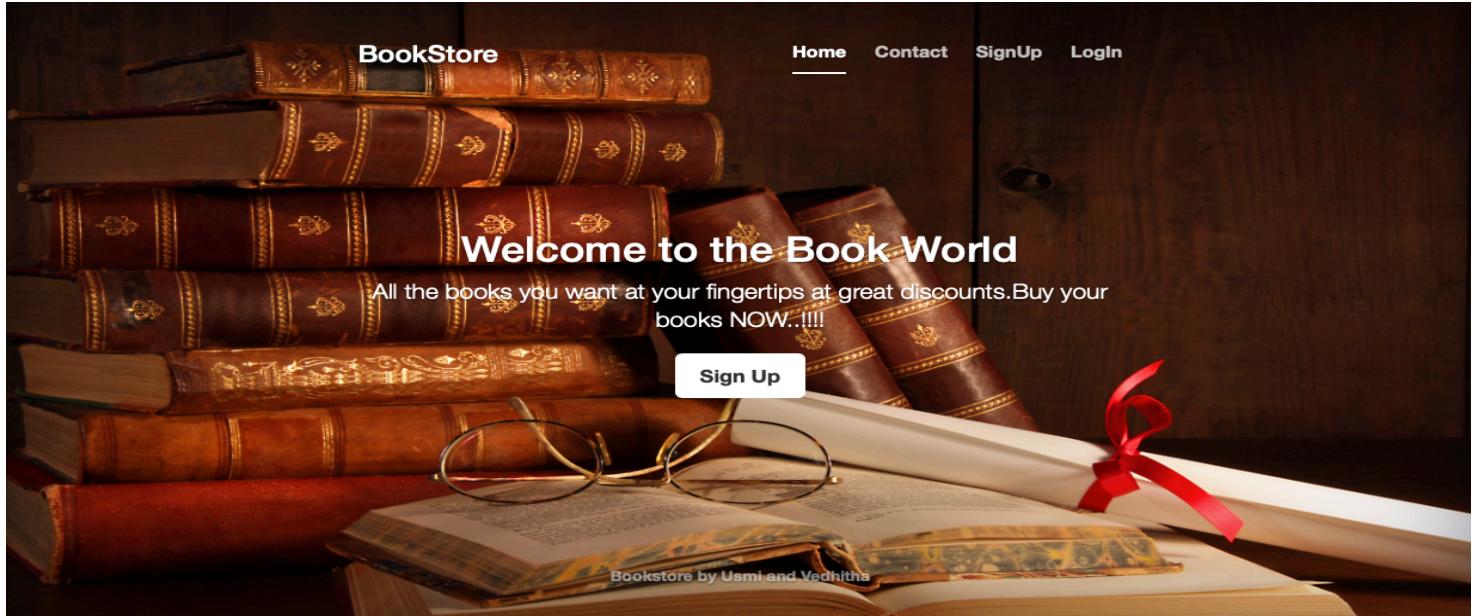
```
<?php session_start();
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "Bookstore";
$conn = new mysqli($servername, $username, $password, $dbname);

if ($conn->connect_error) {
  die("Connection failed: " . $conn->connect_error);
}
```

