

ABSTRACT

A Book Information System is a database that stores information about books, including their title, author, publication date, ISBN, and genre. The system may also include information about the publisher, the format of the book (e.g., hardcover, paperback), the number of pages, and a summary or excerpt of the book's contents. This information can be used for various purposes such as cataloging a library's collection, providing search functionality to find books by specific criteria, or for displaying book recommendations based on a user's reading history. The system may also include features such as user reviews, ratings, and the ability to place holds or purchase the book online. The design of a Book Information System can vary depending on the specific needs and requirements of the organization or individual using it.

The book information system is away to view information about any book necessary and buy it if needed. In today's world hundreds of books are publisher every week and a traditional bookstore or library cannot keep track of the large no of books and their details and availability. In an online environment information on multiple books can easily be updated and kept track of. The online Book information system allows users to view the information of the required book and also find a its availability in popular online shopping services. It also allows uses to directly buy the book from the vendor via the website. This is very convenient for book enthusiasts, students and casual readers.

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Chapter 01

INTRODUCTION

1.1 Aim of the Project

The main aim of project is to create a platform where one can get the information of the books and can buy it.

1.2 Overview of the Project

This project is useful for those who love to read books. Here, users can search for the books they want and go through the basic details of the books and add to their wish list. Users can also buy the books from the provided link.

1.3 Outcome of the Project

The system will display all the books which were added by the admin. Every book will show the details like title, author name, publisher name, overview and price of the book. Books can be added or deleted by the admin. Based on the interest one can create a wish list and buy books.

1.4 Software Requirements

- Operating System – Windows 7/8/10/11
- Front End – HTML, CSS
- Back End – MySQL
- Tools – XAMPP Server

