



**Daffodil**  
*International*  
**University**

## **PROGRAM OF STUDY**

**BSc (Hons) in Computing and Information System (CIS)**

**COURSE CODE: CIS 499**

## **TITLE OF THE PROJECT:**

**LIBRARY & BOOK SHOP MANAGEMENT IN BD**



**Semester: SUMMER 2020**

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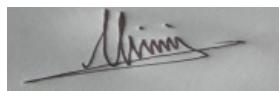
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I hereby declare that, this project has been done by me under the supervisor of **Md. Minhaj Hosen**, Lecturer of the department of CIS of Daffodil International University. It is also declared that neither this project nor any part of there has been submitted anywhere else for the award of any degree, diploma or other qualifications.



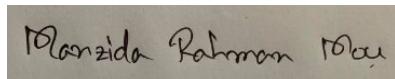
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### **Acknowledgement:**

Creating a software project is always a challenging task. I am too much glad full that Allah helps me lot during this project work so that; I can complete my final project work in limited time for BSc degree in Computing & Information System (CIS). In this time a man always besides me. He is my beloved lecturer **Mr. Md. Minhaj Hosen**, Department of CIS, Daffodil International University. He helps me lot about research work and project development work. Proper guidelines are provided when needed for the project creation. Without his help this module would not be completed. My family member also supports me during my development time by motivated me lot. I also thanks to my university authority and technicians for this project work; they provide the platform for doing this practical project work in my university life. Thanks a lot.

**Name: Manzida Rahman Mou**

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**Dedicated**  
**To**  
**My Beloved**  
**Parents**

## **Executive Summary:**

Human lives are about taking knowledge till death. Books are the best friend for human. But in digitalized busy life we cannot go library regularly. We feel easy if works will be digitalized online. Many people are read electronic version of books. But still library and books are important in human life. My proposed system is about online library and shop management in Bangladesh. Book lovers can exchange their books, sell or buy their books. People need these resources and need to interact with members to solve any kind of book-oriented problems. That's why they need a platform where library shop owner can make their books details available to peoples and can easily get them and they both can interact with each other's to solve any problems and store book details, exchange and buy books etc. So, I have made this system as web based online book management for making business on online. This system creates new business era in Bangladesh with the people who are works with the books.

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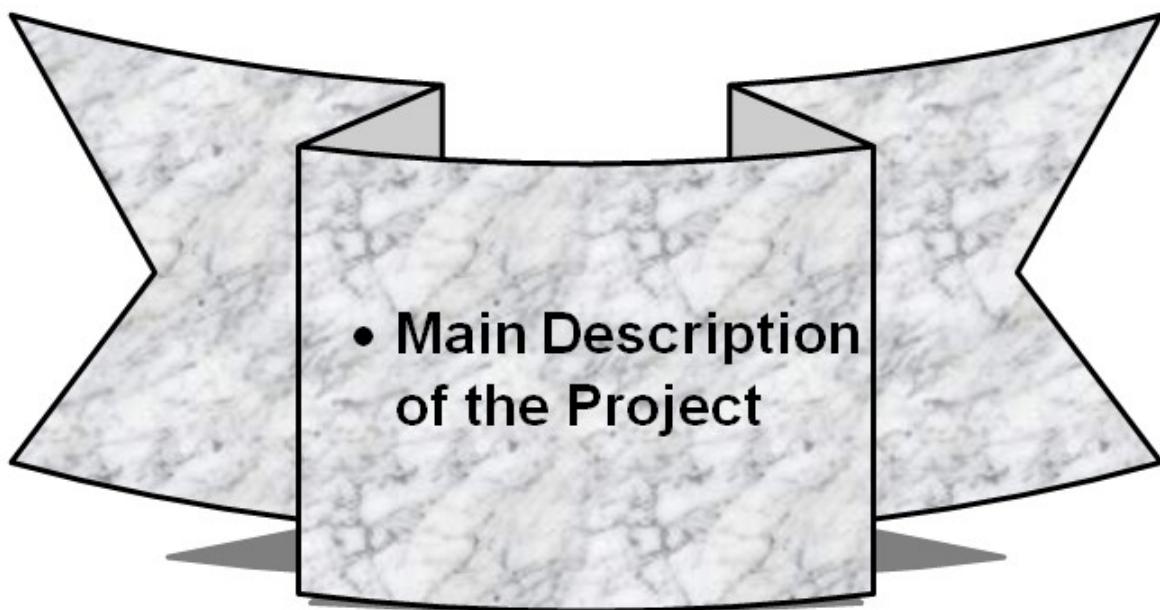
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## **Chapter – 1: Introduction**



## **1.1 Main Description of the Project**

Nowadays people leads very busy life and wants to do tasks on online. They feel easy to do work on online. Book lovers wants library management system, exchange their books, sell or buy their books. Sometimes they give these things freely and sometimes they want to sell them. People need these resources and need to interact with members to solve any kind of book-oriented problems. That's why they need a platform where library shop owner can make their books details available to peoples and can easily get them and they both can interact with each other's to solve any problems and store book details, exchange and buy books etc.

My proposed system is about online library and shop management in Bangladesh. Book lovers can exchange their books, sell or buy their books. People need these resources and need to interact with members to solve any kind of book-oriented problems. From that point of view, I have taken a decision to develop a web-based platform where library owner can easily make available their resources of books and members can get them through searching by category. People can lend, buy, sell or exchange books easily through the system. This site creates a new business sector in Bangladesh for the people who want to do work or business in books.