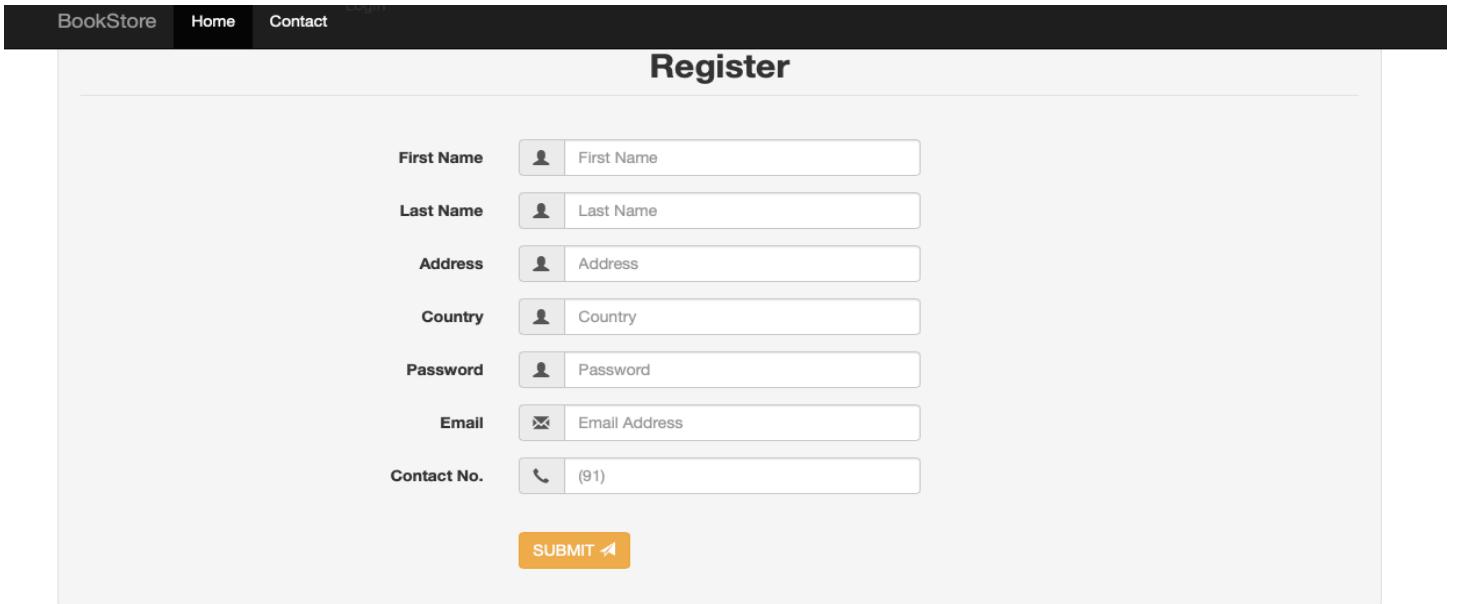

Chapter 5

SCREENSHOTS

5.1 Cover Page



5.2 Registration Page



BookStore Home Contact

Register

First Name First Name

Last Name Last Name

Address Address

Country Country

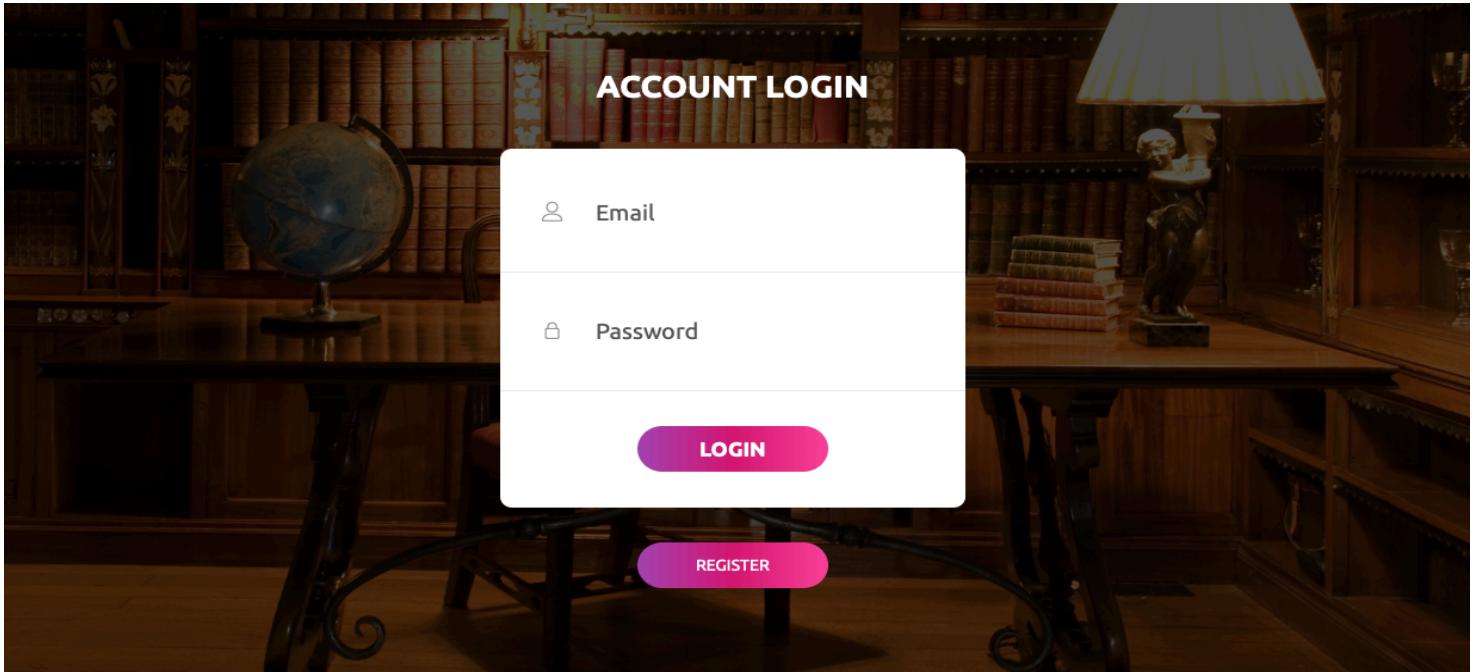
Password Password

Email Email Address

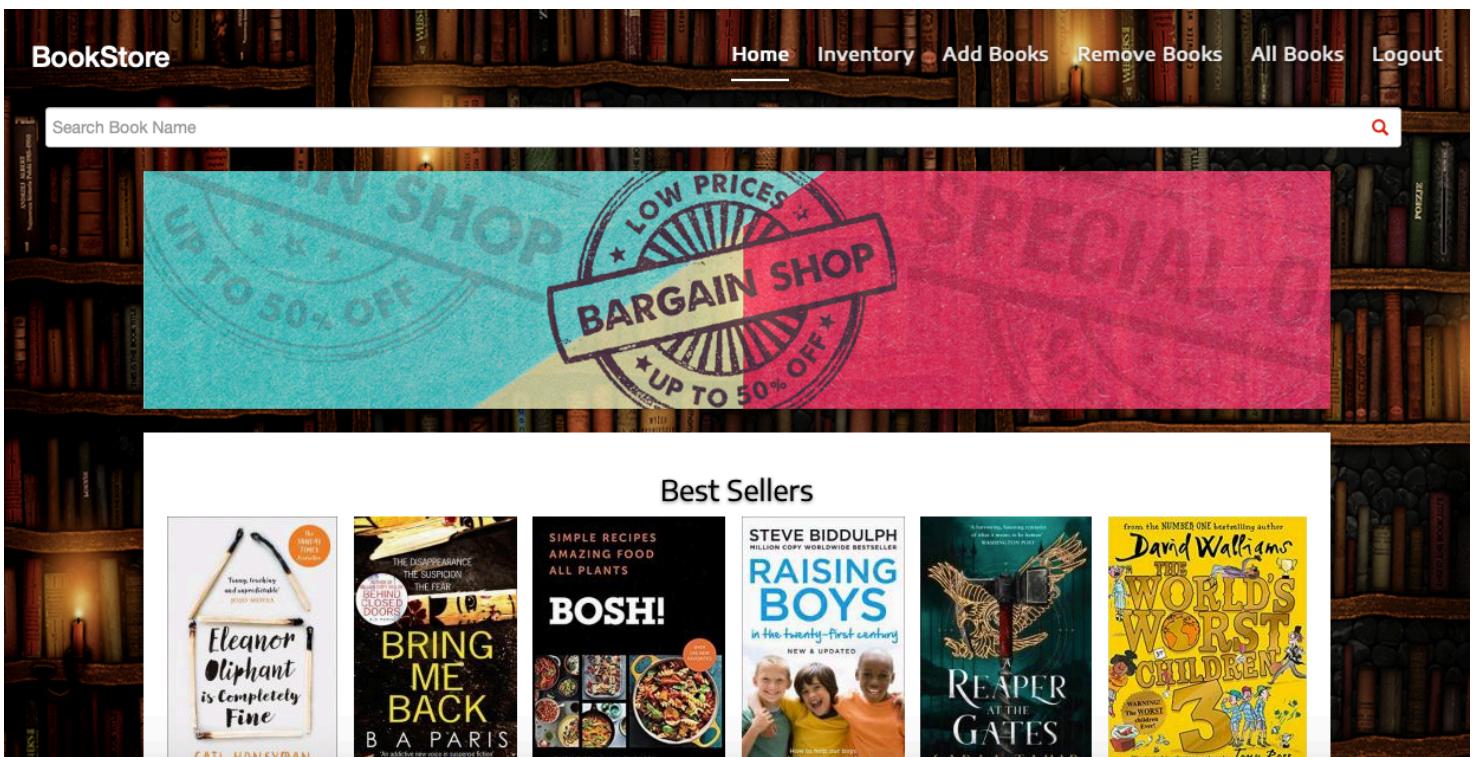
Contact No. (91)

