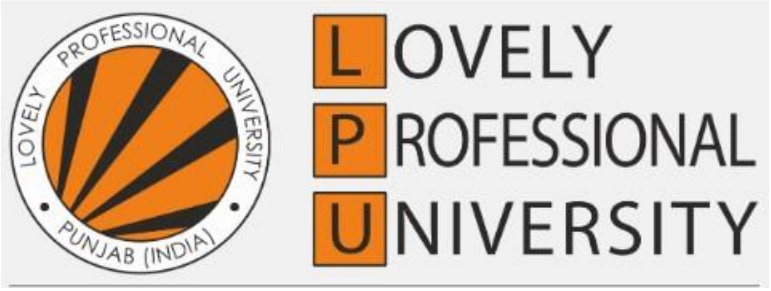

Online Book Store

INT220

Shubham Kumar Yadav

12211284

Submitted to: Avinash Kumar Singh

Revision History

Date	Description	Author	Comments
29/10/24	Version 1	Shubham	In Progress

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1. Introduction

Our online bookstore is a sophisticated platform developed using PHP and MySQL , aimed at transforming the traditional book purchasing experience. This web appli cation enables users to seamlessly browse, read, and purchase books online, offerin g significant advantages over conventional offline book stores.

1.1 Purpose

.

The purpose of our online bookstore is to provide users with a convenient, costeffective platform to read and purchase books anytime, anywhere, leveraging the p ower of PHP and MySQL for seamless transactions and personalized recommendat ions.

1.2 Scope

1)**Product Identification:**

Product Name: Online Book Store

2) **Product Description:**

Our online bookstore offers a vast collection of digital and physical books, providi ng an efficient and costeffective way to discover, read, and purchase literature anytime, anywhere. Utilizin g PHP and MySQL, it ensures a seamless, personalized, and secure user experience

3) **Application Description:**

Benefits, Objectives, Goals:

1) **User-Friendly Interface:** Our online bookstore provides an intuitive and accessible platform for users to easily browse, search, and purchase a wide range of books.
2) **Efficient Book Management:** Utilizing PHP and MySQL, the application ensures fast and reliable book catalog management, offering seamless updates and real-time availability.
3) **Personalized Experience:** The application leverages user data to provide personalized recommendations, enhancing the overall user experience by suggesting books based on individual preferences and reading history.

4) **Secure Transactions:** Implementing robust security measures, the application ensures safe and encrypted transactions, protecting user data and payment information throughout the purchasing process.

1.3 Definitions, Acronyms, and Abbreviations

PHP (Hypertext Preprocessor):

A widely-used open-source scripting language suited for web development and embedded into HTML to manage dynamic content, databases, and session tracking.

MySQL (Structured Query Language):

An open-source relational database management system (RDBMS) based on SQL, used for managing and organizing data in a structured format, supporting various operations such as querying, updating, and managing records.

1.4 References

1) **PHP Documentation**:

2) **MySQL Documentation:**

3) **W3Schools**:

1.5 Overview

Developed using PHP and MySQL, the online bookstore provides users with a mo dern, efficient platform to discover, read, and purchase books conveniently from th eir homes.

1) **User-Friendly Interface:** Simple navigation and search capabilities enhance user experience.
2) **Backend:** PHP is used for server-side scripting to handle dynamic content and user requests efficiently.
3) **Database Management:** MySQL ensures robust and scalable data storage, facilitating quick access to book information and user data.

2.General Description

Our online bookstore leverages PHP and MySQL to offer a user- friendly platform where customers can easily browse, read, and purchase a wide range of books. It provides a cost-
effective and convenient alternative to traditional bookstores, ensuring a seamle ss and personalized experience

2.1 Product Perspective

Our online bookstore seamlessly integrates modern web technologies to deliver a u ser-friendly, efficient, and secure platform for purchasing and reading books.

2.2 Product Functions

Book Browsing and Search:

Users can easily browse through various categories and genres or use the search functionality to find specific titles or authors.

Shopping Cart and Checkout:

Users can add books to their shopping cart and proceed through a secure checkout process to complete their purchase.

2.3 User Characteristics

Digital Natives:

Comfortable navigating digital platforms and performing online transactions with ease.

Avid Readers:

Passionate about reading and always on the lookout for new books and genres to explore.

Budget-Conscious Shoppers:

Seek affordable options and appreciate the cost savings from buying books online.

2.4 General Constraints

1)**Data Security:**
Ensure the protection of user data by implementing robust security measures and c omplying with data privacy regulations.

