

Online Book Store

Introduction

With the rapid development of internet technologies, the number of online books selling websites has increased which enhanced the competition among them. The Online Book Store System is a basic project that can help book store owners provide an easy way for their consumers to perform online transactions. All of the store's books are organized by book categories, and all of the store's books for sale information is stored in the system.

In this approach, the book can be divided into many categories, and it will appear when a consumer searches for a particular category on the website or in an online store.

Problem Definition

The traditional book ordering system is a manual and time-consuming process where the customer has to visit a bookstore to search and purchase the books. In this tight schedule, problems arise in finding specific books due to the inadequate distribution of books through the bookshop. The buyer couldn't get a recommendation for the correct selection of books.

This new system is created to address issues with the current manual system. It is created to be used online, which relieves both students and staff of the burden that comes with the manual procedure. This is the process of automatically or interactively evaluating and storing data via online access to the internet.

Objective

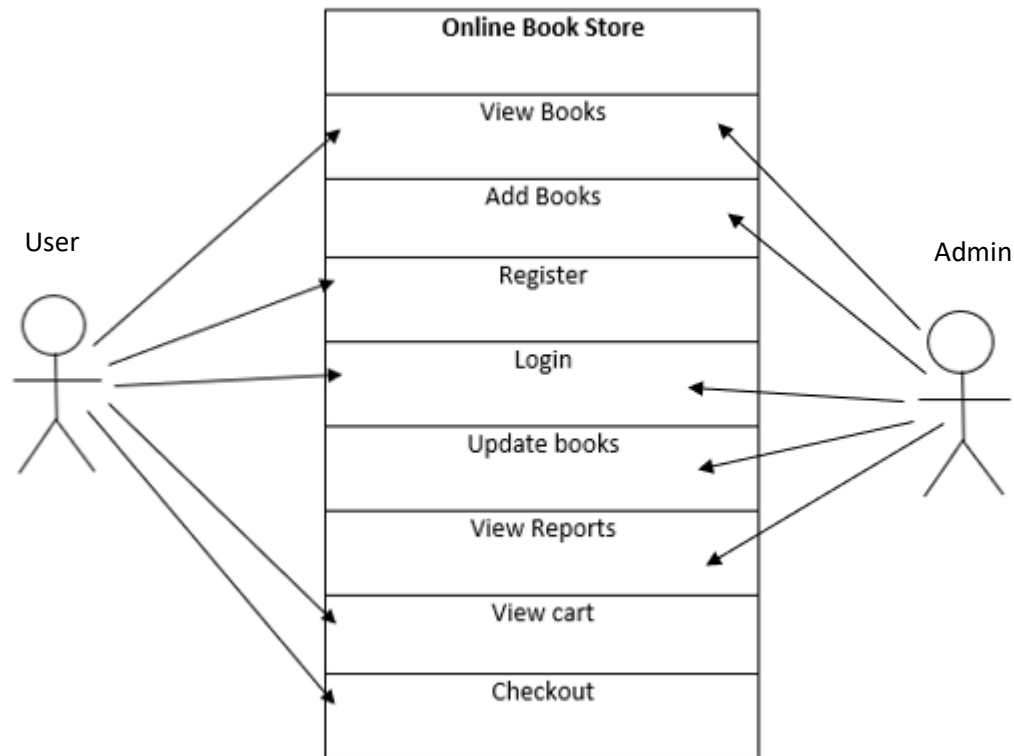
The general objective is to develop an online book store where users can search for and buy books based on title, author, and subject. The books that the user has chosen are displayed in a tabular fashion, and they can be ordered online using a credit card. The user can buy a book from this website from the comfort of their own homes instead of going to a bookstore and spending time.

The Specific objectives are listed below:

- To provide a platform to view the books online
- To purchase books online

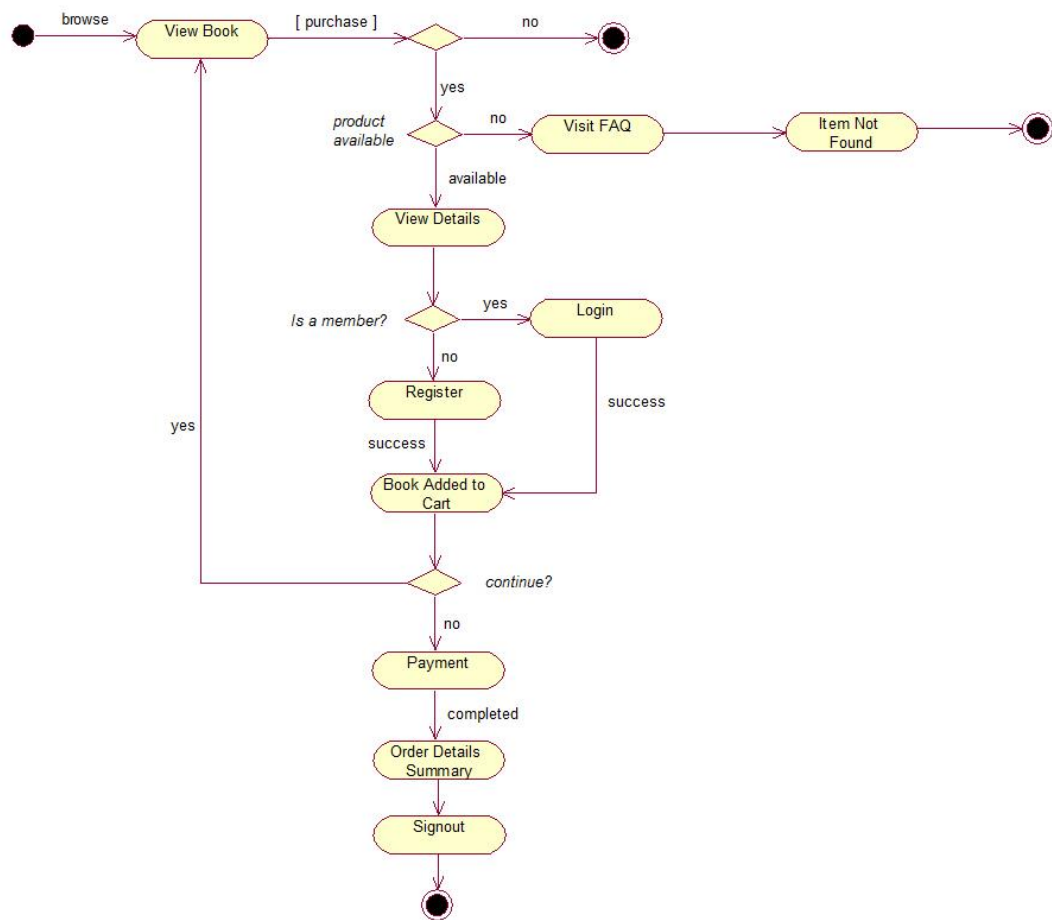
System Analysis

Use Case Diagram



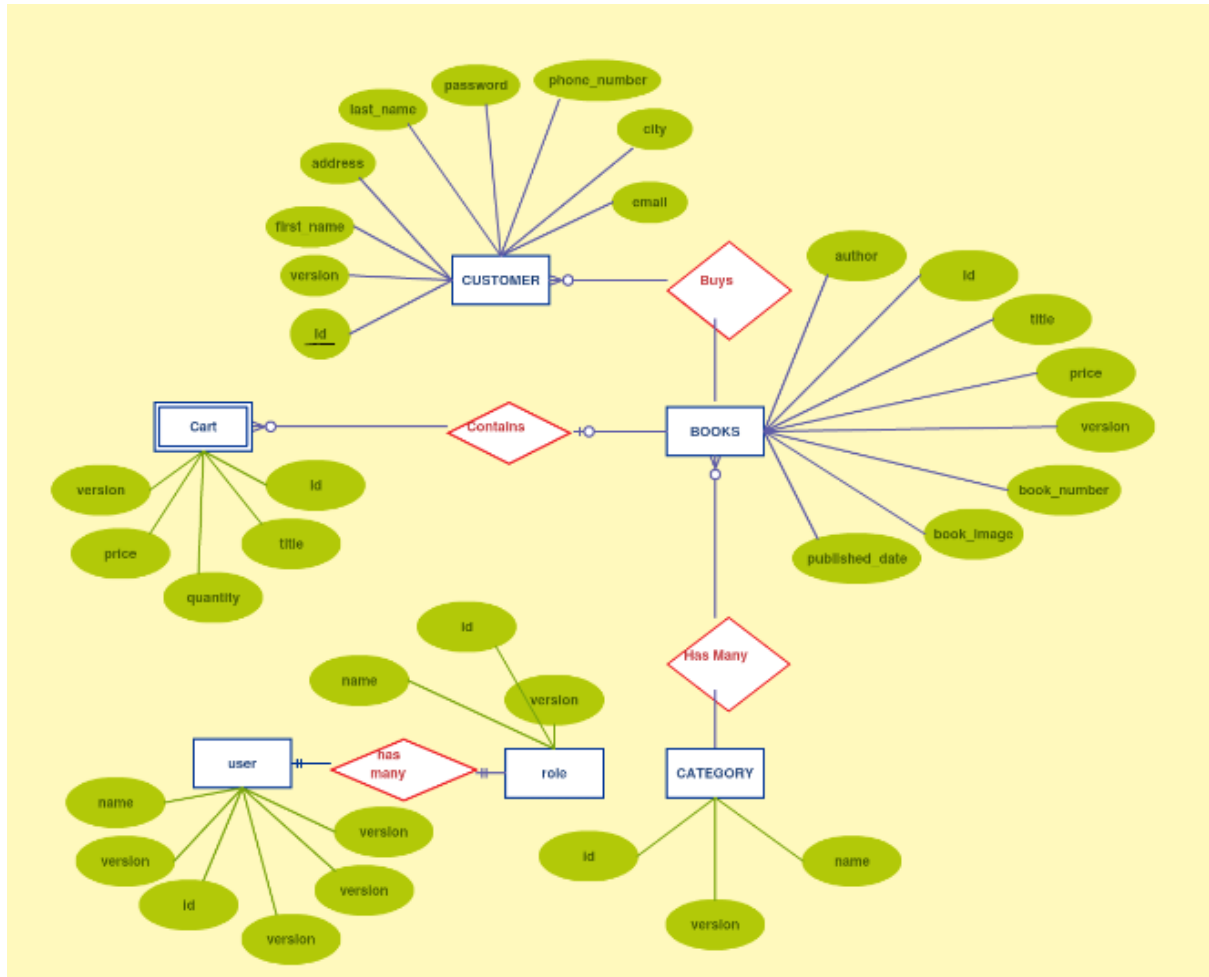
The figure above shows the use case diagram for this website. User and Admin are the two actors included in the Online Book Store where the Admin is also known as the super user. The user can login, browse home page, rate a book, search a book, view recommended books, manage his/her shopping carts, view profile, edit profile and logout. Admin can also login as user so he/she can do tasks of users and also manage users and books.