SUBMIT 

5.3 User Login

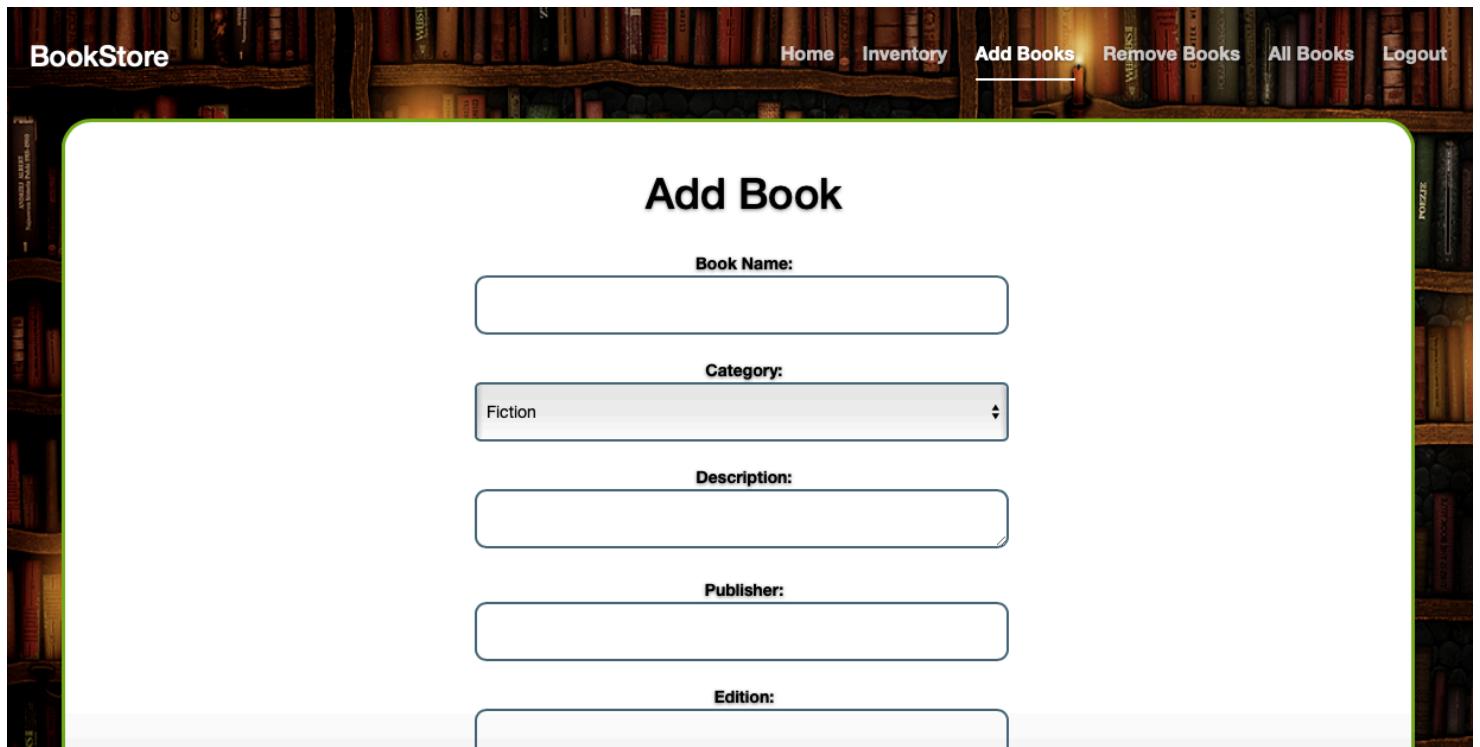


5.4 Home Page



The image displays the homepage of the BookStore application. At the top, there is a navigation bar with links for "Home", "Inventory", "Add Books", "Remove Books", "All Books", and "Logout". Below the navigation bar is a search bar labeled "Search Book Name" with a magnifying glass icon. The main content area features a large banner with the text "BARGAIN SHOP" and "UP TO 50% OFF". Below the banner, there is a section titled "Best Sellers" featuring six book covers: "Eleanor Oliphant is Completely Fine" by Gail Honeyman, "THE DISAPPEARANCE BEHIND CLOSED DOORS" by Liane Moriarty, "BRING ME BACK" by B.A. Paris, "SIMPLE RECIPES AMAZING FOOD ALL PLANTS" by Steve Biddulph, "RAISING BOYS" by Steve Biddulph, and "A REAPER AT THE GATES" by David Almond. The background of the page is a photograph of a library.

5.5 Add Book



BookStore Home Inventory Add Books Remove Books All Books Logout

Add Book

Book Name:

Category:

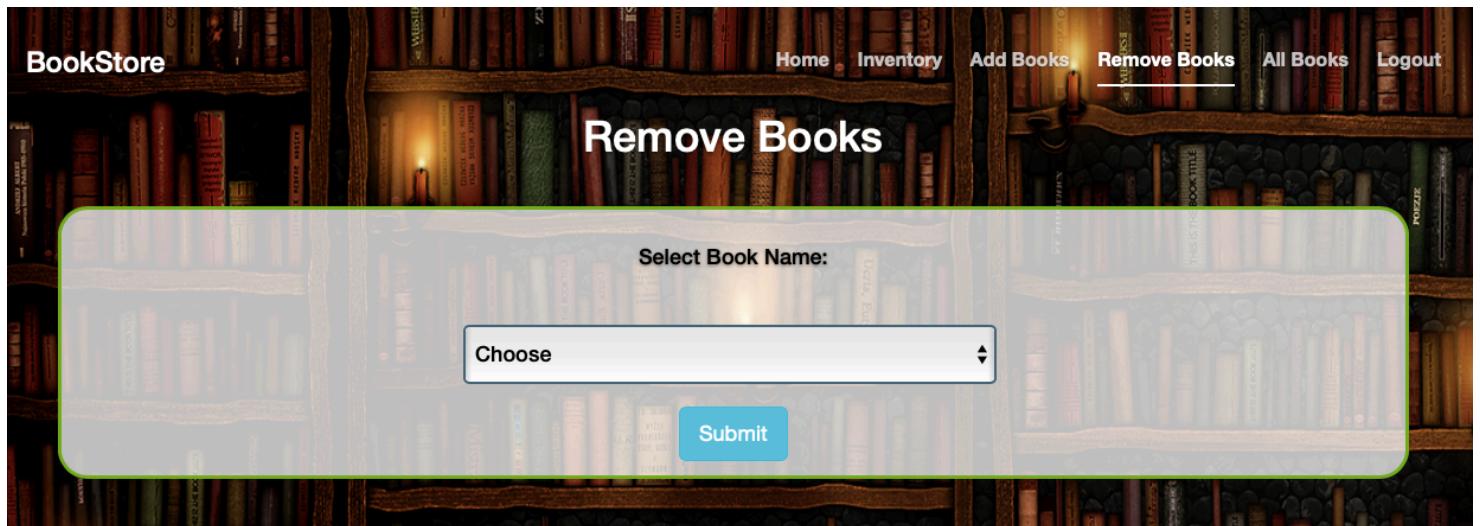
Fiction

Description:

Publisher:

Edition:

5.6 Remove Book



BookStore Home Inventory Add Books Remove Books All Books Logout

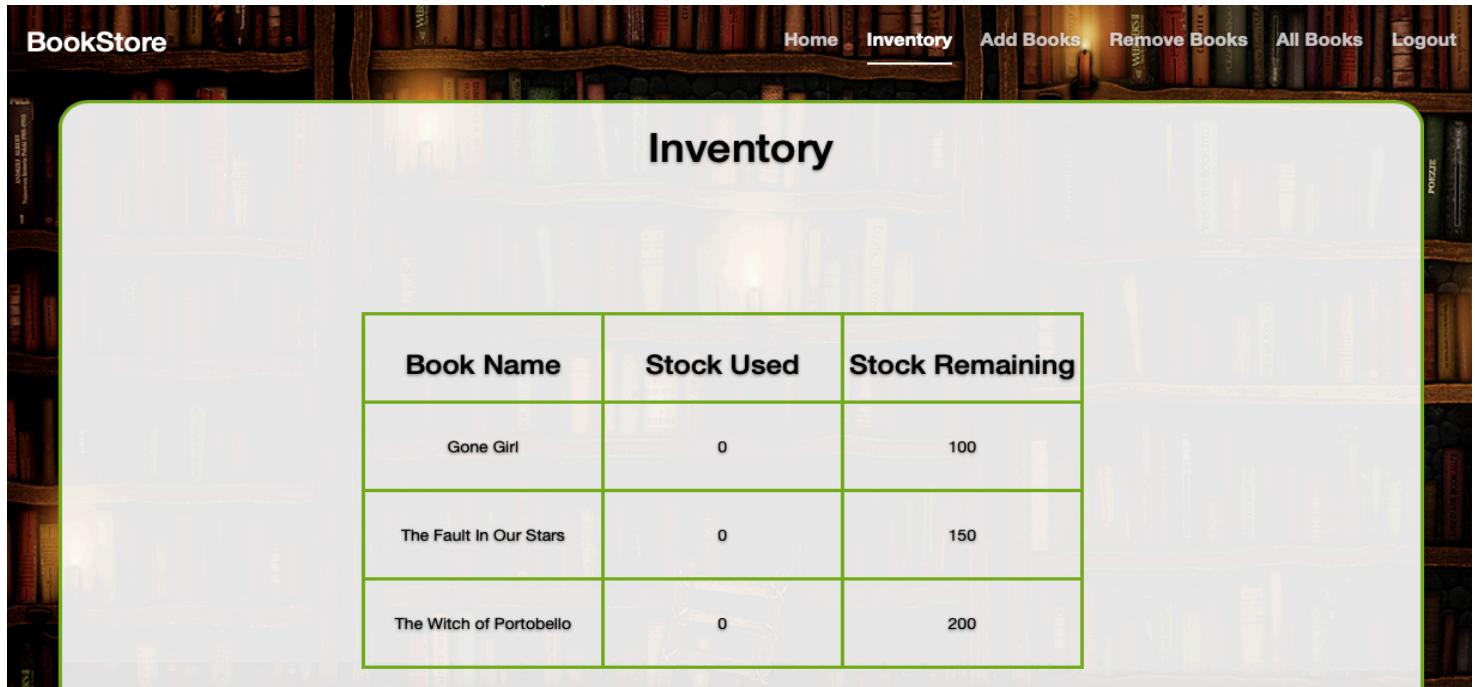
Remove Books

Select Book Name:

Choose

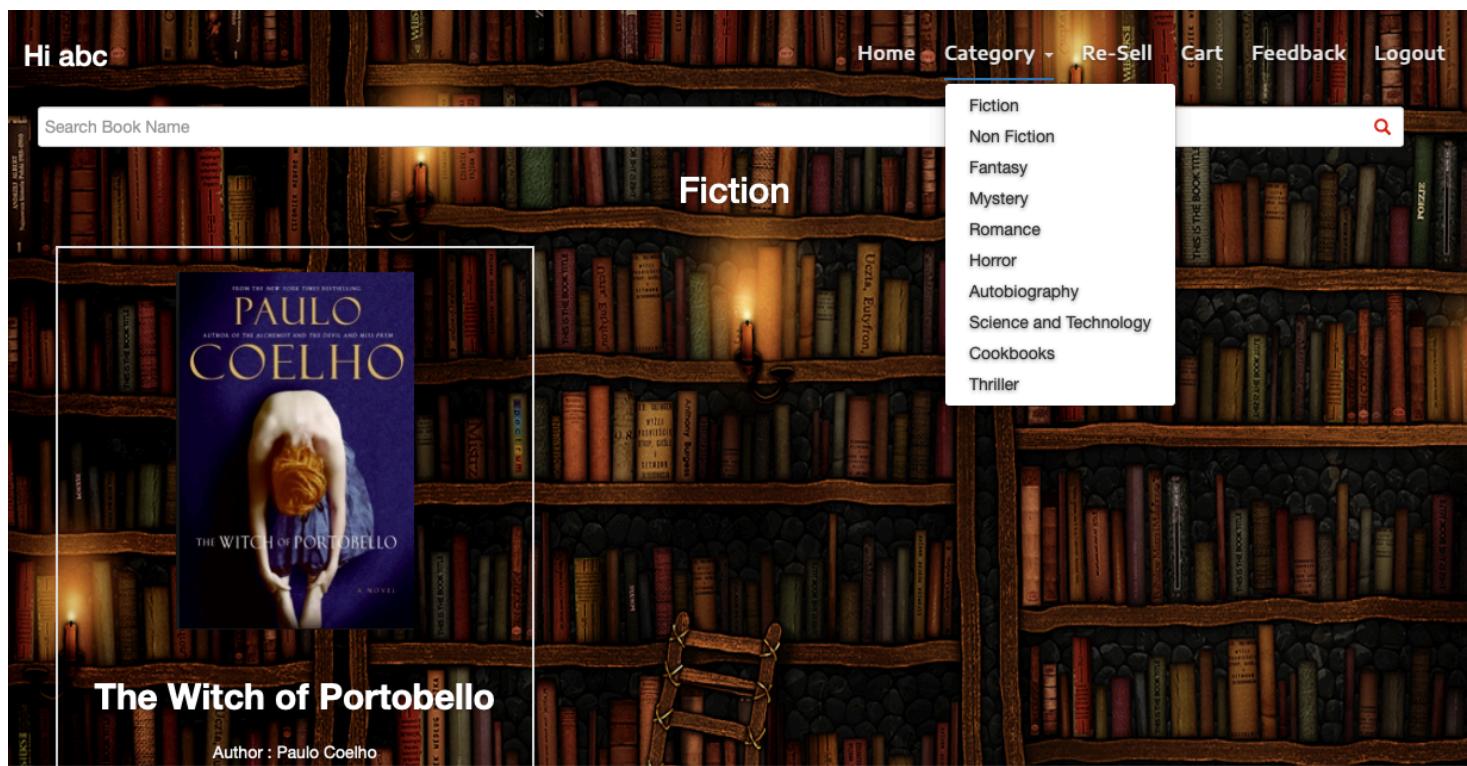
Submit

5.7 Inventory



Book Name	Stock Used	Stock Remaining
Gone Girl	0	100
The Fault In Our Stars	0	150
The Witch of Portobello	0	200

5.8 Category Result



Hi abc

Home Category - Re-Sell Cart Feedback Logout

Search Book Name

Fiction

- Fiction
- Non Fiction
- Fantasy
- Mystery
- Romance
- Horror
- Autobiography
- Science and Technology
- Cookbooks
- Thriller

The Witch of Portobello

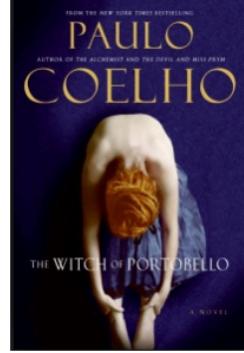
Author : Paulo Coelho

5.9 Book Detail

Hi abc

Search Book Name 🔍

Home Category Re-Sell Cart Feedback Logout



The Witch of Portobello

AUTHOR :Paulo Coelho

CATEGORY : Fiction

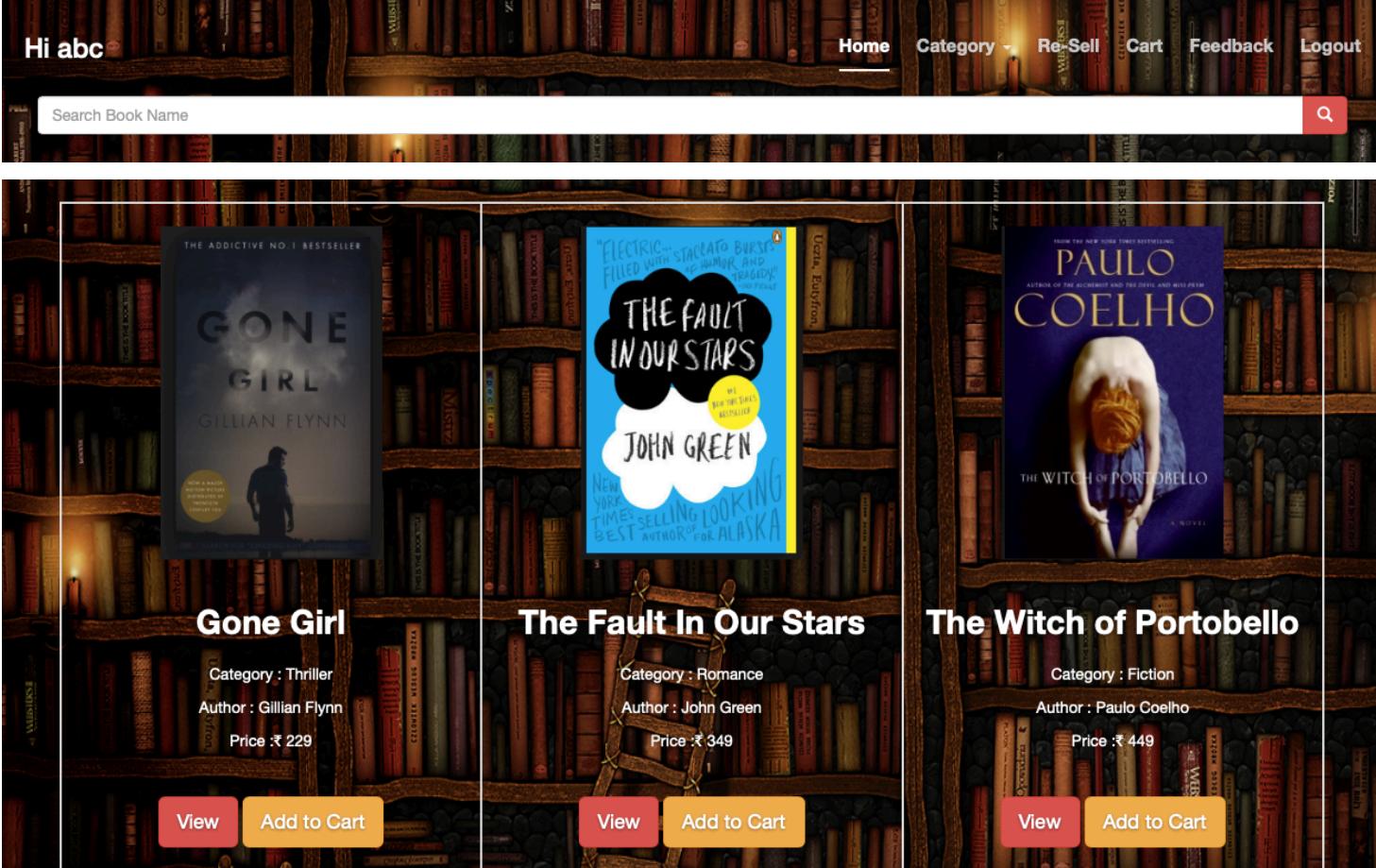
PUBLISHER : Harper One

DESCRIPTION : From one of the world's best loved storytellers, Paulo Coelho, comes a riveting novel tracing the mysterious life and disappearance of Athena dubbed 'the Witch of Portobello'. This is the story of Athena, or Sherine, to give her the name she was baptised with. Her life is pieced together through a series of recorded interviews with those people who knew her well or hardly at all – parents, colleagues, teachers, friends, acquaintances, her ex-husband. The novel unravels Athena's mysterious beginnings, via an orphanage in Romania, to a childhood in Beirut. When war breaks out, her adoptive family move with her to London, where a dramatic turn of events occurs... Athena, who has been dubbed 'the Witch of Portobello' for her seeming powers of prophecy, disappears dramatically, leaving those who knew her to solve the mystery of her life and abrupt departure. Like The Alchemist, The Witch of Portobello is the kind of story that will transform the way readers think about love, passion, joy and sacrifice.

