Online Book Store - BookStack

BCA399 Major Project 2021

BCA183001 Shakeeb Shahid
BCA183002 Ayasha Zaman
BCA183003 Afreena Yeasmin

Signature of the HOD *Signature of the project supervisor*

Acknowledgment

It is our pleasure to thank all the various people in the team who contributed directly and indirectly in the development of this project.

We express our sincere gratitude to our Project in charge and supervisor ***Dr. Souvik Sengupta*** for providing us the opportunity to undertake this project in our course of study and advancement of our knowledge in technology.

We also extend our sincere gratitude to our (**HOD) Dr.Sk Obaidullah** for his support and trust in the BCA students.

Lastly, we are humbled with all the problems and challenges faced during the project's development and like to express our benevolence to various sites and youtube videos that helped us in building our knowledge.

Abstract

BookStack is an E-commerce web application which has computerised the process of ordering books online. This has eased off the process of purchasing offline. An interactive web application that helps the user connect with the interface to shop and buy books.

Overall, there are only two modules. 1. Customer Module and 2. Administrator Module.

Under the Customer Module the customer has to make their online free BookStack account by giving in the required details in the SIGNUP page. Which provides the username and password of their choice. Which in turn is used to log in to the BookStack Account and start the process of browsing and buying books.

Under the Administrator module the admin is provided with a feature to add a new stock of books in case any particular book is on the verge of running out. Then the admin can request the publisher for adding more books of the same respectively.

Contents

Introduction

1.1 Overview

Any member can register and view available products. Only registered members can purchase multiple products regardless of quantity. Contact Us page is available to contact Admin for queries. There are three roles available: Visitor, User and Admin.

1.2 Background Study

The project was initially divided into 6 modules

1.Registration & Login Module : To make an online presence at the BookStack

2. Administrator Module : For the administrator to track total order, book availability, etc

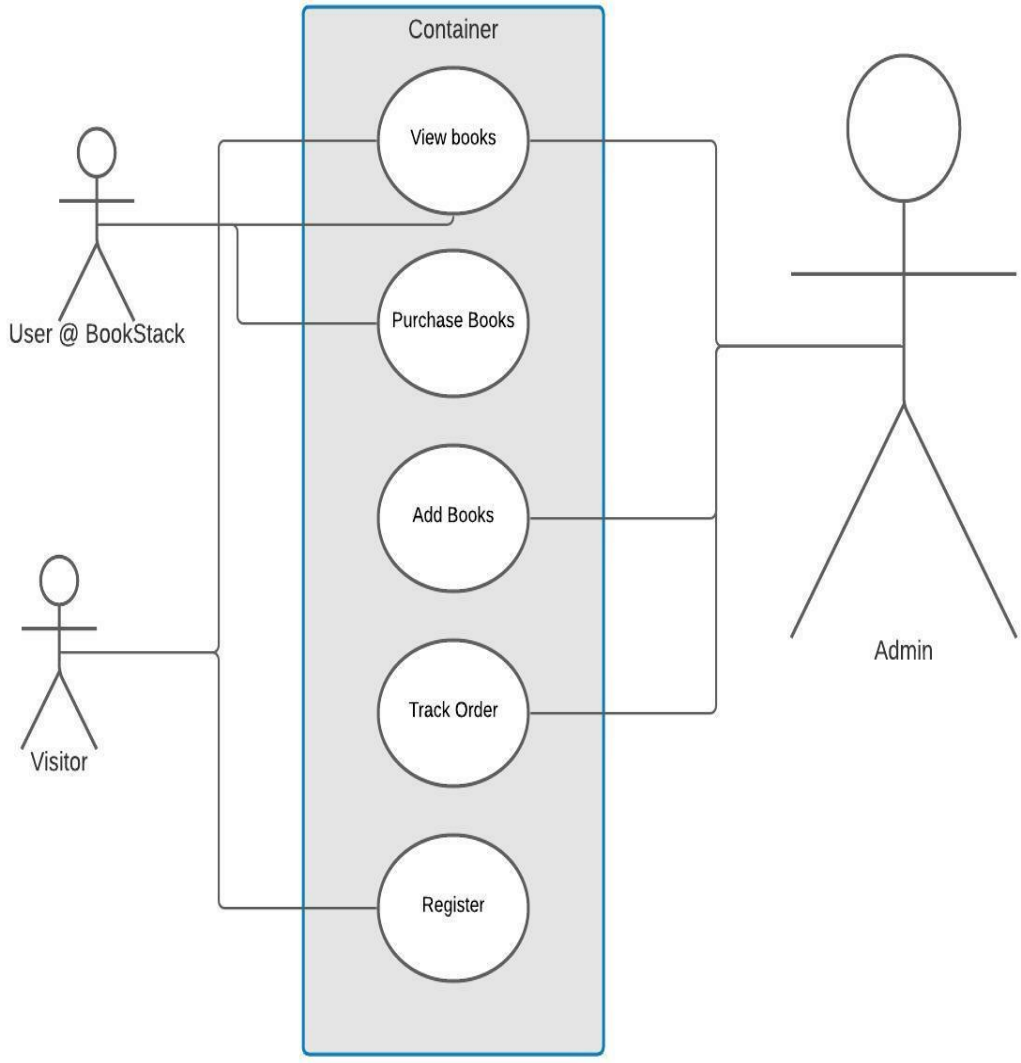
3. User Module : Functionalities of browsing,adding, purchasing.

4. Sales and purchase Module : Manages the Sales and purchase in the database

5.Inventory Module : Managed by the administrator module to edit the stocks of books available