This project's concepts are:

- ❖ Registration of the system, Login. Admin and Members or library shop owner need to log them in into system to complete any kind of action.
- ❖ Password recovery process for forget password.

- ❖ Dashboard based on different types of users.
- ❖ Admin can manage library shop data and books.
- ❖ Admin can manage stored books. Easily searching facility for online books.
- ❖ Review under book shop owner or any kind of book purchases.
- ❖ System improvement feedback facility.
- ❖ Similar types of books showed similar category.
- ❖ Live chat between book holders and members of the system.
- ❖ Members can send request to other members for exchange books. In this case, if they have and then they can upload their book details.

### 1.1.1 Project Objective and Goals

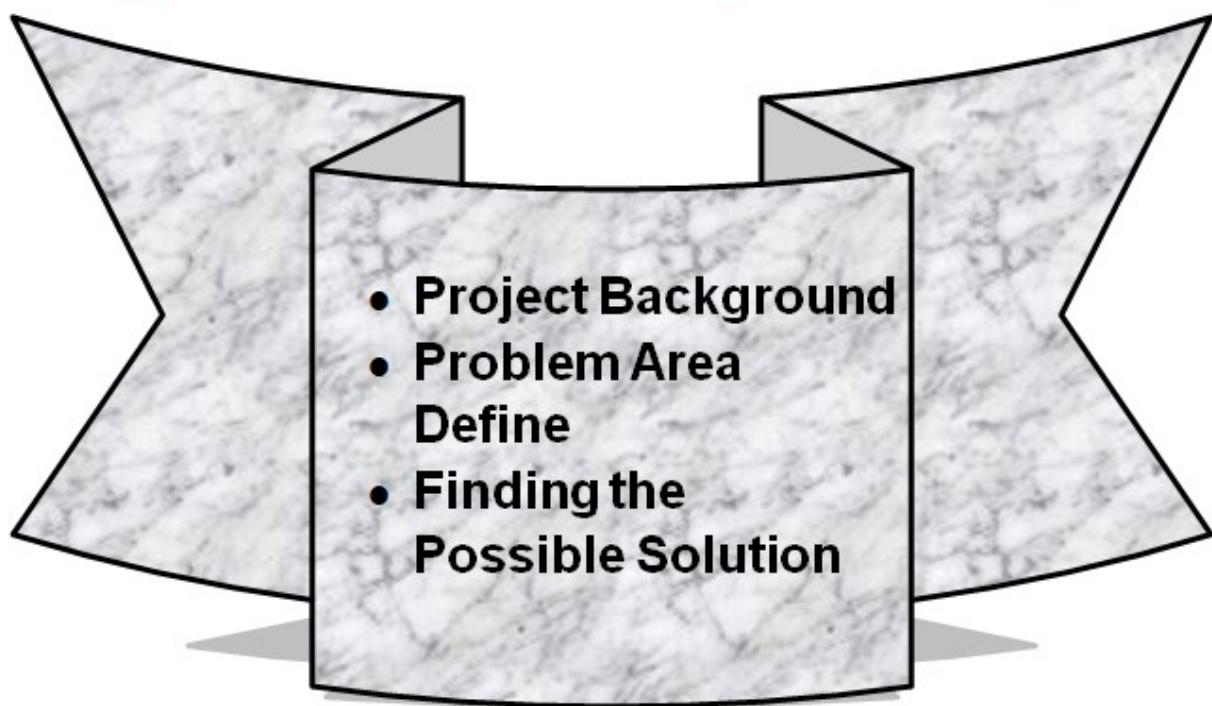
#### **Library & Book Shop System's Goals:**

- ❖ Build online book business with the business related person under one platform.
- ❖ Book business sector and association can work under one platform.
- ❖ Lend, buy, sell or exchange books easily through the system.
- ❖ Manage book owner data and run business efficiently.
- ❖ Doing business on online platform with library management facility.
- ❖ 24/7 accessible system for getting book facility.
- ❖ Proper use of the book related data on electronic version.

### **Library & Book Shop System's Objectives:**

- ❖ An online platform to enable user to buy, sell or exchange books easily through the web system.
- ❖ Manage library shop owner data book price, delivery process etc.
- ❖ Run book business on online by register as the shop owner or group members.
- ❖ 24/7 online access on web application with the connectivity of the Internet for buy, sell or exchange books.
- ❖ Provide necessary support to create business friendly environment on web.
- ❖ Focusing the country's business association to bring all less than one platform in book business.

## **Chapter – 2: Initial Study of the Project**



## **2.1 Project Background**

This project will digitalized the library process from manual work to digital work. Book association and library or different groups are work under one platform. In this system book buying, selling or exchanging will be easy. In Bangladesh online system are become familiar day by day and people of here are want to do their operation on online. So, this country's people will be benefited by using this web system. Different book association or group of peoples who wants to open virtual book shop or library on online, they can take facility from this system. This system creates solutions for all.

Book lovers can exchange their books, sell or buy their books. People need these resources and need to interact with members to solve any kind of book-oriented problems. From that point of view, I have taken a decision to develop a web-based platform where library owner can easily make available their resources of books and members can get them through searching by category. People can lend, buy, sell or exchange books easily through the system. This site creates a new business sector in Bangladesh for the people who want to do work or business in books.