Chapter 02

DESIGN

2.1 Schema Diagram

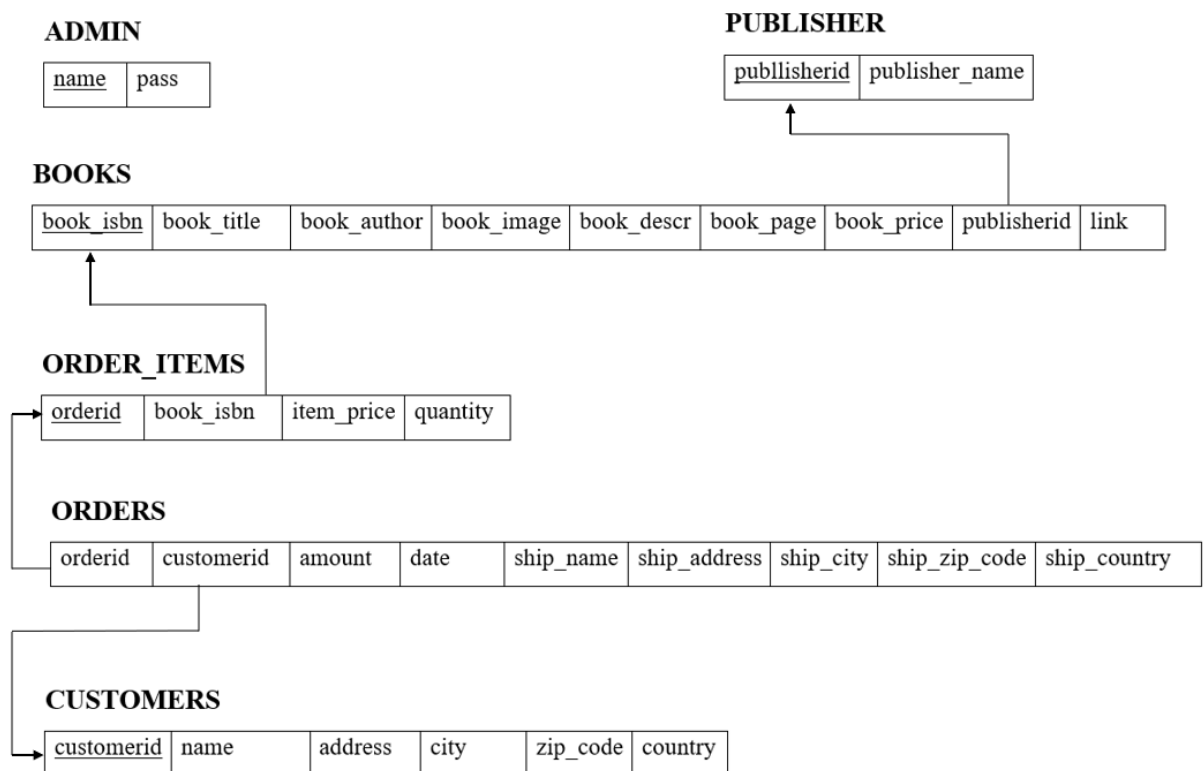


Fig 2.1 Schema Diagram

2.2 E-R Diagram

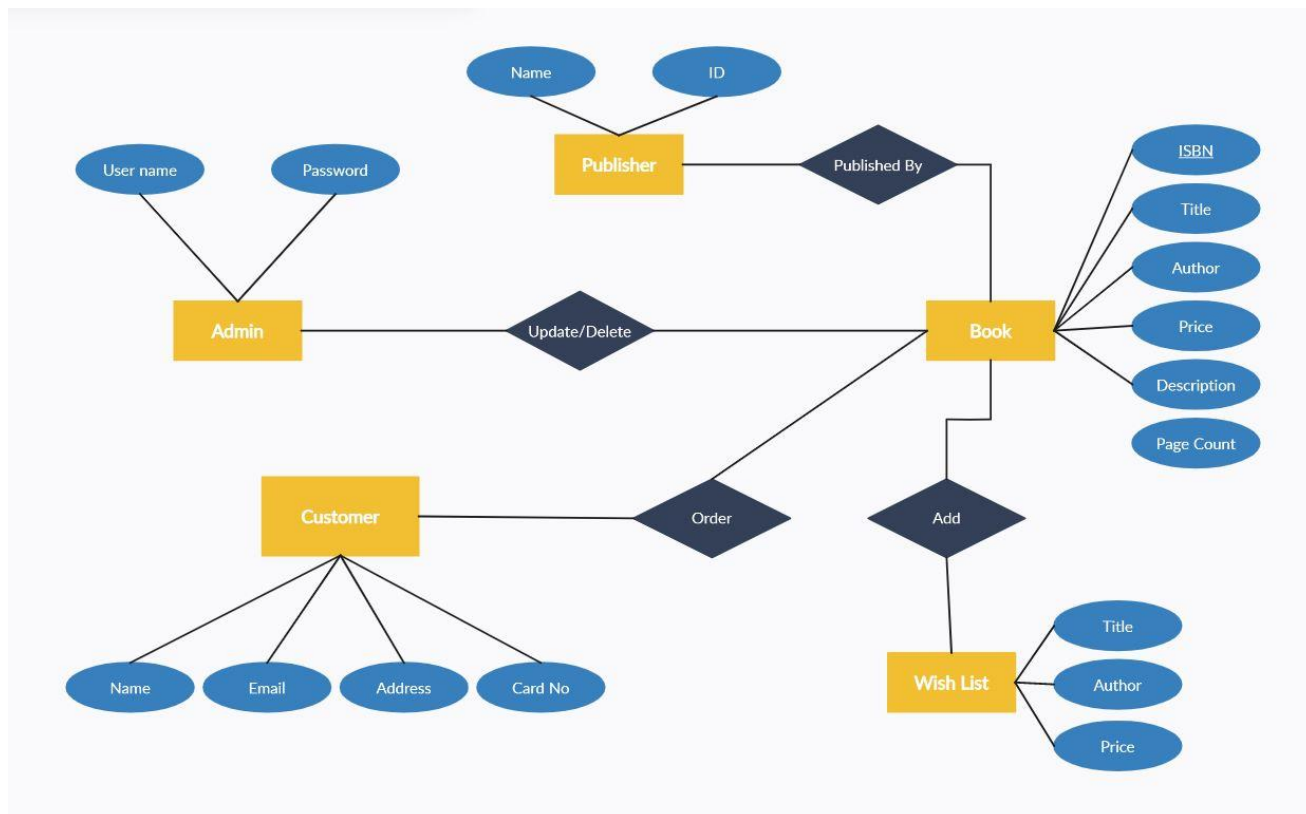


Fig 2.2 E-R Diagram

2.3 Use Case Diagram

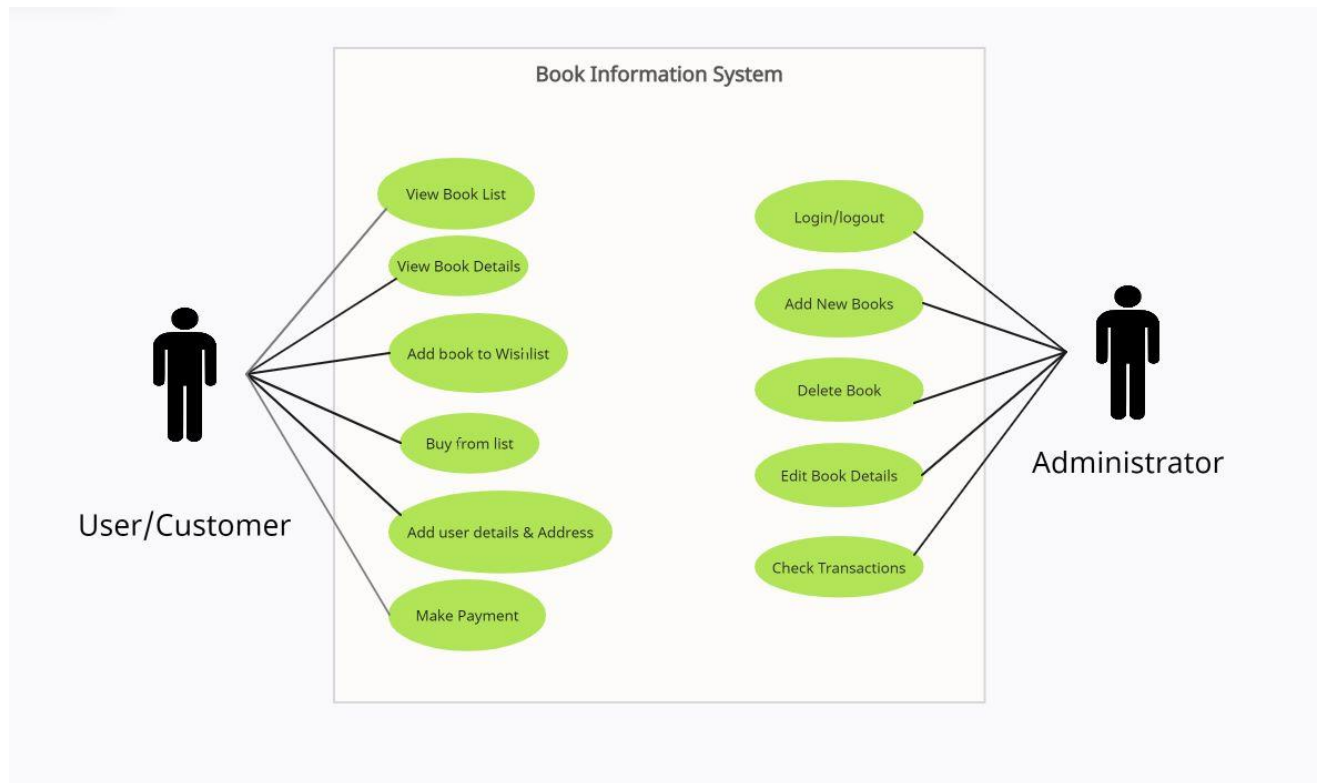


Fig 2.3 Use Case Diagram

2.4 Data Flow Diagram

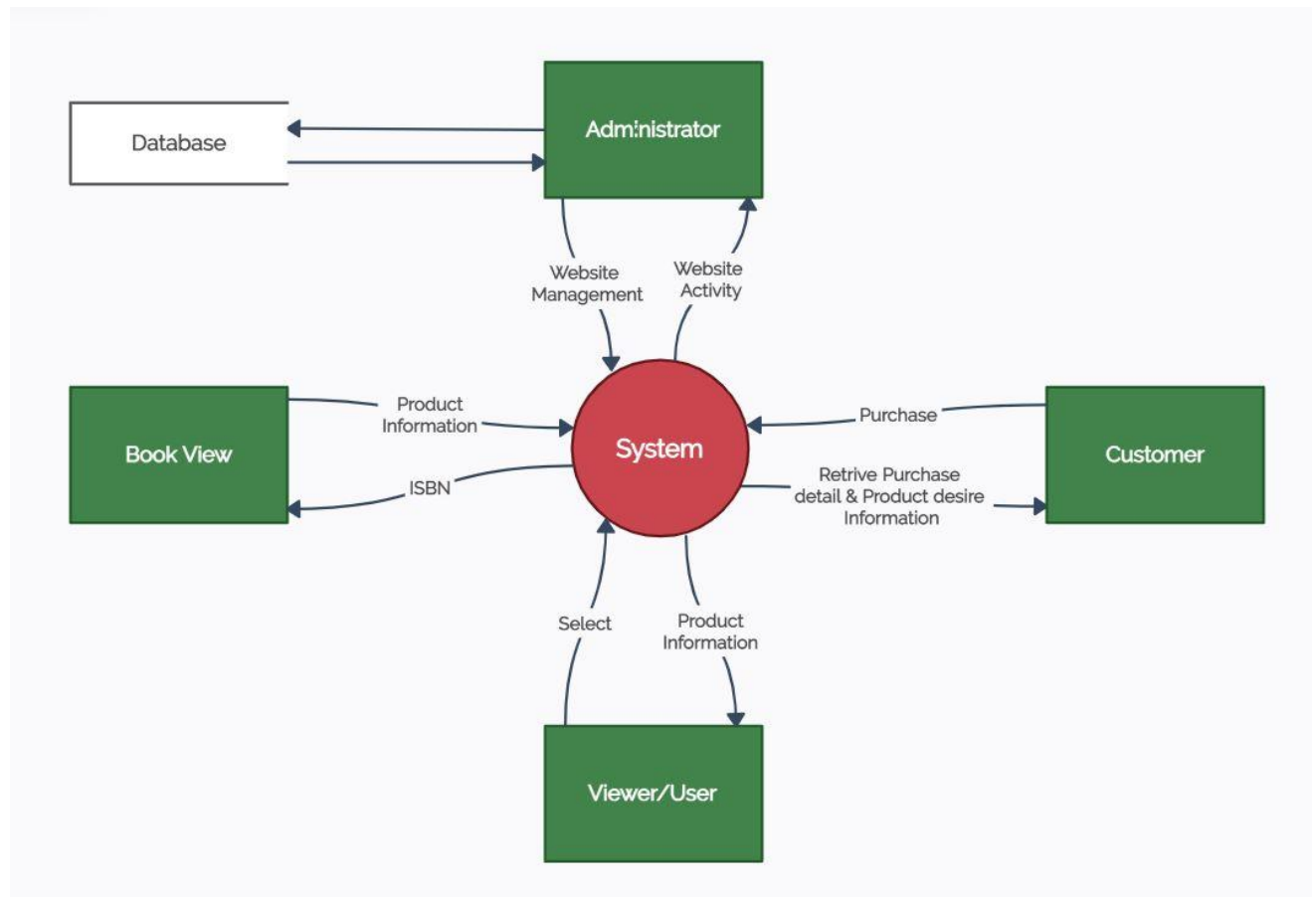


Fig 2.4 Data Flow Diagram

2.5 Sequence Diagram

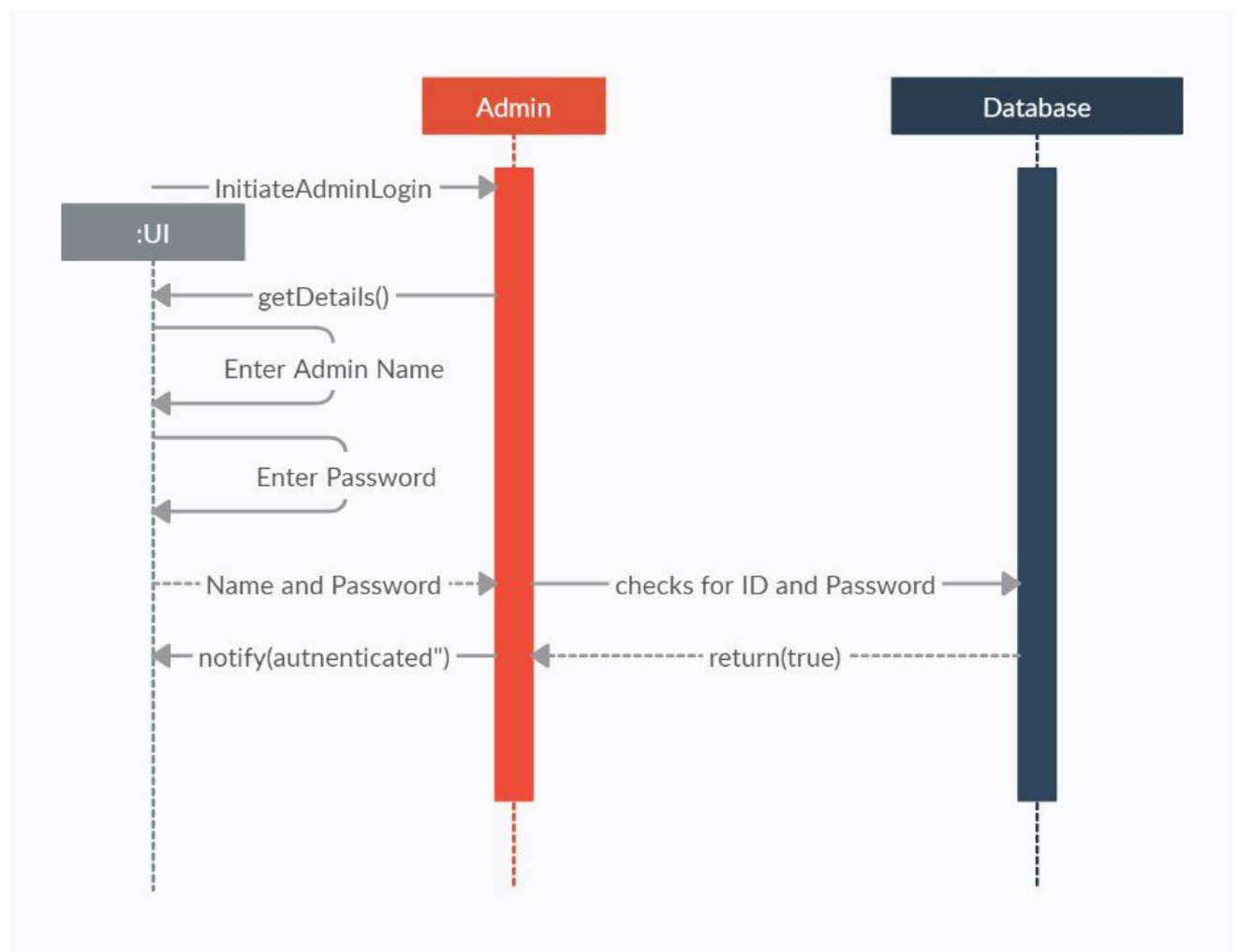


Fig 2.5 Sequence Diagram

Chapter 3

IMPLEMENTATION

3.1 Description of Tables

3.1.1 Name



	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	name 	varchar(20)	latin1_general_ci		No	<i>None</i>		
<input type="checkbox"/>	2	pass 	varchar(40)	latin1_general_ci		No	<i>None</i>		

Fig 3.1.1 Name

3.1.2 Books


	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	book_isbn 	varchar(20)	latin1_general_ci		No	<i>None</i>		
<input type="checkbox"/>	2	book_title	varchar(60)	latin1_general_ci		Yes	<i>NULL</i>		