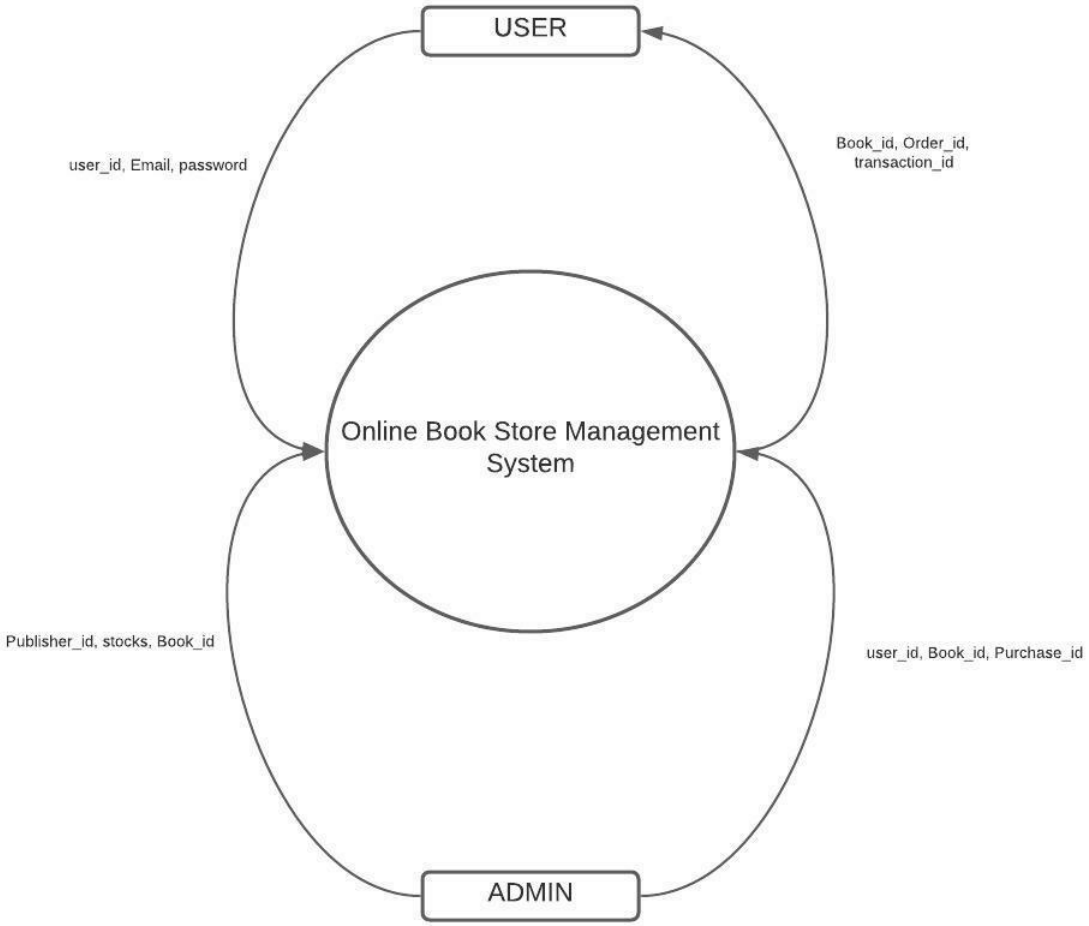
6. Payment Module : Managed by the administrator module