ACTIVITY DIAGRAM



Data Model

The figure below shows the logical relationship between numbers of entities. User, order, category, book are the entities and each entity has their respective attributes.



Tools Used

Front-end Tools

- HTML (It is used to display content of the website)
- CSS (it is used as the styling tool for the website)
- JavaScript (it is used in the project to provide responsive features)
- Bootstrap (for the design)

Back-end Tools

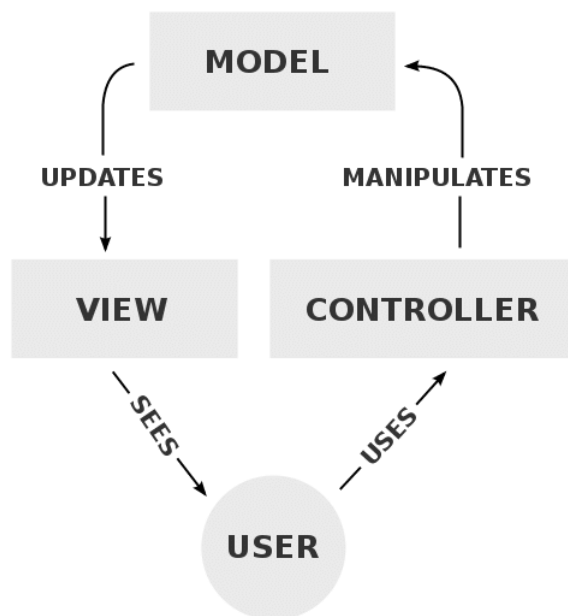
- PHP with CodeIgniter Framework

- MySQLi Database (It is used in the project for database design, maintenance and storage)

Architecture of the Application

Model View Controller architecture

PHP frameworks typically follow the Model View Controller (MVC) design pattern. This concept separates the manipulation of data from its presentation.



Model View Controller Process

The Model stores the business logic and application data. It passes data to the View, the presentation layer. The User interacts with the View and can input instructions via the Controller. The Controller gives these commands to the Model, and the cycle continues.

In a nutshell, the Model is about data, the View is about appearance and the Controller is about behaviour.

Modules

Administrator Side:

- Login Page

- The page where the system admin or staff submit their system credential to access the data and functionalities of the admin side of the system.
- **Home Page**
 - The page where the system admin or staff will be redirected by default when logging into the system. The page display also a simple summary for some list of data on the database.
- **Categories Page**
 - The page where the categories are listed and managed.
- **Books Page**
 - The page where the system admin or staff encodes or manages the books to sell online.
- **Orders Page**
 - The page where the list of customer orders is listed.
- **Sales Report Page**
 - The page where the monthly sales report is shown and ready to print.
- **Users Page**
 - The page where the system admin manages the system users.

Users Side:

- **Home Page**
 - The page where the customer will be redirected by default when browsing the website. This page also displays the books.
- **Login Model**
 - The popup modal where the customers submit their system credentials in order to log in.
- **Signup Model**

- The popup modal where the new customers will create their system credentials and submit their information.
- **View Model of the Book**
 - The modal displays all the details of the book and this is where the customer can add the selected book to their cart.
- **Cart Page**
 - The page that lists all the customer's selected items

CONCLUSION

A Online Book Store Project is a really useful and time-saving tool for book sellers who want to sell their books online and make a lot of money. Customers can buy any books they want without having to go to a bookstore as long as they have a computer or a cell phone with an internet connection.