## **2.2 Problem Area Define**

In Bangladesh – people are very much familiar to buy or sell anything manually. Here online systems grow up but not fully depended or not get so much trust issue in online. So, here e-commerce businesses are much difficult. For book management it is needed to track valid group of member and persons work under the system. So, security of the system can be the reason for system or project failure. This system automated book business with the book association or publications of the product of variety categorized book. (Handari, 2018)

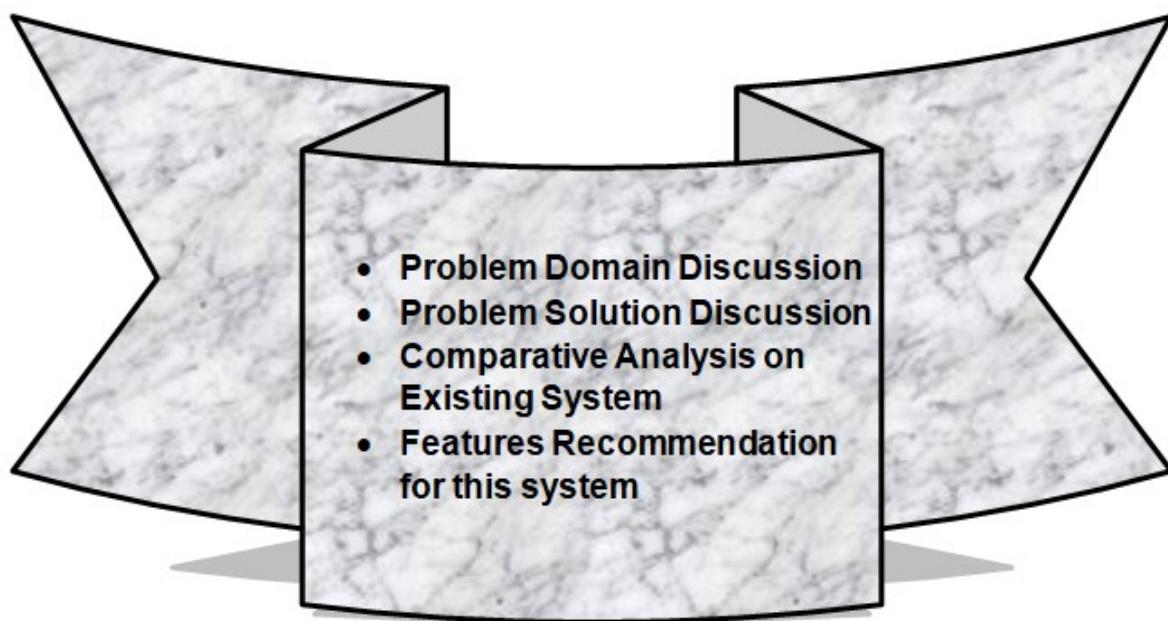
## **2.3 Finding the Possible Solution**

For the problem domain now I have finding some possible solution for it:

- ❖ Responsibilities are needed to be highly maintained by the system admin.
- ❖ Keep License no for book shop owner and valid member of the group.
- ❖ Proper authentication of book publications or association helps to make the system well.
- ❖ Book sharing, exchange, chat between members, sub admin are need to be implemented for knowing the query of customers and their feedback about system as well as business.

These are the possible solution that I have find after researching about the possible solution of the system. (Anon., 2020)

## **Chapter – 3: Literature Review of the Project**



### **3.1 Problem Domain Discussion**

This project's one side is about book management and selling or buying books online. So, these kinds of work are based on e-commerce site. Though Bangladesh is a developing country it is much familiar of e-commerce site. But very few websites create customers satisfaction due to provide rich facility. For this project I have found some problem domain, these are –

- ❖ BD government online business rules and regulations.
- ❖ Internet connectivity especially in rural area.
- ❖ Delivery man and book association's security.
- ❖ Monitoring the book organizations.

### **3.2 Problem Solution Discussion**

For finding problem solution company need to find some rules and regulation for specific types of business. To solve these problems I have also identified some solutions:

**Quality of the Products:** Online business is much involved with the quality of the products. Fraud parties are needed to avoid for well business. System need to keep and track quality full products from different well known publications.

**Association or Shop Owner Identify:** Association or publications and different book shop owner are registered in this system. If fraud associations are involved in the system, then system's goal may hamper. So, identify proper valid partner for business.

**Connectivity of the Internet all over Bangladesh:** Bangladeshi rural area is still not familiar with Internet connectivity. Government of Bangladesh is trying to work on it. So, this problem would be solved under smooth operation. (Schwegler, 2020)

### 3.3 Comparative Analysis on Existing System

I have made this system completely with new idea. But some existing projects are looks like them. In this part I have make the discussion between these system's features and making the list how my system are different.

#### I. Open Library (<https://openlibrary.org>)

Open Library is a famous library website which are famous in worldwide. Here we can add, buy or borrow books easily by paying online.