<input type="checkbox"/>	3	book_author	varchar(60)	latin1_general_ci		Yes	<i>NULL</i>		
<input type="checkbox"/>	4	book_image	varchar(40)	latin1_general_ci		Yes	<i>NULL</i>		
<input type="checkbox"/>	5	book_descr	text	latin1_general_ci		Yes	<i>NULL</i>		
<input type="checkbox"/>	6	book_page	int(10)		UNSIGNED	Yes	<i>NULL</i>		
<input type="checkbox"/>	7	book_price	decimal(10,2)			No	<i>None</i>		
<input type="checkbox"/>	8	publisherid	int(10)		UNSIGNED	No	<i>None</i>		
<input type="checkbox"/>	9	link	varchar(200)	latin1_general_cs		No	<i>None</i>		

Fig 3.1.2 Books

3.1.3 Customers


	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	customerid 	int(10)		UNSIGNED	No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	name	varchar(60)	latin1_general_ci		No	None		
<input type="checkbox"/>	3	address	varchar(80)	latin1_general_ci		No	None		
<input type="checkbox"/>	4	city	varchar(30)	latin1_general_ci		No	None		
<input type="checkbox"/>	5	zip_code	varchar(10)	latin1_general_ci		No	None		
<input type="checkbox"/>	6	country	varchar(60)	latin1_general_ci		No	None		

Fig 3.1.3 Customers

3.1.4 Orders


	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	orderid 	int(10)		UNSIGNED	No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	customerid	int(10)		UNSIGNED	No	None		
<input type="checkbox"/>	3	amount	decimal(6,2)			Yes	NULL		
<input type="checkbox"/>	4	date	timestamp			No	current_timestamp()		
<input type="checkbox"/>	5	ship_name	char(60)	latin1_general_ci		No	None		
<input type="checkbox"/>	6	ship_address	char(80)	latin1_general_ci		No	None		
<input type="checkbox"/>	7	ship_city	char(30)	latin1_general_ci		No	None		
<input type="checkbox"/>	8	ship_zip_code	char(10)	latin1_general_ci		No	None		
<input type="checkbox"/>	9	ship_country	char(20)	latin1_general_ci		No	None		