1.3 Use Case Diagram

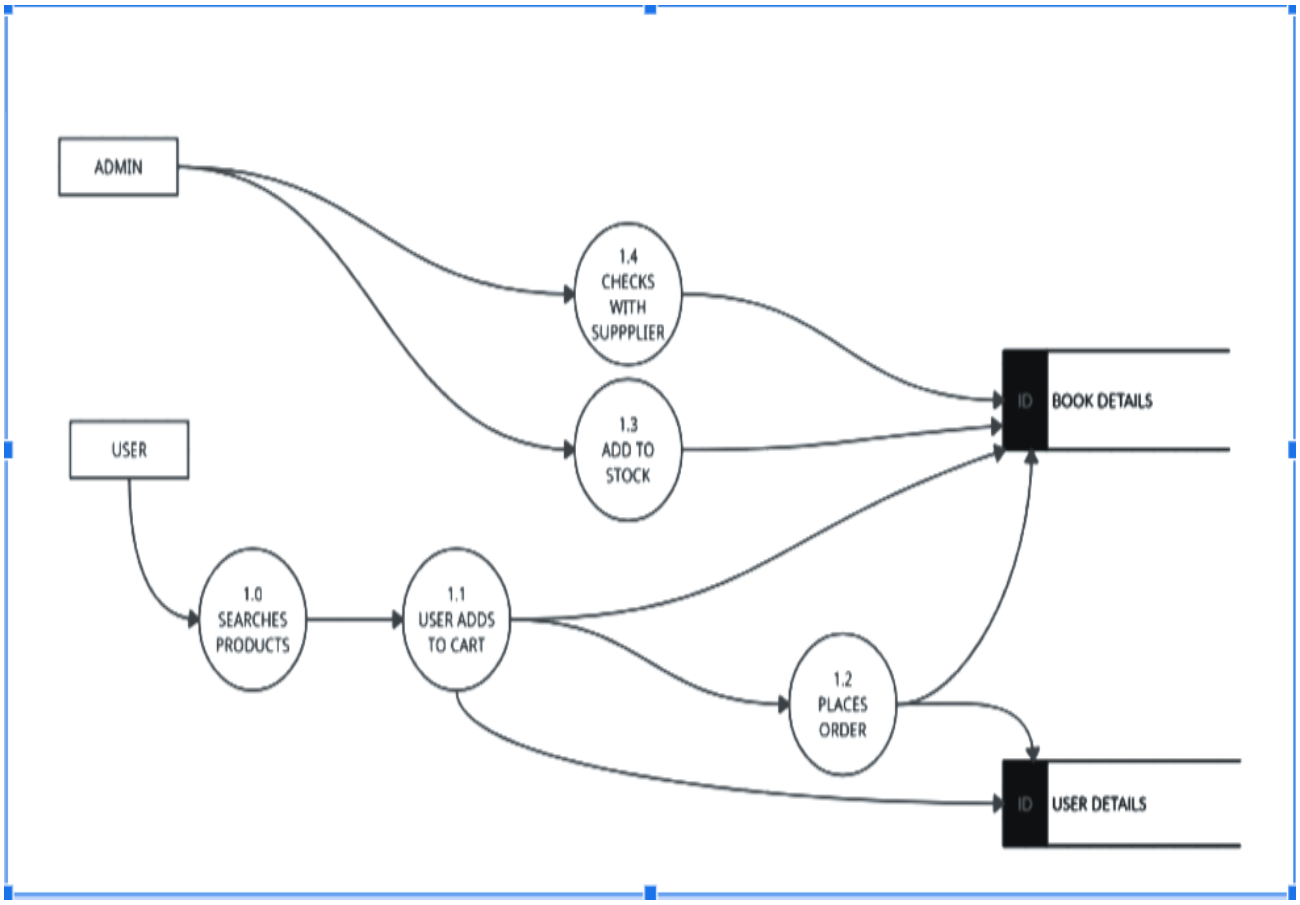


2. System Design

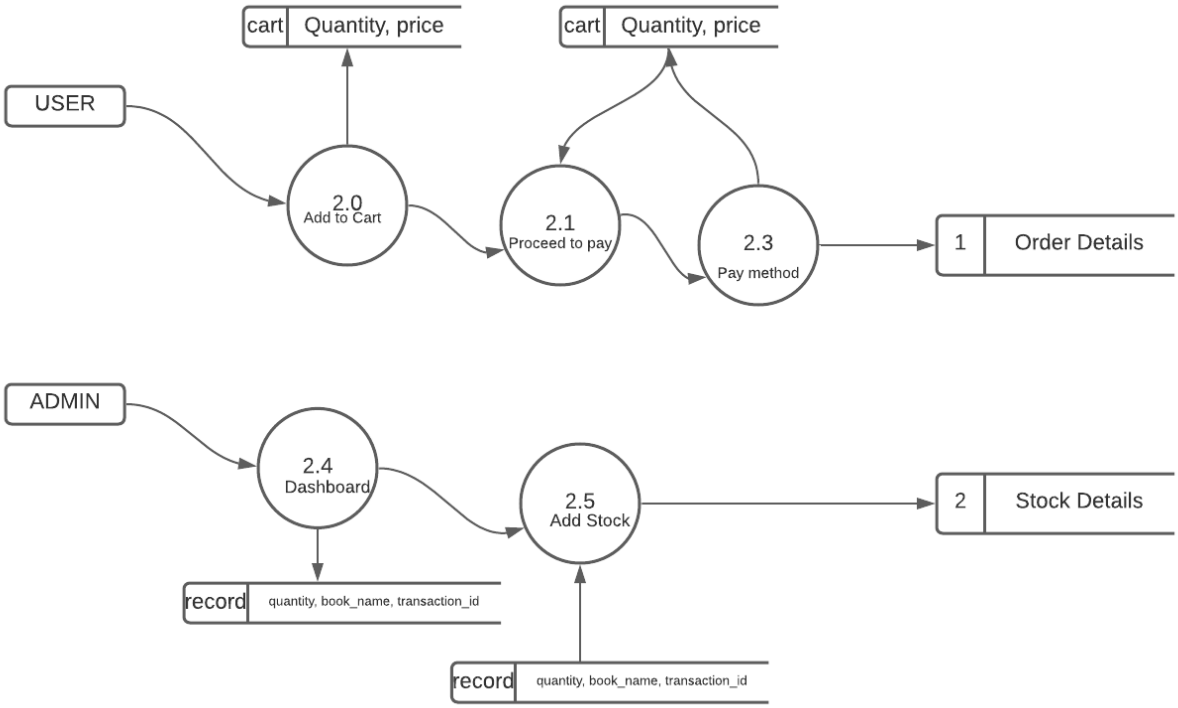
2.1 Context Level Data Flow Diagram



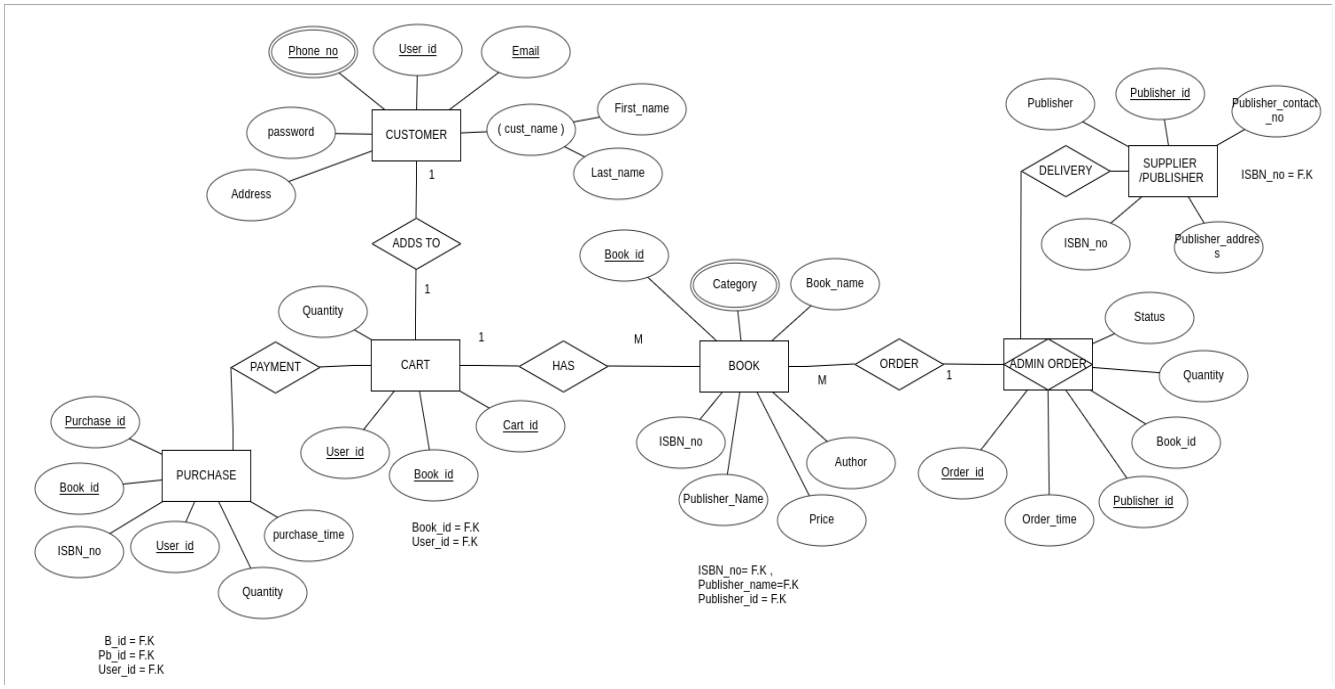
2.2 Level 1 Data flow diagram



2.3 Level 2 Data flow diagram



2.3 Entity relationship diagram



3. Hardware and Software requirements

Hardware requirements :

Desktop with

- ✓ 2GB RAM or above
- ✓ Intel Corei3 processor or above

Software requirements :

System with

- ✓ Windows OS or MacOs or Linux
- ✓ Windows OS : server setup can be WAMP or XAMPP
- ✓ MacOs : server setup using XAMPP
- ✓ Linux : server setup using LAMPP or XAMPP
- ✓ Compatible Browsers : Chrome, FireFox, Brave, Safari.
- ✓ Apache, PhpMyAdmin, MySQL

4. Problem Description

4.1 What the problem is

Buying books is not a daily necessity.

Where the availability of books, travelling to get the items, extra costs on miscellaneous becomes the problem. As one customer has to get his/her desired books has to search for it in a selected marketplace which also raises another problem statement which is the availability of the required item at the marketplace . That consumes time and makes the process slow.

Problems are :

- *Commute risks*
- *Miscellaneous costs*
- *Availability of the item*
- *Time, Slow process*
- *Security issues*

The purpose of any e-commerce website is to help customers narrow down their broad ideas and enable them to finalize the products

4.2 How BookStack solves the above problems

BookStack has approached the problem statement with the idea of an E-commerce application and making it come online.

Which minimizes a customer's travelling risks, cuts down the costs on travelling,packing etc. Readily shows the books of the choice online in its page. Smoothes the process of adding multiple books to their cart and choosing their preference of payment and getting it delivered at the doorstep. BookStack solves the availability of books at the Admin section. Where a new trending publisher/book can be added.

