Software Engineering (Sessional) Final Report

Course Code: CSE-3206

North Western University, Khulna

Project Title: **Book Store Management System.**

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Executive Summary:

- Introduction.
- Requirement Specifications.
- Architecture.
- Design.
- Acknowledgment.
- References.

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1.Introduction:

1.1 Goals and Objectives of the project:

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.

(i) Attractive premises, well maintained, in a good position.

(ii)A carefully curated mix of the right books to appeal to the local clientele.

(iii) Effective stock management to ensure the most profitable use of shelf space.

(iv) Efficient service to customers by motivated, happy and well-informed staff.

(v) Strong administration and financial management skills.

1.2 Scope of the work:

1.2.1 Current situation and context:

The online bookstore system can not only reduce costs, save time, space, to bring convenience to everyone, but also to promote the development of the logistics industry, serve three purposes, mutual benefit. More importantly, in today's world, the increasingly close ties between countries, more frequent exchanges, the economy tends to globalization, which promote the future development of online bookstore system has some practical significance.

1.2.2 Competing products (available in market):

An author can write several books and a book can have more than one author. It's very important to consider becoming a multiple-book author.

In market, there are comparison between on book with other book based on different authors.

1.3. System overview:

- Home Page.
- About website.
- Admin panel.
- Admin login page.
- Insert, Show, Update, Delete.
- User page.
- User login page (sign up, sign in).
- Gallery page.
- Order page.
- Review page.

1.4. Structure of the document:

- **Level 1:** Introduction, Objectives, system overview etc.
- **Level 2:** Use-case Diagram, Activity Diagram, Class Diagram, Sequence Diagram.
- **Level 3:** Architecture, E-R Diagram, Used Materials.
- **Level 4:** Design.
- **Level 5:** References.

1.5. Terms, Acronyms, and Abbreviations Used:

- **HTML:** Hypertext Mark-up Language.
- **CSS:** Cascading Style Sheet.
- **SQL:** Structured Query Language.
- **VS Code:** Visual Studio Code.
- **PHP:** Hypertext Preprocessor
- **XAMPP:** cross-platform, Apache, MySQL, PHP and Perl.
- **E-R Diagram:** Entity-Relationship Diagram.
- **GUI:** Graphical User Interface.

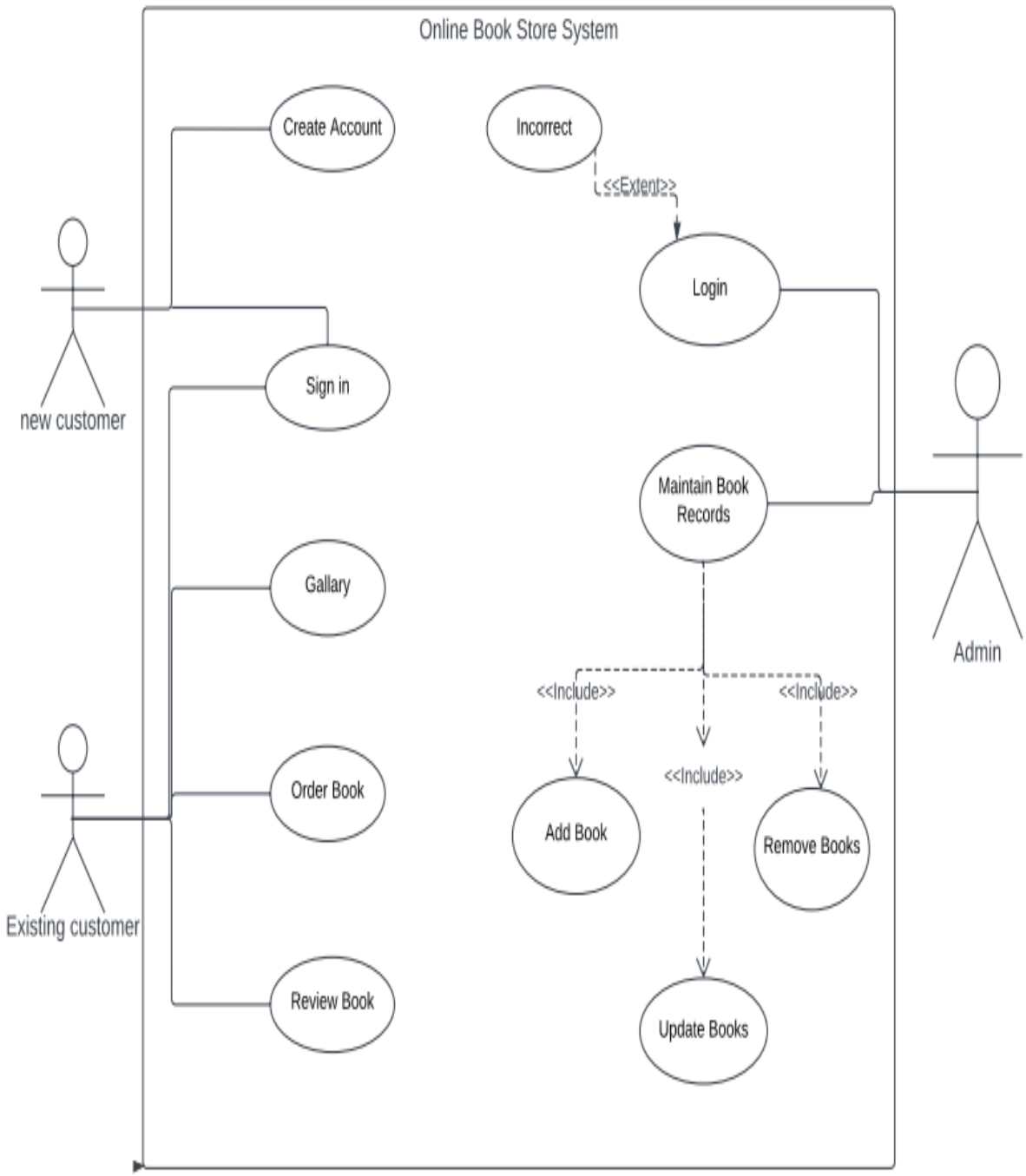
2. Requirement Specifications:

2.1. Stakeholders for the system:

Bookstore Admin: Bookstore Admin gives a book and orders read/write access to all components of Bookstore, including settings. You'll need this role in order to set up Bookstore, together with Financial Admin to set up the Chart of Accounts.

Bookstore Customers: Bookstore gives a user the ability to run day-to-day operations in Liberty Bookstore—processing orders (Online) and viewing reports. They do not have access to Bookstore Settings.

2.2. Use case diagram with Graphical and Textual Description:



Use case Diagram for Online Book Store

2.3. Activity Diagram:

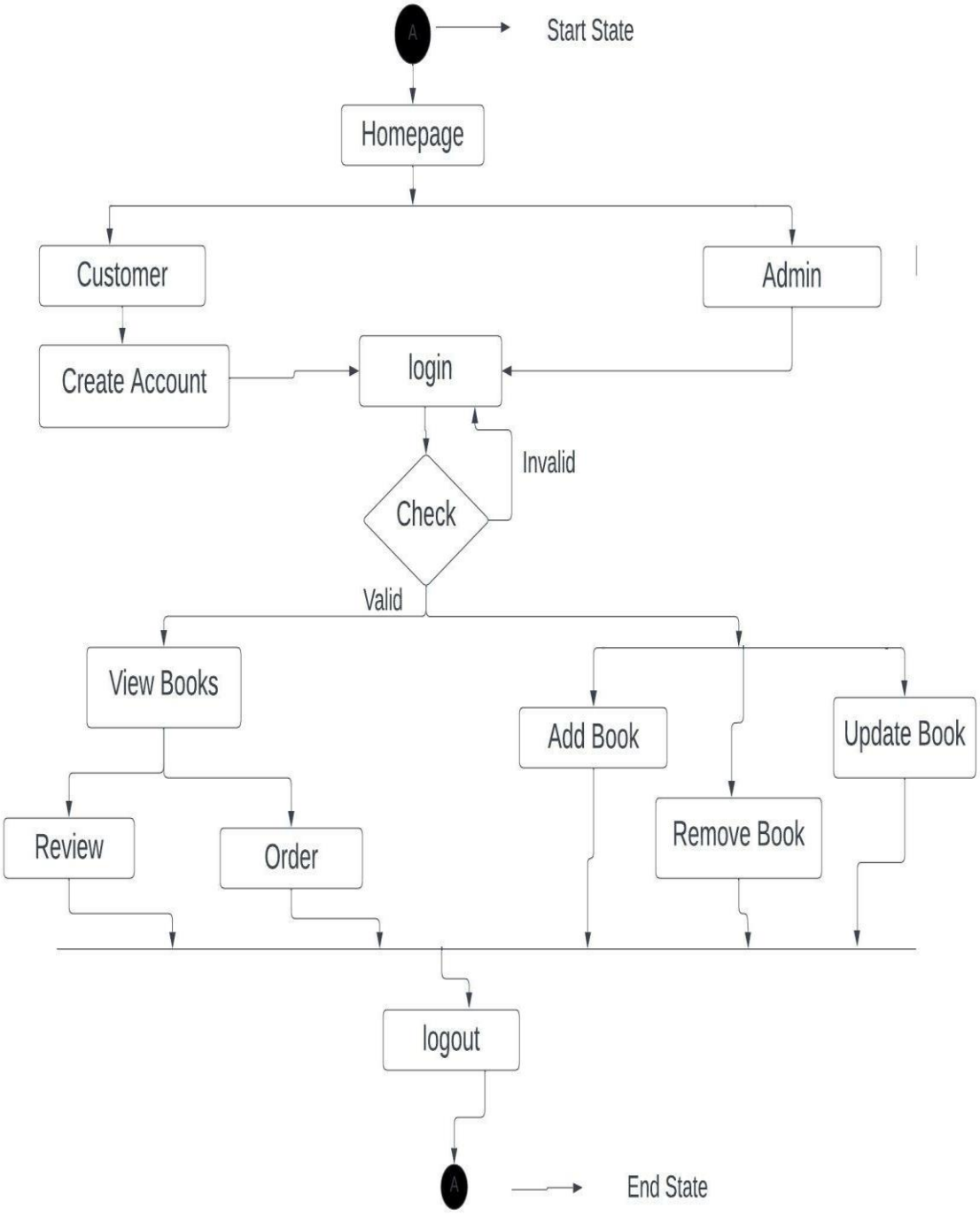


Fig:Activity Diagram of Online Book Store

2.4. Static model – class diagram:

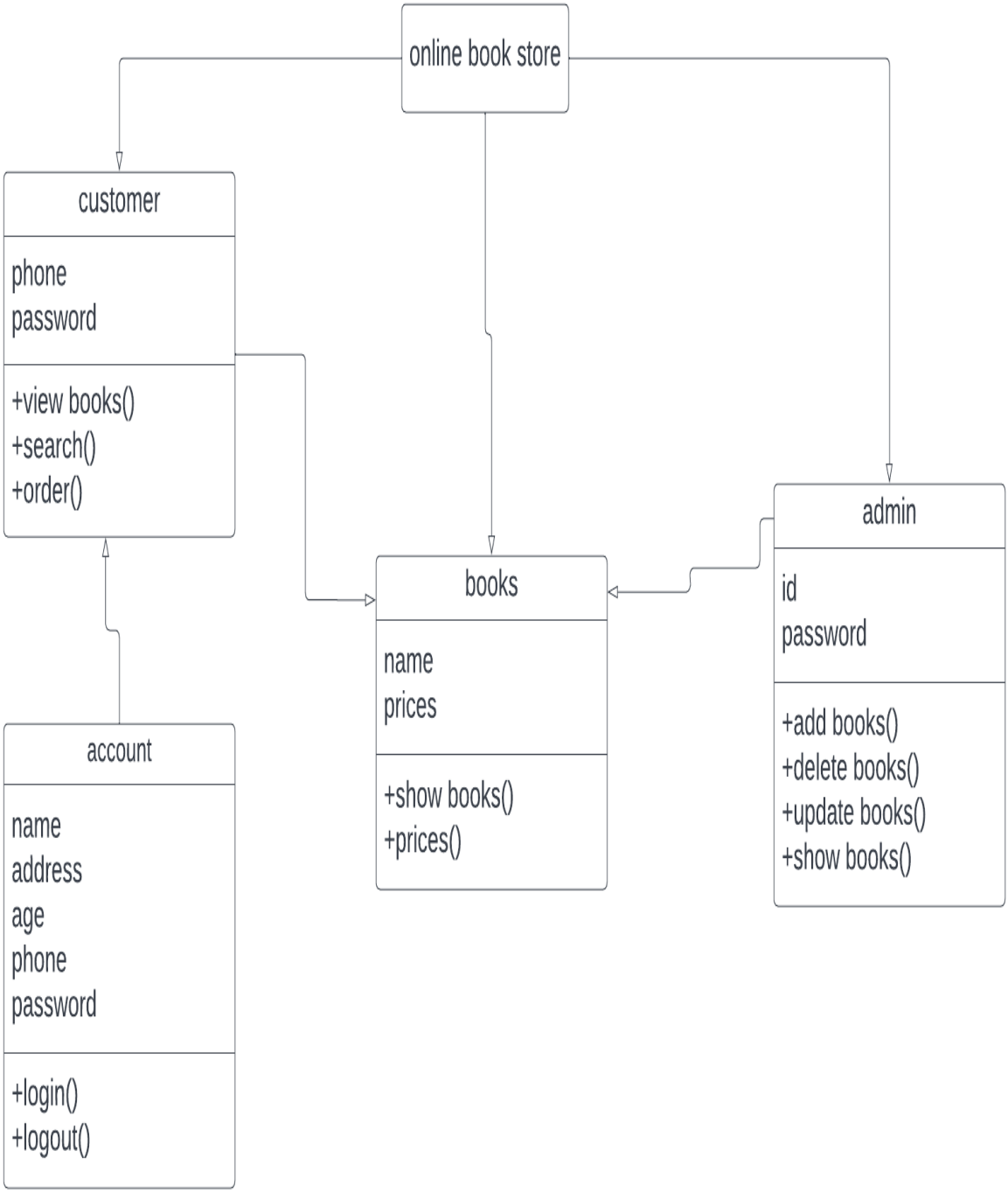
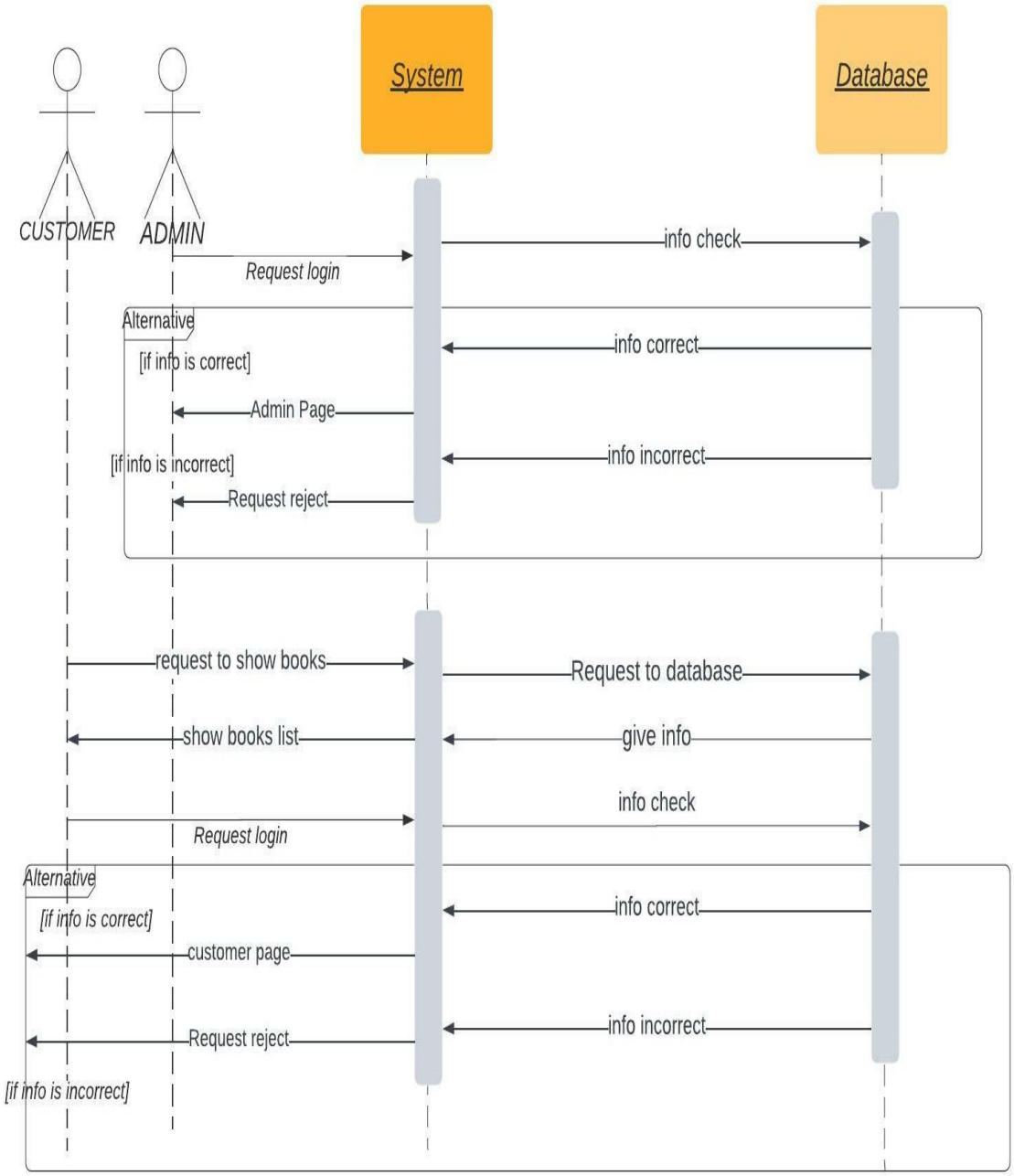


fig:class Diagram BSMS

2.5. Dynamic model – sequence diagram:

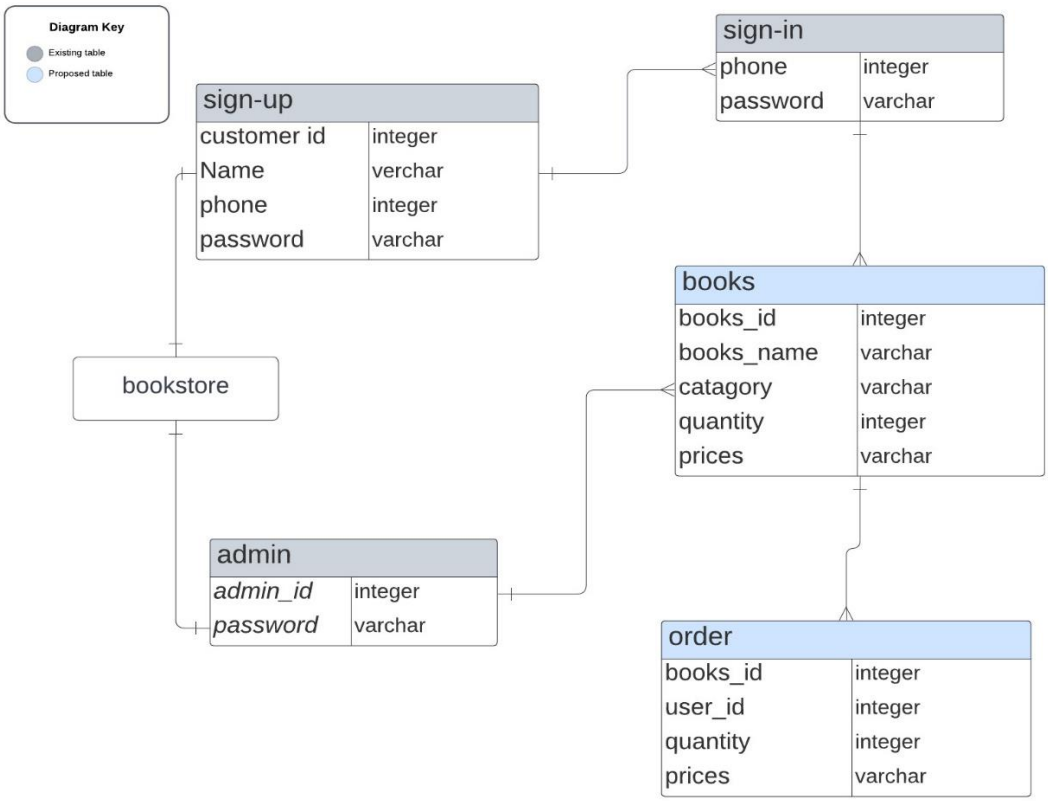


3. Architecture

3.1. Architectural model/style used

3.1.1. Rationale for choosing architectural model/style:

In our project, we used Entity-Relationship (E-R) Diagram for architectural model/style. Entity Relationship Diagram, also known as ERD, ER Diagram or ER model, is a type of structural diagram for use in database design. An ERD contains different symbols and connectors that visualize two important information: The major entities within the system scope, and the inter-relationships among these entities.



Database is absolutely an integral part of software systems. To fully utilize ER Diagram in database engineering guarantees you to produce high-quality database design to use in database creation, management, and maintenance. An ER model also provides a means for communication.

3.2. Data Base Architecture

3.2.1. Entity-Relationship (E-R) Diagram:

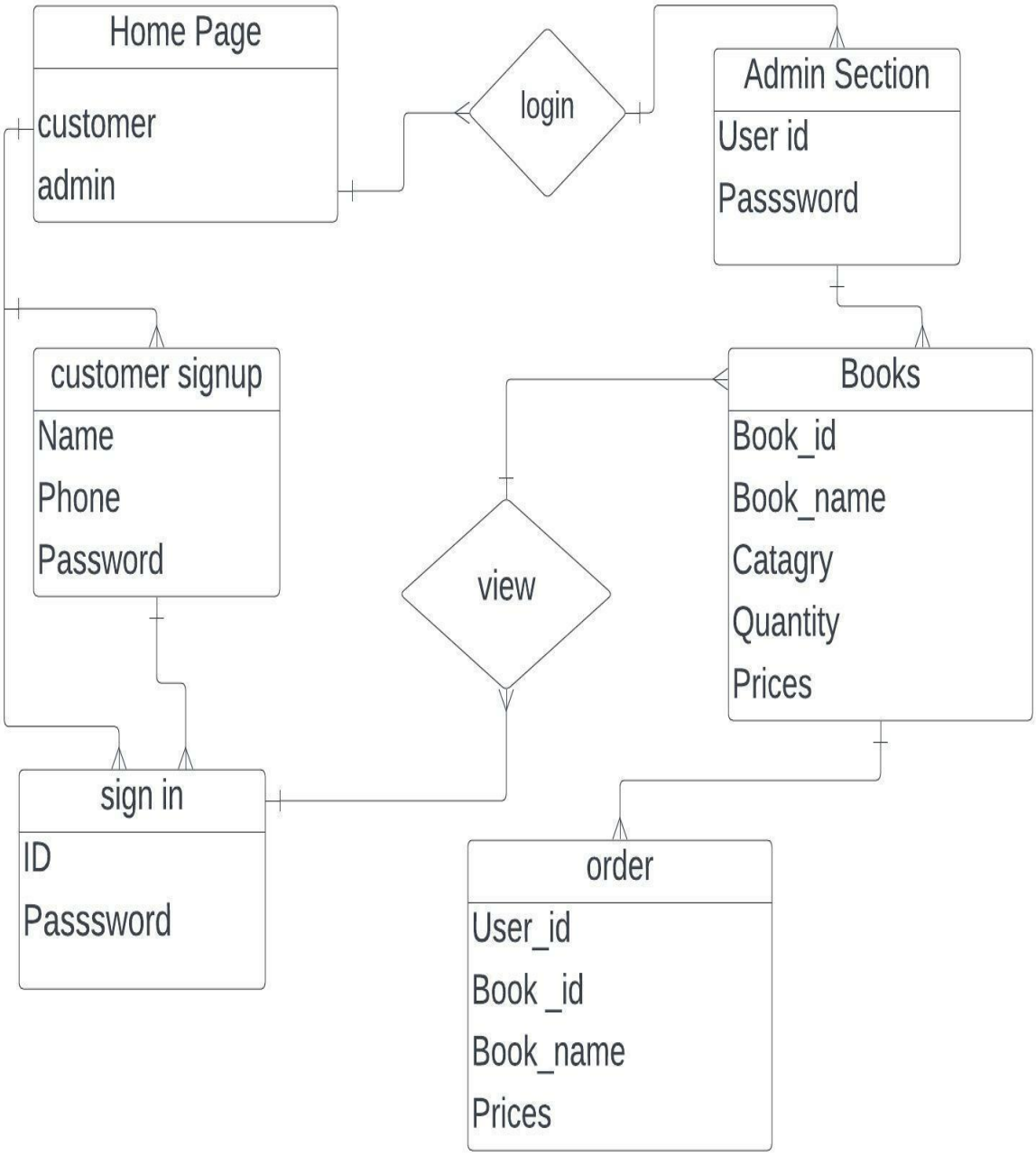


Fig:ER Diagram BSMS

3.2. Technology, software, and hardware used:

Hardware Used:

The hardware components of a computer system refer to the physical part that makes up the computer system.

For an effective operation, the system can be implemented provided the following hardware components.

Processor: core i3 10^{th} gen

RAM: 16GB

ROM: 128GB

Operating System: Windows 10.

Software Used:

Front end: HTML, CSS, PHP.

Back end: MySQL.

Software: VS Code, XAMPP.

XAMPP: In this system, MySQL database is used. So XAMPP must be needed to run the system properly.

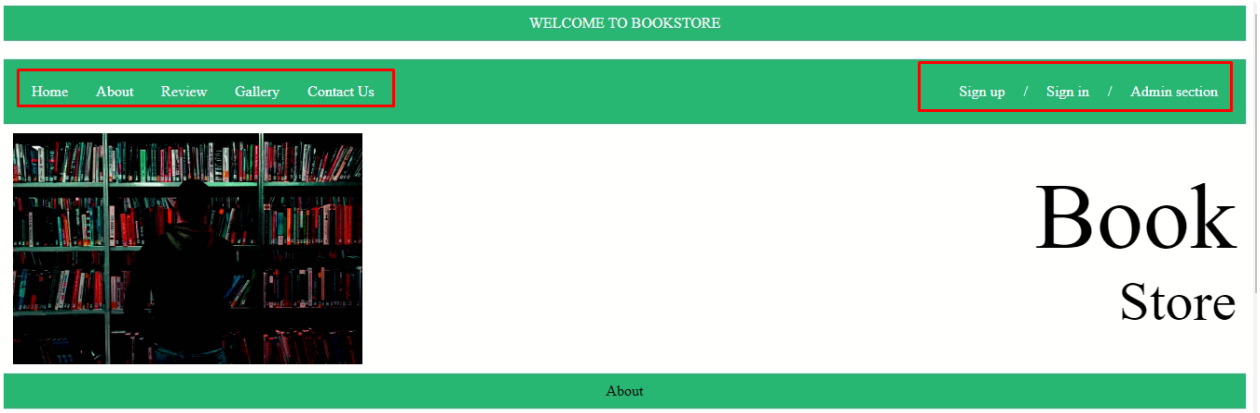
4. Design

4.1. Component level design following pattern:

- Component
- Interface
- Object Oriented
- Dependencies and Inheritance

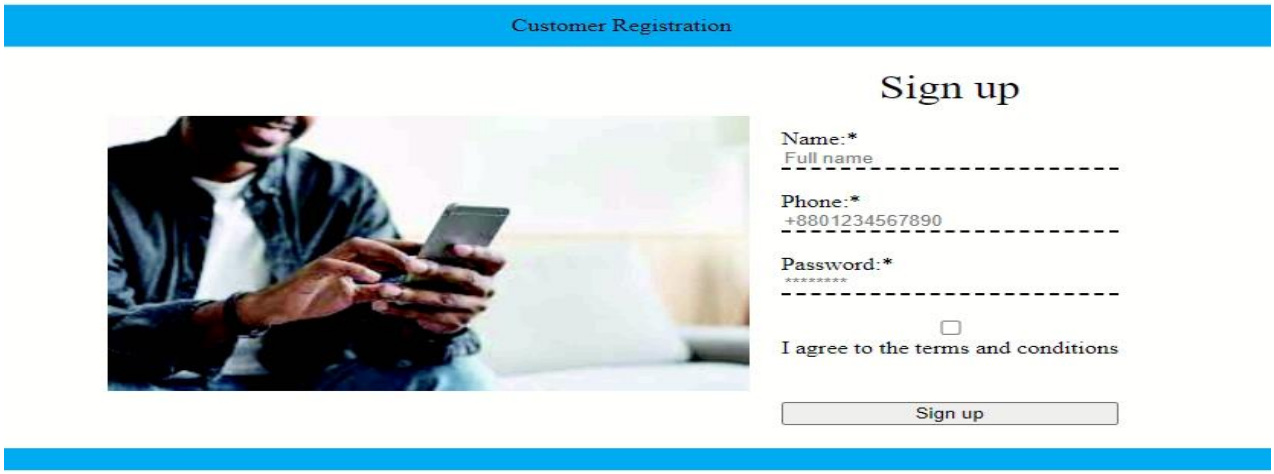
4.2. GUI (Graphical User Interface) design:

Homepage:



Sign In:

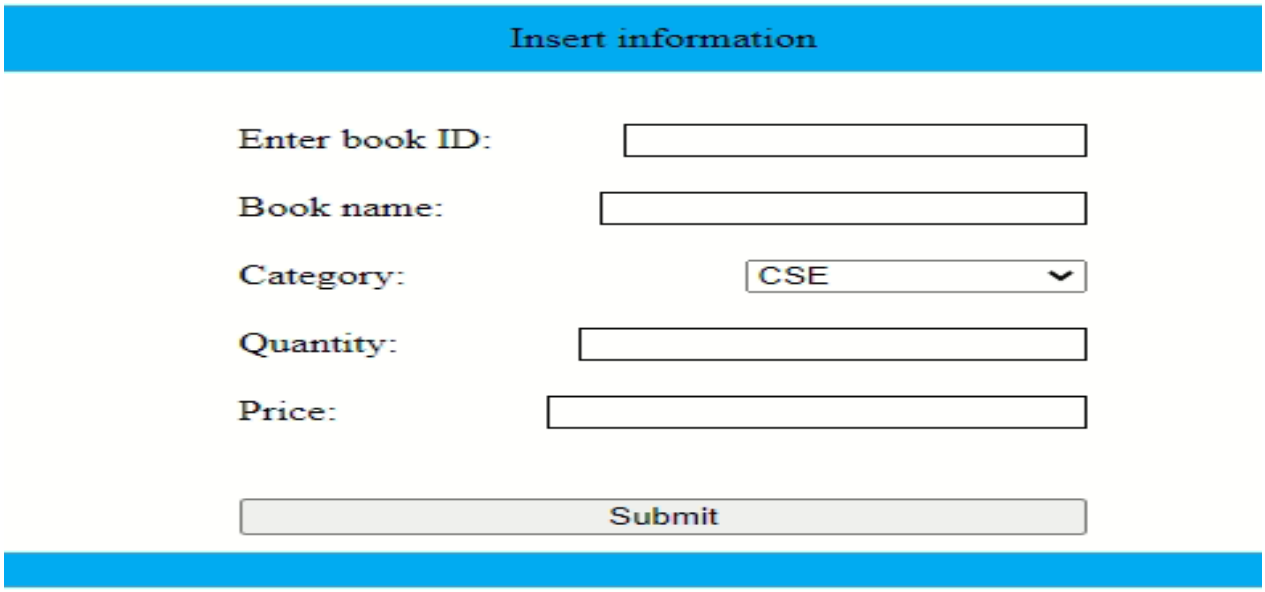
Sign Up:



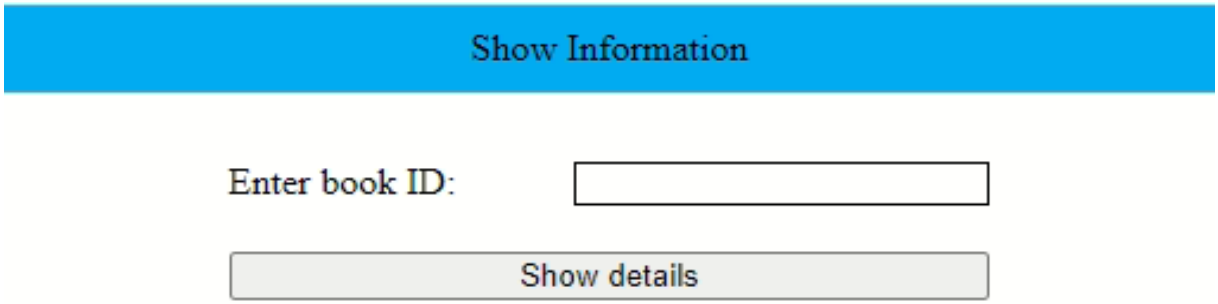
Gallery:

Admin Section:

Insert:



Show:



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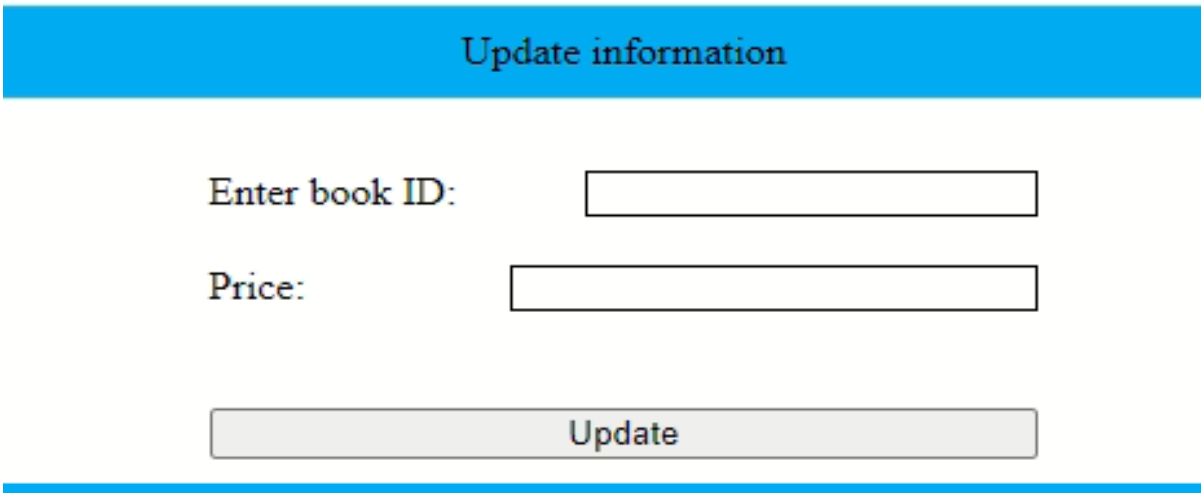
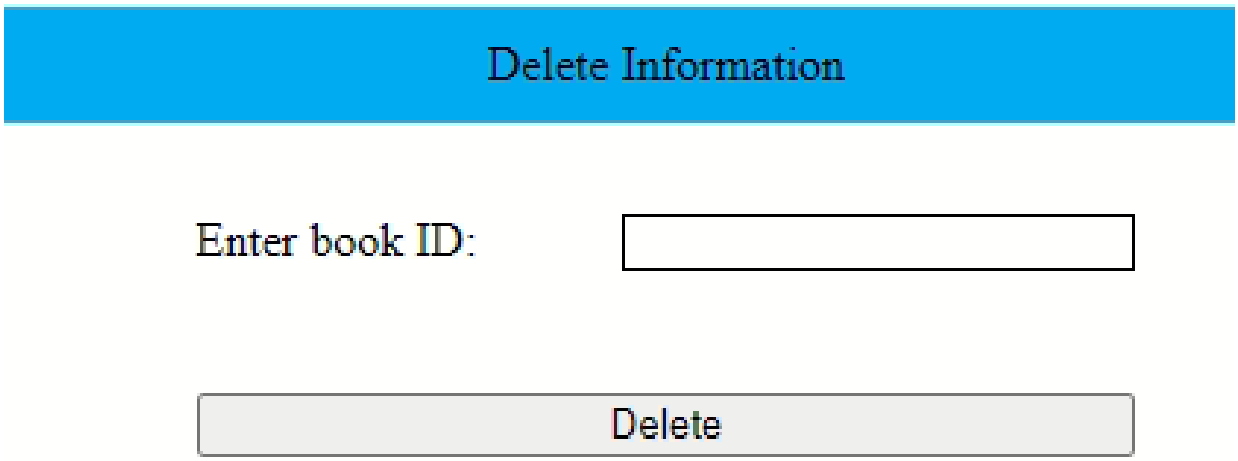


Delete:



5.Acknowledgment:

In completing this minor project, we have been fortunate to have help, support and encouragement from many people. We would like to acknowledge them for their cooperation.

We would like to thank Abu Naim Khan Sir, our project advisor, for guiding us through each and every step of the process with knowledge and support. Thank you for your advice, guidance and assistance.

6.References:

Website Name: academia

Link:

https://www.academia.edu/39438429/Online_Book_Store_Project_Report

Website Name: studocu

Link:

https://www.studocu.com/row/document/comsats-university-islamabad/software-engineering/online-bookstore-management-system/7800541