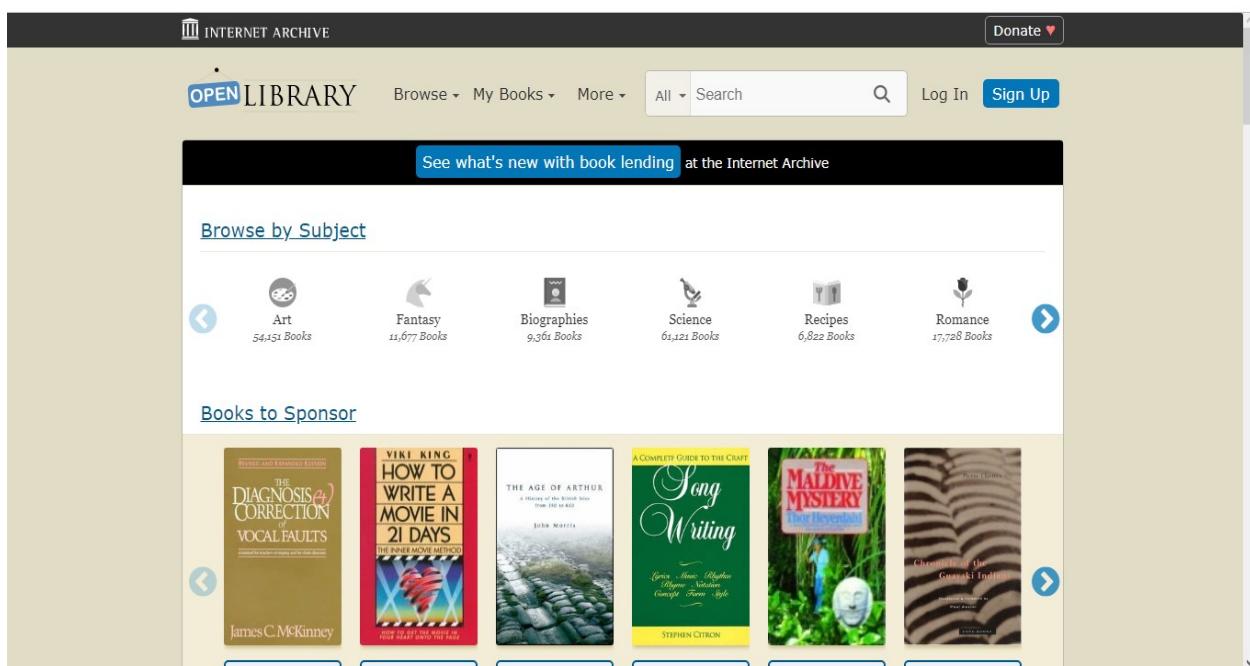


Figure 1: Interface of Open Library Org.

## **Best Features:**

- ❖ Process of registration and login of the system.
- ❖ Book adds and sells option access.
- ❖ Easily can find the books from category select.

## **Limitations:**

- ❖ User interface is not enough dynamic as well as understandable.
- ❖ Navigation bar and linking problem between pages.
- ❖ Delivery process is not much familiar.

## **II. Rokomari.com (<https://www.rokomari.com/book>)**

Rokomari.com is a Bangladeshi website for book selling, buy or exchange and can make previous order here. By paying online we can buy different kinds of books here easily.



**Figure 2: Interface of Rokomari.com.**

### **Best Features:**

- ❖ Book Seller Company can create account.
- ❖ Customer can register as customer by easily make verification.
- ❖ Can control personal account and can post their requirements about books.
- ❖ Payment methods are implemented in this system and interfaces also look great.

### **Limitations:**

- ❖ Less informative and has no quality design for each and every categorized books.
- ❖ No facility for exchange books in this system.

### **3.4 Features Recommendation for this System**

For making business on a system it is mandatory to making the system user friendly and understandable. This system is making with PHP language and for making it faster I have recommended some features and approaches, these are:

### **Book Library Information:**

- ❖ Library system need to be proper informative about writer's and book's information.
- ❖ Book's need to be maintained under category.
- ❖ System admin will handle the category of each operation.

### **System Admin:**

- ❖ Data analysis about book's and handles the category of books from background.
- ❖ Block user or library system if needed.
- ❖ Handle user's operation and track or monitor their actions.

### **Associations or Book Shop Owner:**

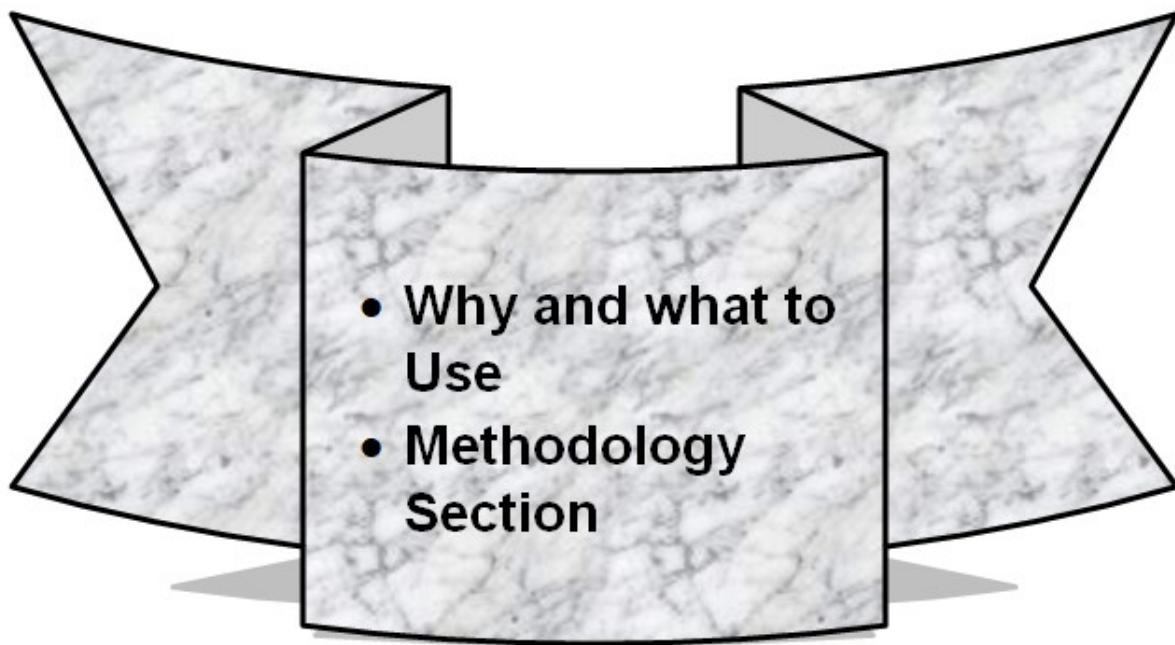
- ❖ Mail and registration no confirmations for each and every associations or shop.
- ❖ Books wholesale maintain in different district in Bangladesh.
- ❖ Design and handle or monitor own virtual shop on this system.