Fig 3.1.4 Orders

3.1.5 Order_items

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	orderid	int(10)		UNSIGNED	No	None		
<input type="checkbox"/>	2	book_isbn	varchar(20)	latin1_general_ci		No	None		
<input type="checkbox"/>	3	item_price	decimal(6,2)			No	None		
<input type="checkbox"/>	4	quantity	tinyint(3)		UNSIGNED	No	None		

Fig 3.1.5 Order_items

3.1.6 Publisher


	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
<input type="checkbox"/>	1	publisherid 	int(10)		UNSIGNED	No	None		AUTO_INCREMENT
<input type="checkbox"/>	2	publisher_name	varchar(60)	latin1_general_ci		No	None		

Fig 3.1.6 Publisher

3.2 Constraints on Tables

Table BOOKS

1. book_isbn – Primary Key, Not NULL
2. book_title – Not NULL
3. book_author – Not NULL
4. book_image – Not NULL
5. book_descr – Not NULL
6. publisherid – Foreign key reference PUBLISHER(publisherid)

Table ADMIN

1. name – Primary Key
2. pass – Not NULL

Table PUBLISHER

1. publisherid – Primary Key, Not NULL, Auto increment
2. publisher_name – Not NULL

Table CUSTOMERS

1. customerid – Primary Key, Not NULL, Auto increment
2. name – Not NULL
3. address – Not NULL
4. city – Not NULL
5. zip_code – Not NULL

Table ORDER_ITEMS

1. orderid – Primary key, Not NULL, Auto increment
2. book_isbn – Foreign key references BOOKS(book_isbn)

Table ORDERS

1. ordreid – Foreign key references ORDER_ITEMS(orderid)
2. customerid – Foreign key references CUSTOMERS(customerid)
3. amount – Not NULL
4. date – Not NULL

3.3 Back End Implementations

```
-- phpMyAdmin SQL Dump
-- version 5.2.0
-- https://www.phpmyadmin.net/
--
-- Host: 127.0.0.1
-- Generation Time: Jan 21, 2023 at 03:24 PM
-- Server version: 10.4.27-MariaDB
-- PHP Version: 8.0.25

SET SQL_MODE = "NO_AUTO_VALUE_ON_ZERO";
START TRANSACTION;
SET time_zone = "+00:00";


-- Database: `bis`

--
-- Table structure for table `admin`
--

CREATE TABLE `admin` (
  `name` varchar(20) NOT NULL,
  `pass` varchar(40) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;

-- Dumping data for table `admin`

INSERT INTO `admin` (`name`, `pass`) VALUES
('admin', 'd033e22ae348aeb5660fc2140aec35850c4da997');

--
-- Table structure for table `books`
--

CREATE TABLE `books` (
  `book_isbn` varchar(20) NOT NULL,
  `book_title` varchar(60) DEFAULT NULL,
  `book_author` varchar(60) DEFAULT NULL,
  `book_image` varchar(40) DEFAULT NULL,
  `book_descr` text DEFAULT NULL,
  `book_page` int(10) UNSIGNED DEFAULT NULL,
  `book_price` decimal(10,2) NOT NULL,
  `publisherid` int(10) UNSIGNED NOT NULL,
  `link` varchar(200) CHARACTER SET latin1 COLLATE latin1_general_cs NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;
```

-- Dumping data for table `books`

```
INSERT INTO `books` (`book_isbn`, `book_title`, `book_author`, `book_image`, `book_descr`, `book_page`,  
`book_price`, `publisherid`, `link`) VALUES  
( '978-0-321-94786-4', 'Learning Mobile App Development', 'Jakob Iversen, Michael Eierman', 'mobile_app.jpg', "Now,  
one book can help you master mobile app development with both market-leading platforms: Apple's iOS and Google's  
Android. Perfect for both students and professionals, Learning Mobile App Development is the only tutorial with  
complete parallel coverage of both iOS and Android. With this guide, you can master either platform, or both - and gain a  
deeper understanding of the issues associated with developing mobile apps.\r\n\r\n You'll develop an actual working app  
on both iOS and Android, mastering the entire mobile app development lifecycle, from planning through licensing and  
distribution.\r\n\r\n Each tutorial in this book has been carefully designed to support readers with widely varying  
backgrounds and has been extensively tested in live developer training courses. If you're new to iOS, you'll also find an  
easy, practical introduction to Objective-C, Apple's native language.", 464, '7500.00', 6,  
'https://www.amazon.in/Learning-Mobile-App-Development-Hands/dp/032194786X');
```

--
-- Table structure for table `customers`
--

```
CREATE TABLE `customers` (  
  `customerid` int(10) UNSIGNED NOT NULL,  
  `name` varchar(60) NOT NULL,  
  `address` varchar(80) NOT NULL,  
  `city` varchar(30) NOT NULL,  
  `zip_code` varchar(10) NOT NULL,  
  `country` varchar(60) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;
```

-- Dumping data for table `customers`

```
INSERT INTO `customers` (`customerid`, `name`, `address`, `city`, `zip_code`, `country`) VALUES  
(3, 'test', '123 test', '12121', 'test', 'test');
```

