



Daffodil
International
University

BIBLIOPHILE

By

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Software Engineering.

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Fall – 2019

APPROVAL

This **Project** titled “**Bibliophile**”, submitted by **Md. Rafiul Kabir, ID: 161-35-1497** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc in Software Engineering and approved as to its style and contents.

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DECLARATION

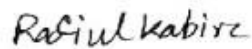
I hereby declare that, this project has been done by me under the supervision of **Nazia Nishat, Senior Lecturer, Department of SWE**, Daffodil International University. I also declare that neither this project nor any part of this project has been submitted anywhere for any degree.

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ACKNOWLEDGEMENT

First I express my sincere thanks and gratefulness to almighty for His blessing it is possible to me to complete the final year project successfully.

I really grateful and wish my profound liability to **Nazia Nishat, Senior Lecturer**, Department of SWE Daffodil International University, Dhaka. Mystic knowledge & keen interest of my supervisor in the field of “*Web Engineering*” to carry out this project. Her patience, guidance, encouragement, constant and energetic supervision, criticism, valuable advice, reading many inferior draft and correcting them at all stage. For her this kind of help made possible to complete this project.

I would like to thank my course mates, while I faced any difficulties I discussed with them freely.

Finally, I must acknowledge with due respect the constant support of my parents. Without their support I couldn't express my thought.

EXECUTIVE SUMMARY

In traditional system book lovers has to go to bookshop to buy books. But buying books from a website in today's circumstance is very normal. It saves their time and toil. So, now a days online bookshop is very popular.

'Bibliophile' is a web based system of Daffodil International University Bookshop (DIUP) which will resolve the traditional problem of going and buying books from the bookshop. As the numbers of online customers are increasing day by day, a web base solution is certainly more accurate than a traditional buying system.

This project is mainly a website for Online Book Sale. It provides the user a list of different books available for purchase in the store. A shopping cart is provided to the user to facilitate purchase in online. After the payment of the user the delivery man will deliver the books to the house of the user.

Thus, a customer can collect his books. And this is so easy but very efficient in both structural and operational point of view.

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Chapter 1: Introduction

1.1 Overview:

This project is engaged with selling books in favor of a website. Now question is, “What is website?”

“A website is a collection of related network web resources, such as web pages, multimedia content, which are typically identified with a common domain name, and published on at least one web server.

Websites can be accessed by a public Internet Protocol (IP) network, such as the Internet, or a private local area network (LAN), by a uniform resource locator (URL) that identifies the site.”

Nowadays there are many types of websites are used to do various types of work. Business sites are used to do business, news websites publish news, academic journal websites publish journals, gaming websites provide games, social networking websites connected people with each other. Thus, websites connect with us for making our life easier.

Online bookshop is also a website for selling books. Customer view books & select books of interest. The selected books are contain in a shopping cart. At checkout time, the items in the shopping cart is presented as an order. Customer provide more information to complete the transaction. The customer is asked to fill a shipping address, city, zip code, mobile number and payment information such as ‘Bikash’, ‘DBBL’, ‘Nogod’ number. Then the bookshop authority deliver the books to customer’s house. Customer need not come to bookshop to collect books.

1.2 Purpose:

- Customers buy books in an easier & simple process. No need to become a member to buy books.
- Customers can get books with very short period of time if he wants. Other bookshops may deliver within 2-3 days inside Dhaka and 4-5 days outside Dhaka. But I will deliver to the customer within 1 working day inside Dhaka & 2 working day outside Dhaka.
- At the beginning stage I implement these in our university, with our Daffodil Bookshop (DIUP).
- So, our students can get their academic books at their house from Daffodil Bookshop.

1.3 Goals of the Project:

The main functionality of this project is making the process of buying books from an online bookshop is a very easiest way. It helps customers to know about the book price, book description etc. And deliver books within a very short time from 'Daffodil Bookshop'.

1.4 Benefits:

- Allows anyone to buy books.
- Allows access to some critical interface easily.
- Deliver books within a very short time.
- DIU students get their textbook home delivery.
- User can send message to the Admin.
- User can read the book review.

1.5 Scope:

The website will be used by the Daffodil International University's students and rest of the people of Bangladesh. 'Daffodil Bookshop' also can sell their books via online. Some admin maintain the system. Only they get the authority to maintain the order, add new books & read message from users.

Chapter 2: Background

2.1 Introduction:

Before starting to work for this project I had to dig into the deep background of Online Bookshop. The acquired information will be represented here divided into several sections. This sectioning would help us basically in two ways - first it will prevent the information redundancy and second it will help representing more information in a short place.

2.2 History of Online Bookshop:

In 1993 Richard Weatherford established Interloc, "the first successful online bookseller service." Arguing that "our mission is to help booksellers find books for their own customers," Weatherford opened the database to booksellers only. Interloc evolved into Alibris in 1997. [1]

2.3 World Famous Online Bookshops:

AbeBooks, Alibris, Amazon.com, Angus & Robertson, Barnes & Nobel, BiblioZ are the famous online marketplace for read and buy books. Amazon.com is the world's largest online bookshop. It has country specific versions for Mexico, Germany, Japan, Australia, Brazil, Canada, China, France, India, Italy, and The United Kingdom. [2]

2.4 Bangladeshi Famous Online Bookshops:

Rokomari.com: 'Rokomari.com' is the first online bookshop in Bangladesh. It has the largest number of books in Bangladesh.

Daraz.com: 'Daraz.com.bd' sells books newly and it is increasing. They are very eager to rich their store. Within a very short time they will take a part to selling books at online in Bangladesh.

Bookshopbd.com: O and A level books are sell on this platform. Textbook, MS and questions Bookshop.bd has a huge collection.

Branoo.com: This is a bookstore of extensive collection of books. Fifty authors and publishers are on their partner. 'Branoo.com' has categorized the books into a different zone. That helps to the bookworms too. [3]

2.5 Implemented Technologies:

There are numerous technologies for building web applications that serve dynamic content. So I needed to study into the field of web technologies to select which technologies I am going to use to build the Bookshop (BIBLIOPHILE). I will discuss about the technologies briefly point by point.

2.5.1 Html:

HTML is one of the most popular markup language which is also a hypertext language. The HTML contents can be visible to the browsers. We, in our project used this language. Because we already learned it from our professional training. This markup language works based on tags on based on logic. No logical statements exist in HTML. It simply make skeleton of the web applications. [4]

2.5.2 Css:

CSS stands for Cascading Style Sheets. The style and layout of multiple pages are controlled by css. Styles define how to display HTML elements. CSS codes are always executed lastly and that is why it overrides the default settings of the browser. There are three types of CSS; one of them is external and that can save both times and works. They are stored in CSS files. In Stylesheets, there are rules, composition of selectors and declarations defining the way of applying the styles. The HTML element (redefined), class or ID name which also known as the selectors, is mainly the link in between the markup document and the stylesheets. There are two different types of css: types (HTML element tags) and attributes (such as class and ID names). [5]

2.5.3 Bootstrap:

Bootstrap is a front end framework which uses HTML, CSS and JavaScript and now a days it is one of the most popular currently. It is easy to learn and work with and it is also intuitive and robust and sleek-faster-mobile framework. [6]

2.5.4 PHP:

PHP works to control the flow of data. It is the easiest OOP language in this segment. I used php as the primary language for our development project. [8] Because I also learned PHP from my professional training from LICT. There is so many advantages of this languages –

- It is most popular
- Widely used all over the globe
- It is object oriented
- Secure
- Easy to learn
- Loosely typed
- Supports on different environments
- It can be in lined into HTML
- Server side language
- It is free from cost
- Generates markup codes
- Robust [9]

2.5.5 MySQL:

There are several database servers, MySQL is one of them. It is fit for smaller or larger applications. MySQL is cost free and supports SQL on several platforms. [7].

Chapter 3: Requirement Specification

3.1 Introduction:

In software engineering, requirement specification plays a vital role in any development life cycle. Basically it is a description of any system or it is a specific description for the proposed system. It is also known as stakeholder requirement.

It may contain some sorts of diagrams such as Unified Modeling Language Diagram (UML), Use Case Diagram or any kind of logical model e.g. Entity Relation Diagram (ER Diagram) etc. [10]

Here in this chapter, I am going to represent our proposed system's requirement specification by some Use Case Diagram, Activity Diagram and ER Diagram.

3.2 Requirement Collection and Analysis:

At first I motivated for the problem by facing some of my friends who needed textbook before the day of examination & their home was far from our university. Then I decided to do my 'Bibliophile' project. First, I decided to make a structure of the project from scratch to functional, then I will go for further features. The requirements were mainly-

- Allows anyone to buy books.
- Allows access to some critical interface easily.
- Deliver books within a very short time.
- DIU students get their textbook home delivery.
- User can send message to the Admin.
- User can call to the authority.
- User can read the book review.

3.3 Use Case Modeling and Description:

In any software development system it is necessary to show the relationship between the user and the Admin. This user's interaction with the Admin can be shown easily by a Use Case Diagram. It has the ability to identify different types of users of the system and the different use cases as well.

In other word it is a Unified Modeling Language (UML) that usually describes the set of actions that a system or systems should or can conduct in collaboration with one or more external users of the system, here the actions called as 'User' and the system called 'Admin'.

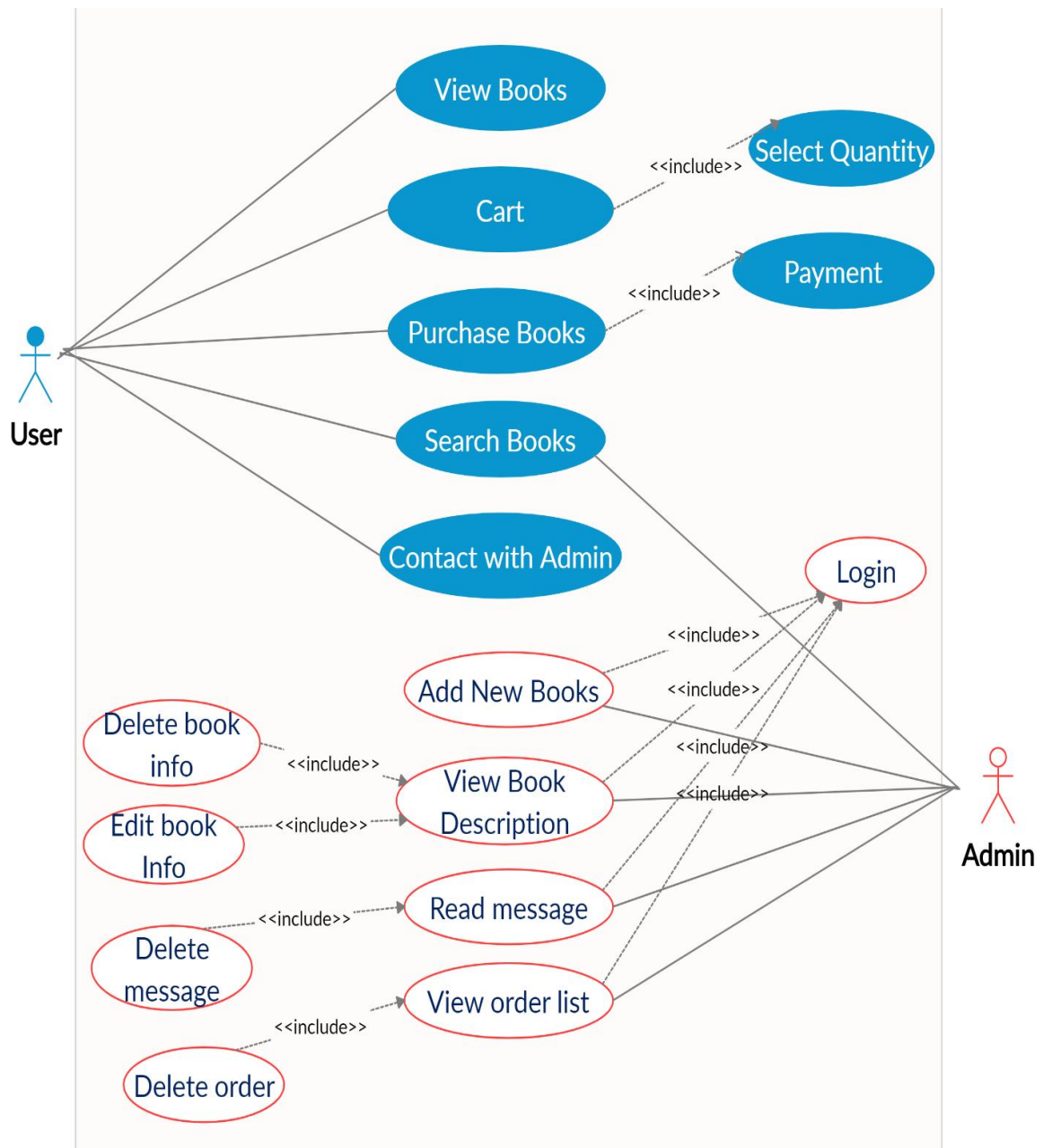


Figure 1: Use Case diagram of Bibliophile

Table 1: Use Case Description of View Books

Use Case Name	View Books
Priority	Essential
Trigger	Click on the 'book' to see all books
Pre-Condition	The system showed store data
Basic Path	Click on the book image to see book description
Alternative Paths	None
Post-Condition	Book's information showed
Possible Enhancement	None

Table 2: Use Case Description of Cart

Use Case Name	Select Quantity
Priority	Essential
Trigger	Click on 'Select Quantity to select quantity book on cart
Pre-Condition	The user must add book to the cart
Basic Path	Select book quantity
Alternative Paths	None
Post-Condition	Cart
Possible Enhancement	None

Table 3: Use Case Description of Cart

Use Case Name	Cart
Priority	Essential
Trigger	Click on 'Add to cart' to add book on cart
Pre-Condition	The user must add book to the cart
Basic Path	Select book quantity
Alternative Paths	None
Post-Condition	Purchase Book
Possible Enhancement	None

Table 4: Use Case Description of Payment

Use Case Name	Payment
Priority	Essential
Trigger	Input account number
Pre-Condition	At least one book available in the cart
Basic Path	Select payment method
Alternative Paths	Back to the cart
Post-Condition	Confirm message
Possible Enhancement	None

Table 5: Use Case Description of Purchase Books

Use Case Name	Purchase Books
Priority	Essential
Trigger	Input customer's details information
Pre-Condition	At least one book available in the cart
Basic Path	Fill all customer details
Alternative Paths	None
Post-Condition	Payment
Possible Enhancement	None

Table 6: Use Case Description of Search Book

Use Case Name	Search Book
Priority	Essential
Trigger	Click on the search bar to search book
Pre-Condition	Open the website
Basic Path	Click on search result to see details of books
Alternative Paths	None
Post-Condition	Book's information showed
Possible Enhancement	None

Table 7: Use Case Description of Contact with Admin

Use Case Name	Contact with Admin
Priority	Essential
Trigger	Input User information & write message
Pre-Condition	Open the website
Basic Path	Click on the 'Contact Us' to message Admin
Alternative Paths	Call to Admin
Post-Condition	Confirm message
Possible Enhancement	None

Table 8: Use Case Description of Login

Use Case Name	Login
Priority	Essential
Trigger	Input username & password
Pre-Condition	The system has to keep a record about admin.
Basic Path	Click on the 'Admin Login' to message Admin
Alternative Paths	None
Post-Condition	Enter into admin zone
Possible Enhancement	None

Table 9: Use Case Description of Add New Book

Use Case Name	Add New Book
Priority	Essential
Trigger	Input book information
Pre-Condition	The system has to keep a record about admin.
Basic Path	Admin must fill all input fields & add image
Alternative Paths	Back to the 'Admin Zone'
Post-Condition	Book's information stored in database & showed in the website
Possible Enhancement	None

Table 10: Use Case Description of View Book Description

Use Case Name	View Book Description
Priority	Essential
Trigger	Click on the book to see all information of that book
Pre-Condition	The system has to keep a record about admin.
Basic Path	To see books information
Alternative Paths	Back to the 'Admin Zone'
Post-Condition	Edit or delete books
Possible Enhancement	None

Table 11: Use Case Description of Delete Book Info

Use Case Name	Delete Book Info
Priority	Essential
Trigger	Delete book information
Pre-Condition	The system has to keep a record about books.
Basic Path	Admin delete the book's information
Alternative Paths	Back to the 'Admin Zone'
Post-Condition	Book's information delete from database & don't show in the website
Possible Enhancement	None

Table 12: Use Case Description of Edit Book Info

Use Case Name	Edit Book Info
Priority	Essential
Trigger	Edit book information
Pre-Condition	The system has to keep a record about books.
Basic Path	Admin edit the book's information
Alternative Paths	Back to the 'Admin Zone'
Post-Condition	Book's information update from database & then shown in the website
Possible Enhancement	None

Table 13: Use Case Description of Read Message

Use Case Name	Read Message
Priority	Essential
Trigger	Click on the 'Message' to see all users messages
Pre-Condition	The system has to keep a record about admin.
Basic Path	To read users messages
Alternative Paths	Back to the Admin Zone
Post-Condition	Reply to the email or delete message
Possible Enhancement	None

Table 14: Use Case Description of Delete Message

Use Case Name	Delete Message
Priority	Essential
Trigger	Click on the 'Message' to see all users messages
Pre-Condition	The system has to keep a record about message.
Basic Path	To delete users messages
Alternative Paths	Back to the Admin Zone
Post-Condition	None
Possible Enhancement	None

Table 15: Use Case Description of View Order List

Use Case Name	View Order List
Priority	Essential
Trigger	Click on the 'Order List' to see all orders
Pre-Condition	The system has to keep a record about orders.
Basic Path	To see Order List
Alternative Paths	Back to the Admin Zone
Post-Condition	Edit or delete orders
Possible Enhancement	None

Table 16: Use Case Description of Delete Order List

Use Case Name	Delete Order List
Priority	Essential
Trigger	Click on the 'Order List' to see all orders
Pre-Condition	The system has to keep a record about orders.
Basic Path	Delete customer's order items
Alternative Paths	Back to the Admin Zone
Post-Condition	None
Possible Enhancement	None

3.4 Activity Diagram:

To describe the dynamic perspective of the system, Activity diagram is another important diagram in Unified Modeling Language.

Basically a flowchart to represent the flow from one activity to another is Activity diagram. The activity can be described as an activity of the system.

The flow of control is drawn from one operation to another. This flow can be concurrent, branched, or sequential. Activity diagrams works with All type of flow control by using various elements like as fork, join, etc. [15]

It is relative idea for using and it can be represented as Activity Diagram. Figure 2 to figure 11 shows the Activity Diagram of Bibliophile.

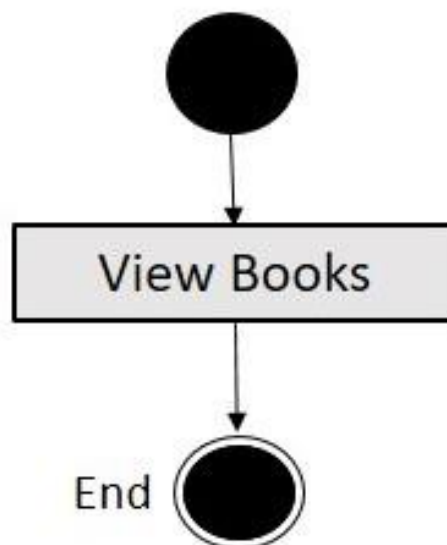


Figure 2: Activity Diagram of View Books

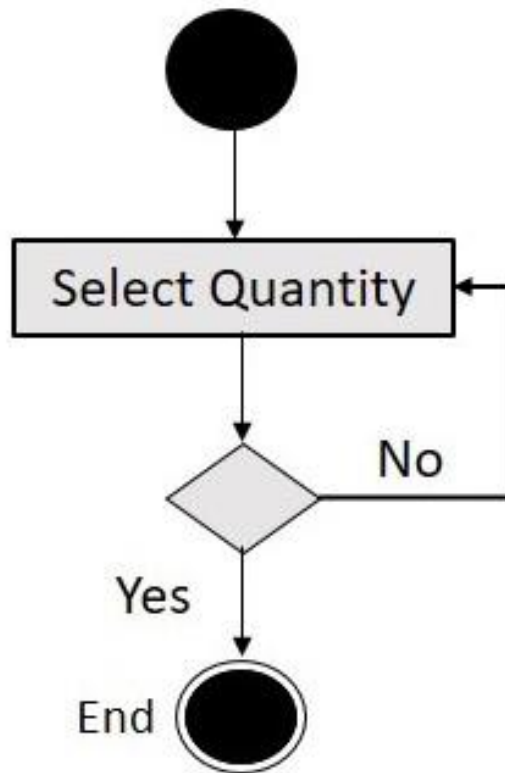


Figure 3: Activity Diagram of Select Quantity

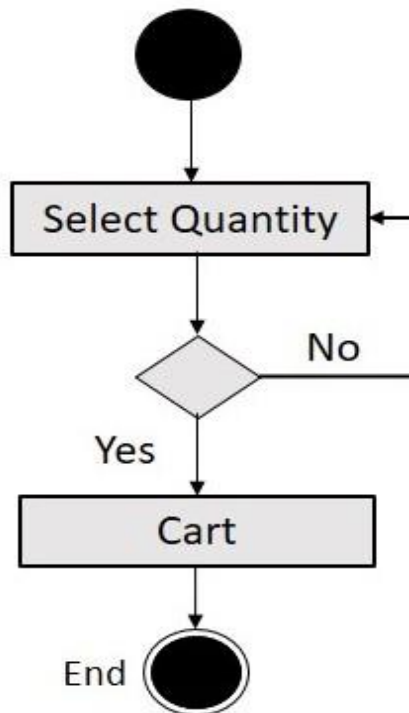


Figure 4: Activity Diagram of Cart

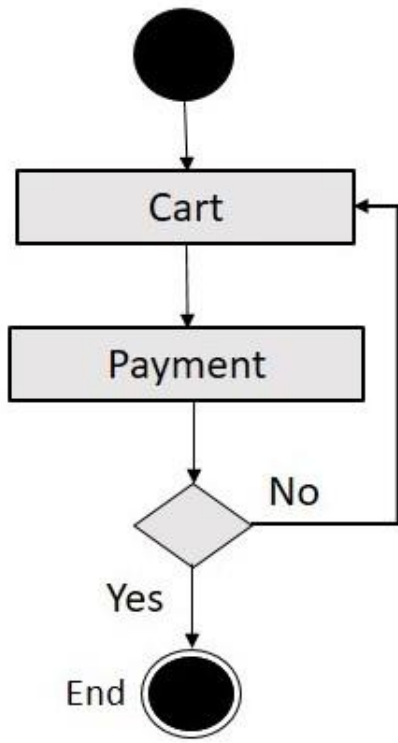


Figure 5: Activity Diagram of Payment

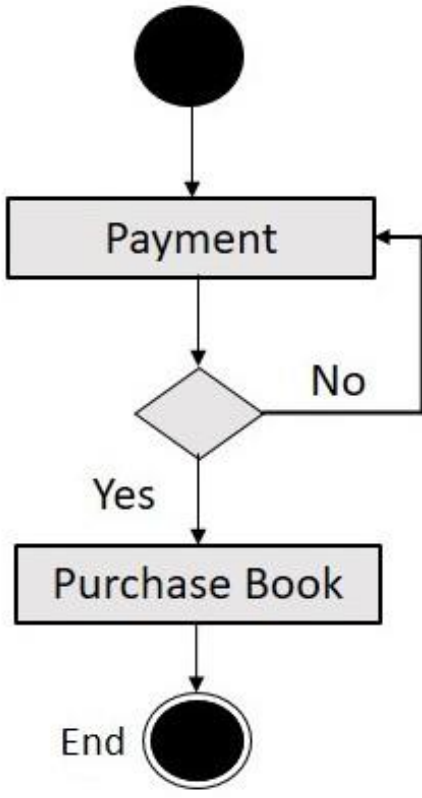


Figure 6: Activity Diagram of Purchase Books

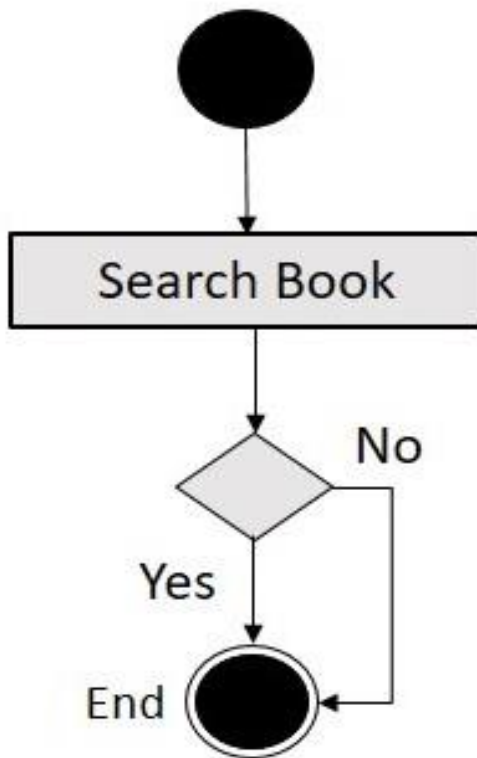


Figure 7: Activity Diagram of Search Book

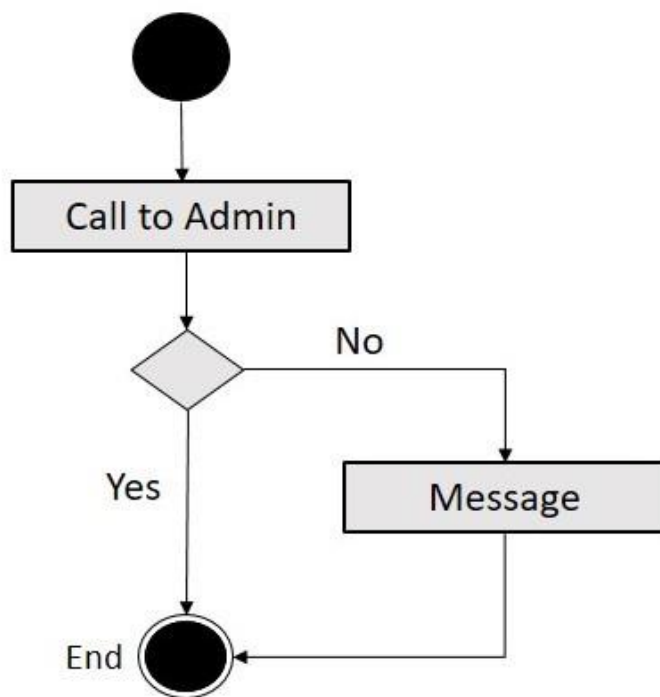


Figure 8: Activity Diagram of Contact with Admin

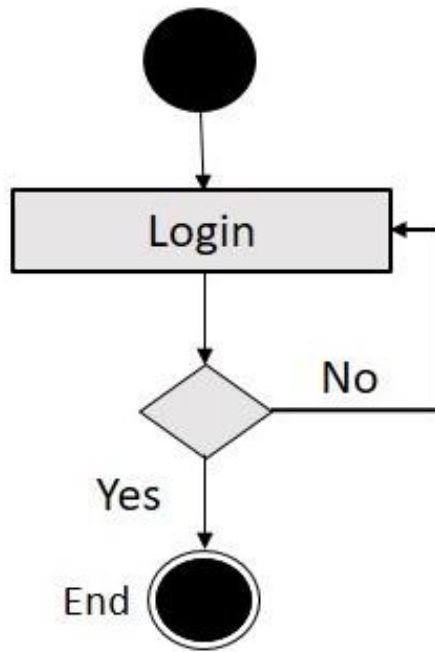


Figure 9: Activity Diagram of Login

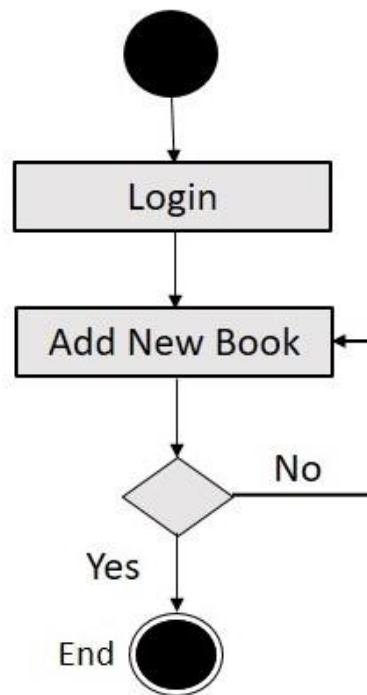


Figure 10: Activity Diagram of Add New Book

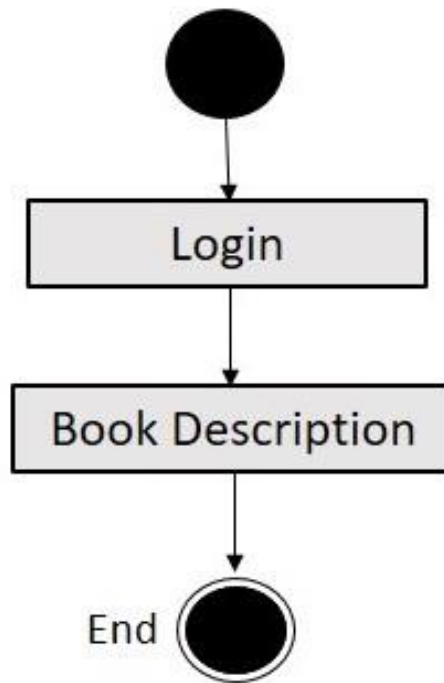


Figure 11: Activity Diagram of Book Description

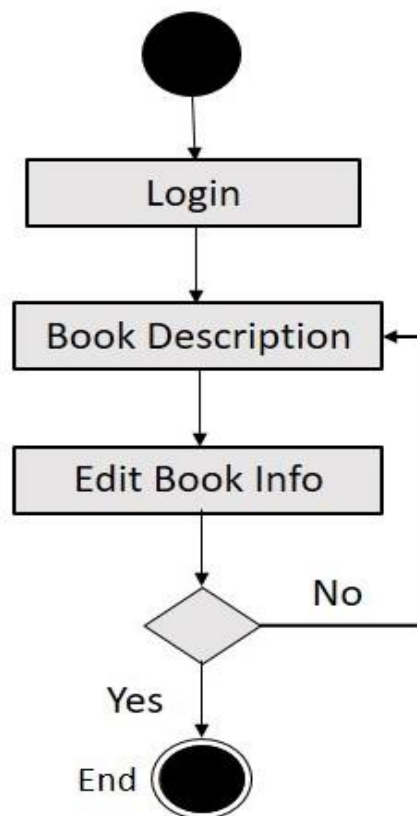


Figure 12: Activity Diagram of Edit Book Info

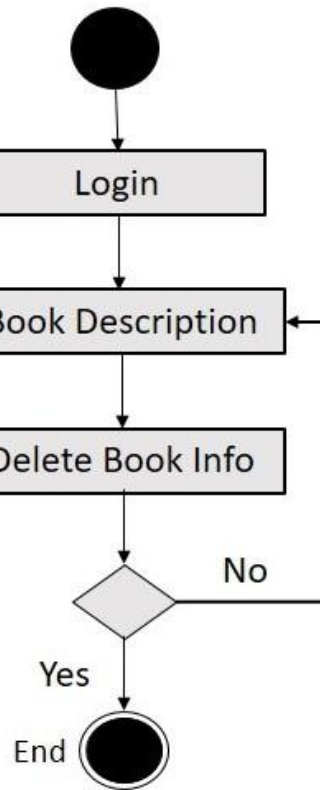


Figure 13: Activity Diagram of Delete Book Info

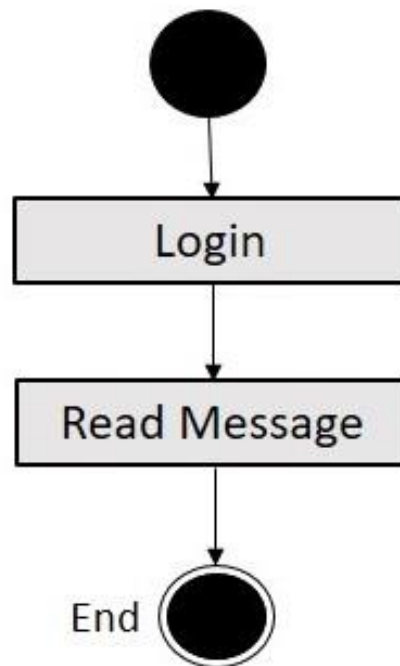


Figure 14: Activity Diagram of Read Message

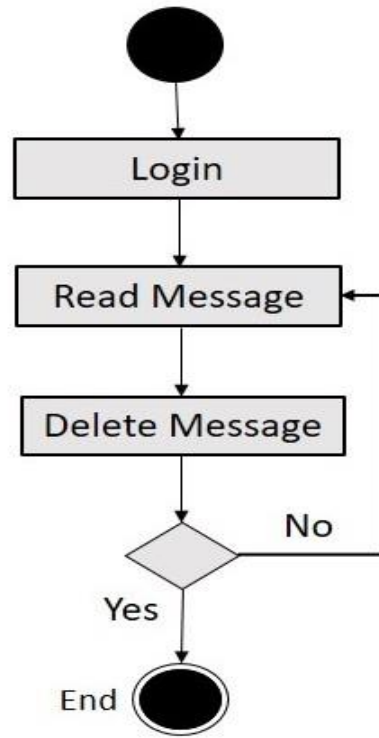


Figure 15: Activity Diagram of Delete Message

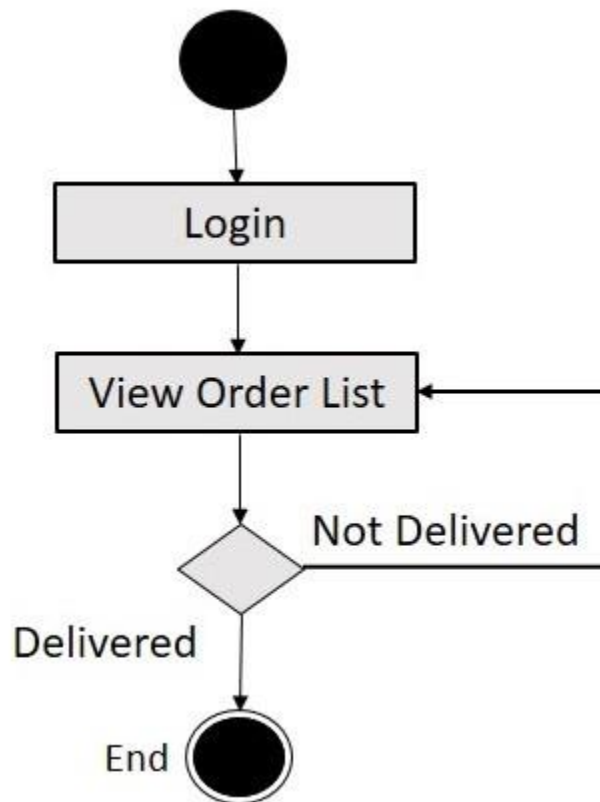


Figure 16: Activity Diagram of View Order List

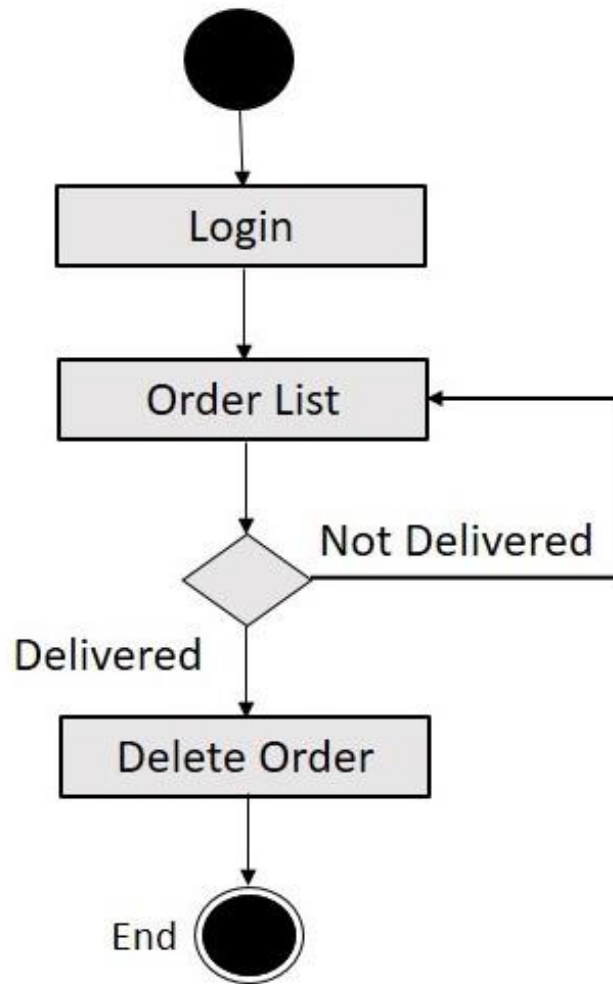


Figure 17: Activity Diagram of Delete Order

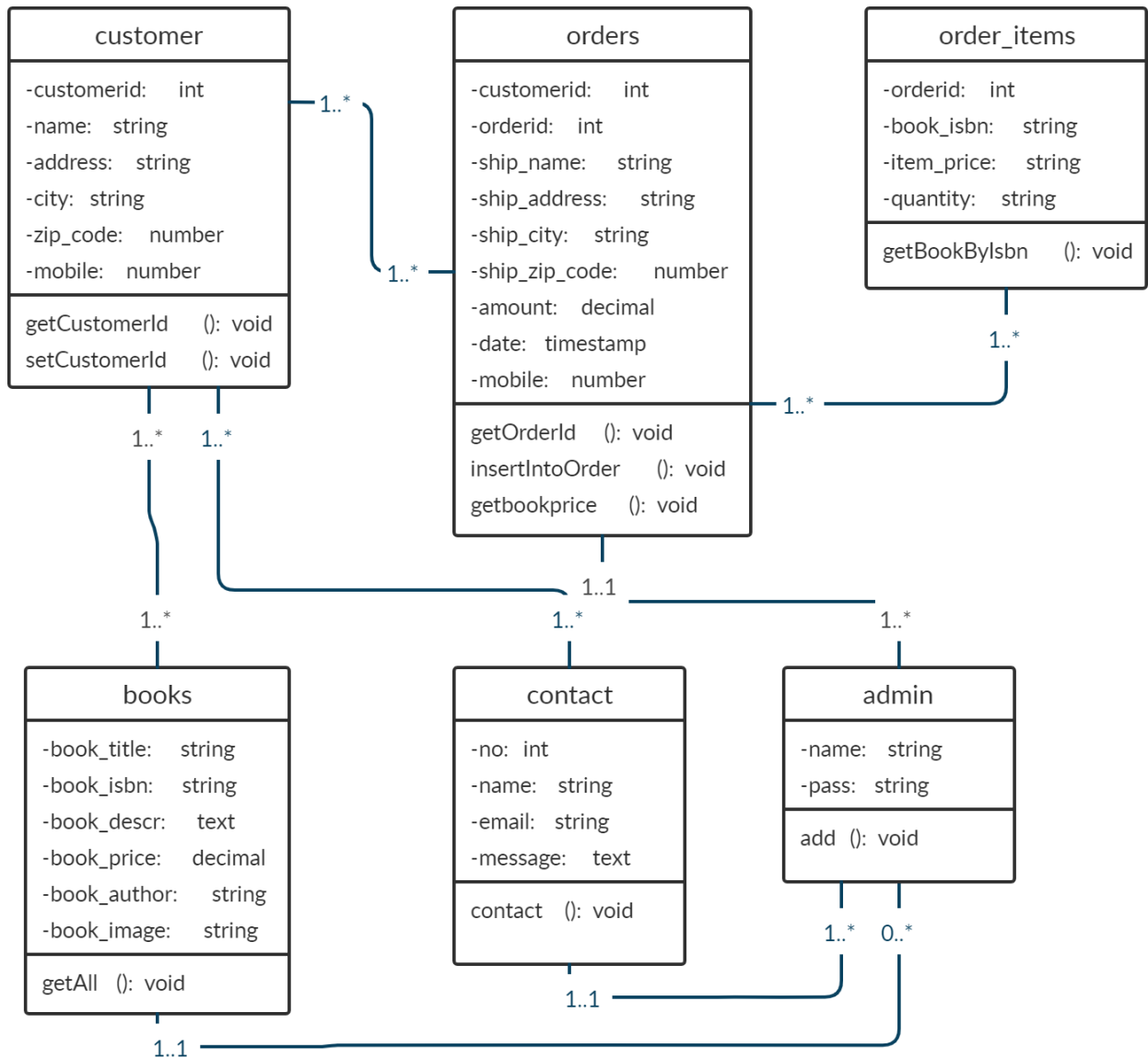


Figure 18: Class diagram of Bibliophile

3.5 Design Requirements:

- The whole system will be divided into two types of user e.g. the user, the admin.
- User will have internet access.
- User will enter the website.
- User will choose books and add cart for purchase.
- User will send message or call admin for his information.
- Admin will add new books, edit books & delete books.
- Admin will view order list and send the parcel to customers.
- Admin will view the message and reply.
- The developer will ensure the security to the user.

3.6 Logical Data Model:

The Logical Data Model, also known as Logical Schema is a kind of data model for a particular problem of a particular database management technology but the structure of data such as tables and columns or XML or OOP classes.[11] It is a version of data model. This model is represented requirements of business, entire or partial, and it is developed before PDM (physical data model).[12]

It is comparative idea for using and it is represented as Entity Relationship Diagram (ER Diagram). Figure 13 shows the ER Diagram of Bibliophile.

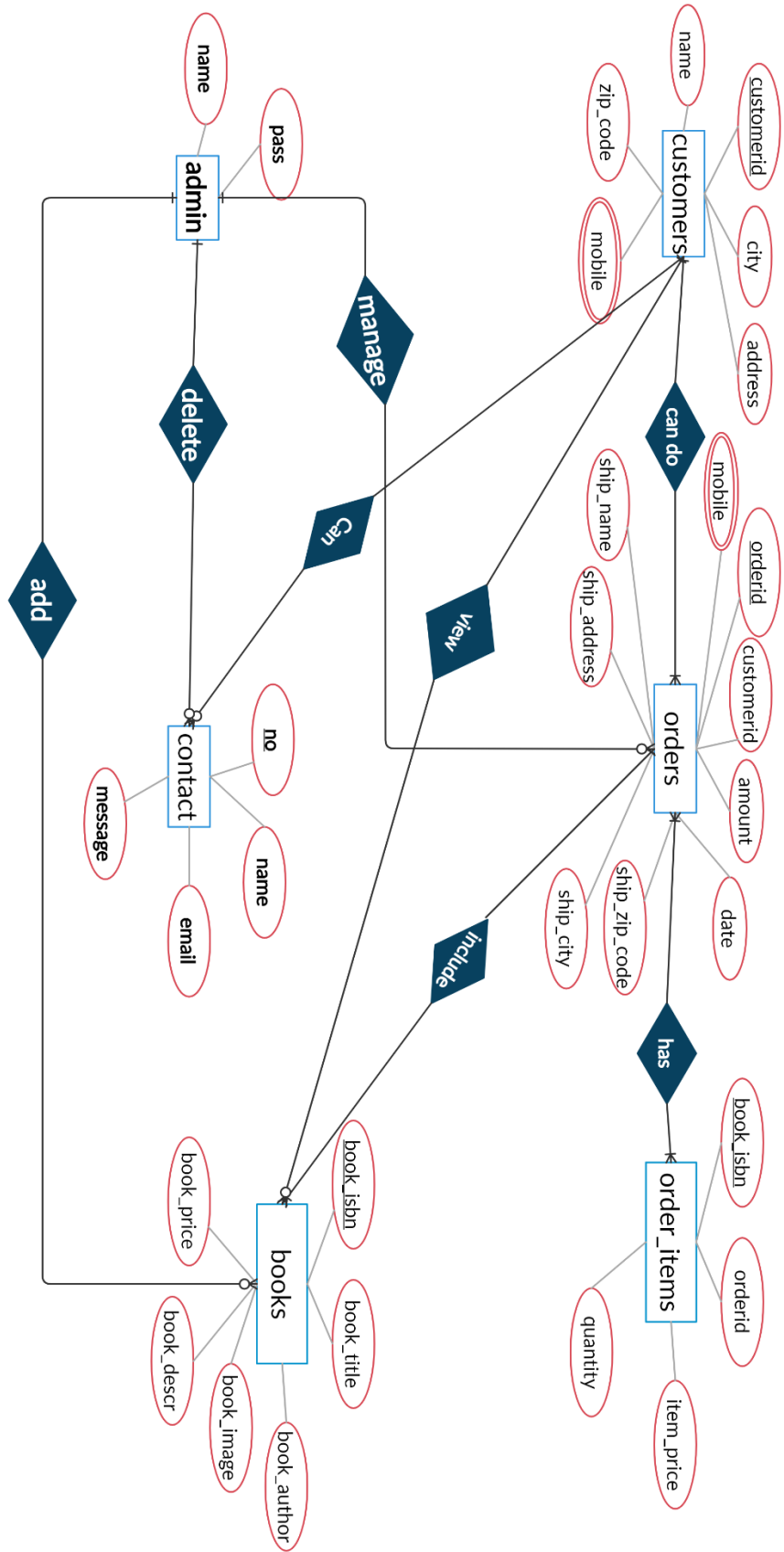


Figure 19: ER diagram of Bibliophile

Chapter 4: Design Specification

4.1 Font-end Design:

- Front page design of Bibliophile
- Admin Login interface design
- Admin Zone interface design
- Books interface design
- Add books interface design
- Delete books interface design
- Edit books interface design
- Order list interface design
- Delete order list interface design
- View message interface design
- Delete message interface design
- Admin book view, edit, delete page design

4.2 Back-end Design:

- Admin can manage the whole system
- Admin can add books
- Admin can edit and delete books
- Admin can access the whole system
- Admin can delete message
- Admin can delete orders
- All the data will be stored in the database

4.3 Interaction Design:

In my proposed system, I've implemented the whole interactive interface UI for better experience of the user. I've already given the screenshot of those designs. In some cases I used text or link or button. The user will feel comfortable using the whole designs.

4.4 Implementation Requirements:

Implementation for my proposed project are divided into some parts,

- **Used Technology:** The main requirements for our project are some web technology e.g. HTML, CSS, Bootstrap, JavaScript, PHP, MySQL, jQuery, Ajax etc. We have already discussed detailed in chapter 2.
- **Tools and Sites:** VScode Texteditor, XAMPP, Notepad++, Chrome Browser, Brave Browser etc.

Chapter 5: Implementation & Testing

5.1 Implementation of Database:

The requests generated from the SQL interface is maintained by a database management system, modifying data in response to these requests. This is include with a multilevel processing system. [13]

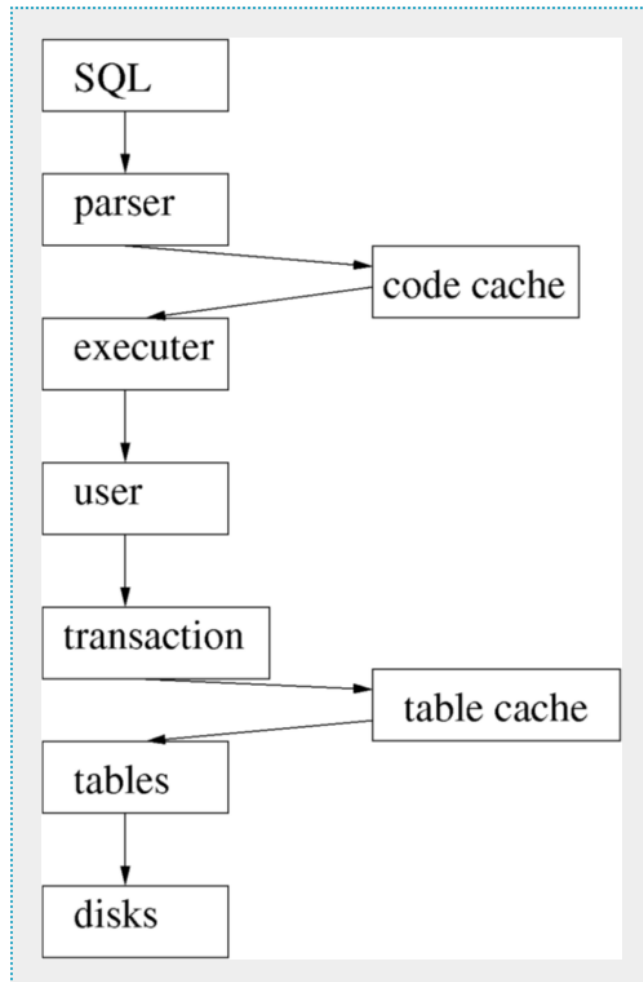


Figure 20: DBMS Execution and Parsing

I performed the database by this flow and made the relations as like as the ER Diagrams like before.

5.2 Implementation of Front-end Design:

First the user browse the front page of the website. The interface of the front page is given below:



Figure 21: front page of Bibliophile

After entering into the 'Bibliophile', the user can view books & book details. The view books & book details interface is given below:

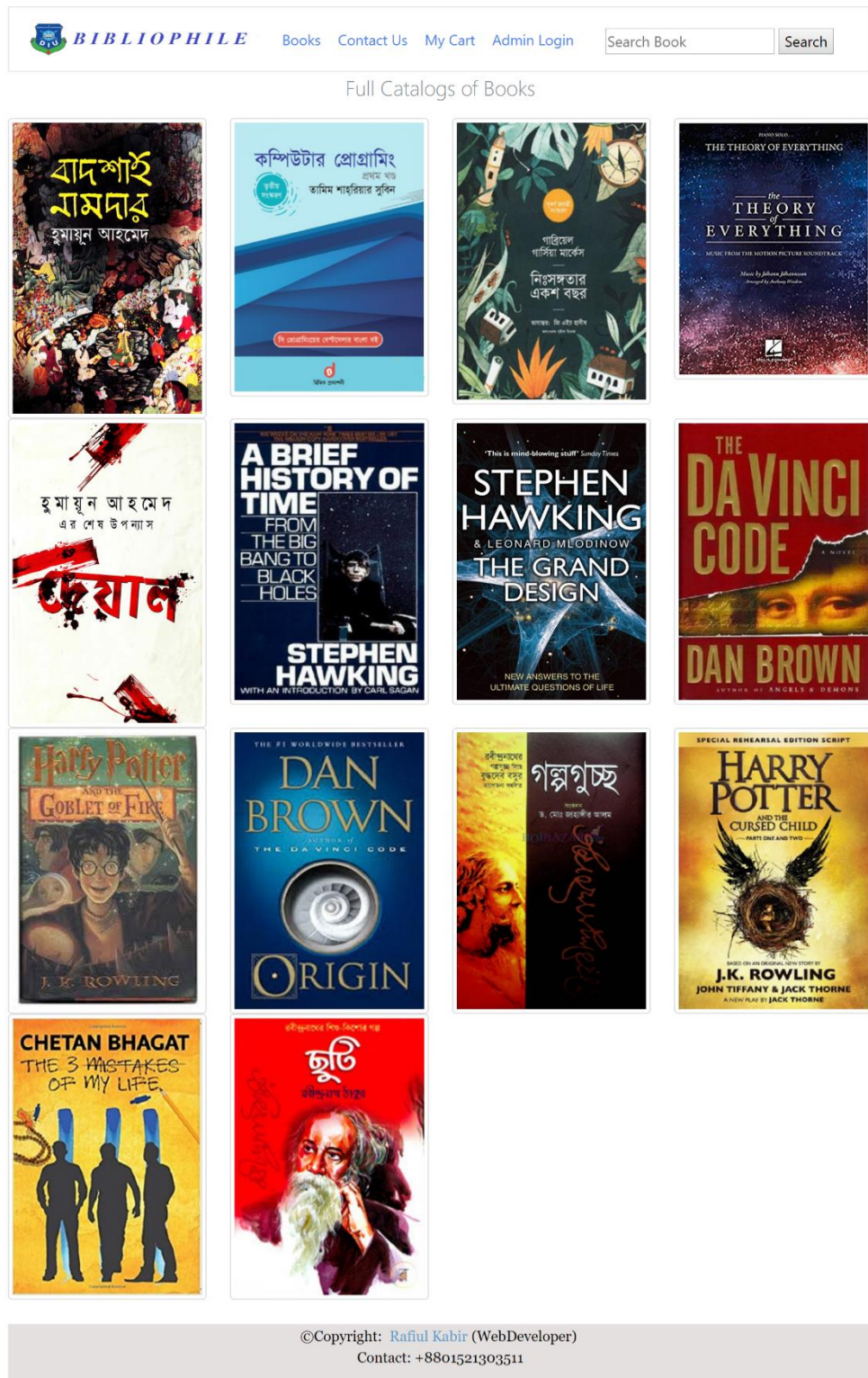
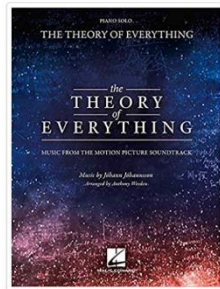


Figure 22: View Books of Bibliophile



Book Description

"The Theory of Everything" Back cover of the book: "...clearly possesses a natural teacher's gifts - easy, good-natured humor and an ability to illustrate highly complex propositions with analogies plucked from daily life." THE NEW YORK TIMES STEPHEN HAWKING is widely believed to be one of the world's greatest minds: a brilliant theoretical physicist whose work helped to reconfigure models of the universe and to redefine what's in it. Imagine sitting in a room listening to Hawking discuss these achievements and place them in historical context. It would be like hearing Christopher Columbus on the New World. Hawking presents a series of seven lectures - covering everything from big bang to black holes to string theory - that capture not only the brilliance of Hawking's mind but his characteristic wit as well. Of his research on black holes, which absorbed him for more than a decade, he says, "It might seem a bit like looking for a black cat in a coal cellar." Hawking begins with a history of ideas about the universe, from Aristotle's determination that the Earth is round to Hubble's discovery, over 2000 years later, that the universe is expanding. Using that as a launching pad, he explores the reaches of modern physics, including theories on the origin of the universe (e.g., the big bang), the nature of black holes, and space-time. Finally, he poses the questions left unanswered by modern physics, especially how to combine all the partial theories into a "unified theory of everything." "If we find the answer to that," he claims, "it would be the ultimate triumph of human reason." A great popularizer of science as well as a brilliant scientist, Hawking believes that advances in theoretical science should be "understandable in broad principle by everyone, not just a few scientists." In this book, he offers a fascinating voyage of discovery about the cosmos and our place in it. It is a book for anyone who has ever gazed at the night sky and wondered what was up there and how it came to be.

Book Details

ISBN	9789848825533
Author	Stephen Hawking
Price	500.00

[Purchase / Add to cart](#)

Figure 23: Book Details of Bibliophile

After viewing books & book details, user can add the book into cart. Then he can continue his shopping or go to checkout. Both interfaces are given below:

Item	Price	Quantity	Total
The 3 Mistakes of My Life by Chetan Bhagat	₹300.00	<input type="text" value="1"/>	₹300
		1	₹300

©Copyright: Rafiul Kabir (WebDeveloper)
Contact: +8801521303511

Figure 24: Cart of Bibliophile

Books > দেয়াল

Book Description

দেয়াল উপন্যাসটি এককথায় অনবদ্য। এর প্রধান কারণ হল, উপন্যাসের পটভূমি রচিত হয়েছে সেই সময়টিকে ঘিরে, যাকে নিয়ে প্রচুর জল্পনা থাকলেও লেখা খুব বেশি নেই। একজন উপন্যাসিকের দৃষ্টিতে তৎকালীন সোশ্যো-পলিটিকাল পরিস্থিতির চিত্রায়ন সত্যিই অসাধারণ। এর মাধ্যমে আরেকটি জিনিস সবার জানার সুযোগ হয়েছে। সেটি হল ইতিহাসের প্রতিশোধ। বঙ্গবন্ধু ও চারনেতা হত্যার পেছনের মানুষগুলো কিন্তু কেউ রেহাই পায়নি। নিজেরাই নিজেদের একে একে নিশ্চিহ্ন করেছে। ইতিহাস এভাবেই সমতা রক্ষা করে।

Book Details

ISBN	9789848825535
Author	হুমায়ূন আহমেদ
Price	250.00

Purchase / Add to cart

©Copyright: Rafiul Kabir (WebDeveloper)
Contact: +8801521303511

Figure 25: Book details

BIBLIOPHILE [Books](#) [Contact Us](#) [My Cart](#) [Admin Login](#)

Item	Price	Quantity	Total
The 3 Mistakes of My Life by Chetan Bhagat	₹300.00	<input type="text" value="1"/>	₹300
দেয়াল by হুমায়ূন আহমেদ	₹250.00	<input type="text" value="1"/>	₹250
		2	₹550

©Copyright: Rafiul Kabir (WebDeveloper)
Contact: +8801521303511

Figure 26: Checkout

After checkout customer must fill the billows input fields:

BIBLIOPHILE [Books](#) [Contact Us](#) [My Cart](#) [Admin Login](#)

Item	Price	Quantity	Total
The 3 Mistakes of My Life by Chetan Bhagat	₹300.00	1	₹300
দেয়াল by হুমায়ূন আহমেদ	₹250.00	1	₹250
		2	₹550

Name

Address

City

Zip Code


Mobile Number

Please press Purchase to confirm your purchase, or Continue Shopping to add or remove items.

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Contact: +8801521303511

Figure 27: Information of customer

Then comes payment option:


BIBLIOPHILE
Books [Contact Us](#) [My Cart](#) [Admin Login](#)

Search Book

Search

Item	Price	Quantity	Total
The 3 Mistakes of My Life by Chetan Bhagat	₹300.00	1	₹300
দেয়ালা by হুমাঊন আহমেদ	₹250.00	1	₹250
		2	₹550
Shipping			20.00
Total Including Shipping			₹570

Type

BIKASH
▼

Number


Cancel
Purchase

Please press Purchase to confirm your purchase, or Continue Shopping to add or remove items.

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Contact: +8801521303511

Figure 28: Selection of Payment Methods

After select payment options:


BIBLIOPHILE
Books [Contact Us](#) [My Cart](#) [Admin Login](#)

Search Book

Search

Item	Price	Quantity	Total
The 3 Mistakes of My Life by Chetan Bhagat	₹300.00	1	₹300
দেয়ালা by হুমাঊন আহমেদ	₹250.00	1	₹250
		2	₹550
Shipping			20.00
Total Including Shipping			₹570

Type

DBBL
▼

Number

12345

Cancel
Purchase

Please press Purchase to confirm your purchase, or Continue Shopping to add or remove items.

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Contact: +8801521303511

Figure 29: Selected payment Method

After click the 'purchase' button confirmation message shown in a new page:

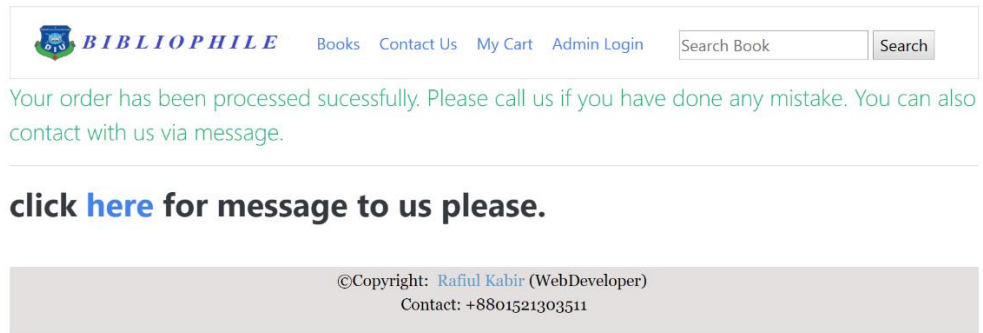


Figure 30: Confirmation of ordered books

Contact with admin page is given below:

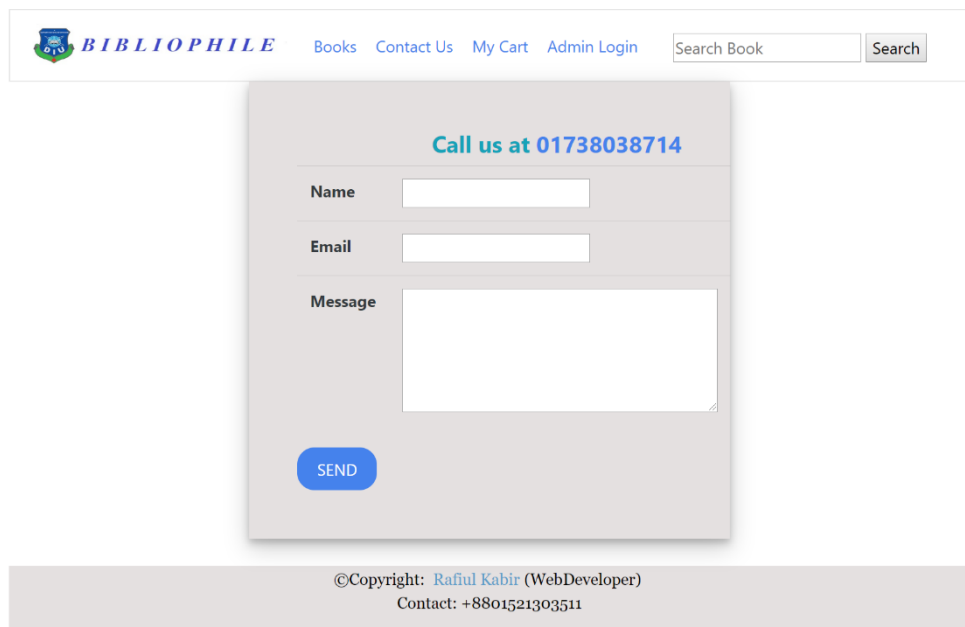


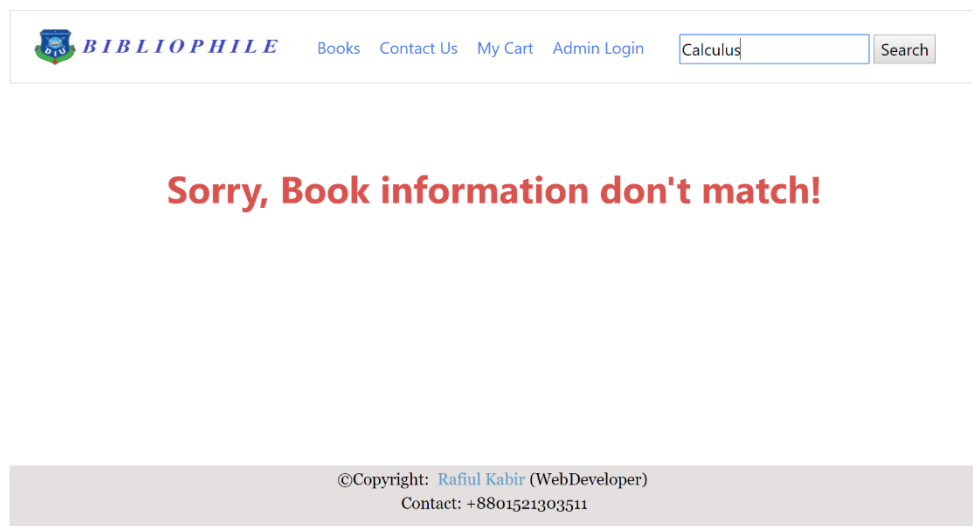
Figure 31: Contact with Admin of Bibliophile

User search books or author in the search box. If the book is available then it arrives, otherwise not.



The screenshot shows the top navigation bar of a website named 'BIBLIOPHILE'. It includes links for 'Books', 'Contact Us', 'My Cart', and 'Admin Login'. A search box contains the text 'Harry Potter' and a 'Search' button. Below the navigation bar, the text 'Search Result' is displayed in green. Underneath, the title 'Harry Potter and the Cursed Child' is shown in blue. At the bottom of the page, a grey footer contains the copyright information: '©Copyright: Rafiul Kabir (WebDeveloper)' and 'Contact: +8801521303511'.

Figure 32: Search (available)



The screenshot shows the top navigation bar of the same website, 'BIBLIOPHILE', with the same links as Figure 32. The search box now contains the text 'Calculus' and the 'Search' button. Below the navigation bar, a large red message reads 'Sorry, Book information don't match!'. At the bottom of the page, the same grey footer with copyright information is visible: '©Copyright: Rafiul Kabir (WebDeveloper)' and 'Contact: +8801521303511'.

Figure 33: Search (unavailable)

Admin need to login to access the ‘Admin zone’. The login interface is given below:

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Figure 34: Login interface of Bibliophile

Then the Admin can go to the main ‘Admin zone’. The ‘Admin zone’ design is given in figure 18.

ISBN	Title	Author	Image	Description	Price		
97898450200176	বাদশাহ নামদার	হুমায়ূন আহমেদ	badshah.jpg	‘বাদশাহ নামদার’ উপন্যাসের কাহিনী মুঘল সাম্রাজ্যের প্রতিষ্ঠাতা জহির উদ্দিন মুহাম্মদ বাবরের পুত্র নাসিরুদ্দিন মুহাম্মদ হুমায়ূন মীর্জাকে নিয়ে রচিত। কাহিনী শুরু হয় ১৫২৭ খ্রিস্টাব্দের আগস্ট মাসে। সম্রাট হুমায়ূন। ইতিহাসের এক বিচিত্র চরিত্র। সম্রাট হুমায়ূন রাজকর্মে অত্যন্ত মনোযোগী ছিলেন না। তিনি	300.00	Edit	Delete

Figure 35: ‘Admin zone’ interface of Bibliophile

Admin add new books. The interface is given below:

The screenshot shows the 'Add new book' form in the Bibliophile application. The form includes the following fields and controls:

- ISBN:** An empty text input field.
- Title:** An empty text input field.
- Author:** An empty text input field.
- Image:** A 'Choose File' button and the text 'No file chosen'.
- Description:** A large empty text area.
- Price:** An empty text input field.

At the bottom of the form, there are two buttons: 'Add new book' (in blue) and 'cancel' (in grey). The footer of the page contains the copyright information: '©Copyright: Rafiul Kabir (WebDeveloper) Contact: +8801521303511'.

Figure 36: Add book of Bibliophile

Admin can edit added books. The interface is given below:

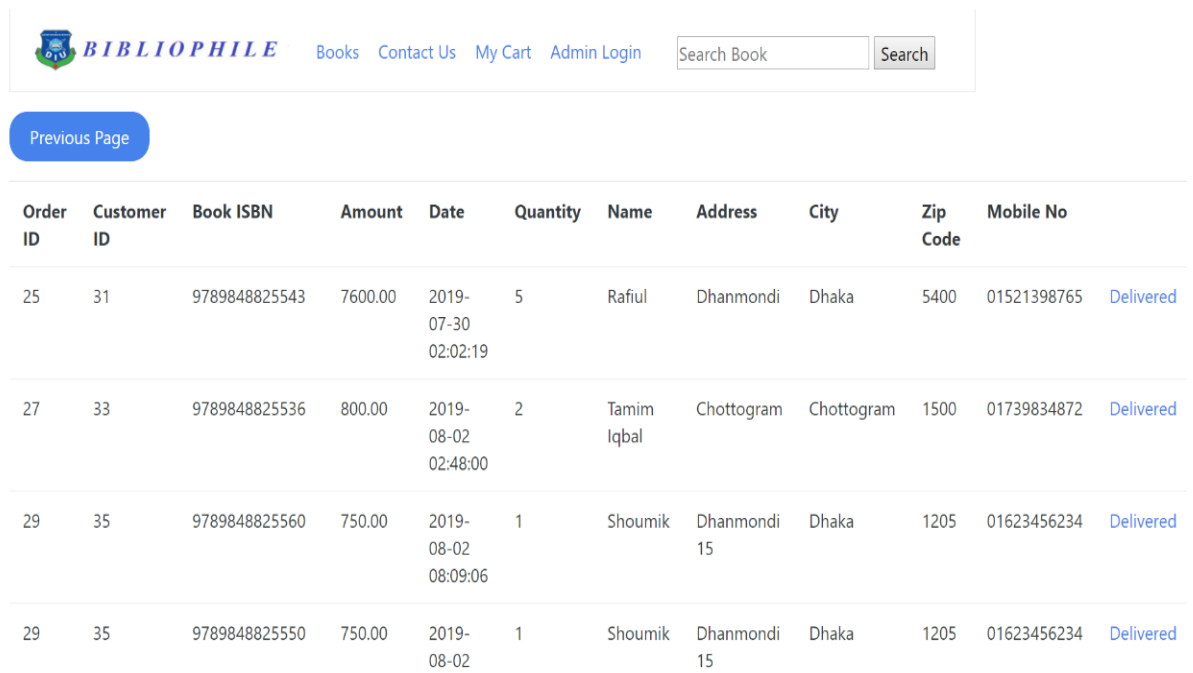
The screenshot shows the 'Edit Added books' form in the Bibliophile application. The form includes the following fields and controls:

- ISBN:** A text input field containing the value '9789848042014'.
- Title:** A text input field containing the value 'Computer Programming 1'.
- Author:** A text input field containing the value 'তামিম শাহরিয়ার সুবিন'.
- Image:** A 'Choose File' button and the text 'No file chosen'.
- Description:** A text area containing the text: 'কম্পিউটারের জন্ম হয়েছিল কম্পিউট বা হিসাব করার জন্য। এখন কম্পিউটারে মানুষ গান শোনে, সিনেমা দেখে, চিঠি পোখে, ফেসবুক করে, ইন্টারনেট ঘাটাঘাটি করে, এমনকি চুরিচামারি পর্যন্ত করে কিন্তু হিসাব করে না! অথচ কম্পিউটারে কম্পিউট করার মতো আনন্দ'.
- Price:** A text input field containing the value '250.00'.

At the bottom of the form, there are two buttons: 'Change' (in blue) and 'Confirm' (in green). The footer of the page contains the copyright information: '©Copyright: Rafiul Kabir (WebDeveloper) Contact: +8801521303511'.

Figure 37: Edit Added books of Bibliophile

The interface of view & delete 'order list' is given below:



The screenshot shows the Bibliophile website interface. At the top, there is a navigation bar with the logo, links for Books, Contact Us, My Cart, and Admin Login, and a search bar. Below the navigation bar is a 'Previous Page' button. The main content is a table with the following columns: Order ID, Customer ID, Book ISBN, Amount, Date, Quantity, Name, Address, City, Zip Code, Mobile No, and a status link (Delivered).

Order ID	Customer ID	Book ISBN	Amount	Date	Quantity	Name	Address	City	Zip Code	Mobile No	
25	31	9789848825543	7600.00	2019-07-30 02:02:19	5	Rafiul	Dhanmondi	Dhaka	5400	01521398765	Delivered
27	33	9789848825536	800.00	2019-08-02 02:48:00	2	Tamim Iqbal	Chottogram	Chottogram	1500	01739834872	Delivered
29	35	9789848825560	750.00	2019-08-02 08:09:06	1	Shoumik	Dhanmondi 15	Dhaka	1205	01623456234	Delivered
29	35	9789848825550	750.00	2019-08-02	1	Shoumik	Dhanmondi 15	Dhaka	1205	01623456234	Delivered

Figure 38: Order List of Bibliophile

The interface of view & delete 'Message' is given below:

Message ID	Name	Email	Message	
2	Shoumik	rimi@gmail	hi, I am testing...	Delete
3	Shoumik	rimi@gmail	hi, I am testing...	Delete
4	Tawhid	rimi@gmail	my first	Delete
5	Dipto	mohiuddin.azad71@gmail.com	No need to give your kids boring lectures on saving. With Finnest, your kids will learn through experience as they watch their progress and reach their goals with smart money choices. They can take a picture of what they want, set a goal, and move their money between goals as they prioritize. Smart reminders will help them along the way. And when they reach their goal, confetti rains! Keep an eye on your kids' purchases and stop worrying about what they're spending when they're not with you. If they misplace their card, you can lock the card instantly through the app, keeping funds safe.	Delete
6	Rafiul Kabir	rafiulkabir2@gmail.com	I want to more books. So, please confirm me my updated order.	Delete
7	Tawhid	mohiuddin.azad71@gmail.com	I ordered a book a day before.	Delete
9	Anisul Haque	anis@gmail.com	Please deliver my books for only 1 hrs.	Delete
10	Sakib	sakib@gmail.com	I need story books.	Delete

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Contact: +8801521303511

Figure 39: Message List of Bibliophile

5.3 Implementation of Interaction:

In my system, I have implemented the whole interactive interface UI for better experience of the user. I've already given the screenshot of those interfaces. In some cases I used text or link or button. I hope, the user will feel flexible using the whole system.

Browsing in Bibliophile will be more flexible near future and also will develop the interface. Full website of Bibliophile are well maintained as well.

5.4 Testing Implementation:

There are several techniques to test the system. I followed the agile model. I divided the whole project into small units and set an interval to develop it. After developing the small unit, I tested the unit and start a new unit.

In this way I tested my project. In the phase of implemented front-end and back-end, I faced several challenges.

When the full project had done, then I integrated the testing report and performed a compact testing.

5.5 Test Results and Reports:

There were several number of testing technique is real time software development life cycle. But I tested my system is two testing system. Those two systems were unit testing and integration testing.

As beginning of the coding section is unit testing. Where I make our different module, I tested by unit testing. After completing our full system, I tested by integration testing system. In every test section I found some problem and at that time I solved that. After then I completed my proposed system.

Chapter 6: Conclusion & Future Scope

6.1 Discussion and Conclusion:

Doing this kind of work as final year project is a blessing for me. Because, first it helped me to build up my level of confidence. On the other hand, there is no doubt that, it is a huge work for some apprentice like me. For this, at first, I would like to thank to the Almighty, without his mercy I wouldn't be able to complete this project; I have been doing this project for 8 months, if He wouldn't keep us healthy and sound, it was quite impossible to complete this project. Then special thanks to my project supervisor, Nazia Nishat, without her consultancy it would be quite impossible for me to complete this.

I have gone through many challenges and difficulties while completing this project and as a result, I learned so many things – both technical and ethical and professional. Eight months ago, when I first started working, there were lacks in my technical experience that I recovered during working with the project. And also, I had to learn many new things. I believe this will be a fit companion for my career.

Though there are some limitations in my project, I have already discussed about it before, but this also has some pretty good features. I only make this 'DAFFODIL BOOKSHOP: BIBLIOPHILE' functional from scratch but there is a long way to continue. May be this project is complete for this final year project, but actually it not ending at all. I'd like to say that this is the beginning of the beginning. I have some future plans I'll be working in future. It is obvious, this (completing this project) is the first step on my very great visions what I've been working for.

6.2 Scope for Further Developments:

- Pdf of old version books what a reader wants to read but publisher don't publish it. From there I will give the writer the royalty.
- If any writer want to publish his/her book's soft copy then he/she can do it here. I will give him royalty. For this, specially expatriate and immigrant Bengali book lovers will be surely benefited. It will also help for the student & the bookworms who want to read so many books but can't afford it.
- As quick as possible delivery. If customer wants then book will deliver within one working day.
- Book review, Book news & Advertisement of upcoming books **from Facebook** group, 'Boier Poka'. [14]
- Add new features.

References

- [1]. <http://www.historyofinformation.com/detail.php?id=1042>
- [2]. https://en.wikipedia.org/wiki/List_of_online_booksellers
- [3]. <http://deshicoupon.com/blog/online-bookstores-bangladesh/>
- [4]. R. Shannon. What is HTML?, 2012.
<http://www.yourhtmlsource.com/starthere/whatishtml.html>
- [5]. <http://blog.teachbook.com.au/index.php/computerscience/web-development/html-guide>
- [6]. PHP. What is PHP?, 2012.
<http://www.php.net/manual/en/intro-what-is.php>
- [7]. W3Schools. PHP introduction, 2012.
http://www.w3schools.com/php/php_intro.asp
- [8]. W3Schools. PHP introduction, 2012.
http://www.w3schools.com/php/php_intro.asp
- [9]. PHP. What is PHP?, 2012.
<http://www.php.net/manual/en/intro-what-is.php>
- [10]. Software requirements specification
https://en.wikipedia.org/wiki/Software_requirements_specification
- [11]. https://en.wikipedia.org/wiki/Logical_schema
- [12]. <https://learndatamodeling.com/blog/logical-data-modeling-tutorial/>
- [13]. DBMS Implementation
<https://db.grussell.org/imp.html>
- [14]. 'Boier Poka', Facebook group
<https://www.facebook.com/groups/we.are.bookworms>
- [15]. Activity Diagrams
https://www.tutorialspoint.com/uml/uml_activity_diagram.htm