### **Book Report Based on Month:**

- ❖ System admin will review and maintain each and every report on this system.
- ❖ Sales report for business growth monitoring.

(Albarts, 2020)

## **Chapter – 4: Methodology**



This chapter provides proper guideline that how project work would be developed. This express the way that how projects would be made using limited resources, what kind of methodology need to be chosen and how it fulfills the project's goals. This chapter will clear all about things.

#### **4.1 What and why to use**

For complete this dynamic system I have chosen DSDM (Dynamic System Management Method) under the agile framework. This process are supports iterative development within selected resources or budgets.

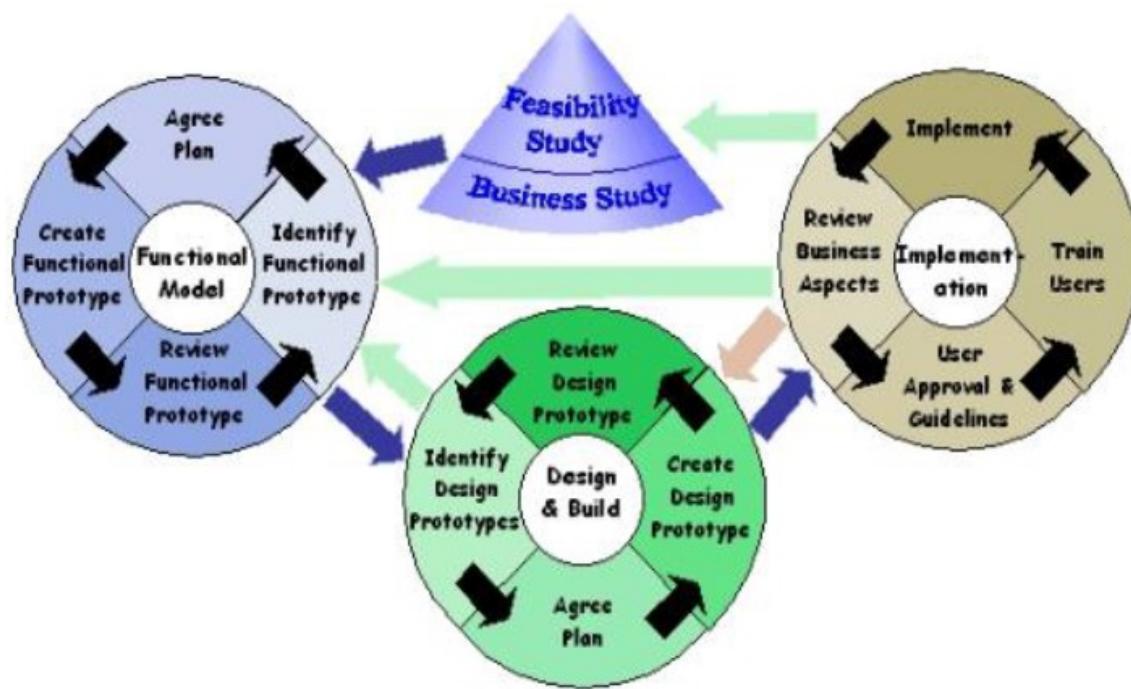
#### **DSDM Atern related to the Project:**

- ❖ Always focuses on the system's goals that will be helped for doing business.
- ❖ Continuous development process is running by reviewing it under iterative development process.
- ❖ This methodology set the time boxes for creating features. So, development process runs smoothly.
- ❖ Budget and time will be always focused and check requirements with involved the shareholders of the business.

These are the main topic that how can be any project personal would be beneficial by using this methodology. (Anon., 2020)

## 4.2 Methodology Section

This part will describe about the selected methodology's each and every part. In DSDM altern technology software are developed into five sections and seven phases. I have described all these things in here:



**Figure 3: Visual Presentation of DSDM Methodology's Section.**

### ❖ Pre-Project:

Previous work of doing project and plan are making in this part. Data gathering techniques and initial work are discussed here.

### ❖ Feasibility of the Project:

Project's evaluations are done in this phase with discussing different types of technical issue. Evaluation chart are shown here.

**❖ Foundation of the Project:**

Initial foundation phase of the project are discussed here. Like – starting of the project, its chosen methodology, initial architecture diagram etc.

**❖ Exploration of the Project:**

Tasks and features are identified and their development plan or time tables are fixed by using MoSCoW prioritization technique in this part.

**❖ Engineering of the Project:**

All types of software architectural diagram are drawn here and find the way to develop the project. Software engineering techniques, rules and regulations are described here clearly.

**❖ Deployment of the Project:**

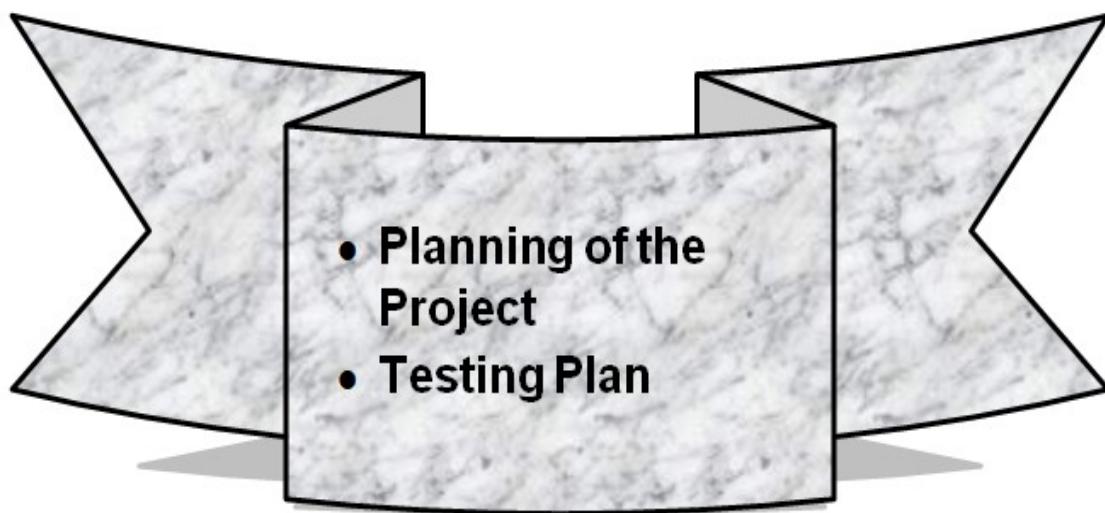
Final implementation or coding works are done with this phase. System's deployment framework, code or rules are fixed in here.

**❖ Post-Project:**

Define the work after doing or completing a project. Finding further development plan, conclusion of the project and handover the project to shareholders are the processes of post project phase.

(Pratital, 2018)

## **Chapter – 5: Planning**



## 5.1 Planning of the Project

Project without plan will be the reason for failure. So, before starting project proper plan and research work and setting the project goal is mandatory. Plan includes all things including testing plan. In this chapter I will discuss about all about things of this project plan.

### 5.1.1 Work Breakdown Structure (WBS):

This section defines the breaks project's task and sub tasks to develop project in part by part. Implementation goes on by following this structure.

Tasks	Duration	Starting Time	End Time
<b>01. Initial Work of Project</b> ↳ Research about Products. ↳ Comparison with similar type of products. ↳ Note down the features and limitations.	3 Days	Thu 06/17/2020	Mon 06/21/2020
<b>02. Project Proposal Creation</b> ↳ Make the project proposal document and get feedback from supervisor. ↳ Identify the core features.	5 Days	Tue 06/22/2020	Mon 06/28/2020
<b>03. Analysis of the Proposed System</b> ↳ Market research of the system. ↳ Make plan how to complete the project.	6 Days	Tue 06/29/2020	Tue 07/05/2020
<b>04. Making Design</b> ↳ Drawing diagrams of the system. ↳ Making Database. ↳ User Interface Design of the System.	9 Days	Wed 07/06/2020	Sat 07/16/2020
<b>05. Deployment of the Project</b> ↳ Working on Code of the project. ↳ Build the proposed features.	16 Days	Sun 07/17/2020	Fri 08/06/2020
<b>06. Testing of the System</b> ↳ Involve user for test the system. ↳ Arrange session for testing features.	8 Days	Sat 08/07/2020	Tue 08/17/2020
<b>07. Documentation of the Project</b> ↳ Make documentation for making understand and further development of the project.	5 Days	Wed 08/18/2020	Tue 08/24/2020
<b>08. Summation of Final Project</b> ↳ Binding book, approve it from professionals.	4 Days	Wed 08/25/2020	Sun 08/29/2020
<b>Total Time (Days)</b>	56 Days		

Figure 4: WBS of this Project.

### 5.1.2 Time Boxes

This documentation is made with following the DSDM atern methodology. Time analyses are done in this time boxes and make it clearly. I have made four time boxes for complete it.

Time Boxes	Tasks Name	Resource Name
T - 01	Introductions	Analyst
	Initial Study	Analyst
	Literature Review	Analyst
	Methodology	Analyst
T - 02	Planning	Analyst, User
	Feasibility	Analyst
	Foundation	Analyst, Developer
	Exploration	Analyst, Developer
T - 03	Engineering	Analyst, Developer
	Deployment	Developer Team, Tester Team
	Testing	Tester
	Implementation	Analyst, Developer
T - 04	Evaluation	Analyst, Developer
	Critical Appraisal	Analyst, Developer
	Lesson Learned	Analyst
	Conclusion	Analyst, Developer, Tester

Figure 5: Time Boxes of the Project.