5. Solution Approach

5.1 Solving the problem

BookStack provides solutions to the aforesaid problems by :

- ✓ Digitizing the process of buying books online
- ✓ Cutting the risks and costs of travelling miscellaneous
- ✓ Prior information on availability of Books
- ✓ Easy purchasing
- ✓ Fast process
- ✓ Saves time
- ✓ Security issues

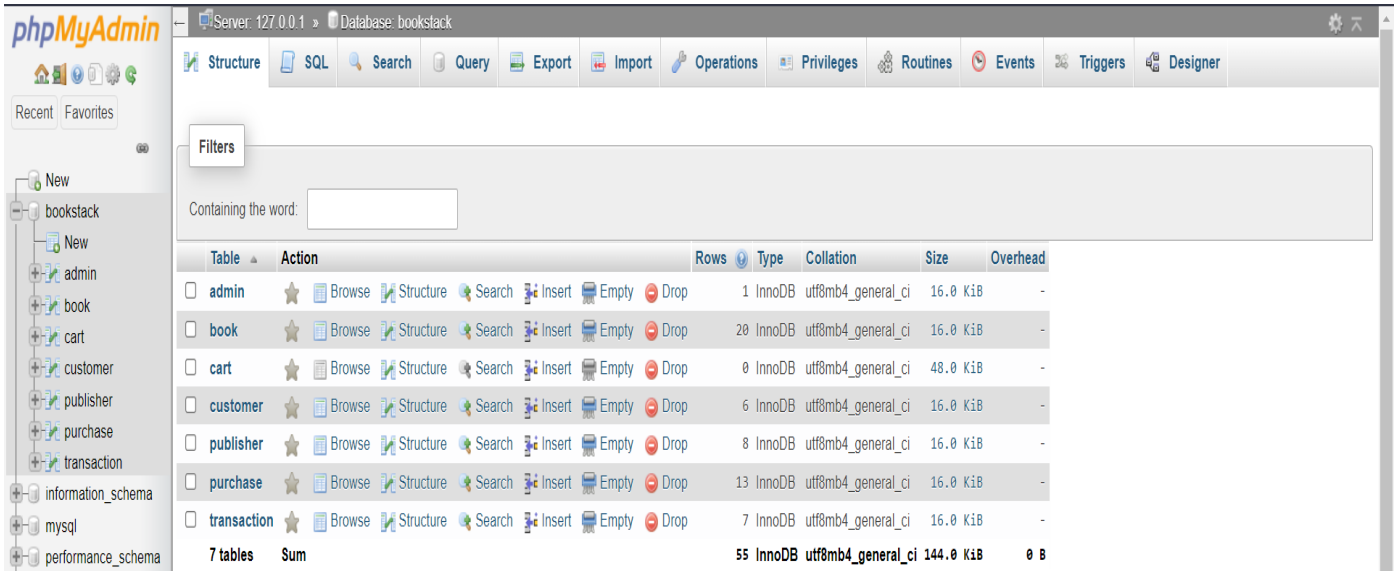
Approach to processes

Ecommerce website development is a lengthy and task-intensive project, with goals and hurdles that change along the way. Therefore it is very important to partner with an actual customer who follows agile processes that are continuously adapted and improved on the journey to suit the changing needs. Due diligence for quality assurance in processes also helps deliver predictable outcomes and more bang for your buck. The solution approach is basically to act out like a customer in terms of scalability of books, requirements of the client and it’s user experience.

6. Database Design

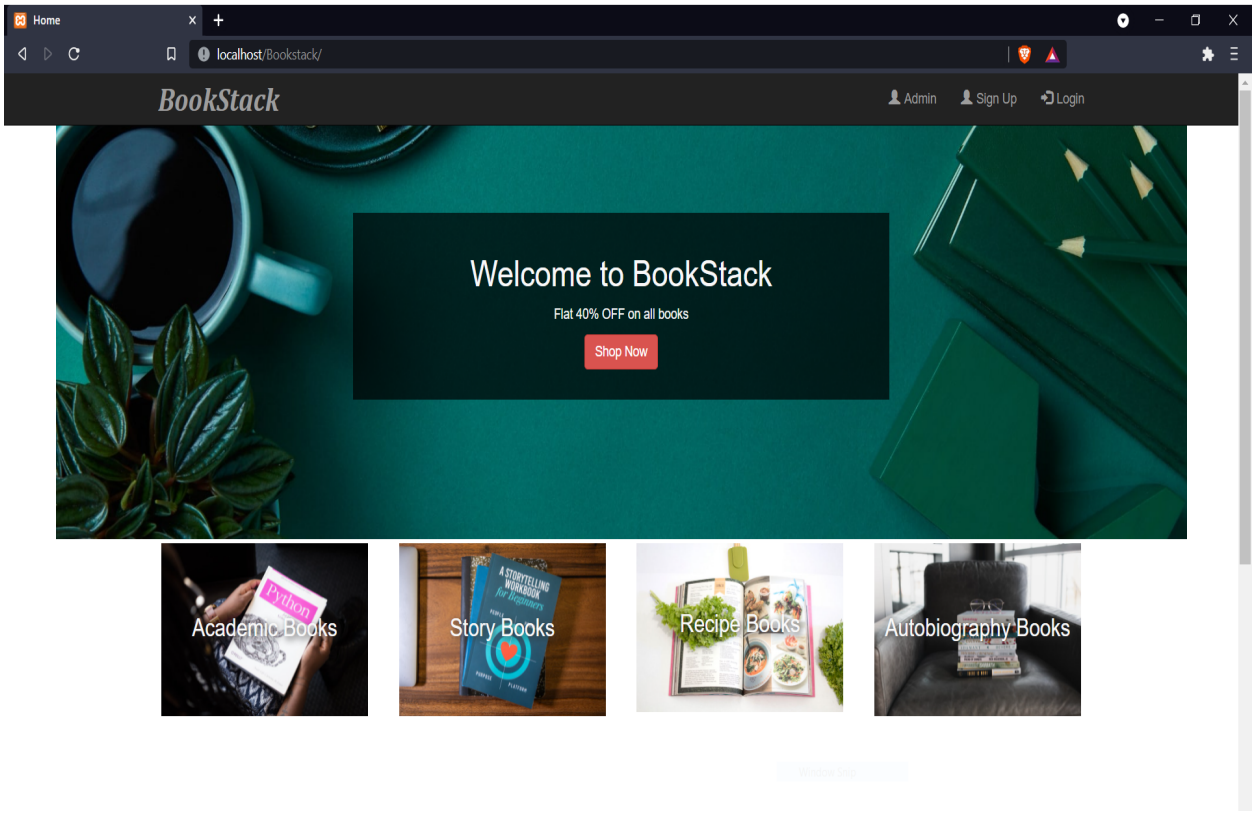
6.1 Relational Schema

1. customer (**User_id**, First_name, Last_name, Email, Password)
2. book (**Book_id**, Book_name, ISBN_no, Author, category, Publisher, Price)
3. cart (**Cart_id**,**User_id**, Book_id, Quantity, Total_price, status)
4. publisher (**Publisher_id**, Publisher_name, Publisher_contact, Publisher address)
5. purchase (**Purchase_id**, **Book_id, user_id**, Quantity, Total_Price)
6. transaction (**Transaction_id**, **Purchase_id**, Card_number, Pay_method, Total_Price, Billing_Adress, Transaction_timestamp)
7. Admin (**Admin_id**, Password)