2)**Convenience Seekers:**

Prefer the ease of browsing and purchasing books from the comfort of their home, avoiding the need for physical store visits.

2.5 Assumptions and Dependencies

1) **User Internet Access**:

- It is assumed that users will have reliable internet access to browse, re ad, and purchase books on the platform.

2) **Device Compatibility**:

- The platform is assumed to be accessible and functional across variou s devices such as desktops, tablets, and smartphones.

3. Specific Requirements

User Registration and Authentication:

- Users must be able to register, log in, and manage their accounts secur ely.

Book Search and Filter:

- Users should be able to search for books by title, author, genre, and ot her criteria.

Shopping Cart and Checkout:

- Users must be able to add books to their shopping cart and complete p urchases through a secure checkout process.

3.1 External Interface Requirements

User Interfaces

Home Page: Provides easy access to various book categories, search functionality, and user account options.

Search and Browse: Allows users to search for books by keywords, categories, and filters.

Book Details Page: Displays detailed information about each book, including title, author, description, price, and user reviews.

Shopping Cart: Enables users to view selected books, adjust quantities, and proceed to checkout.

3.1.2 Hardware Interfaces

Web Server: Must handle web requests efficiently with adequate processing power, memory, storage, and network connectivity.

Database Server: Requires high performance, sufficient storage, backup solutions, and secure data protection.

Requirements: Minimum operating system of Windows 7 or higher, reliable network hardware.

3.1.3 Software Interfaces

Description: Integration with other software systems.

Components: PHP and MySql for backend services.

3.1.4 Communications Interfaces

Description: Ensures secure data communication.

Components: Network protocols and secure data transfer.

3.2 Functional Requirements

User Registration and Authentication:

Users must be able to register, log in, and manage their accounts securely.

Book Search and Filter:

Users should be able to search for books by title, author, genre, and other criteria.

Book Details and Reviews:

Each book listing must include detailed information, such as descriptions, author bios, and user reviews.

Shopping Cart and Checkout:

Users must be able to add books to their shopping cart and complete purchases through a secure checkout process.

3.5 Non-Functional Requirements

3.5.1 Performance

Requirement: 95% of transactions shall be processed within less than one second.

Measurement: System response times under peak load conditions.

3.5.2 Reliability

Requirement: System downtime shall not exceed 1 minute per day.

Measurement: Mean Time Between Failures (MTBF) must be greater than 30 days.

3.5.3 Availability

Requirement: The system must be available 99.9% of the time.

Measurement: System uptime monitoring and availability reports.

3.5.4 Security

Requirement: All patient data must be encrypted and access-controlled.

Measurement: Regular security audits and compliance checks with healthcare regulations.

3.5.5 Maintainability

Requirement: The system should allow for updates and maintenance without significant downtime.

Measurement: Mean Time to Repair (MTTR) should be less than 2 hours.

3.5.6 Portability

Requirement: The system must be able to operate on Windows 7 and higher.