### 5.1.3 Gantt Chart

Gantt chart is the visual representation of WBS structure. Software presents a visual bar for each task's time limitation. Here I have provided the Gantt chart for this project:

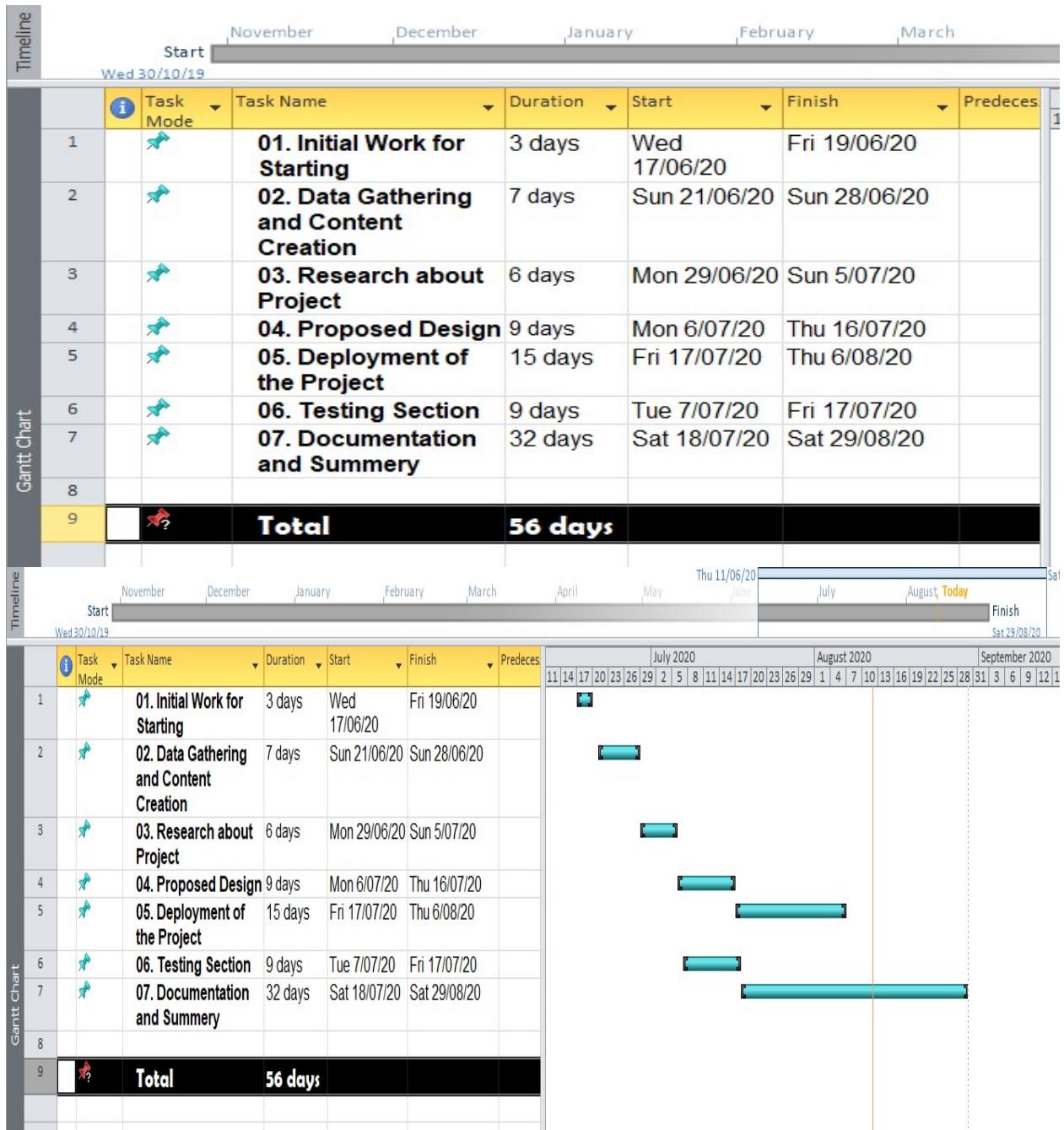


Figure 6: Gantt chart of this Project.

## 5.2 Testing Plan

Library and book shop management system's testing plan are making in this part of this documentation. I have made different type of test case to test the software and identify the mandatory testing plan which is required.

### 5.2.1 Required Testing

For testing computing software there is some common testing schema. Here I have identified some testing which are required for ensuring the quality of the software. These testing gives us a result that the project's outcome will be beneficial or not for the specific business. Some testing which is required –

- ❖ *Unit Testing (UT)*
- ❖ *Integration Testing (IT)*
- ❖ *Security Testing (ST)*
- ❖ *User Acceptance Testing (UAT)*
- ❖ *Performance Testing (PT)*

### 5.2.2 Test Case

Test cases are one of the predefined set where test are making based on some criteria of software's features. Each functionality of the project measured using test case template. So, in this part I have made some software testing template for this project.

<b>Test Case ID</b>		
<b>Test Name</b>		
<b>Test Type</b>		
<b>Priority</b>		
<b>Pre-Condition</b>		
<b>Post-Condition</b>		
<b>Steps</b>	<b>Expected Result</b>	<b>Actual Result</b>