Price :₹ 449

[Add to Cart](#) [Preview](#)

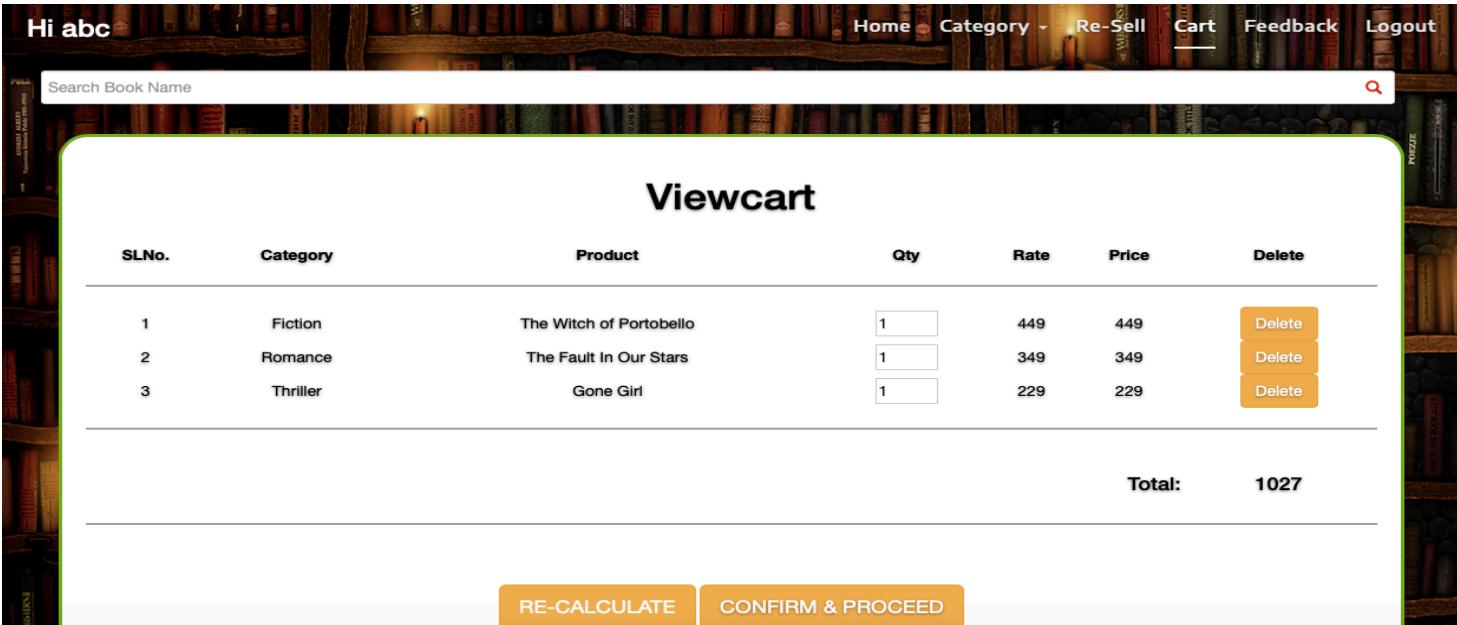
5.10 All Books



The screenshot shows the homepage of an online book store. At the top, there is a navigation bar with links for Home, Category, Re-Sell, Cart, Feedback, and Logout. A search bar is also present. Below the navigation bar, there are three book cards displayed against a background of bookshelves.

- Gone Girl** by Gillian Flynn: Category: Thriller, Author: Gillian Flynn, Price: ₹ 229. Buttons: View, Add to Cart.
- The Fault In Our Stars** by John Green: Category: Romance, Author: John Green, Price: ₹ 349. Buttons: View, Add to Cart.
- The Witch of Portobello** by Paulo Coelho: Category: Fiction, Author: Paulo Coelho, Price: ₹ 449. Buttons: View, Add to Cart.

5.11 View Cart

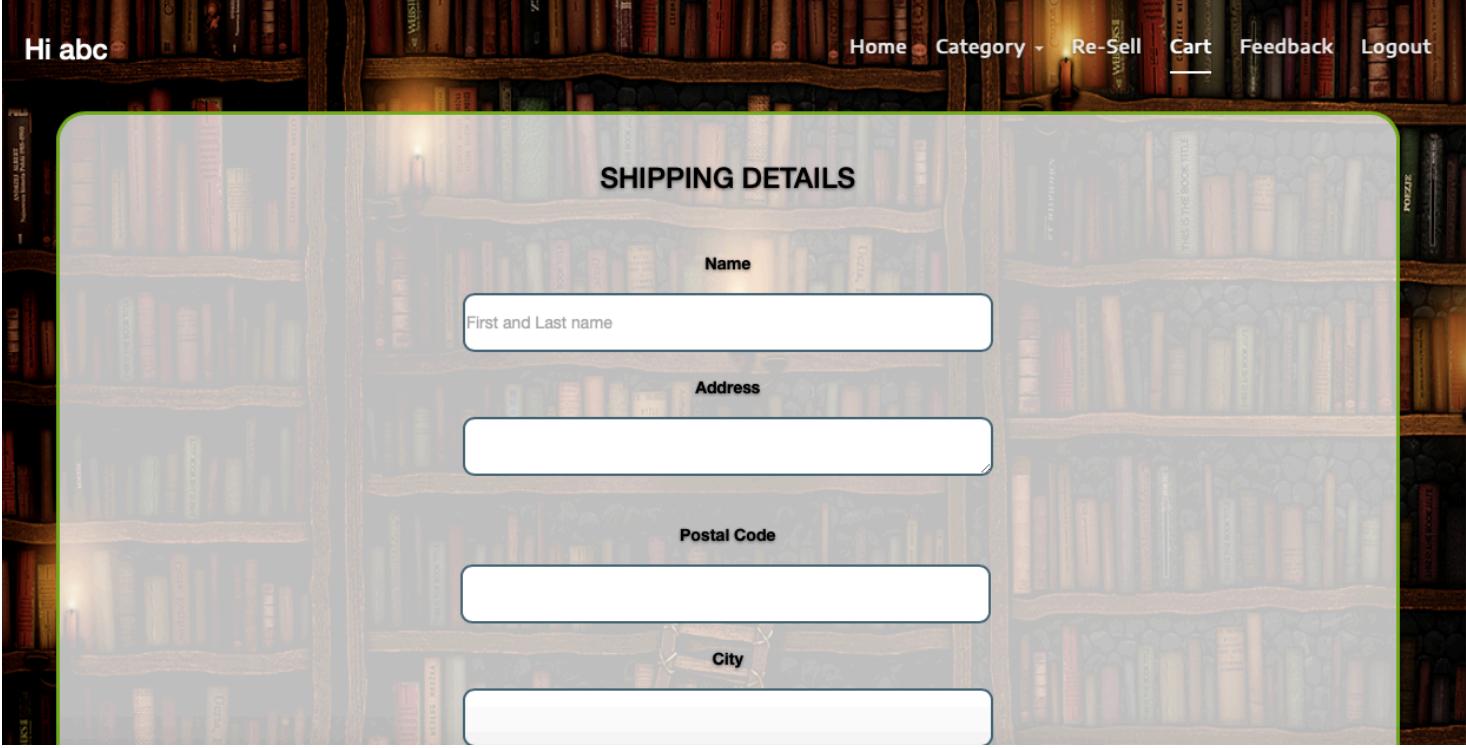


The screenshot shows the 'Viewcart' page. The title 'Viewcart' is centered at the top. Below it is a table listing the items in the cart:

SLNo.	Category	Product	Qty	Rate	Price	Delete
1	Fiction	The Witch of Portobello	<input type="text" value="1"/>	449	449	<button>Delete</button>
2	Romance	The Fault In Our Stars	<input type="text" value="1"/>	349	349	<button>Delete</button>
3	Thriller	Gone Girl	<input type="text" value="1"/>	229	229	<button>Delete</button>

At the bottom of the table, the total price is listed as **Total: 1027**. Below the table are two buttons: RE-CALCULATE and CONFIRM & PROCEED.

5.12 Shipping Detail and Feedback



Hi abc

Home Category Re-Sell Cart Feedback Logout

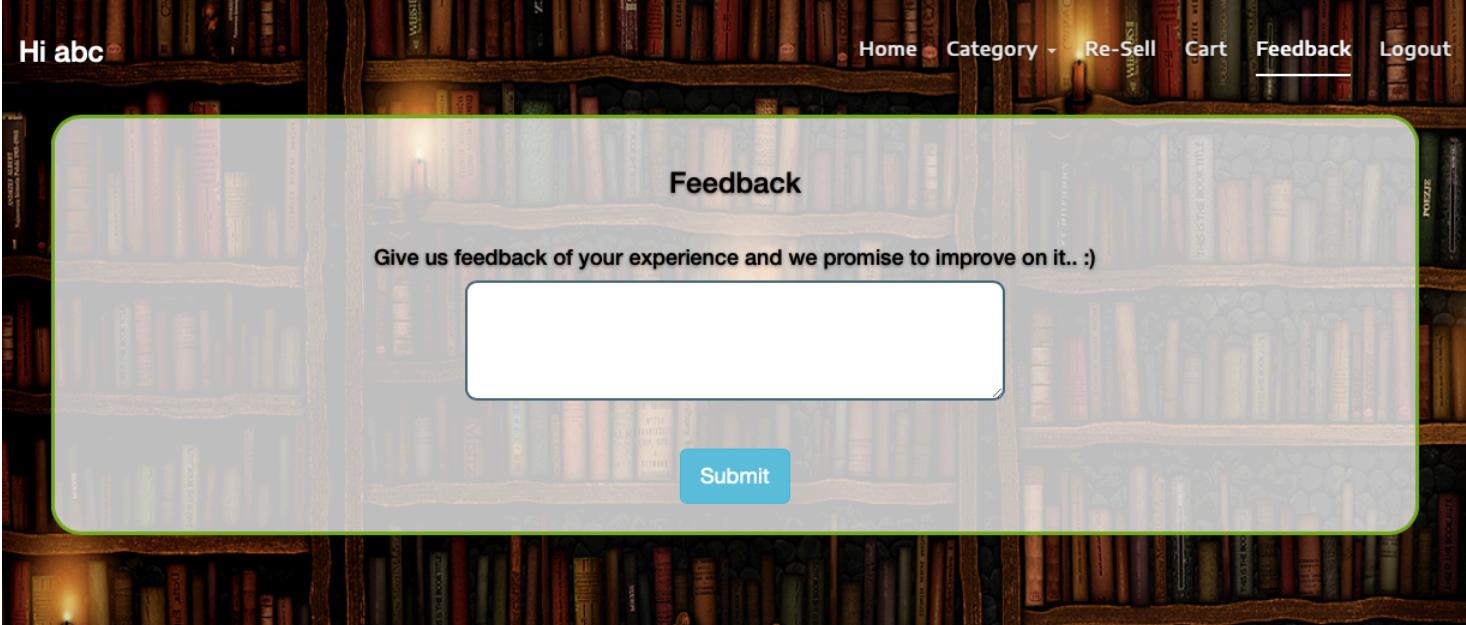
SHIPPING DETAILS

Name

Address

Postal Code

City



Hi abc

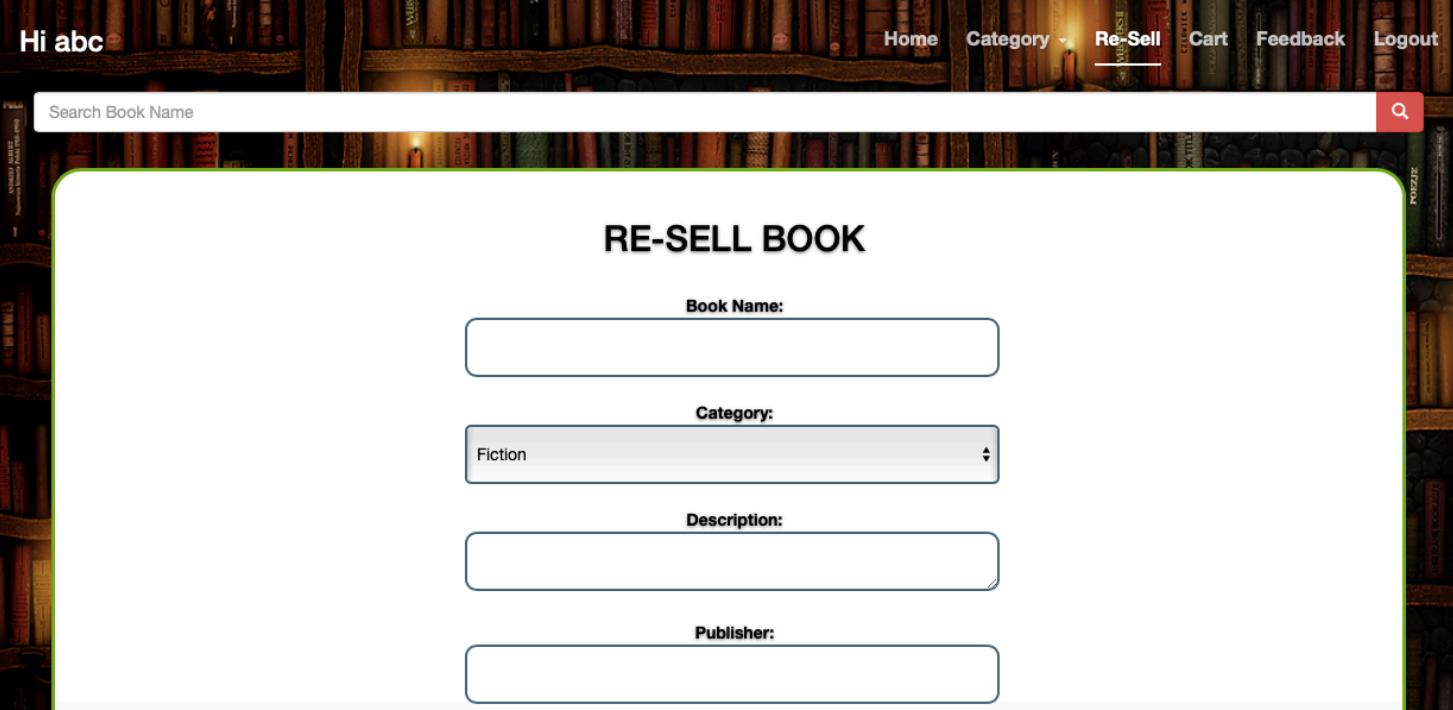
Home Category Re-Sell Cart Feedback Logout