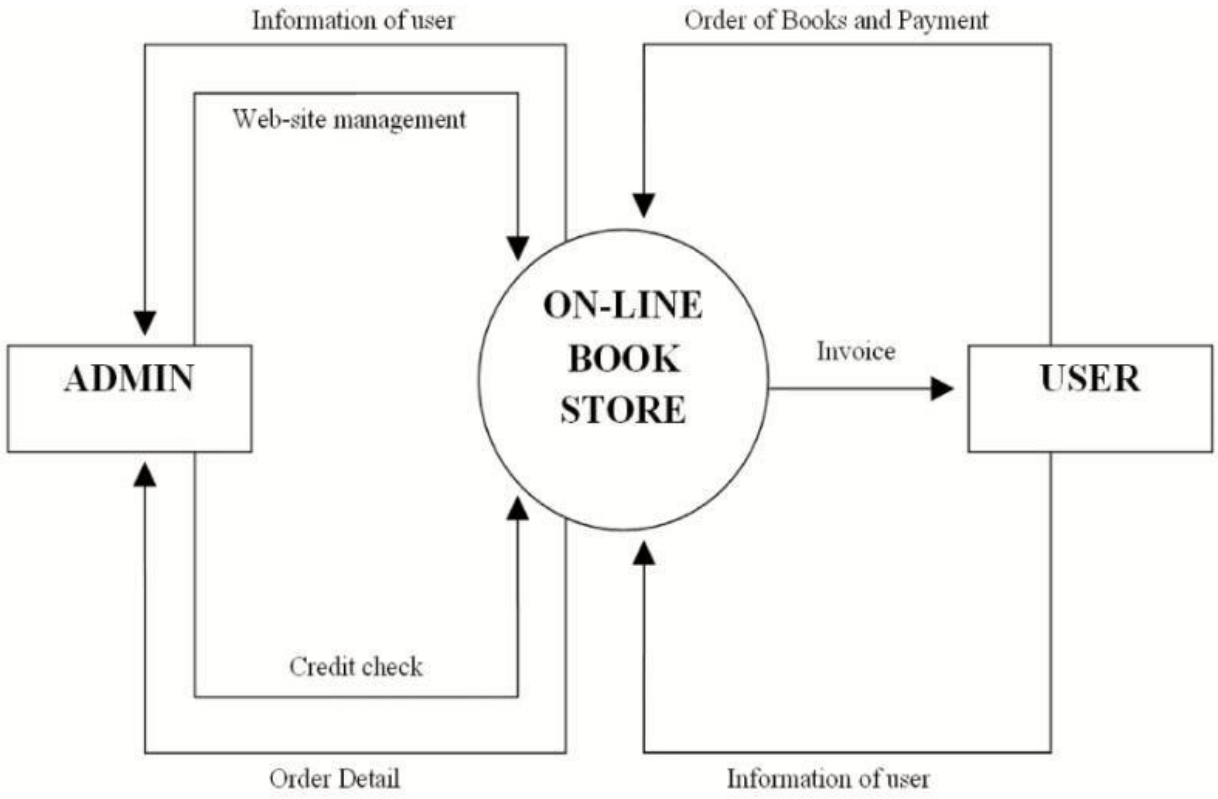
Measurement

4. Analysis Models

Introduction: An analysis model for the online bookstore involves identifying key s ystem components and their interactions. It includes use case diagrams to depict ho w users interact with the system, class diagrams to outline the structure of the syste m's data, and sequence diagrams to show the flow of operations. This model helps i n understanding the requirements, designing the architecture, and ensuring the syst em meets user needs efficiently.

4.1 Data Flow Diagrams (DFD)

Introduction: A Data Flow Diagram (DFD) is a visual representation of the flow of data within a system, illustrating how information is processed and transferred between different components. For the online bookstore, the DFD helps in mappin g out the interactions between users, the system, and various data stores, providing a clear overview of the system's functionality.



Client Approval Proof:

PROJECT NAME	Online Book Store		
JOB LOCATION	Remote		
EST. START DATE	1 Oct	EST. FINISH DATE	5 Nov
PROJECT LEADER	Shubham Kumar Yadav	COMPANY	Book Store
CONTACT NAME	Vikas Yadav	ADDRESS	Asuran Chowk, Gorakhpur 273006
PHONE	7052999646		
EMAIL	Vikasvy369@gmail.com		

SUMMARY	This website is a comprehensive Book Management System designed to easy access and purchase books from online store.
DESIRED OUTCOME	It aims to ease the process of accessing and purchasing books online.
ACTION TO COMPLETION	To design a user friendly interface and develop backend for same to ease the process of reading and purchasing books online.
BENEFITS OF PROJECT	It provides significant advantage such as all books at one place with option to purchase it .
PROJECTED SCHEDULE	Week 1: information gathering week2: UI/UX week3: frontend framework week 5-6 : backend integration using PHP.
PROJECTED BUDGET	Rs. 5000
PROJECTED TEAM AND RESOURCE REQUIREMENTS	UI/UX developer for design framework , frontend and backend developer for UI and database integration
PROPOSAL MAY BE WITHDRAWN IF NOT ACCEPTED BY DATE OF	4 Nov

Transaction Id Proof:

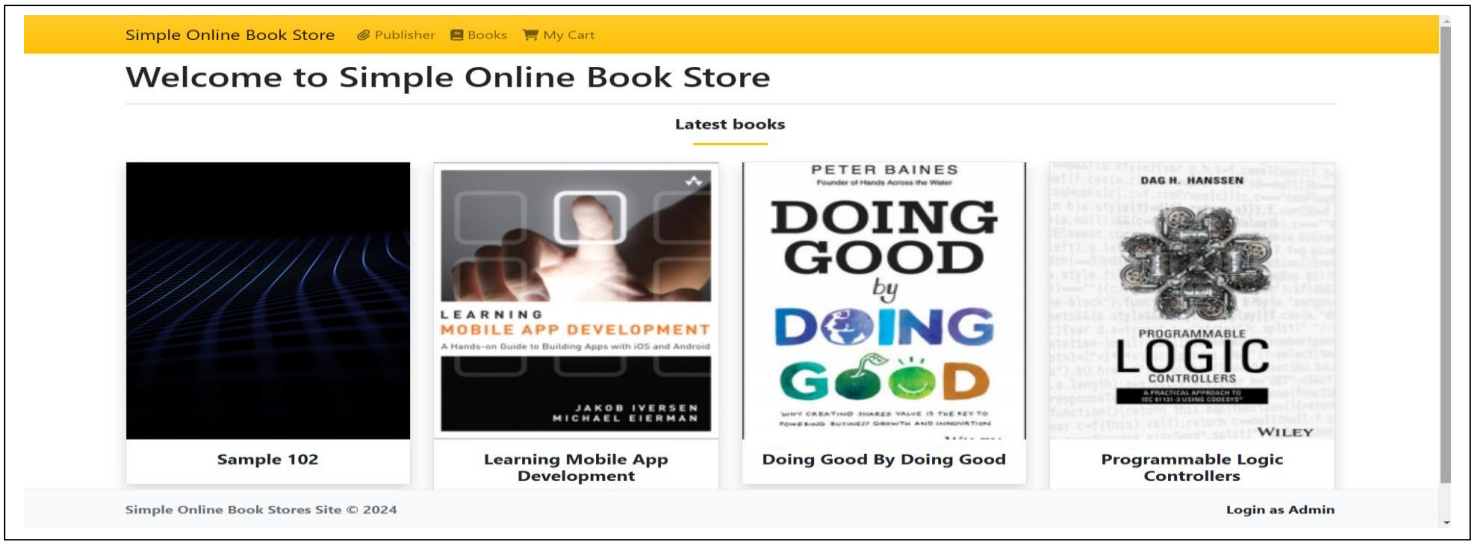
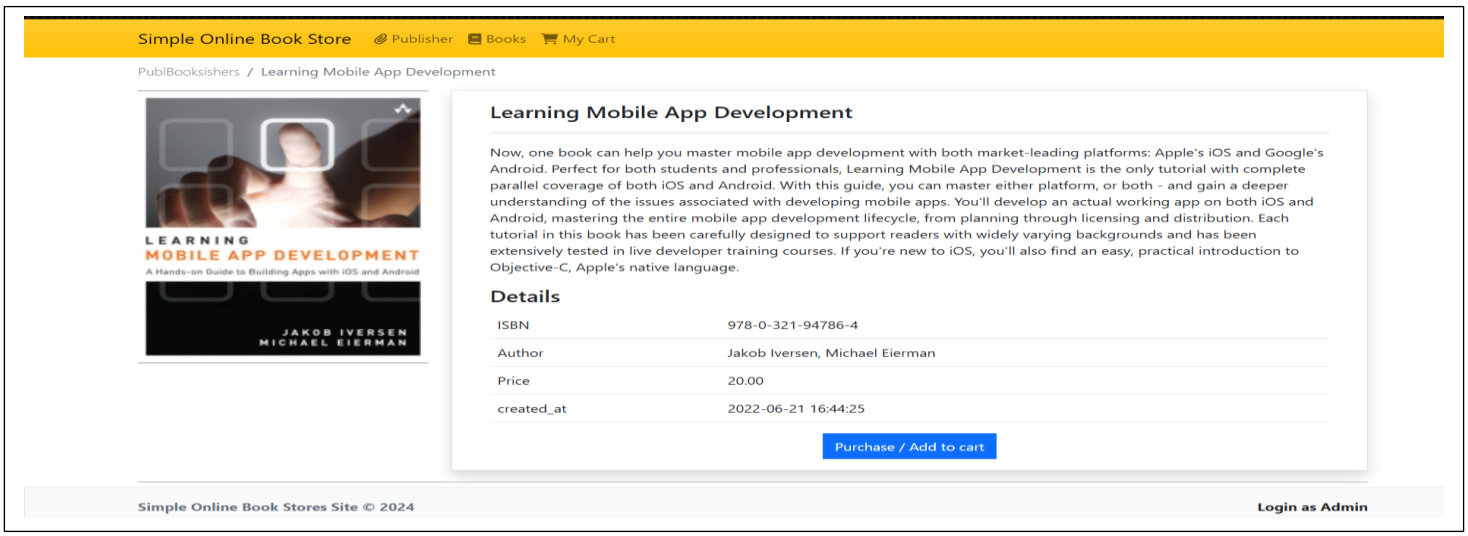
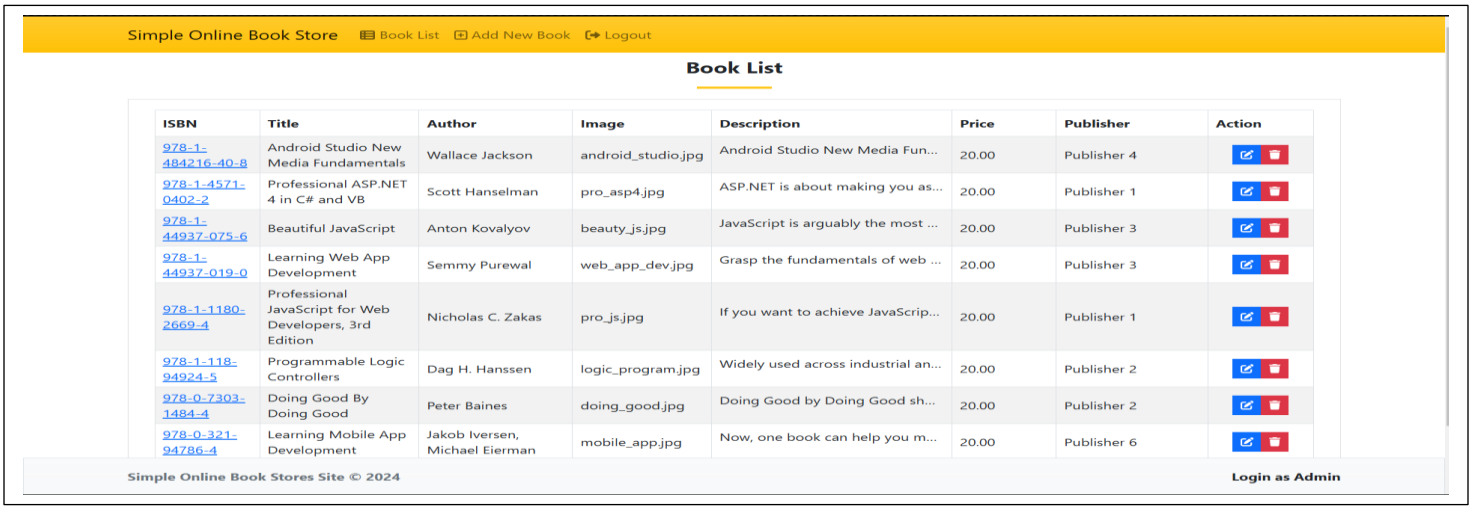
SBI