--
-- Table structure for table `orders`
--

```
CREATE TABLE `orders` (  
  `orderid` int(10) UNSIGNED NOT NULL,  
  `customerid` int(10) UNSIGNED NOT NULL,  
  `amount` decimal(6,2) DEFAULT NULL,  
  `date` timestamp NOT NULL DEFAULT current_timestamp(),  
  `ship_name` char(60) NOT NULL,  
  `ship_address` char(80) NOT NULL,  
  `ship_city` char(30) NOT NULL,  
  `ship_zip_code` char(10) NOT NULL,  
  `ship_country` char(20) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;
```

-- Dumping data for table `orders`

```
INSERT INTO `orders` (`orderid`, `customerid`, `amount`, `date`, `ship_name`, `ship_address`, `ship_city`,  
`ship_zip_code`, `ship_country`) VALUES  
(3, 3, '20.00', '2015-12-03 19:34:21', 'test', '123 test', '12121', 'test', 'test');
```

--
-- Table structure for table `order_items`
--

```
CREATE TABLE `order_items` (  
  `orderid` int(10) UNSIGNED NOT NULL,  
  `book_isbn` varchar(20) NOT NULL,  
  `item_price` decimal(6,2) NOT NULL,  
  `quantity` tinyint(3) UNSIGNED NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;
```

--
-- Dumping data for table `order_items`
--

```
INSERT INTO `order_items` (`orderid`, `book_isbn`, `item_price`, `quantity`) VALUES  
(1, '978-1-49192-706-9', '400.00', 1);
```

-- Table structure for table `publisher`
--

```
CREATE TABLE `publisher` (  
  `publisherid` int(10) UNSIGNED NOT NULL,  
  `publisher_name` varchar(60) NOT NULL  
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;
```

-- Dumping data for table `publisher`

```
INSERT INTO `publisher` (`publisherid`, `publisher_name`) VALUES  
(1, 'Wrox'), (2, 'Wiley'), (3, 'O'Reilly Media');
```

--
-- Indexes for dumped tables
--

-- Indexes for table `admin`

```
ALTER TABLE `admin`  
ADD PRIMARY KEY (`name`, `pass`);
```


-- Indexes for table `books`

```
ALTER TABLE `books`  
  ADD PRIMARY KEY (`book_isbn`);
```

-- Indexes for table `customers`

```
ALTER TABLE `customers`  
  ADD PRIMARY KEY (`customerid`);
```

-- Indexes for table `orders`

```
ALTER TABLE `orders`  
  ADD PRIMARY KEY (`orderid`);
```

-- Indexes for table `publisher`

```
ALTER TABLE `publisher`  
  ADD PRIMARY KEY (`publisherid`);
```

--

-- AUTO_INCREMENT for dumped tables

--

-- AUTO_INCREMENT for table `customers`

```
ALTER TABLE `customers`  
  MODIFY `customerid` int(10) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=4;
```

-- AUTO_INCREMENT for table `orders`

```
ALTER TABLE `orders`  
  MODIFY `orderid` int(10) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
```

-- AUTO_INCREMENT for table `publisher`

```
ALTER TABLE `publisher`  
  MODIFY `publisherid` int(10) UNSIGNED NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=7;  
COMMIT;
```

3.4 Front End Implementations

3.4.1 Header

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1">

    <title><?php echo $title; ?></title>

    <link href="/bootstrap/css/bootstrap.min.css" rel="stylesheet">
    <link href="/bootstrap/css/bootstrap-theme.min.css" rel="stylesheet">
    <link href="/bootstrap/css/jumbotron.css" rel="stylesheet">
  </head>

  <body>

    <nav class="navbar navbar-light" style="background-color: #E1F5FE;">
      <div class="container">
        <div class="navbar-header">
          <button type="button" class="navbar-toggle collapsed" data-toggle="collapse" data-target="#navbar" aria-
expanded="false" aria-controls="navbar">
            <span class="sr-only">Toggle navigation</span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
            <span class="icon-bar"></span>
          </button>
          <a class="navbar-brand" href="index.php"><span class="glyphicon glyphicon-home"></span> &nbsp; Book-
IS</a>
        </div>

        <!--/.navbar-collapse -->
        <div id="navbar" class="navbar-collapse collapse">
          <ul class="nav navbar-nav navbar-right">

            <!-- link to books.php -->
            <li><a href="books.php"><span class="glyphicon glyphicon-book"></span> &nbsp; Books </a></li>
            <!-- link to publisher_list.php -->
            <li><a href="publisher_list.php"><span class="glyphicon glyphicon-pencil"> </span> &nbsp;
Publisher</a></li>
            <!-- link to myList -->
            <li><a href="myList.php"><span class="glyphicon glyphicon-book"></span> &nbsp; Wish List</a></li>
            <!-- link to admin login -->
            <li><a href="admin.php" title="Admin Settings"><span class="glyphicon glyphicon-cog">
</span> &nbsp; </a></li>
          </ul>
        </div>
      </div>
    </nav>
```

```
<!-- link to contacts.php -->
<li><a href="contact.php" title="Contacts"><span class="glyphicon glyphicon-phone-alt">
</span>&nbsp;</a></li>
</ul>
</div>
</div>
</nav>

<?php
if(isset($title) && $title == "Index") {
?>
<!-- Main jumbotron for a primary marketing message or call to action -->
<div class="jumbotron" style="background-color: #e3f2fd;">
<div class="container" >
<h1>Book Information System</h1>
<p class="lead">This site has been made using PHP with MYSQL (procedure functions)!</p>
<p>The layout use Bootstrap to make it more responsive. It's just a simple web!</p>
</div>
</div>
<?php } ?>

