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K.S.K.W. ART'S , SCIENCE & COMMERCE

COLLEGE, CIDCO NASHIK-8.

ACADEMIC YEAR 2021-2022

A PROJECT REPORT

ON

“Book renting & selling online “

IN ASSOCIATION WITH

KrazyFox Technology PVT. LTD.

SUBMITTED BY

MR. SONU PANDIT

GUIDED BY

A. D. Bhandare



For partial fulfillment of
MASTER OF COMPUTER SCIENCE (MCS)
(affiliated to Savitribai Phule Pune University)



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Affiliated to Savitribai Phule Pune University Awarded as the Best College by SPPUNAAC

Reaccredited A grade

CERTIFICATE

This is to certify that the Project entitled

Book renting & selling online

has been successfully completed by

Mr. Sonu Pandit

in partial fulfilment of the requirements for Industrial Training Project (CS – 401) Sem. – IV of M. Sc. (Computer Science), post graduate degree to Savitribai Phule University for the academic year 2021-2022.

Astakshi
Project Guide

S Benale

Head of the Department



2
15/6/2022
External Examiner

Wtm
15/6/22
Internal Examiner

INTERNSHIP CERTIFICATE



KRAZYFOX TECHNOLOGY PRIVATE LIMITED

GSTIN:20AAICK2504Q1ZK

Strictly Private and Confidential

2nd May 2022
Mr. Sonu Pandit
Address: Pune

Mr. Sonu Pandit,

This is to certify that Mr. Sonu Pandit has done his internship in Front end development at Krazyfox Technology Pvt. Ltd., Pune, from 1st December 2021 to 1st May 2022.

He has worked as Front end web developer. During his internship he has demonstrated his skills with self-motivation to learn new skills. His performance exceeded our expectations and he was able to complete the project on time.

We wish him/her all the best for his upcoming career.

Your Sincerely

Mr. Shubham Kulkarni
Chief Technology
Officer

ABSTRACT

The project is to create an application that should provide service to the user, collect user usage records, and generate invoices of each customers, manage books & sellers as well as buyers & renters record.

The Book renting & selling online has the capacity to illustrate and analyze the basic book management and the main functionalities that records all data provided by platform stack holder & books.

Also, development of such a system can even provide reminder to the user who has rented book for certain time of period & track all the history of the book rented or sold to respective user.

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1.1. Project Introduction

BOOK RENTING & SELLING ONLINE is a portal which works online providing the facility to customers to rent any books for certain time of period registered by the user and also selling any books registered by the user. In the current time there is not a such a portal available which can provide paperback books , there are some portal like Amazon kindle, Google Play Books & Audiobooks etc but they do not provide paperback books for reading only we can get screens but that facility not preferable to everyone. Libraries also provide books for some days but libraries are not present everywhere so our portal will also work in remote places like villages.

Peoples who is giving books on renting can send reminder to the person who has rented that book after completion of period or user can also extend their plan for that respective book.

In book selling perspective peoples can register any type of book according to provided catogery they will add the price of book, short description of the book, details of the book and like other website OLX they can contact to each other and get that order.

1.2 Motivation

In a current scenario there are lots of websites & audio website who are providing book reading facility but that is not preferable to everyone since not everyone can see on the mobile or laptop screen for such a long time & reading book has always special kind of feeling. In a cities there are libraries but in rural areas libraries are not often if there are some people can't get what are they looking for also some students who cannot afford costly books so they can buy 2nd hand books on affordable price according to them, there that motivation come from why not to provide such a platform where we can provide people books what they loves to read on reasonable price by which book owner will also earn & the people who wants to read will get desired book.

The portal can keep all the records of books, users on cloud so which there will not any chances of data loss & there will be all transparency.

1.3 Problem Statement

In a cities there are libraries but in rural areas libraries are not often if there are some people can't get what are they looking for also some students who cannot afford costly books so they can buy 2nd hand books on affordable price according to them, there that motivation come from why not to provide such a platform where we can provide people books what they loves to read on reasonable price by which book owner will also earn & the people who wants to read will get desired book.

This online Book rental & selling is fully functional and flexible.

It is very easy to use.

This online Book rental & selling system helps in back office administration by streamlining and standardizing the procedures.

It saves a lot of time finding books in stores or library.

Eco-friendly: The monitoring of the activity and the overall business becomes easy and includes the least of paper work.

The software acts as an office that is open 24/7.

It increases the efficiency of the management at offering quality services to the customers.

1.4 Objective and Goals

- ✓ Objective is to provide everyone who wants to read paperback books.
- ✓ To provide books on affordable price.
- ✓ Book owner can earn money by renting their books.
- ✓ Used books can be sell online.

1.5 Literature Survey

According to market survey people who spends lots of time browsing mobile screens or other screen are getting eye ache and other problems related to eyes & specially person who reads something on screen are getting affected by lighting of screen.

There are also some person who wants to read books but don't want to buy books & also not getting what they want to read.

Students who also can't afford to buy new books but have to buy because there is not more option available.

1.6 Project Scope and Limitations

Project Scope : -

This project traverses a lot of areas ranging from business concept to computing field, and required to perform several researches to be able to achieve the project objectives. The area covers include:

- Car rental industry: This includes study on how the car rental business is being done, process involved and opportunity that exist for improvement.
- PHP Technology used for the development of the application.
- General customers as well as the company's staff will be able to use the system effectively.
- Web-platform means that the system will be available for access 24/7 except when there is a temporary server issue which is expected to be minimal.

Limitation:

Delivery of the books should be done by the owner of the book or if on mutual conversation person who wants to take book will take from the owner.

:-

2.1 Comparative Study of Existing Systems

In a cities there are libraries but in rural areas libraries are not often if there are some people can't get what are they looking for also some students who cannot afford costly books so they can buy 2nd hand books on affordable price according to them, there that idea come from why not to provide such a platform where we can provide people books what they loves to read on reasonable price by which book owner will also earn & the people who wants to read will get desired book.

2.2 Scope and Limitations of Existing Systems

SCOPE:

Existing system can be made online so that everyone will get what they want .

:-

2.3 Project Perspective, Features

Features:-

1. Multiple users can access the system at the same time.
2. Purchase Billing available by this we can generate the purchase & sales reports.
3. Unlimited Category & Product Available to add.
4. Sales We we can track the records to the sales.
5. Data Export For sales.
6. Able to change the name and other details.
7. Multiple Payment Mode available.
8. Multiple Access admin system available.

2.4 Stakeholders

Name	Represents	Role
KrazyFox Technology PVT LTD.	Owner of System	This is the organization that is owner of this system and has all rights about system and its sales rights.

2.5 Requirement Analysis –

Functional Requirement:

User must have books that they can sell or rent and any person who wants to buy or get book on rent will have to register.

Online :

In Online bills user can save and generate bills online and print the thermal bills

- User will have to login to the system.
- Once user is successfully logged in, user will see dashboard.
- User can create category of the product(item) where user will have to add the image of the item category.
- Once category is created user will add the product information with the image of the product, price and quantity of the product.
- User must be able to create a bill from the orders placed online or in present.
- User must be able to create table records.
- User must be able to keep the record of the Inventory (In stock and Out of Stock) Products.
- User must have all the data of the orders by online or in present and purchase invoice.
- Once the data is saved user can see it in the system.

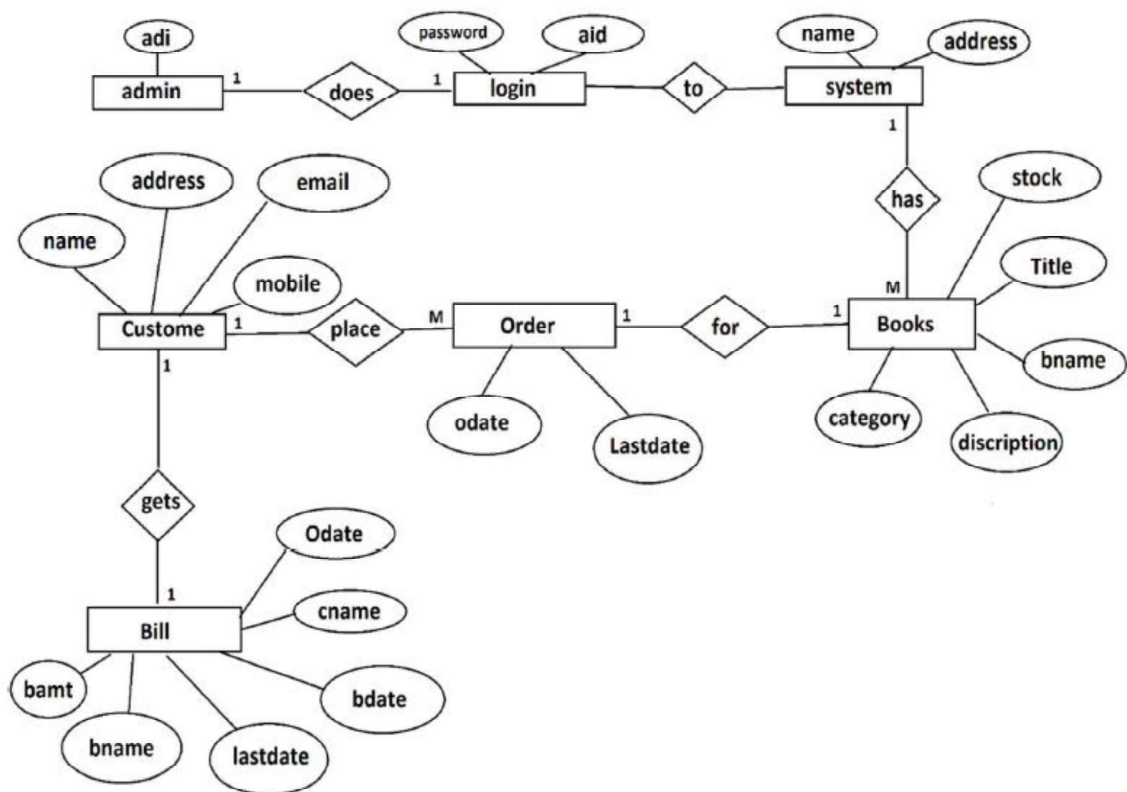
2) Performance Requirements :

- Software Performance should be very fast.
- Request should not take more than 4 sec to each request.
- Software should be work on multiple browser at same time.
- Large data should not affect the speed and performance of the software.

3) Security Requirements :

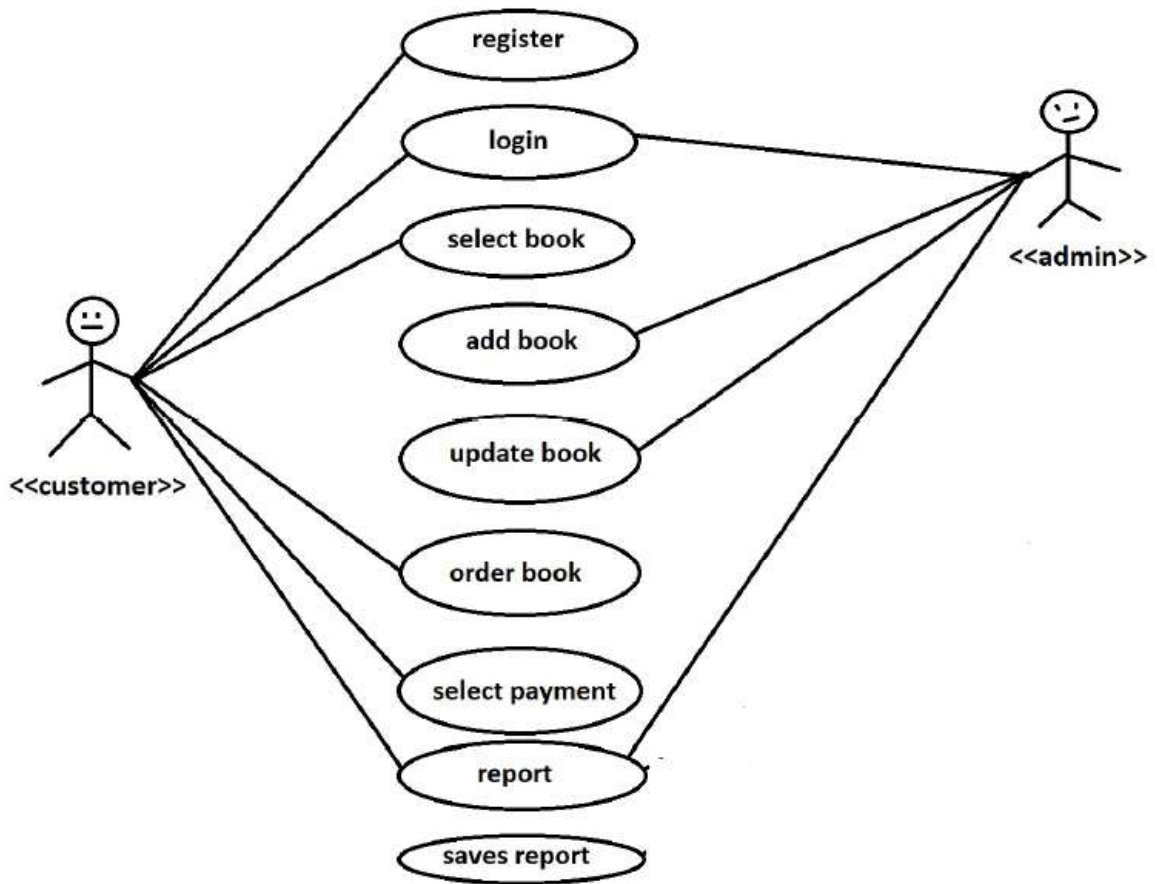
- Software should not accept the invalid login data.
- Software should accept the non authorized data in billing.
- Software should hide the reports data from the sub-admin.
- Software should have strong session handling technique.

3.1 ER Diagram

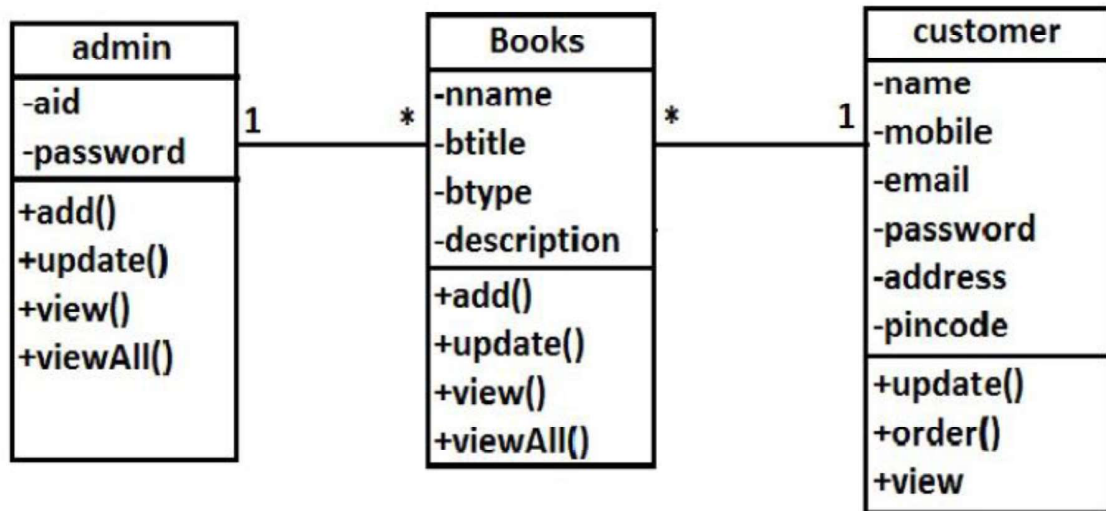


3.2 System Model: UML Diagrams

1) UseCase :

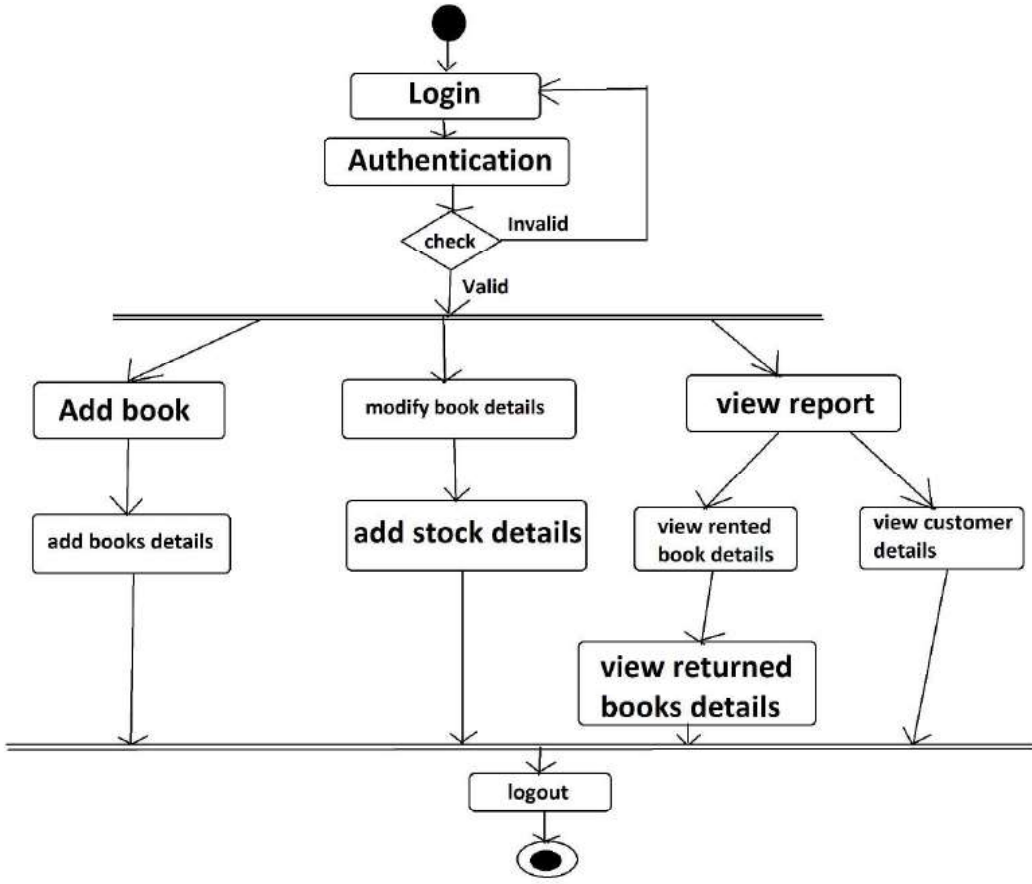


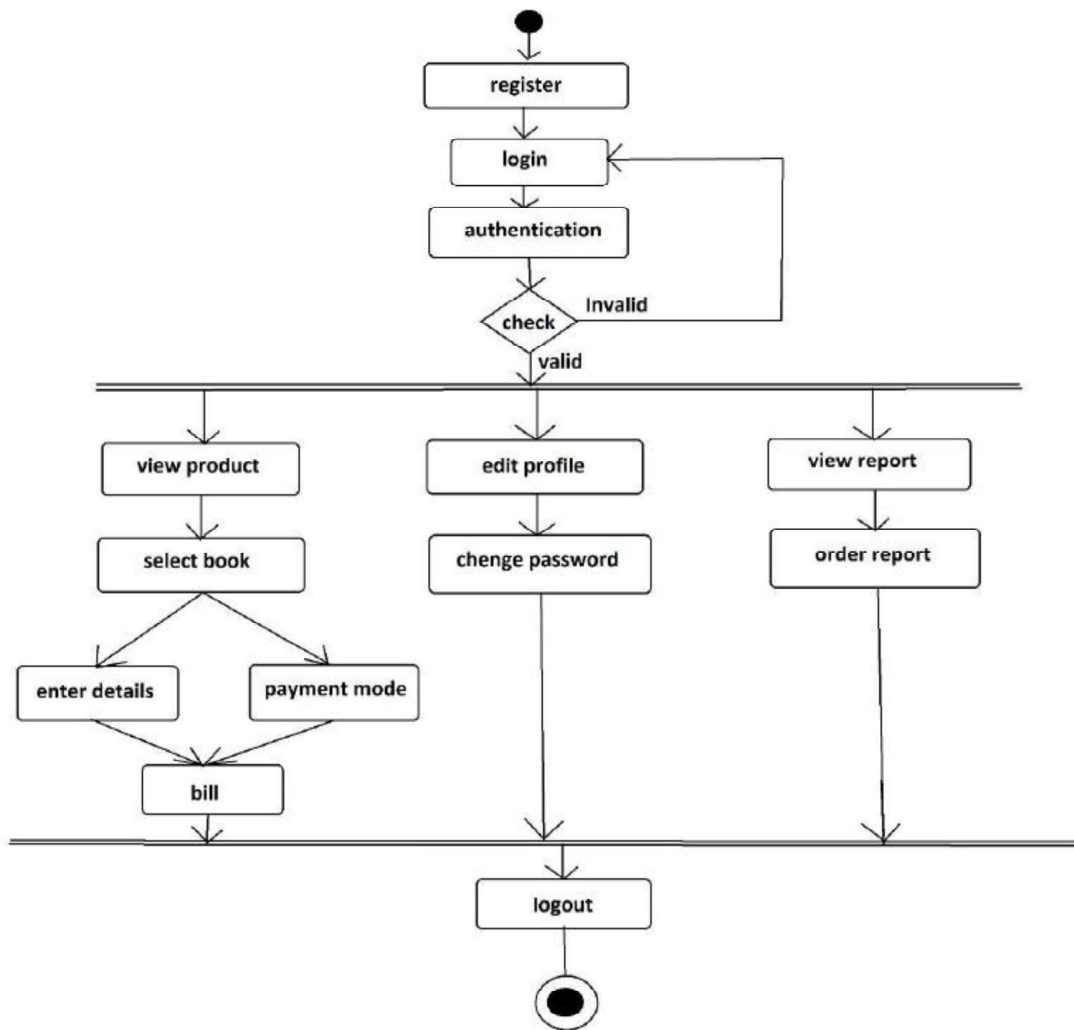
2) Class Diagram :



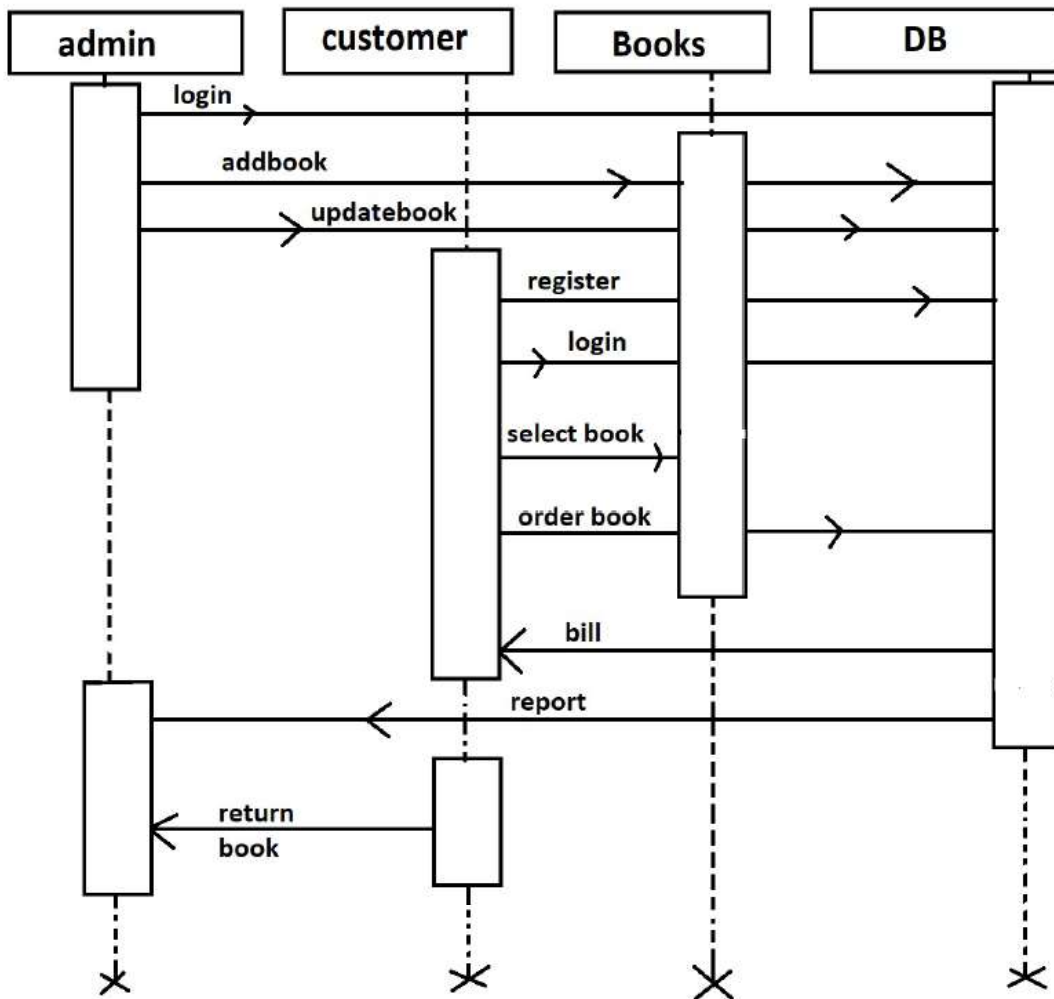
3) Activity Diagram:

➤ ADMIN

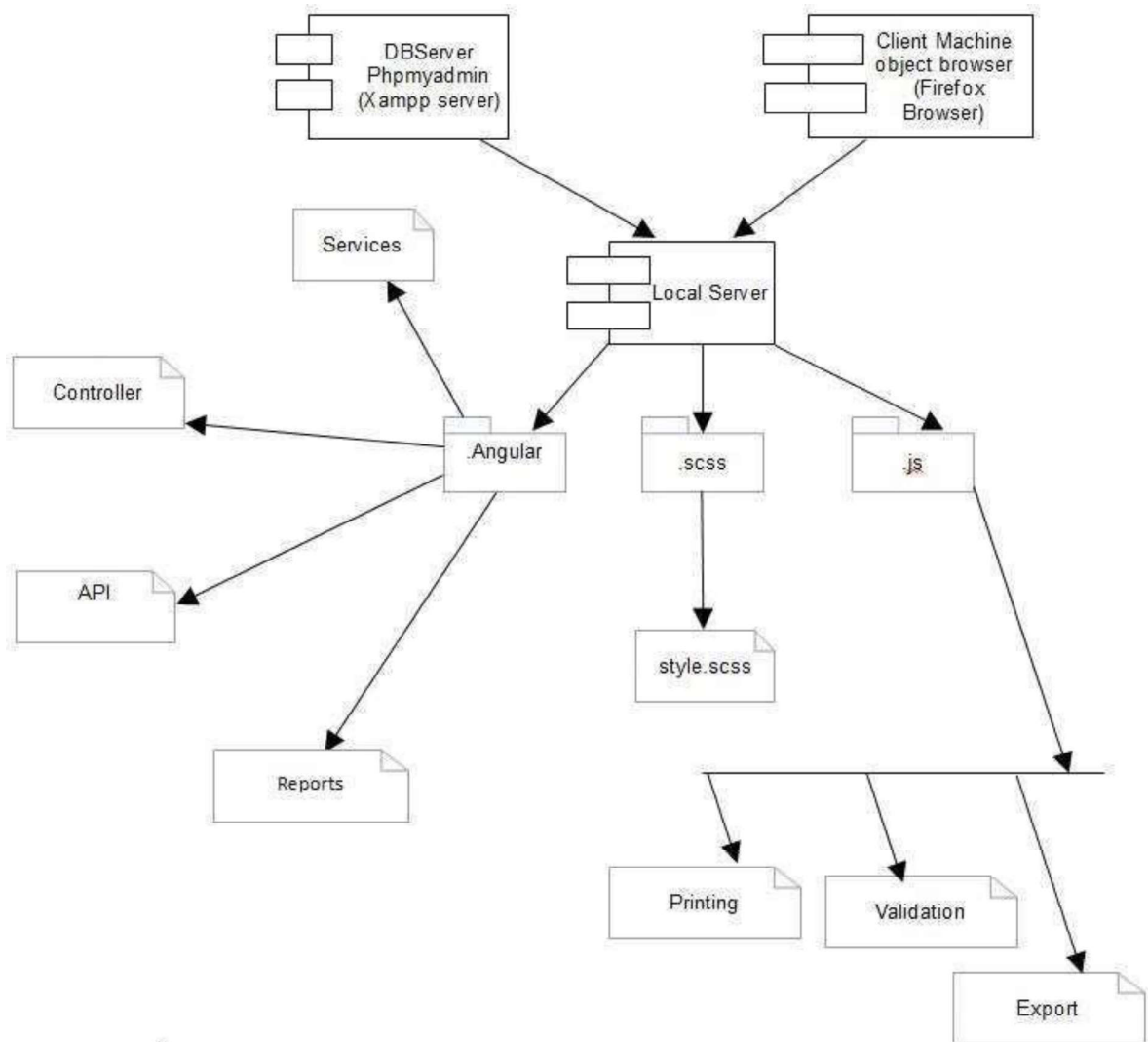




4) Sequence Diagram:

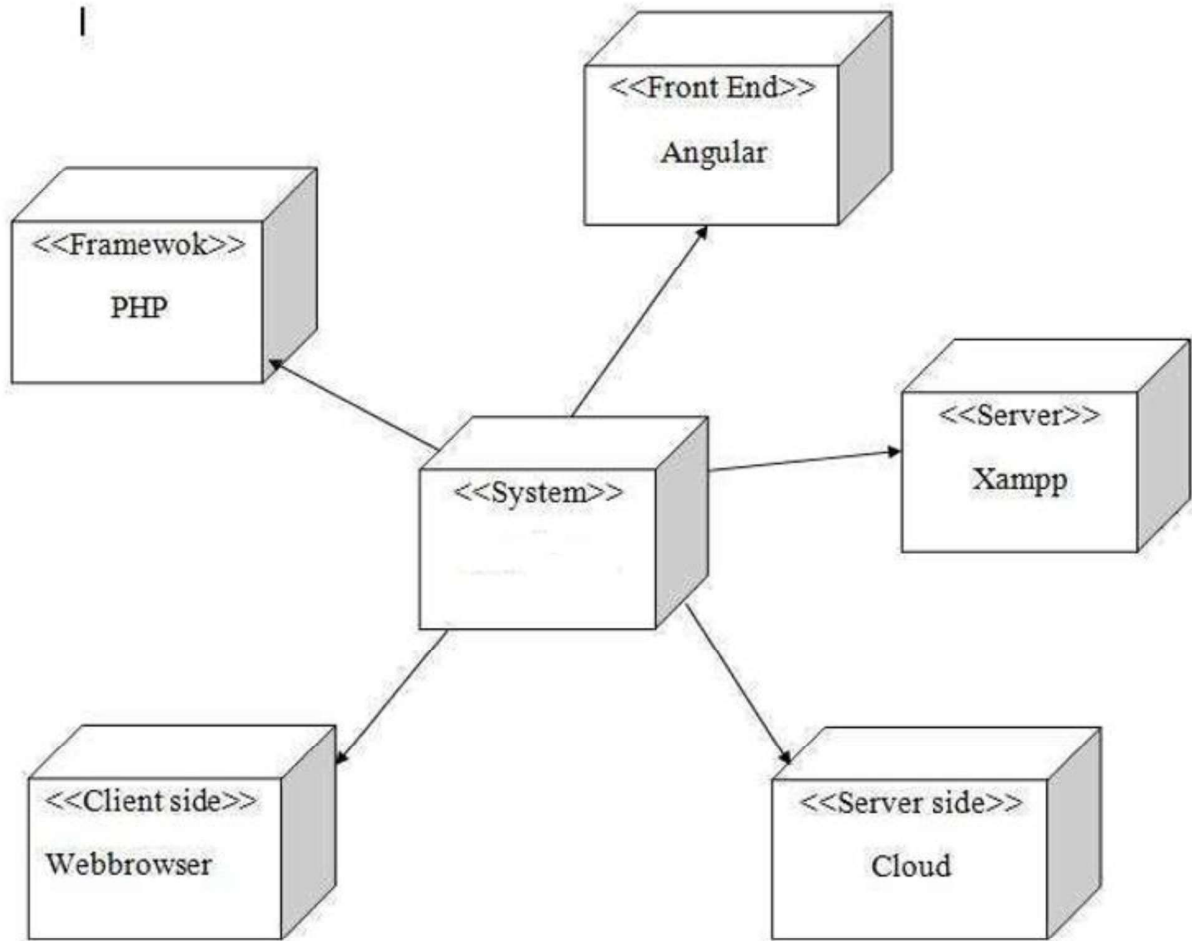


5) Components Diagram:



I

6)Deployment Diagram:



3.3 Data Model

- **admin**

Field Name	Data Type	Constraint
Aid	Text	Primary key
Password	Varchar(15)	Not null

- **Customer**

Field Name	Data Type	Constraint
Mobile	Bigint	Primary key
Email	Varchar(100)	Not null
Name	Varchar(50)	Not null
Password	Varchar(16)	Not null
City	Varchar(20)	Not null
Address	Text	Not null
Pincode	Int	Not null

- **Booking**

Field Name	Data Type	Constraint
Bname	Varchar(100)	Primary key
Description	Text	Not null
Btitle	Varchar(100)	Not null
Btype	Varchar(100)	Not null
Availability	Text	Not null

- **Book_rented**

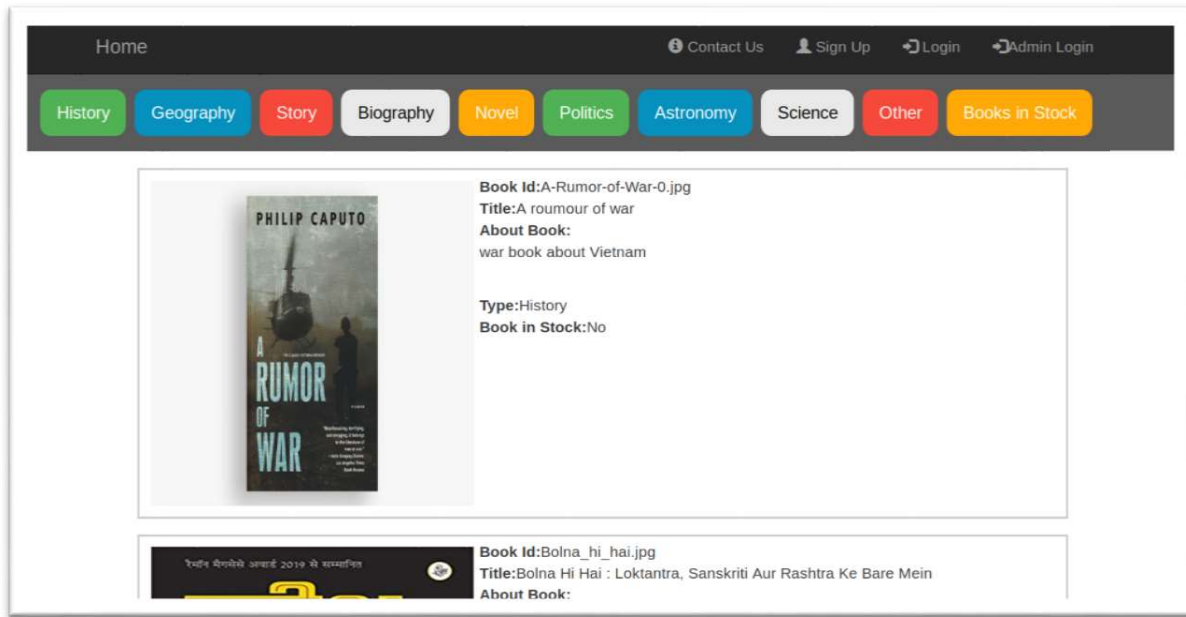
Field Name	Data Type	Constraint
Mobile	Bigint	Not null
Cust_name	Varchar(50)	Not null
Bname	Varchar(100)	Not null
Orderdate	Date	Not null
Lastdate	Date	Not null
Cashmode	Varchar(100)	Not null
Address	Text	Not null
Pincode	Integer	Not null

- **Returnedbook**

Field Name	Data Type	Constraint
Bname	Varchar(100)	Not null
Orderdate	Date	Not null
Lastdate	Date	Not null
Returndate	Date	Not null
Mobile	Bigint	Not null

3.2 Screen Shots:

Home Screen:



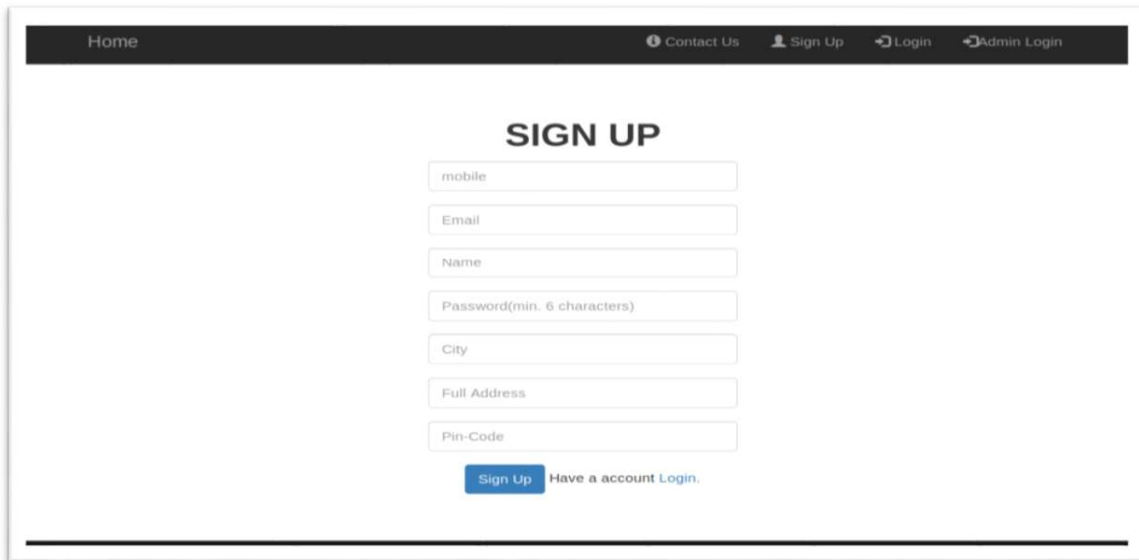
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Book in Stock:No

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mobile

Email

Name

Password(min. 6 characters)

City

Full Address

Pin-Code

[Sign Up](#) [Have a account Login.](#)

Login Page:

Home [Contact Us](#) [Sign Up](#) [Login](#) [Admin Login](#)

LOGIN

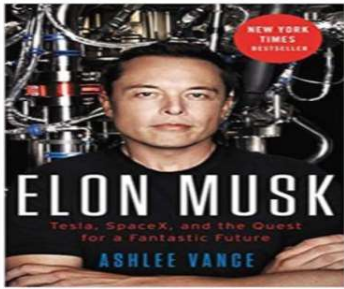
[LOGIN](#) [Don't have a account Register.](#)

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Home Screen After Login:

Home [Rented Books history](#) [Rent Book](#) [Settings](#) [Contact Us](#) [Logout](#)

[History](#) [Geography](#) [Story](#) [Biography](#) [Novel](#) [Politics](#) [Astronomy](#) [Science](#) [Other](#) [Books in Stock](#)

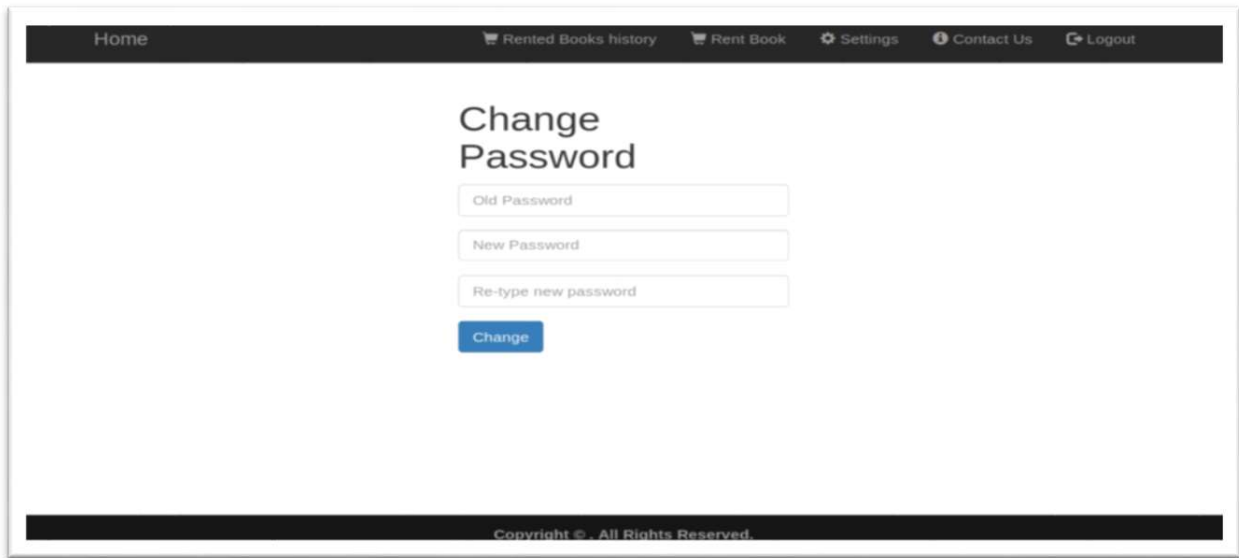


Book Id:Elon_Musk.jpg
Title:Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future
About Book:
Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future is Ashlee Vances biography of Elon Musk, published in 2015. The book traces Elon Musks life from his childhood up to the time he spent at Zip2 and PayPal, and then onto SpaceX, Tesla, and SolarCity.
Type:Biography
Book in Stock:No



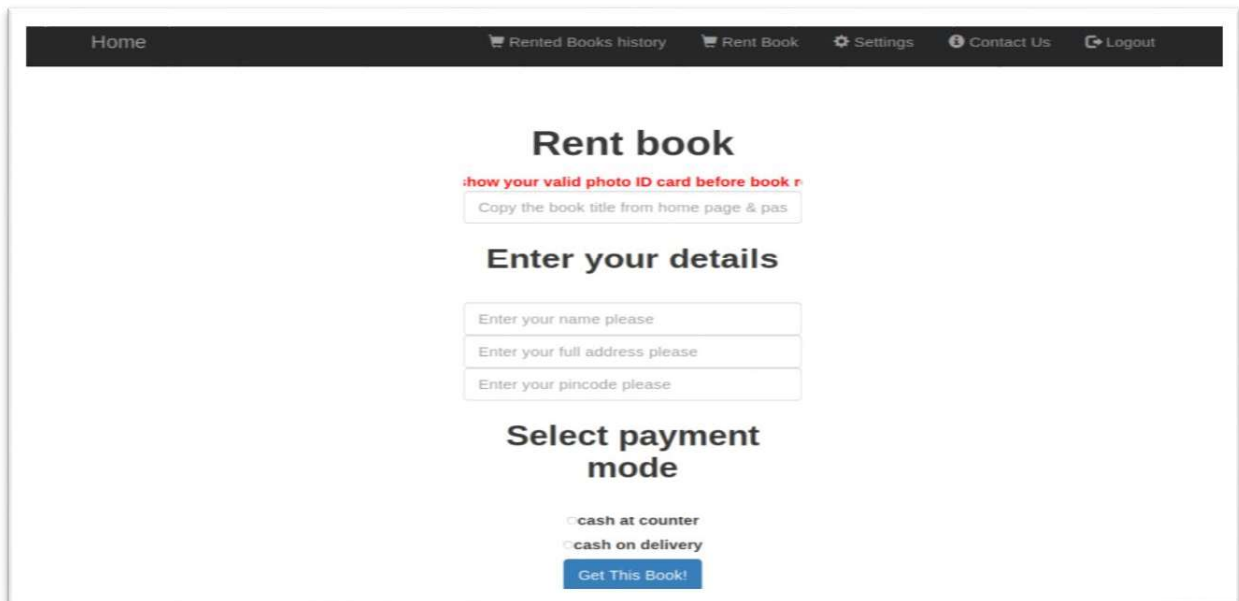
Book Id:Mein Kampf.jpg
Title:Mein Kampf
About Book:
Mein Kampf is a 1925 autobiographical manifesto by Nazi Party leader Adolf Hitler. The work describes the process by which Hitler became antisemitic and outlines his political ideology and future plans for Germany.

Change Password:



The screenshot shows a web page titled "Change Password". At the top, there is a dark navigation bar with "Home" on the left and "Rented Books history", "Rent Book", "Settings", "Contact Us", and "Logout" on the right. The main content area has the heading "Change Password" in a large, bold font. Below the heading are three input fields: "Old Password", "New Password", and "Re-type new password". A blue "Change" button is positioned below the input fields. At the bottom of the page, there is a dark footer with the text "Copyright © . All Rights Reserved."

Renting Page:



The screenshot shows a web page titled "Rent book". At the top, there is a dark navigation bar with "Home" on the left and "Rented Books history", "Rent Book", "Settings", "Contact Us", and "Logout" on the right. The main content area has the heading "Rent book" in a large, bold font. Below the heading, there is a red warning message: "show your valid photo ID card before book r". Below this is a text input field with the placeholder text "Copy the book title from home page & pas". The next section is titled "Enter your details" in a bold font. Below this are three input fields: "Enter your name please", "Enter your full address please", and "Enter your pincode please". The next section is titled "Select payment mode" in a bold font. Below this are two radio button options: "cash at counter" and "cash on delivery". A blue "Get This Book!" button is positioned below the radio buttons.

4.1 Software / Hardware Specifications

❖ **HARDWARE REQUIREMENT:**

- 233 MHz processor.
- 128 MB SD-RAM
- 4 GB Hard-Disk.
- 4x Compact Disk drive or quicker.
- 1.44 MB Floppy Disk Drive.
- Monitor. [640 x 480 Display]

❖ **SOFTWARE REQUIREMENT:**

- Front End – HTML, CSS, Bootstrap, jQuery, Ajax
- Back End – PHP, MySQL
- Server – Apache Server 2.0
- Design Tool – Macromedia Dreamweaver 12.0
- Documentation Tools – Microsoft Word

❖ **WEB REQUIREMENTS:**

- Bandwidth – 1mbps(minimum)
- Internet – 512 kbps(minimum)
- Internet Explorer 8.0 or any browser

5. Reports

In This Project We have 2 Type of reports.

1. Profit loss report
2. Inventory Report

Admin can generate the profit and loss report for the based on his purchase and sales bill entry.

This report will display under the pie chart.

2. Admin Can get inventory report inside the tables. After the certain time of billing out stock will reduce so this report tells us about the low stock product and high stock product.

6. Testing

Software testing is an investigation conducted to provide stakeholders with information about the quality of product or service under test. Software testing can also provide an objective, independent view of the software to allow the business to appreciate and understand the risk of implementation. Test techniques include, but are not limited to, the process of executing the program or application with the intent of finding software bugs (errors or other defects).

It involves the execution of a software component or system component to evaluate one or more properties of interest. In general, these properties indicate the extent to which the component or system under test:

- Meets the requirements that guided its design and development.
- Responds correctly to all kinds of inputs.
- Performs its functions within an acceptable time is sufficiently usable.
- Can be installed and run in its intended environments and
- Achieves the general result its stakeholders desire.

As the **number** of possible tests for even simple software component is practically infinite, all software testing uses some strategy to select tests that are feasible for the available time and resources. As a result, software testing typically (but not exclusively) attempts to execute a program or application with the intent of finding software bugs (errors or other defects). Software testing can application with the intent of finding software bugs (errors or other defects). Software testing can provide objective, independent information about the quality of software and risk of its failure to users and sponsors.

Software testing can be conducted as soon as executable software (even is partially complete) exists. The overall approach to software development often determines when and how testing is conducted.

Black Box Testing:

Black-box testing focuses on the functional requirement of the software, i.e. Black-box testing enables the software engineer to derive sets of input conditions that will fully exercise all functional requirements for a program. Black-box testing attempts to find errors in the following categories.

- Incorrect or missing functions 0 interface errors.
- Errors in data structures or external database access.
- Performance errors 0 initialization and termination errors.

White Box Testing:

White-box testing sometimes called glass-box testing is test case design method that uses the control structure of the procedural design to derive test cases. Using white-box testing methods the software engineer can derive test cases that guarantee that all independent path within a module have been exercised at least once.

Unit Testing:

Unit testing focuses verification effort on the smallest unit of software design that is the module. Using procedural design description as a guide, important control paths are tested to uncover errors within the boundaries of the module. The unit test is normally white box testing oriented and the step can be conducted in parallel for multiple modules.

Validation Testing:

At the end of testing software is completely assembled as a package. Validation testing is the next stage, which can be defined as successful when the software functions in the manner reasonably expected by the customer. Reasonable expectations are those defined in the software requirements specifications.

System Testing:

System testing is actually a series of different tests whose primary purpose is to fully exercise the computer-based system. Although each test has a different purpose all work to verify that all system elements have been properly integrated to perform allocated functions.

In this we tested whether a different software and hardware elements of a system working properly or not such as mouse is giving right input to input module or not.

Test Cases:

Steps	Summary	Execution Steps	Expected Result	Actual Result	Status
			Login page		
Step 1	Login	Login For Admin	must be visible for Admin	Login Page is visible for admin	Pass
Step 2	Login	Forgot password for Admin	Admin forgets the password	Admin is not able to login	Pass
Step 3	Login	Edit profile for admin	Admin forgets the password	Admin is able to edit the profile	Pass
Step 4	Login	Change password for admin	Admin must be able to change password	Admin is able to change the password	Pass
Step 5	Dashboard for Admin	Adding new Book	Admin must be able to add new Book item	Admin is able to add new Book	Pass
Step 6	Dashboard for Admin	Edit the existing Book	Admin must be able to edit the existing Book	Admin is able to edit the existing Book	Pass

Step 7	Dashboard for Admin	View details of the Book	Admin must be able to view details of the books	Admin is able to view the details of the books	Pass
Step 8	Dashboard for Admin	Listing of Book	Admin must be able to list all books	Admin is able to view the list of all books	Pass
Step 9	Manage Order	Adding the new order	User must be able to add the new order	User is able to add new order	Pass
Step 10	Manage Order	Edit the existing order	User must be able to edit the existing order	User is able to edit the existing order	Pass
Step 11	Manage Order	View details of the order	User must be able to view details of the order	User is able to view the details of the order	Pass
Step 12	Manage Order	Listing of all order	User must be able to list all order	User is able to list all the orders	Pass
Step 13	Manage Order Receipt	Adding new order status	User must be able to add new order status	User Is able to add new order status	Pass
Step 14	Manage Order Receipt	Edit the existing order status	User must be able to edit the existing order status	User is able to edit the existing order status	Pass

7. Conclusion and Recommendations

Book rental and selling business will emerge with a new goodie compared to the past experience where every activity concerning book buying and rental is limited to a physical location like library or shops only. Even though the physical location has not been totally eradicated; the nature of functions and how these functions are achieved has been reshaped by the power of internet.

Nowadays, customers can buy books online, now rent books Online.

The web based book rental and selling system has offered an advantage to both customers to efficiently and effectively manage the business and satisfies customers' need at the click of a button.

8. Future Scope

According to requirement and business demand we will provide platform to all the shop keepers as well as new paper vendors to sell their products via our portal. In extra to that We will provide subscription based model so that everyone will be benefitted in term of cost.

9. Bibliography and References

The manuals / books referred during the analysis and the design of "Electronic E-commerce Website" are as follows:

Books

The Complete Reference PHP By - Robin Nixon

The Complete Reference SQL By - Andy Opper

Websites

www.W3SCHOOL.com

www.tutorialspoint.com/PHP