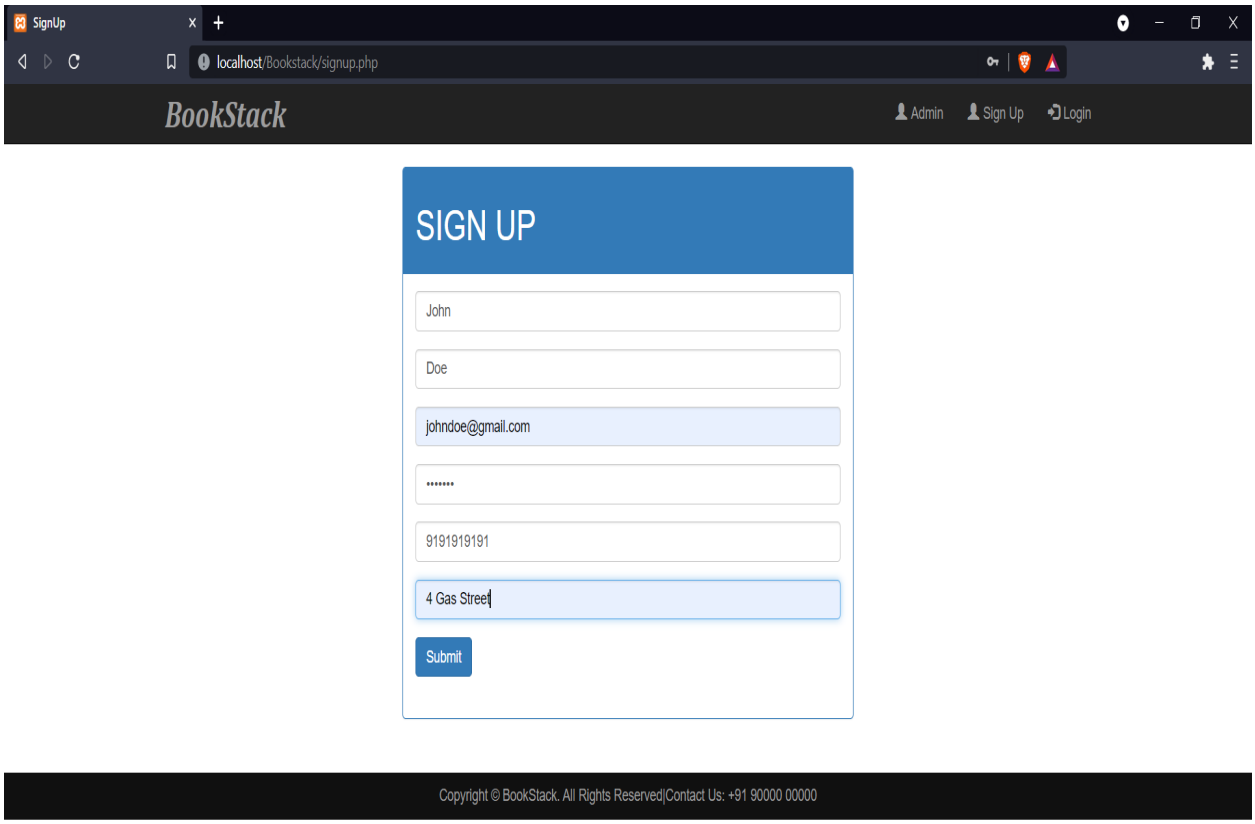


7. Screenshots

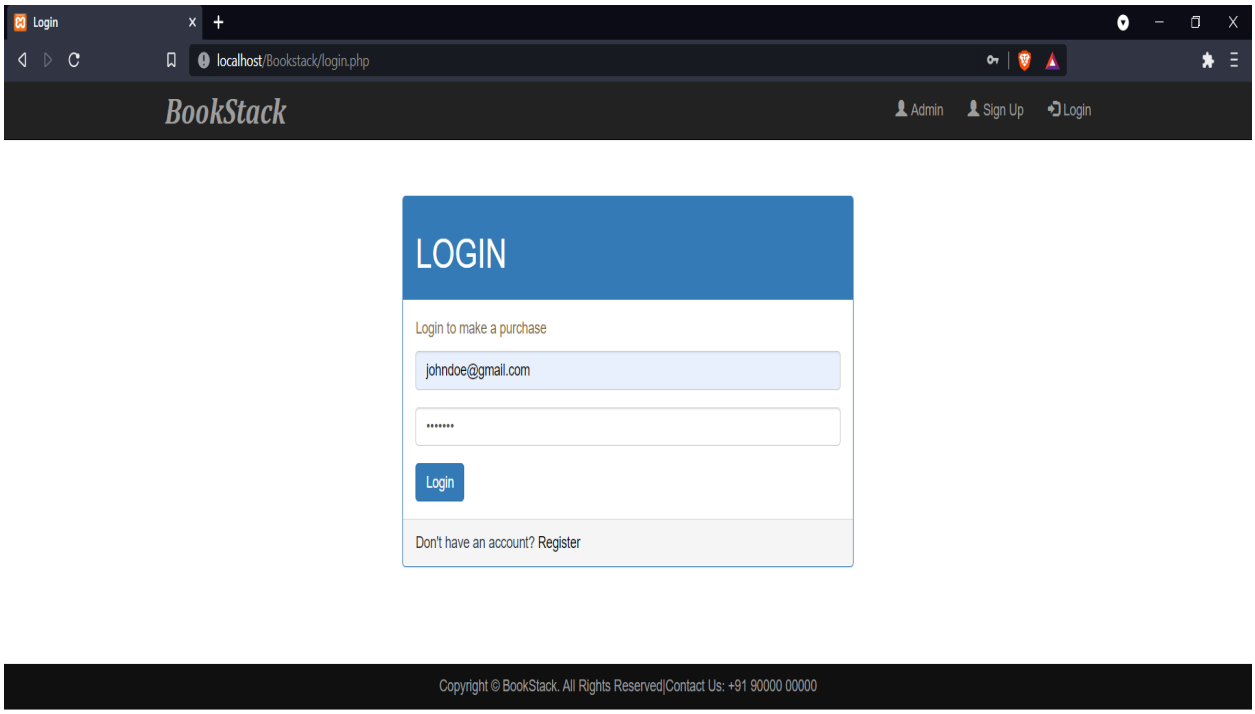
7.1 HomePage ⟶ Sign Up



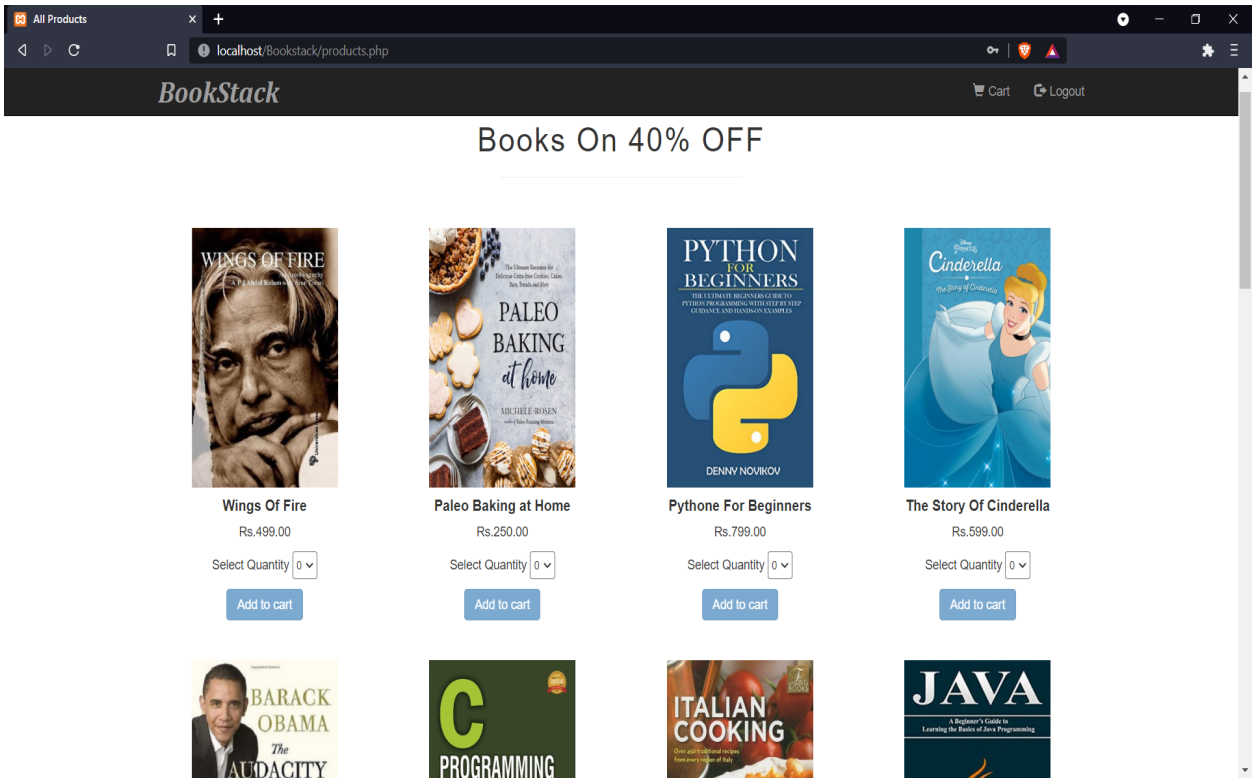
7.2 Sign Up ⟶ Login



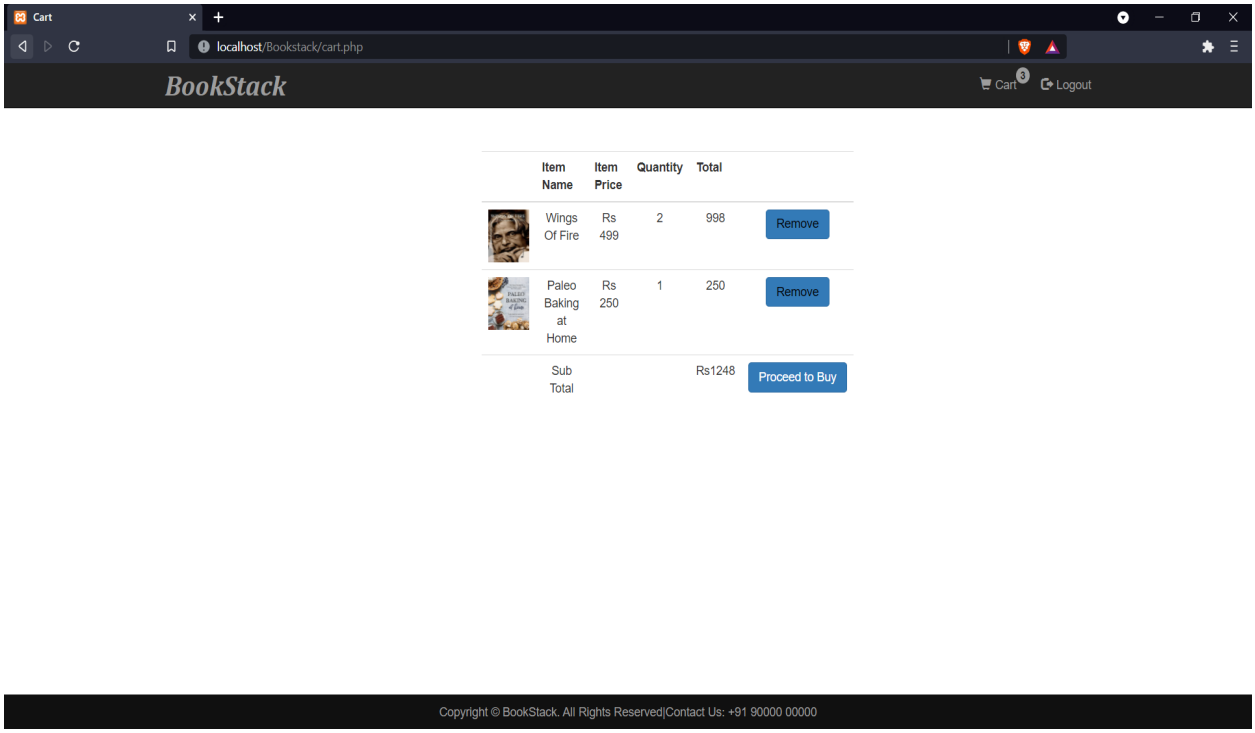
7.3 Login ⟶ Shop Now



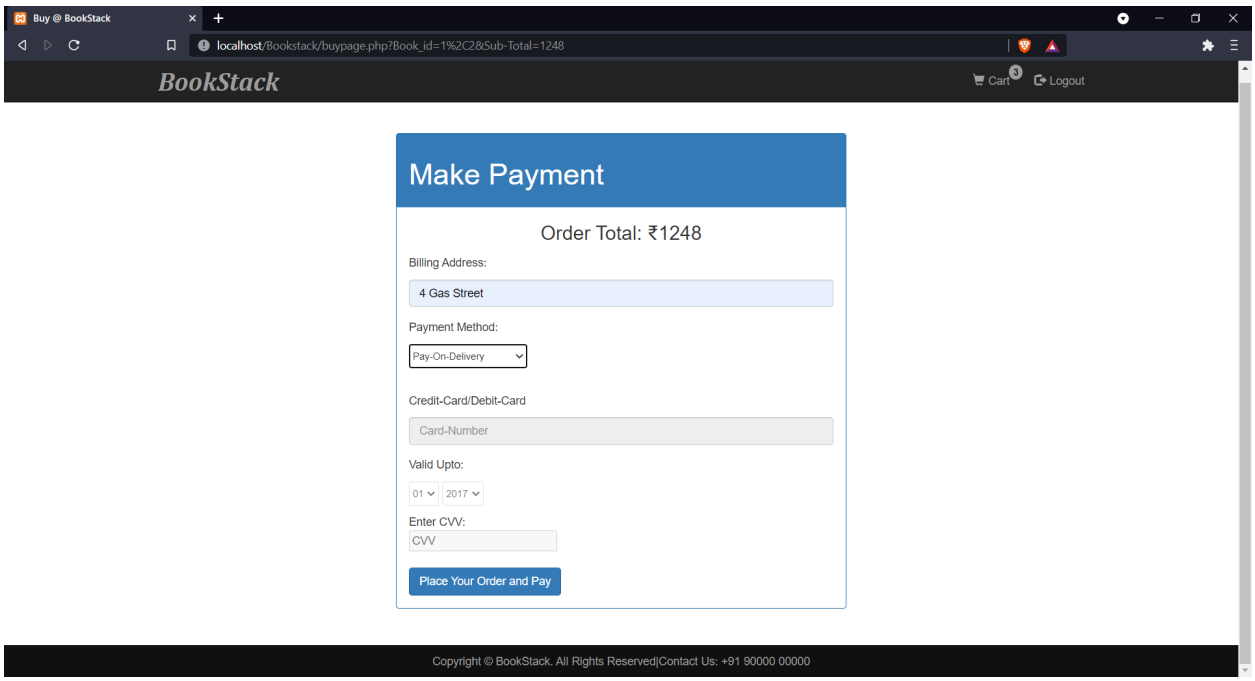
7.4 Shop Now ⟶ Add to Cart



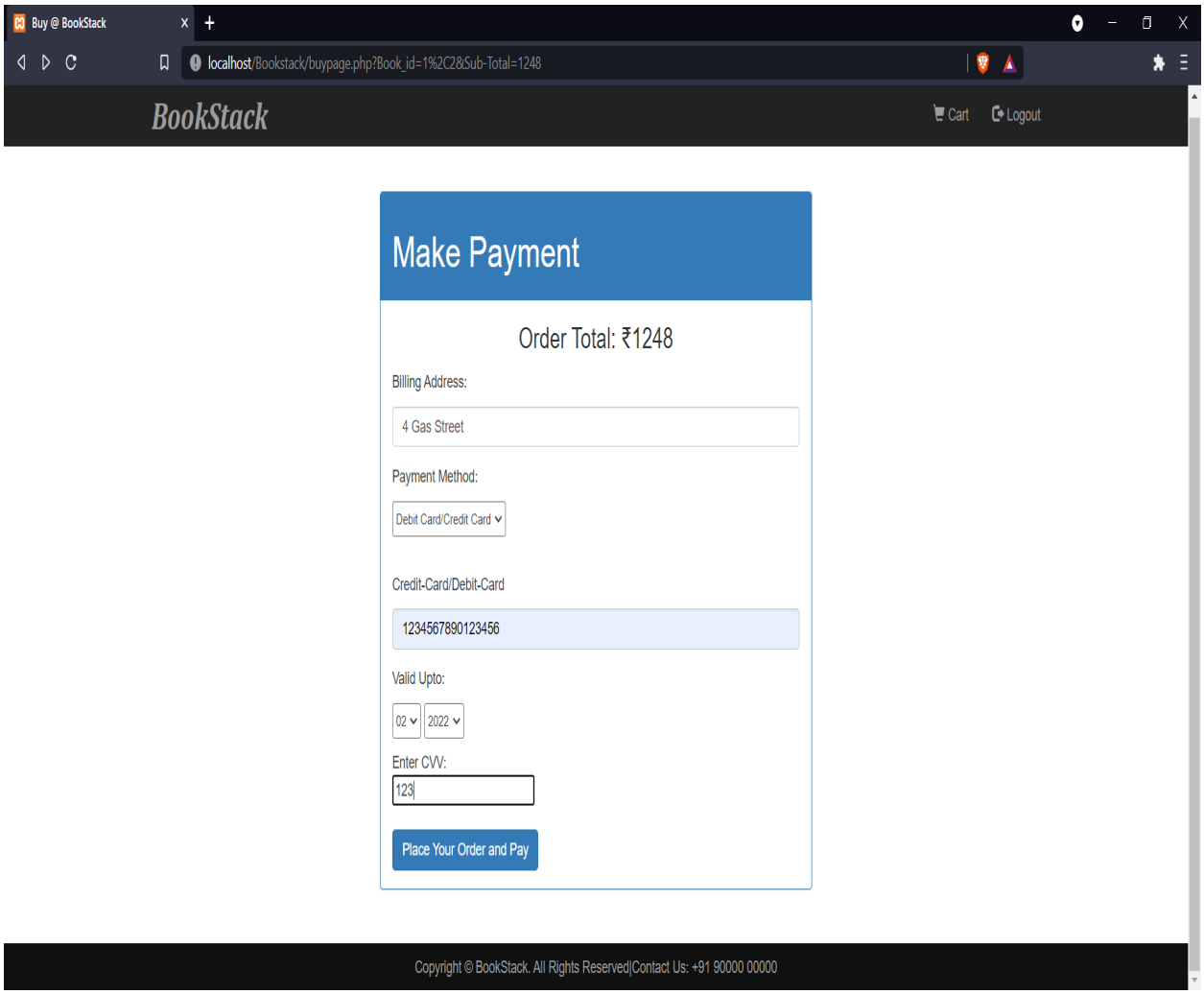
7.4 Cart ⟶ Proceed to Pay



7.5 Proceed to pay ⟶ Payment Page ⟶ Choice of payment



7.6 Choice of Payment (debit card) ⟶ Success page



7.7 Success Page

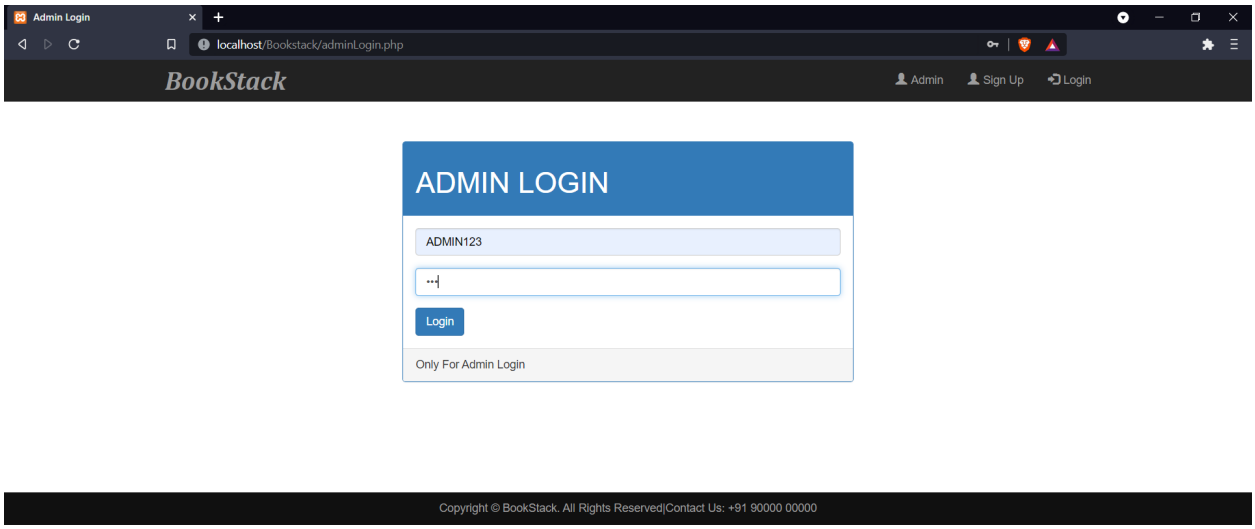
Your Order is Confirmed and Your Transaction is Successful!

Thank you for shopping with Bookstak. Click here to purchase any other item.

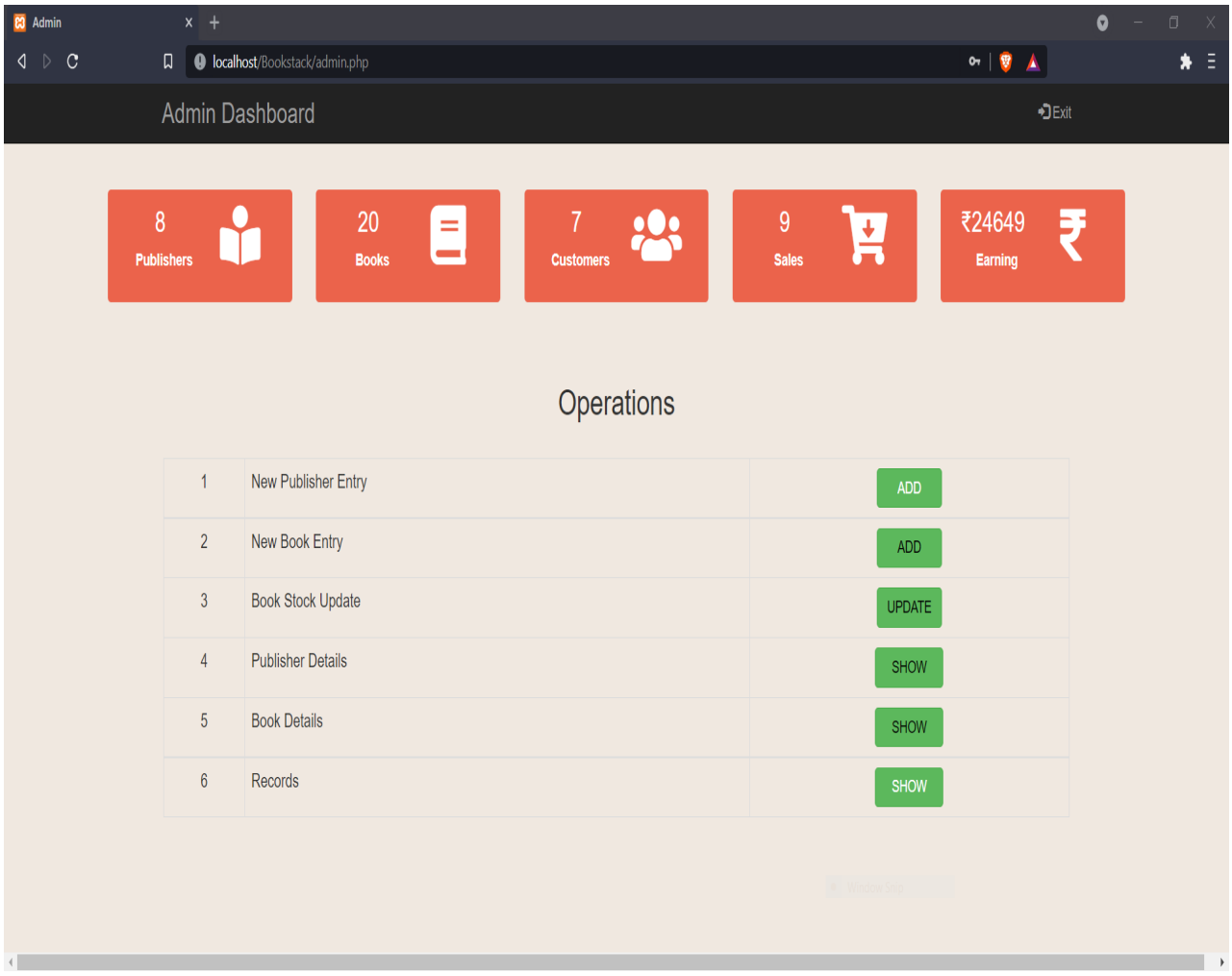
Your Order Details

Customer Name	John Doe
Billing Adress	
Purchase Id	PID611cbde0b9f60
Transaction Id	BSTK611cbde17b7de
Payment Method	Debit Card/Credit Card
Total Price	1248
Ordered Date	18 - Aug - 2021
Estimated Delivery Date	23 - Aug - 2021

7.8 Admin Login ⟶ Admin Dashboard



7.8 Dashboard



8. Conclusion

We have successfully implemented the site BookStack as a major project in software engineering.

In the future BookStack can be hosted on the web. We have enhanced the user experience quality and properly maintained the needs of the administrator. Finally we hope that this will go a long way in popularizing.

For its maintenance the database is to be regulated from time to time, all redundancy in the table must be improved. Newer version of php and MySQL can be used for upgradation of the website