Feedback

Give us feedback of your experience and we promise to improve on it.. :)

Submit

5.13 Re - Sell



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Search Book Name

RE-SELL BOOK

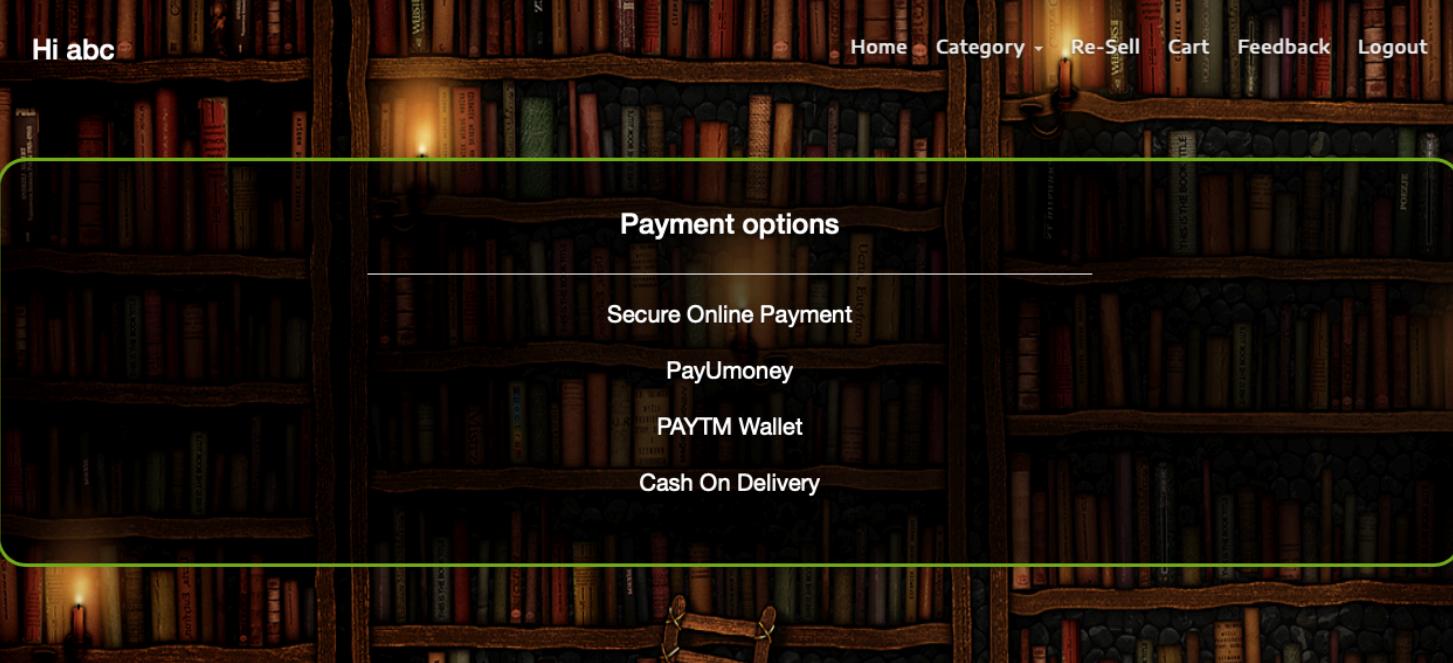
Book Name:

Category:

Description:

Publisher:

5.14 Payment Details



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Home Category Re-Sell Cart Feedback Logout

Payment options

Secure Online Payment

PayUmoney

PAYTM Wallet

Cash On Delivery

Bank Transfer

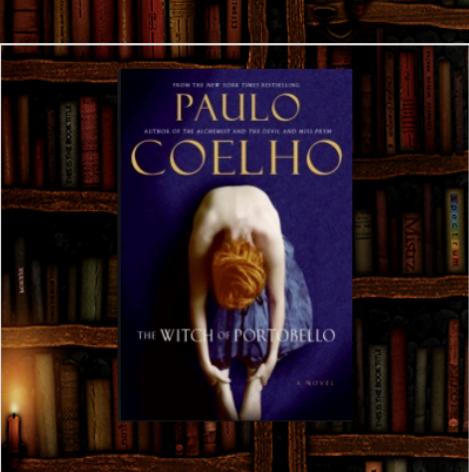
5.15 Category Result and Search Result

Hi abc

Home Category - Re-Sell Cart Feedback Logout

Search Book Name 

Fiction



The Witch of Portobello

Author : Paulo Coelho

Price ₹ 449

Hi abc

Home Category - Re-Sell Cart Feedback Logout

Gone Girl 



Gone Girl

Category : Thriller

Author : Gillian Flynn

Price ₹ 229

Chapter 6

CONCLUSION AND FUTURE SCOPE

Our project is only a humble venture to satisfy the needs to manage their project work. The objective of software planning is to provide a frame work that enables the manager to make reasonable estimates made within a limited time frame at the beginning of the software project and should be updated regularly as the project progresses. At the end it is concluded that we have made effort on the following points:

- A description of the background and the context of the project and its relation to work already done in the area. We understand the Purpose, Scope and applicability. We understand the problem domain and produce a model of the system, which describes operations that can be performed on the system. Finally the system is implemented and tested.

In a nutshell, it can be summarized that the future scope of the project circles around maintaining information regarding:

- Integrate multiple load balancers to distribute the load of the system.
- Create the master and slave database structure to reduce the overload of the database queries.
- Implement a backup mechanism for taking backup of codebase and database.

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2. Mysql/PHP database application , 2nd edition by Brad Bugler

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1. www.academia.edu
2. www.slideshare.net
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Online Bookstore