Account Name	: Mr. SHUBHAM KUMAR YADAV
Address	: S/O SURESH YADAV KALANI URF TARAWA PAKRI DUBEY GORAKHPUR-273413 09188:Gorakhpur
Date	: 29 Oct 2024
Account Number	: 00000040241645323
Account Description	: REGULAR SB NCHQ-INDIVIDUALS
Branch	: PADRI BAZAR
Drawing Power	: 0.00
Interest Rate(% p.a.)	: 2.7
MOD Balance	: 0.00
CIF No.	: 90769887076
CKYCR Number	:XXXXXXXXXX5976
IFS Code (Indian Financial System)	:SBIN0006504
MICR Code (Magnetic Ink Character Recognition)	: 273002017
Nomination Registered	: No
Balance as on 29 Oct 2024	: [redacted]

Account Statement from 29 Oct 2024 to 29 Oct 2024

Txn Date	Value Date	Description	Ref No./Cheque No.	Debit	Credit	Balance
29 Oct 2024	29 Oct 2024	TO TRANSFER-UPI/DR/430339535488/TRIECO /ICIC/cf.triecok/31834-	TRANSFER TO 4897692162094	15.00		13,458.51
29 Oct 2024	29 Oct 2024	TO TRANSFER-UPI/DR/430340429083/AVTARKU/YESB/q881353221/UPI-	TRANSFER TO 4897692162094	20.00		13,438.51
29 Oct 2024	29 Oct 2024	TO TRANSFER-UPI/DR/430336473616/HARKIS/YESB/q738330082/UPI-	TRANSFER TO 4897692162094	40.00		13,398.51
29 Oct 2024	29 Oct 2024	TO TRANSFER-UPI/DR/430357207463/VikasKu/SBIN/7052999646/UPI-	TRANSFER TO 4897692162094	5,000.00		8,398.51
29 Oct 2024	29 Oct 2024	BY TRANSFER-UPI/CR/430316277433/VikasKu/SBIN/7052999646/Sent-	TRANSFER FROM 4897734162099		5,000.00	13,398.51

Please do not share your ATM, Debit/Credit card number, PIN (Personal Identification Number) and OTP (One Time Password)

ZeeCare-Hospital Management System

OVERVIEW: