# ONLINE BOOK STORE

A
Project Report on
ONLINE BOOKSTORE

**Bachelor of Engineering**
In
**Computer Science & Engineering**

Submitted to
**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA,
BHOPAL (M.P.)**

**Guided by**                                        **Submitted By**
Prof. Deepa Vyas                             Purvi Bhawsar (0875CS171109)
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**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
SHIVAJIRAO KADAM INSTITUTE OF TEACHNOLOGY AND MANAGMENT
INDORE (M.P.) 452001
2019-2020**

# Declaration

I hereby declared that the work, which is being presented in the project entitled "**Online Book Store**" partial fulfillment of the requirement for the award of the degree of **Bachelor of Engineering**, submitted in the Department of Computer Science & Engineering at **Acropolis Technical Campus, Indore** is an authentic record of my own work carried under the supervision of "**Prof. Deepa Vyas**". I have not submitted the matter embodied in this report for award of any other degree.

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# Project Approval Form

I hereby recommend that the project prepared under my supervision titled by **Online Book Store** be accepted in partial fulfilment of the requirement for the degree of Bachelor of Engineering in Computer Science & Engineering.

<div align="right">

Prof. Deepa Vyas

Supervisor

</div>

Recommendation concurred in 2020

Prof.Nisha Bhati

**Project In-charge**

Dr.Kailash Bandhu

**Project Coordinator**

# Shivajirao Kadam Institute of Technology & Management – Technical Campus

## Department of Computer Science & Engineering



# Certificate

The project work entitled **Online Books Store** submitted by **Nirmal Sen (0875CS171094), Purvi Bhawsar(0875CS171109), Kushal Vaishnav(0875CS171073), Kirtish Ajmera(0875CS171068)** is approved as partial fulfillment for the award of the degree of Bachelor of Engineering in Computer Science & Engineering by Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal (M.P.).

**Internal Examiner**                                   **External Examiner**

Name:………………                           Name: ……………..

**Date: …./…/………..**                       **Date: …./…/………..**

# Acknowledgement

With boundless love and appreciation, we would like to extend our/my heartfelt gratitude and appreciation to the people who helped us/me to bring this work in reality. We would like to have some space of acknowledgement for them.

Foremost, our would like to express our/ my sincere gratitude to our supervisor, Prof Deepa Vyas whose expertise, consistent guidance, ample time spent and consistent advices that helped us/me to bring this study into success.

To the project in-charges Prof.**Nisha Bhati** for their constructive comments, suggestions, and critiquing even in hardship. I also want to thank project coordinator **Dr**.**Kailash Bhandhu** for letting my work be an enjoyable moment and for your brilliant comments and suggestions.

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To the honorable **Dr. Sanjay T. Purkar**, Principal, ATC, Indore for his unending support, advises and effort to make possible.

Finally, we would like to pay my/our thanks to faculty members and staff of Department of Computer Science & Engineering for their timely help and support.

We also like to pay thanks to our **parents** for their eternal love, support and prayers. Without them it is not possible.

<div align="right">

Purvi Bhawsar (0875CS171109)
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# Abstract

The main objective of the project is to create an online book store that allows users to a search and purchase a book online based on title, author and subject. The selected books are displayed in a tabular format and the user can order their books online through credit card payment mode or through the medium of PayPal. Using the website the user can purchase a book online instead of going out to a book store and wasting time. There are many online book stores like Powell's, amazon which were designed using HTML .I want to develop a similar website using PHP, SQL Server. Online book store is an online web application where the customer can purchase books online .Through a web browser the customer can search for a book by its title or author, later can add to the shopping cart and finally purchase using credit card transactions the user can login using his account details or new customers can set up a account very quickly .They should give the details of their name ,contact number and shipping address. The user can also give feedback to a book by giving ratings on a score of five. The books are divided into many categories based on subject like software, database, English, architecture etc.The online book store website provides customers with online shopping through a web browser .A customer can ,create ,sign in to his account ,place items into a shopping cart and purchase using his credit card details or through PayPal medium. The Administrator will have additional functionalities when compared to the common user he can add, delete and update the book details, book categories, member information and also confirm a placed order.

# Table of Content

# Chapter 1 : Introduction

An online book store software projects that acts as a central database containing various books in stock along with their title ,author , and cost .This project is a website that act as a central book store .

This web project is developed using PHP as the front and python as an back end.

The sql database stores various book related details

The user may even search for specific books on the website .Once the user selects a book, he then has to fill a form and the book is booked for the user .

## 1.1 Rationale

Justification why project is been chosen. Go through Synopsis Format shared with you before start of this semester.

## 1.2 Goal

The goal of the project is to manage the details of books ,stocks ,order ,payment .It manages all the information about books bill, payment , books .The goal of the project is totally built at administrative end and thus only the administrative is guaranteed the access. The goal of the project is to build an application program to reduce the manual work, time saving, stocks of book, bills. It tracks the details about the customer, order, payment.

       (a) To provide a facility for different kinds of book under one shelter.

       (b) To provide a book in a computablerange.

       (c) To conserve customers time.

## 1.3 Objective

The main objective of the online book store is to manage the details of books, customer, payment, delivery, bills .It manages all the information about books, stock, bills, books .The project is totally built at administrative end and thus only the administrator is guaranteed the access.

(a) Provides the searching facilities based on various factors such as books, payment, delivery, bills.

(b) Find out difference between the traditional E-commerce website shopping portal and our built shopping portal.

(c) Propose a faster solution for finding there desired book and delivery within a particular time period as promised.

(d) Shows the information and description of the books ,payment .

(e) Integration of all record of bills.

## 1.4 Methodology

We will prepare a database for storing the data related to book and customers the method steps would be -:

Data element content -:

1)id 2)name 3)username 4)password 5)date 6)entity name : book 7)price 8)discount9)stock 10)book id

## 1.5 Role

Nirmal Sen

Synopsis

Presentation

Development and testing

Purvi Bhawsar

Synopsis

Presentation

Development and testing

Kushal Vaishnav

Synopsis

Presentation

Development and testing

Kirtish Ajmera

Synopsis

Presentation

Development and testing

## 1.6 Contribution of Project-:

Kushal vaishnav                          PurviBhawsar

Problem Domain                          Application Domain

Kirtish Ajmera                          Nirmal Sen

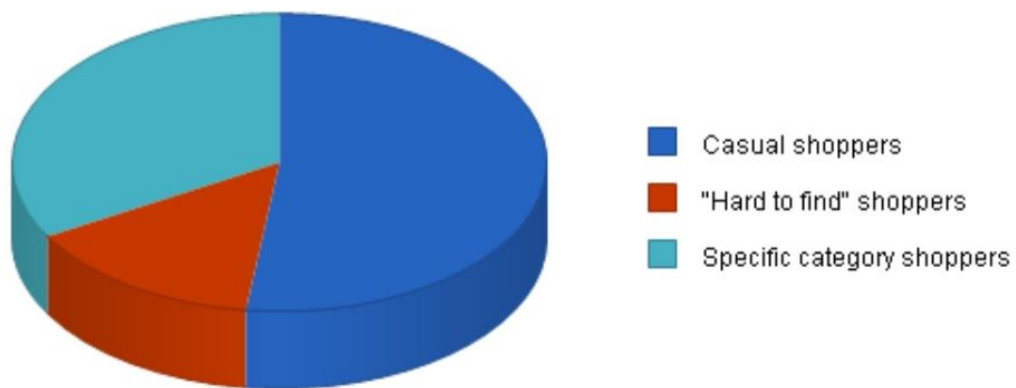System Domain                          Solution Domain

### 1.6.1 Market Potential-:

Our market is facing a decline in growth over the past two years as the boom of E-commerce which is the major cause of decline in economy. The growth of digitalization in India and in the whole world will weaken the present market potential. So as to increase the facility for the consumers and to strengthen the economy we have to be fully digitally equipped and lead people and people life's towards better future. According to the present facts Book store industry sales rose only3.6% for 2015 whereas overall INR sales grows up to 4.3%. Management highly believes that the advantage to the used bookstore industry. As customers cut back on purchasing, used bookstores will look more attractive to customers who still wish to purchase books. Therefore, we confidently believe that in India it is a better time to get into these industry and gain prosperity.

The following table and pie graph show how our market segments are broken up into size and relative percentages. We use the city of Brecksville census information to determine growth figures.

Market Analysis (Pie)



- Casual shoppers
- "Hard to find" shoppers
- Specific category shoppers

### 1.6.2 Innovativeness

In our project ONLINE BOOKSTORE we will provide books on each and every sectors of our Indian education department that may be primary sector of education, secondary sector of our education ,graduation sector ,post-graduation ,books on development of a person ,books on technology for research level ,books used in music industry ,books on facts and figures for upcoming opportunities ,books based on organic industry, books on different types of business at the end I can conclude that the we will provide books on each any industry which are presently running.

### 1.6.3 Usefulness-:

This will help us to reduce the costing of book purchasing, it will save our time ,desired books ,product quality will also be maintained ,the organization will obviously be able to gain benefits such as saving in operating cost, reduction in paperwork , better utilization of human resources and more presentable image increasing good will.

# Chapter 2 : Requirement Engineering

**Requirements engineering (RE)** refers to the process of defining, documenting, and maintaining requirements in the engineering design process. Requirement engineering provides the appropriate mechanism to understand what the customer desires, analyzing the need, and assessing feasibility, negotiating a reasonable solution, specifying the solution clearly, validating the specifications and managing the requirements as they are transformed into a working system. Thus, requirement engineering is the disciplined application of proven principles, methods, tools, and notation to describe a proposed system's intended behavior and its associated constraints.

## 2.1 Requirement Collection

### 2.1.1 Collection Type 1

User Can Perform: -  1-Visit a website

2- Search books

### 2.1.2 Collection Type 2

Customer Can Perform: -  1-Visit website

2-Search books

3-Buy Books

### 2.1.3 Collection Type 3
Admin Can Perform: -  1-Add Products

2 -Delete Products

## 2.2 Requirements

### 2.2.1 Functional Requirement

- Register**:**It add new user and update all medical information.

- Login valid**:** It validates the user id & password.

- View profile**:** It display the information regarding different

  who have registered?
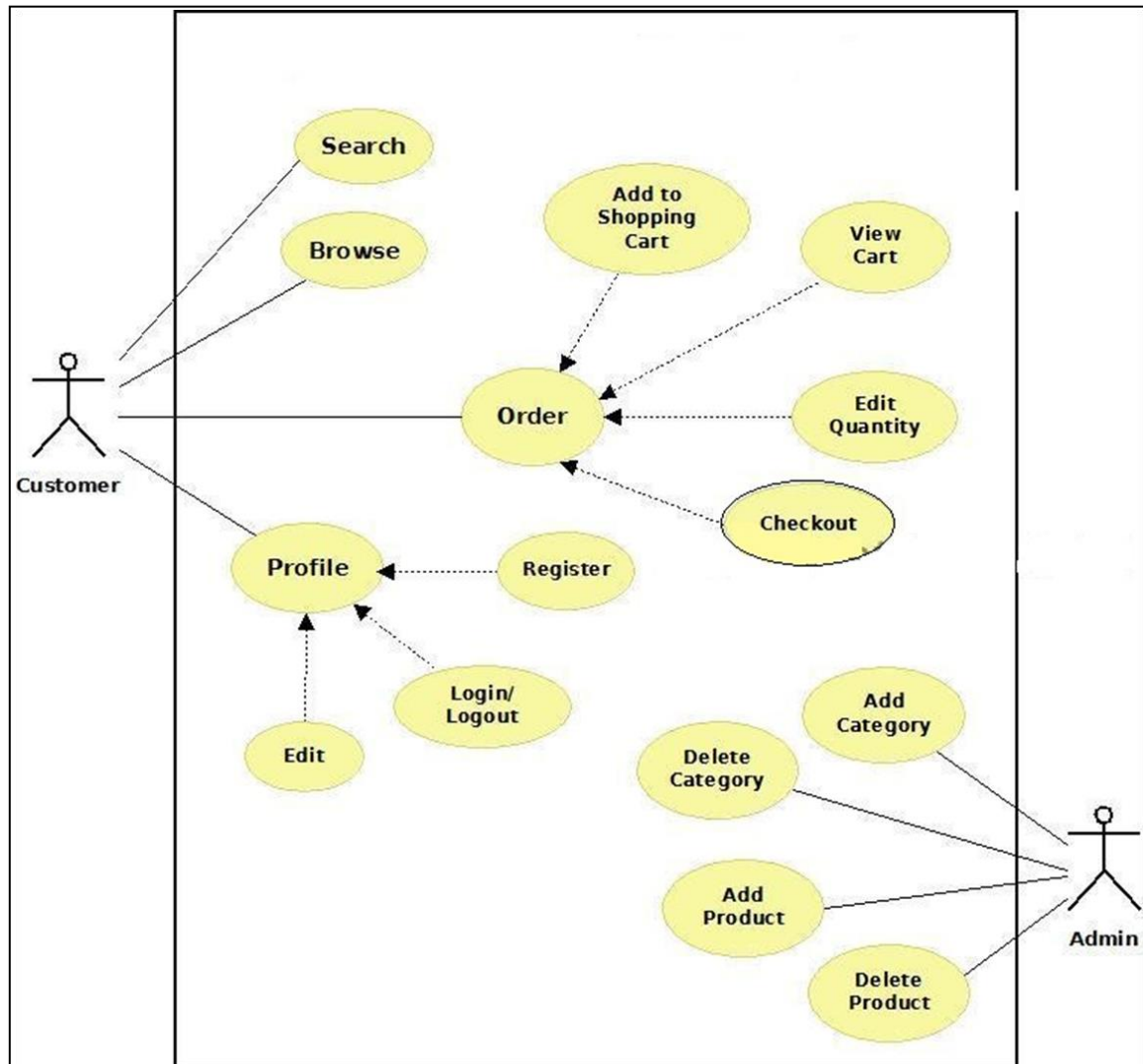
- View Books**:** It display the book information**.**

## 2.2.2 Nonfunctional Requirements

1:The bookstore accepts orders over the Internet.

2.The bookstore shall provide password protection for all accounts.

3.The bookstore shall provide a secure means of allowing customers to pay by credit card.

4. The bookstore shall maintain reviews of books, and allow anyone to upload review comments

5. The bookstore shall provide the ability to search the book catalog.

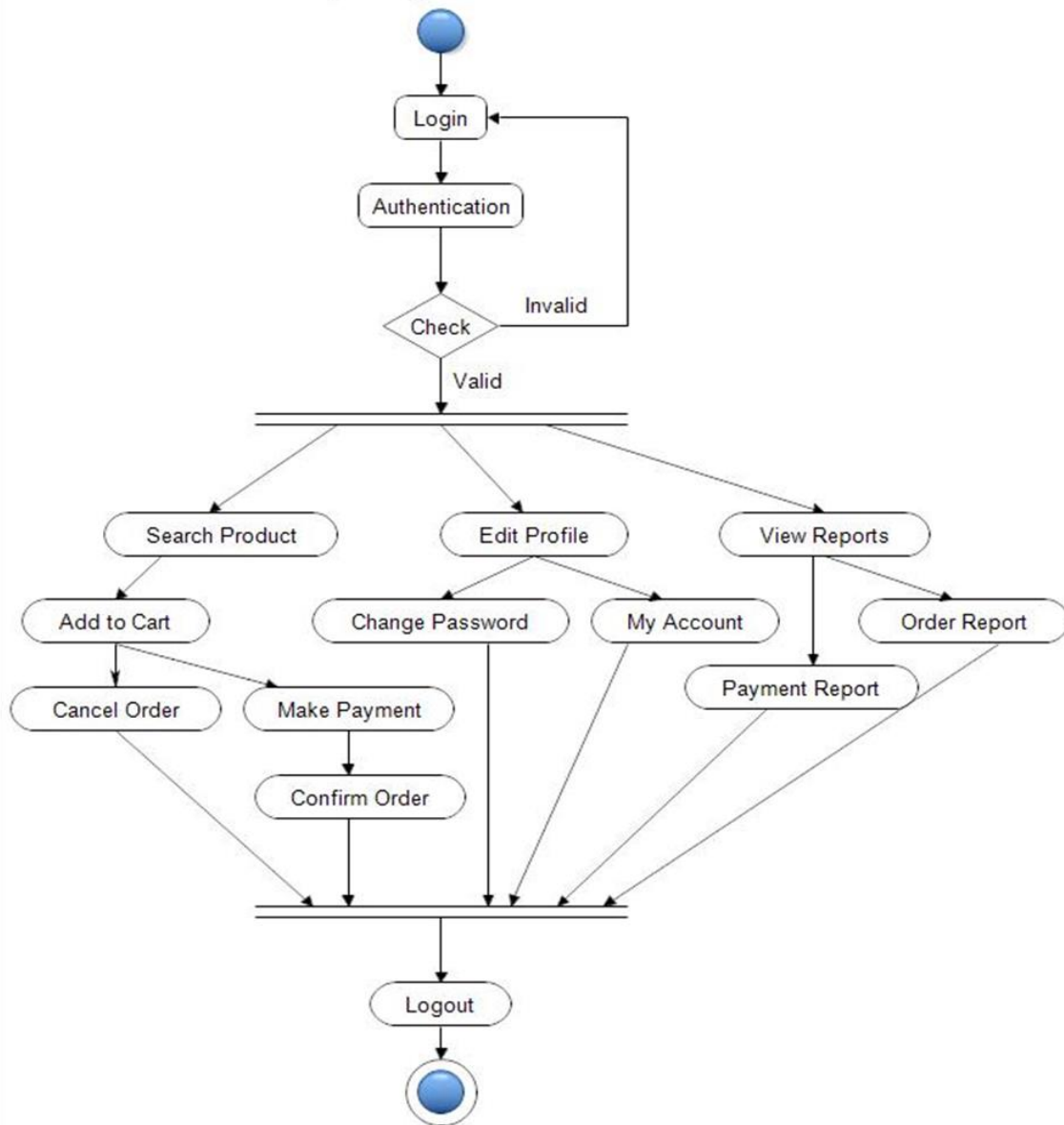# Chapter 3 : Analysis & Design

## 3.1 Use-case Diagrams

Description- About the functionalities of our project through use case diagram.
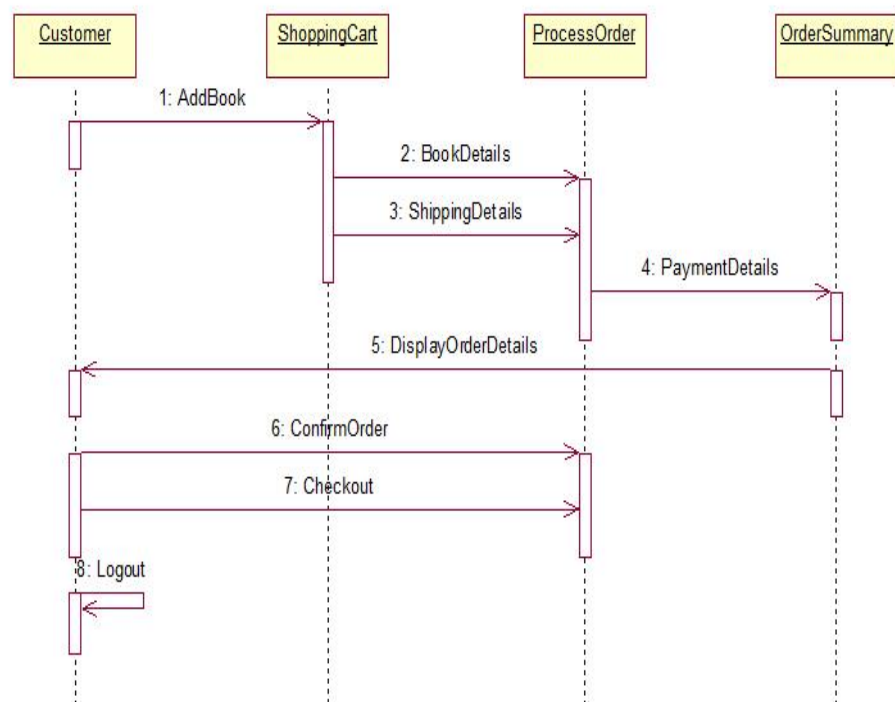


## 3.2 Activity Diagrams

Description- About the activity of our project through use case diagram.

# Activity Diagram for User Side

```
                    ( ● )
                      |
                   [ Login ] ←────────────┐
                      |                    │
              [ Authentication ]           │
                      |                    │
                      ↓          Invalid   │
                  < Check >───────────────┘
                      |
                    Valid
                      |
 ═══════════════════════════════════════════
   /            |            \
 (Search      (Edit         (View
  Product)     Profile)      Reports)
   |          /      \        |       \
 (Add to  (Change  (My     (Payment  (Order
  Cart)   Password) Account) Report)  Report)
  /    \      |
(Cancel (Make
 Order)  Payment)
         |
     (Confirm Order)
 ═══════════════════════════════════════════
                      |
                  ( Logout )
                      |
                    ( ◉ )
```

# 3.3 Sequence Diagrams

| Customer | ShoppingCart | ProcessOrder | OrderSummary |
|----------|--------------|--------------|--------------|

1: AddBook

2: BookDetails

3: ShippingDetails

4: PaymentDetails

5: DisplayOrderDetails

6: ConfirmOrder

7: Checkout

8: Logout
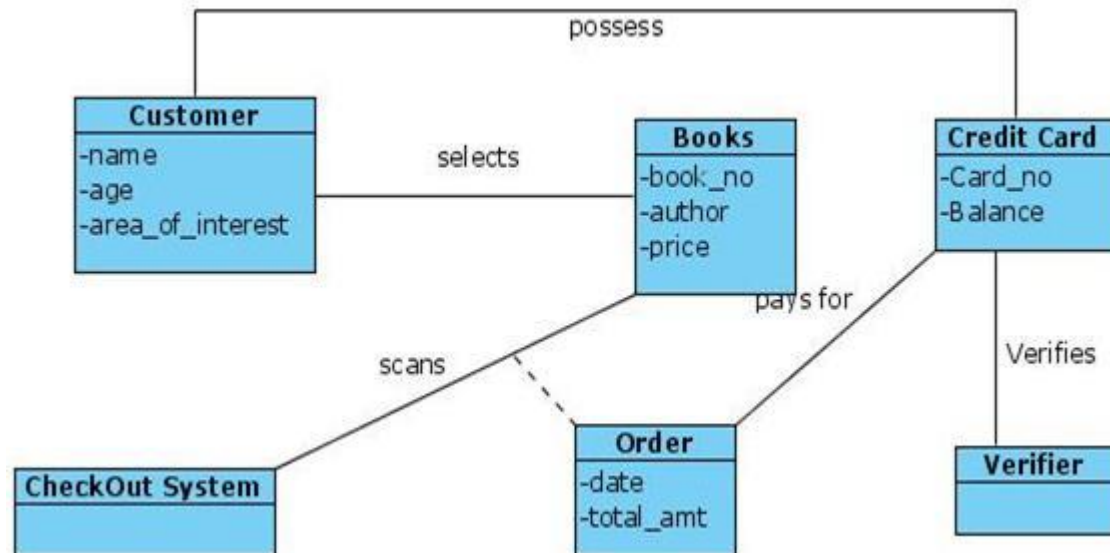
## 3.4 Class Diagrams

## 3.5 Data Design-:

### 3.5.1 Schema Definitions-:

A schema can be defined as the design of a database. The overall description of the database is called the database schema.

A data model is a conceptual representation of the data structures that are required by a database. The first step in designing a database is to develop an Entity-Relation Diagram (ERD). The ERD serves as a blue print from which a relational database maybe deduced.
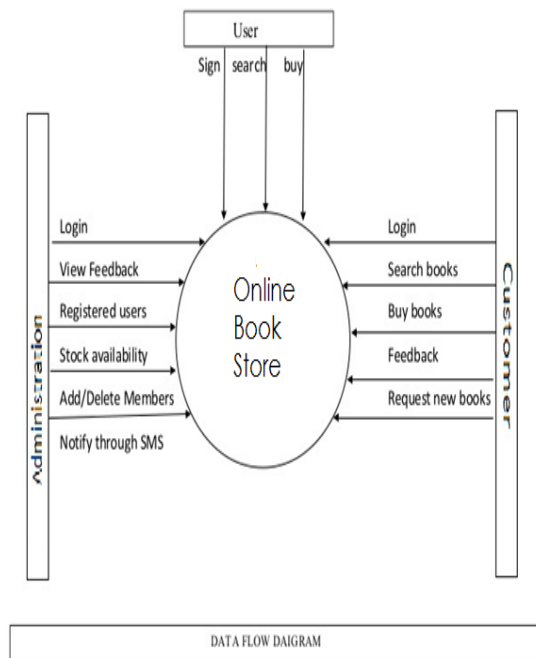
**Table 3.1: Schema for customer**

| Field | Type | Key | Size |
|---|---|---|---|
| C_ID | Integer | Primary | 100 |
| Name | Varchar | - | 20 |
| Mobile_No | Number | - | 10 |
| Address | Varchar | - | 200 |

**Table 3.2: Schema for product**

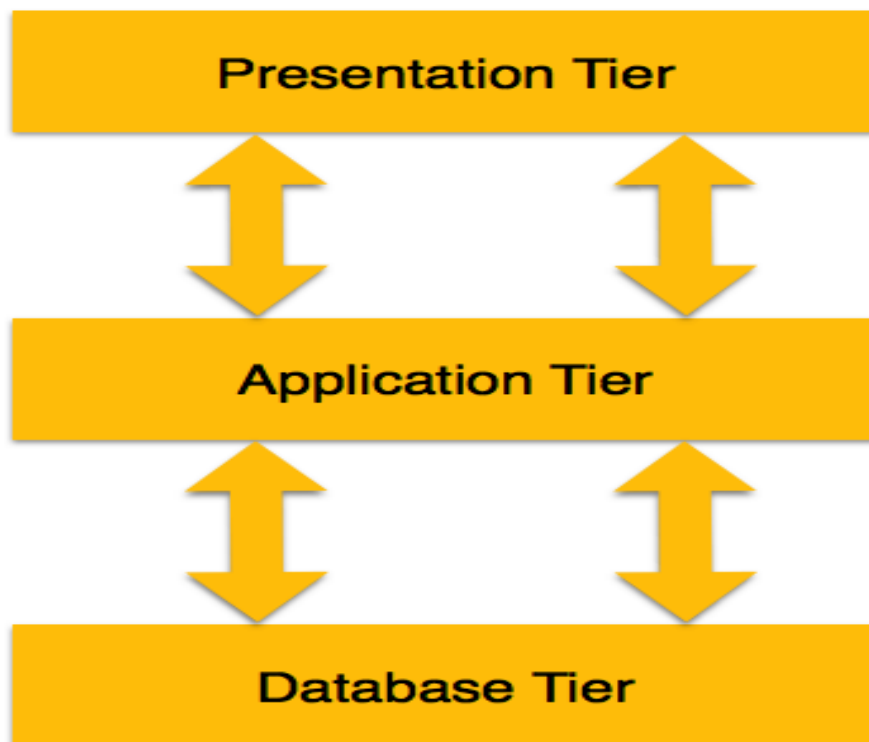| Field | Type | Key | Size |
|---|---|---|---|
| P_id | Integer | | 100 |
| C_id | Integer | Primary | 100 |
| Name | Varchar | - | 200 |
| Auther_name | Varchar | - | 200 |
| Price | Interger | - | 10 |

## 3.5.2 Integrity Constraints

o Integrity constraints are a set of rules. It is used to maintain the quality of information.

o Integrity constraints ensure that the data insertion, updating, and other processes have to be performed in such a way that data integrity is not affected.

o Thus, integrity constraint is used to guard against accidental damage to the database.



DATA FLOW DAIGRAM

## 3.6 System Architecture

Three-tier (layer) is a client-server architecture in which the user interface, business process (business rules) and data storage and data access are developed and maintained as independent modules or most often on separate platforms. The Architecture of Online Book Store is based on three-tier architecture. The three logical tiers are



• Presentation tier - End-users operate on this tier and they know nothing about any existence of the database beyond this layer

• Application tier – At this tier reside the application server and the programs that access the database

• Data tier- At this tier, the database resides along with its query processing languages

# Chapter 4 : Construction

## 4.1 Implementation-:

It is a graphical user interface .it has a form for user to input query information to search the books from database.

### 4.1.1 Implementation Details-:

- User registration
- User login
- Check the details about us.
- Contact to admin
- Search book
- Add to cart book
- Payment at time of delivery or through the online payment gateway mode.

### 4.1.1.1 Software Details

- Database:              MySQL Server:
- Front End:            CSS, HTML

### 4.1.1.2 Hardware Details

- Processor:            Intel P-IV based system
- Processor Speed:     2.0. GHz
- RAM:                 256 MB to 512 MB
- Hard Disk:           40GB to 80GB

## 4.2 Testing

### 4.2.1 White Box Testing-:

White box tasting is a method of software testing that tests internal structures or workings of an application, as opposed to its functionally .In white box testing an internal perspective of

the system ,as well as programming skills, are used to design test cases. The tester chooses inputs to exercise paths through the code and determine the expected outputs. This is analogous to testing nodes in circuit eg.in-circuit testing (ICT).White box testing can be applied at the unit, integration and system levels of the software testing process .Although traditional testers tended to think of white -box testing as being done at the unit level, it is used for integration and system testing more frequently today. It can test paths within a unit, paths between units during integration, and between subsystems during a system – level test.

**4.2.2 Black Box Testing-:**

A simple login screen of software or a web application will be tested for seamless user login. The login screen has two fields, username and password as an input and the output will be enable to access to the system …this form of testing technique will check the input and output. Or in other words black box testing is a method of a software testing that examines the functionally of an application without peering into its internal structures or workings. This method of test can be applied virtually to every level of software testing: unit, integration, system and acceptance. It is sometimes referred to as specification – based testing. The tester is aware that a particular input returns a certain, invariable output but is not aware of how the software produces the output in the first place.

# Conclusion & Future Works-:

Online book store is an online web application where the customer can purchase books online through a web browser the customers can search for a book by its title or author, later can add to the shopping cart and finally purchase the books. Our project is only a humble venture to satisfy the needs to manage their project work. Several user friendly coding have also adopted. This package shall prove to be a powerful package in satisfying all the requirement of the school. 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 following points..

- A description of the background and context of the project and its relation and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of purpose, scope and applicability.
- We define the problem on which we are working in the project.
- We describe the requirement specification of the system and the actions that can be done on these things.
- We understand the problem domain and produce a model of the system, which describe operations that can be performed on the system.
- We included features and operations in detail, including screen layouts.
- We designed user interface and security issues related to system.
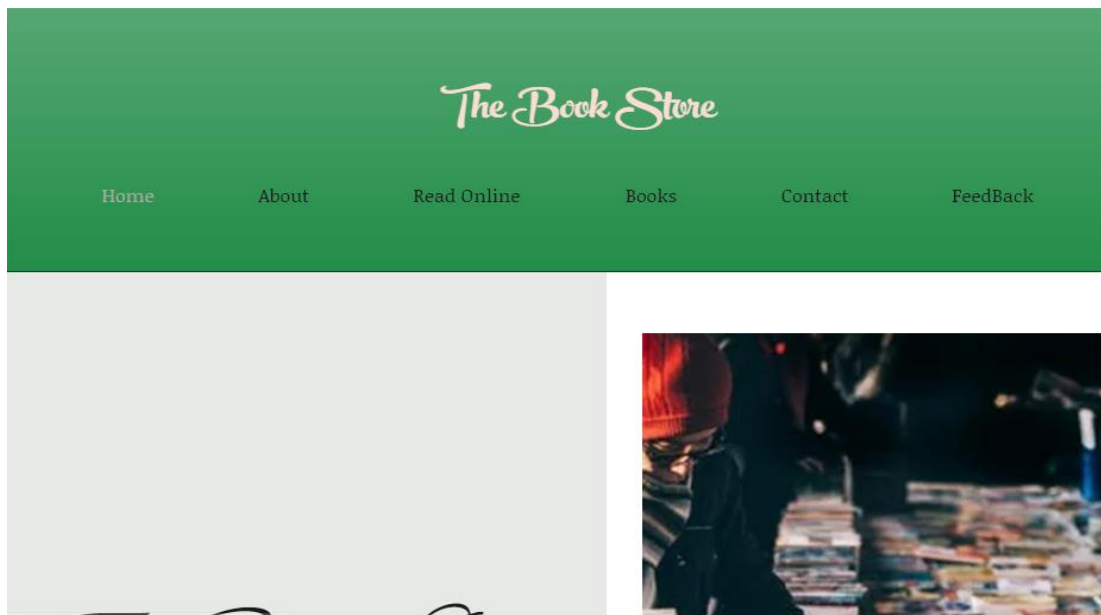
In future we can give more advance software for online book store including more facilities.

We will host the platform on online servers to make it accessible worldwide .on integrating multiple load balancers to distribute the loads of the system .creating the master and slave database structure to reduce the overload of the database queries.

Here we can maintain the records of books and stock. Also, as it can be seen that a now a days the players are versatile, i.e. so there is a scope for introducing a method to maintain the online book store.
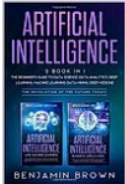
# Appendix A



The Book Store

Home      About      Read Online      Books      Contact      FeedBack

| Cyber Security | IWT | DBMS |
|---|---|---|
| 115.00  103.50 | 90.00  81.00 | 120.00  108.00 |

## My Cart

| | | | | |
|---|---|---|---|---|
|  | ARTIFICIAL INTELLIGENT ~~550.00~~ 495.00 | 1 | 495.00 | ✕ |

🏷 Enter a promo code

📄 Add a note

## Order Summary

| | |
|---|---|
| Subtotal | 495.0 |
| Shipping Madhya Pradesh, India | FRE |
| Total | 495.0 |

🔒 Checkout

Check out with PayPal

---

```
MySQL 8.0 Command Line Client
Enter password: ****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 8
Server version: 8.0.16 MySQL Community Server - GPL

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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> create database nirmal;
Query OK, 1 row affected (1.22 sec)

mysql> use nirmal;
Database changed
mysql> create table Customer(C_ID int(100) AUTO_INCREMENT PRIMARY KEY,Name varchar(20),mobile int(10),Address varchar(200));
Query OK, 0 rows affected (1.27 sec)

mysql> desc Customer;
+---------+--------------+------+-----+---------+----------------+
| Field   | Type         | Null | Key | Default | Extra          |
+---------+--------------+------+-----+---------+----------------+
| C_ID    | int(100)     | NO   | PRI | NULL    | auto_increment |
| Name    | varchar(20)  | YES  |     | NULL    |                |
| mobile  | int(10)      | YES  |     | NULL    |                |
| Address | varchar(200) | YES  |     | NULL    |                |
+---------+--------------+------+-----+---------+----------------+
4 rows in set (0.32 sec)

mysql>
```

Activate Windows
Go to Settings to activate Windows.

```
ERROR 1136 (21S01): Column count doesn't match value count at row 1
mysql> INSERT INTO product VALUES('1','The Jungle Book','Rudyard_Kipling','500');
ERROR 1062 (23000): Duplicate entry '1' for key 'PRIMARY'
mysql> INSERT INTO product VALUES('2','The Jungle Book','Rudyard_Kipling','500');
Query OK, 1 row affected (0.17 sec)

mysql> select * from product;
+------+-----------------+-----------------+-------+
| P_ID | Name            | Author_Name     | Price |
+------+-----------------+-----------------+-------+
|    1 | Nikola_Tesla    | Sean_Patrick    |   500 |
|    2 | The Jungle Book | Rudyard_Kipling |   500 |
+------+-----------------+-----------------+-------+
2 rows in set (0.00 sec)

mysql> desc Customer;
+---------+--------------+------+-----+---------+----------------+
| Field   | Type         | Null | Key | Default | Extra          |
+---------+--------------+------+-----+---------+----------------+
| C_ID    | int(100)     | NO   | PRI | NULL    | auto_increment |
| Name    | varchar(20)  | YES  |     | NULL    |                |
| mobile  | int(10)      | YES  |     | NULL    |                |
| Address | varchar(200) | YES  |     | NULL    |                |
+---------+--------------+------+-----+---------+----------------+
4 rows in set (0.00 sec)
```