<div class="container" id="main">
```

3.4.2 Index

```
<?php
session_start();
$count = 0;
$title = "Index";
require_once "./template/header.php";
require_once "./functions/database_functions.php";
$conn = db_connect();
$row = select4LatestBook($conn);
?>

<p class="lead text-center text-muted">Latest books</p>
<div class="row">
<?php foreach($row as $book) { ?>
<div class="col-md-3">
<a href="book.php?bookisbn=<?php echo $book['book_isbn']; ?>">

</a>
</div>
<?php } ?>
</div>

<?php

if(isset($conn)) {mysqli_close($conn);}
require_once "./template/footer.php";
?>
```

3.4.3 Admin

```
<?php
$title = "Administration section";
require_once "../template/header.php";
?>

<form class="form-horizontal" method="post" action="admin_verify.php">
  <div class="form-group">
    <label for="name" class="control-label col-md-4">Name</label>
    <div class="col-md-4">
      <input type="text" name="name" class="form-control">
    </div>
  </div>
  <div class="form-group">
    <label for="pass" class="control-label col-md-4">Pass</label>
    <div class="col-md-4">
      <input type="password" name="pass" class="form-control">
    </div>
  </div>
  <div class="text-center">
    <input type="submit" name="submit" value="Login" class="btn btn-primary">
  </div>
</form>

<?php
require_once "../template/footer.php";
?>
```

Chapter 04

RESULT ANALYSIS

4.1 Snapshots

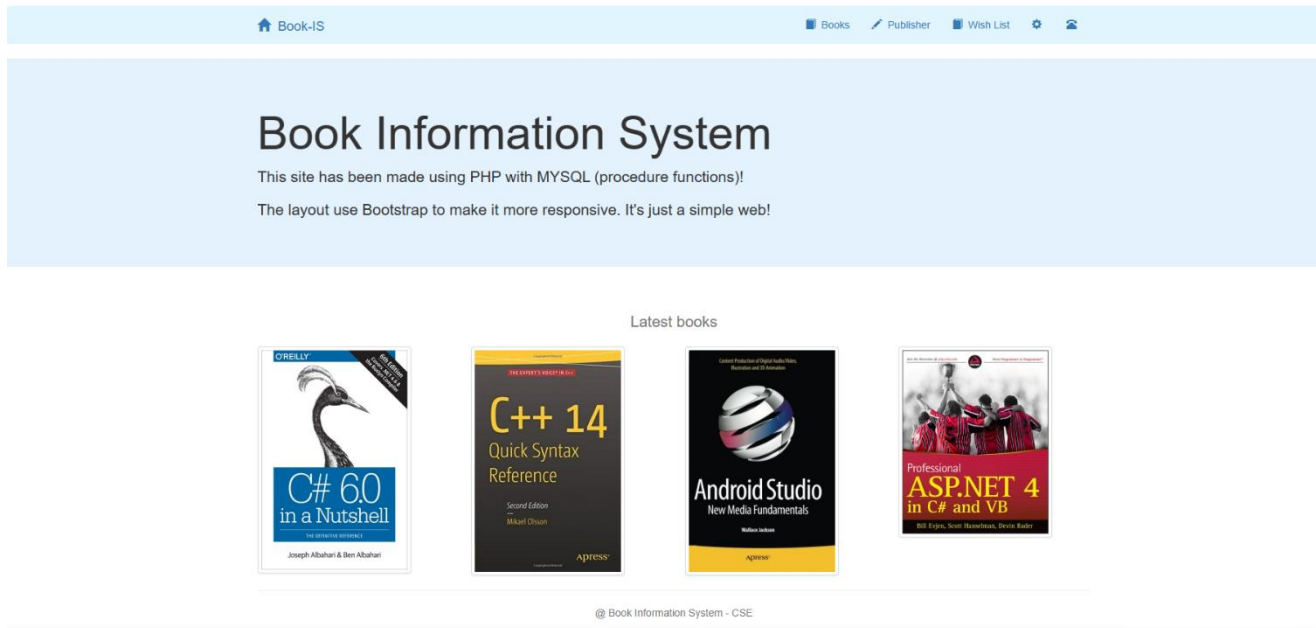


Fig 4.1.1 Home Page

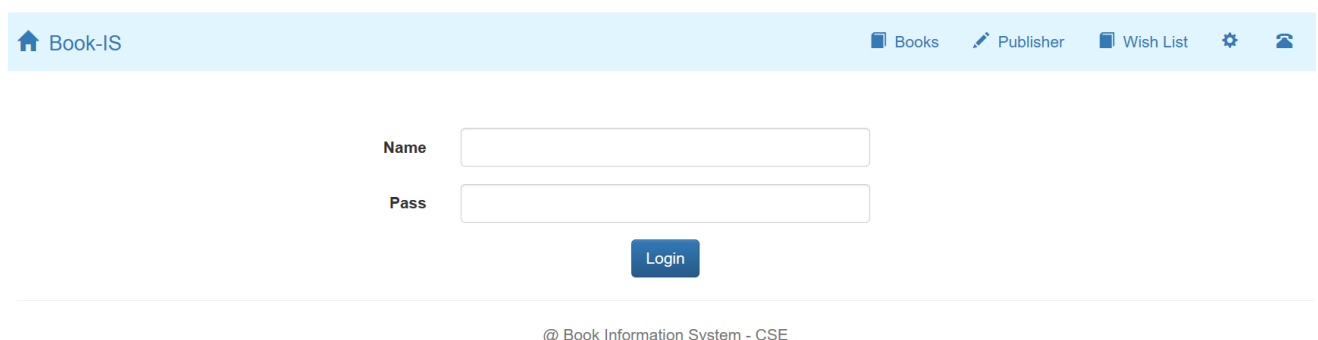


Fig 4.1.2 Admin Login Page

[Book-IS](#)

[Books](#)[Publisher](#)[Wish List](#)[Settings](#)[Help](#)

List of Publisher

Wrox

Wiley

O'Reilly Media

Apress

Packt Publishing

Addison-Wesley

List All Books

@ Book Information System - CSE

Fig 4.1.3 List of Publishers

[Book-IS](#)

[Books](#)[Publisher](#)[Wish List](#)[Settings](#)[Help](#)

Contact

I'd love to hear from you! Complete the form to send me an email.

Name

Email

Textarea

A longer block of help text that breaks onto a new line and may extend beyond one line.

CancelSubmit

@ Book Information System - CSE

Fig 4.1.4 Helpline

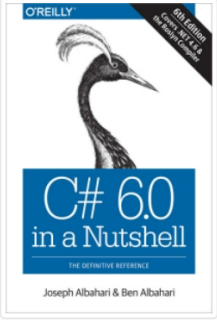
[Book-IS](#)[Books](#)[Publisher](#)[Wish List](#)[Settings](#)[Help](#)

ISBN	<input type="text"/>
Title	<input type="text"/>
Author	<input type="text"/>
Image	<input type="button" value="Choose File"/> No file chosen
Description	<div></div>
Page Count	<input type="text"/>
Price	<input type="text"/>
Publisher	<input type="text"/>
Amazon Link	<div></div>

Fig 4.1.5 Book Registration Form

[Book-IS](#)[Books](#)[Publisher](#)[Wish List](#)[Settings](#)[Help](#)

[Books](#) > C# 6.0 in a Nutshell, 6th Edition



Book Description

When you have questions about C# 6.0 or the .NET CLR and its core Framework assemblies, this bestselling guide has the answers you need. C# has become a language of unusual flexibility and breadth since its premiere in 2000, but this continual growth means there's still much more to learn. Organized around concepts and use cases, this thoroughly updated sixth edition provides intermediate and advanced programmers with a concise map of C# and .NET knowledge. Dive in and discover why this Nutshell guide is considered the definitive reference on C#.

Book Details

ISBN	978-1-49192-706-9
Author	Joseph Albahari, Ben Albahari
Page Count	1136
Price	1150.00









Fig 4.1.6 Book Details


 Book-IS

 Books

 Publisher


 Wish List





Book Title	Author	Publisher	Page Count	Price
Learning Mobile App Development	Jakob Iversen, Michael Eierman	Addison-Wesley	464	7500.00
Doing Good By Doing Good	Peter Baines	Wiley	276	450.00
Programmable Logic Controllers	Dag H. Hanssen	Wiley	397	7800.00
Professional JavaScript for Web Developers, 3rd Edition	Nicholas C. Zakas	Wrox	1144	2145.00

Purchase Books

 Home

@ Book Information System - CSE

Fig 4.1.7 Wishlist

4.2 Discussion:

□ Home Page:

Here users can access many domains like, books, publishers, admin login, Contact us, About us etc.

Fig 4.1.1 Home Page.

□ Admin Login:

Here the admin can login to the admin section and can add or delete the information of the books.

Fig 4.1.2 Admin Login Page.

□ Contact Page:

Here users can contact the owner by entering their name and email addresses.

Fig 4.1.4 Helpline.

□ **Book Registration Page:**

Here the admin can add books by entering the basic details like title, author, publisher, Price etc.

Fig 4.1.5 Book Registration Page.

□ **Book Information Page:**

All the information of the books like title, author and publisher details, description of the book and price. And also, the link to purchase the book.

Fig 4.1.6 Book Details.

□ **Wishlist Page:**

Here all the books added to the cart/ wish list will be displayed.

Fig 4.1.7 Wishlist Page.

4.3 Test Case

Test Case ID	Action	Expected Output	Actual Output	Status
TC1	Login with wrong Admin name and wrong password	Invalid username or password	Invalid username or password	Pass
TC2	Sign up with correct Admin name and wrong password	The confirmation password does not match	Invalid username or password	Pass
TC3	User wants to see all the books	List of books will be displayed	List of books will be displayed	Pass
TC4	User click-on a particular book image/name	The book details are displayed	The book details are displayed	Pass
TC5	Admin Selects Add_new_book	A form for adding book information is displayed	A form for adding book information is displayed	Pass

Table 4.3 Test Cases

Chapter 05

CONCLUSION AND FUTURE WORK

5.1 Conclusion

The package was designed in such a way that future modifications can be easily made. The website has a very user friendly with an interactive graphic user interface. Book information allows book enthusiasts to access information of the books needed and also buy then.

This project helps in understanding the creation of an interactive web page and the technologies used to implement it. The design of the project which includes Data Model and Process Model illustrates how the database is built with different tables, how the data is accessed and processed from the tables. The building of the project has given me a precise knowledge about how PHP is used to develop a website, how it connects to the database to access the data and how the data and web pages are modified to provide the user with a shopping cart application.

5.2 Future Enhancement

The project has a lot of room for future environment. And the implementation is beginner friendly. This allows new developers to understand and develop the website by using their own styles.

Chapter 06

REFERENCES

HTML reference - <https://www.w3schools.com/html/>

CSS Reference - <https://www.w3schools.com/css/>

PHP Reference - <https://www.w3schools.com/php/>