**Figure 7: Feature Test Case Template.**

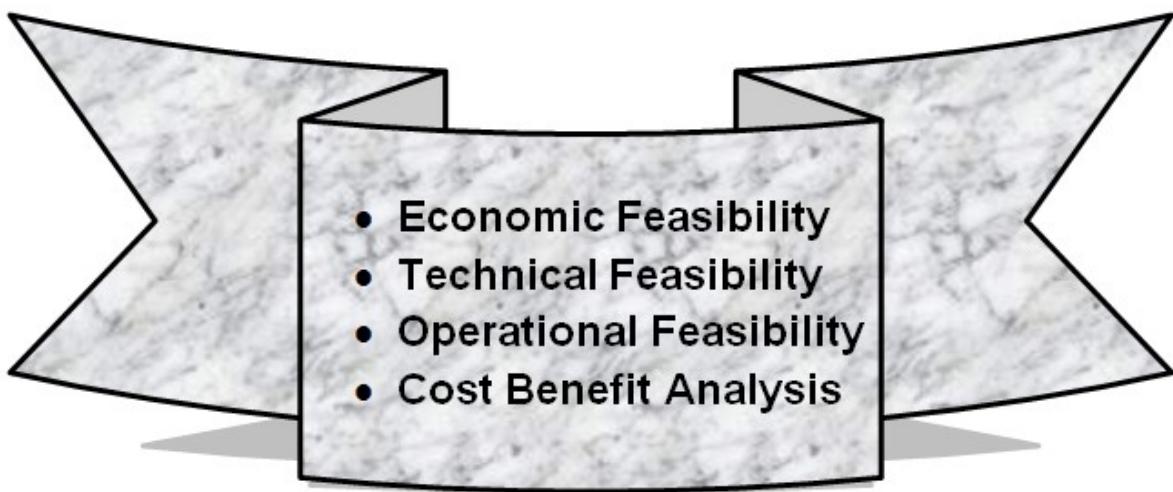
### 5.2.3 User Acceptance Test Plan

User doing this type of test and gives the result that the system's feature will be acceptable or not for the user of the system. Actual result and expected result are compared here and leave a comment. The template is:

<b>Test Case ID:</b>		<b>User Name:</b>	
<b>Test Type:</b>		<b>Role:</b>	
<b>Test Name:</b>			
<b>Pre-Condition:</b>			
<b>Post-Condition:</b>			
<b>Steps</b>	<b>Expected Result</b>	<b>Actual Result</b>	<b>Comments</b>

**Figure 8: Template for User Acceptance Testing.**

## **Chapter – 6: Feasibility Study**



Feasibility study is one of the most essential parts of computing project. I have analyzed all types of feasibility factor for this project and evaluate them properly. Technical, operational, legal and other aspects are measured in this part of this documentation.

### 6.1 Economic Feasibility

Considering the economic condition about the project and find the way that how can make a project beneficial is about economic feasibility. Project requirements are express the costal things of a project. For measuring economic feasibility there are many factors. I have worked with some, these are shown here:

Serial No.	Component	Price (BDT)
01	Required Hardware	54,000/=
02	Required Software	50,000/=
03	Cost of Web Hosting	1,000/=
04	Other Components	27,700/=
<b>Total Price</b>		<b>1,30,700/=</b>

**Figure 9: Requirement Cost.**

#### Hardware Cost for Run the Project:

Serial No.	Component	Price (BDT)
01	Desktop PC/Laptop	50,000/=
02	Wi-Fi Router	2,000/=
03	Electrical Components	2,000/=
<b>Total Price</b>		<b>54,000/=</b>

**Figure 10: Hardware Cost for Run the Software.**

### **Software Cost for Run the Project:**

<b>Serial No.</b>	<b>Name of the Software</b>	<b>Price (BDT)</b>
01	Xampp/Wampp (Free)	0
02	MS Office	10,000/=
03	Browser (Free)	0
04	Adobe Creative Cloud	10,000/=
05	OS (Windows)	25,000/=
06	Latest PHP Strom	5,000/=
<b>Total Price</b>		<b>50,000/=</b>

**Figure 11: Software Cost for run the Project.**

### **System Hosting Cost:**

<b>Serial No.</b>	<b>Hosting Name</b>	<b>Price (BDT)</b>
01	<a href="http://www.library-bookmanagement.com">www.library-bookmanagement.com</a> (Domain)	1,000/=
<b>Total Price</b>		<b>1,000/=</b>

### **Other Component Cost for Run the Project:**

<b>Serial No.</b>	<b>Name</b>	<b>Price (BDT)</b>
01	Internet Connection Bill (1 Year)	7,200/=
02	Electric Bill (1 Year)	10,000/=
03	Maintenances/Security/Back Up	6,500/=
04	Employee Training	4000/=
<b>Total Price</b>		<b>27,700/=</b>

**Figure 12: Other Component Cost for this Project.**

## 6.2 Technical Feasibility

This feasibility study describes about the technical parts and requirements about this project and run the business. This feasibility study identifies the components which are required for making and running this project. Library and book shop management are the system doing business with various categories books. I have made this project with object oriented PHP, CSS3, HTML5, bootstrap, JavaScript, AJAX, JQuery etc. During development time I have used some software and hardware to make it. These are given here:

<b>Hardware</b>	Desktop PC/Laptop (8 GB RAM, 1TB HDD), Wi-Fi Router
<b>Software</b>	Xampp/Wamp Latest Version, Adobe Creative Cloud, MS Office 2007/2010, OS – Windows 10, PHP Strom Latest Version

**Figure 13: Required Component for Technical Work.**

## 6.3 Operational Feasibility

Operational feasibility defines the operation of this system to develop the project. I have described about the operational work which are auctioned in this project:

- ❖ Handling the different categories books are clearly done in the system and customer or system user can easily find it on the system.

- ❖ Automated stock changed for different types of books buying, selling or exchanging.
- ❖ Association of books or publications registration process and running their business.
- ❖ Library shop owner verification based on their serial and license no tracking.

#### **6.4 System's Cost Benefit Analysis**

Costs benefit analysis gives us the result about this project will be beneficial or not beneficial after analyzing the estimation of the cost with benefit with this project. If the estimation of the benefit will shows greater result than the estimation of the cost than this project brings benefit for the business.

#### **Estimation of Cost:**

<b>Basic for</b>	<b>Cost (BDT)</b>
Hardware	54,000
Software	50,000
Hosting	1,000
Others	27,700
Maintenance	10,000
Implementation	20,000
<b>Total</b>	<b>1,67,700</b>

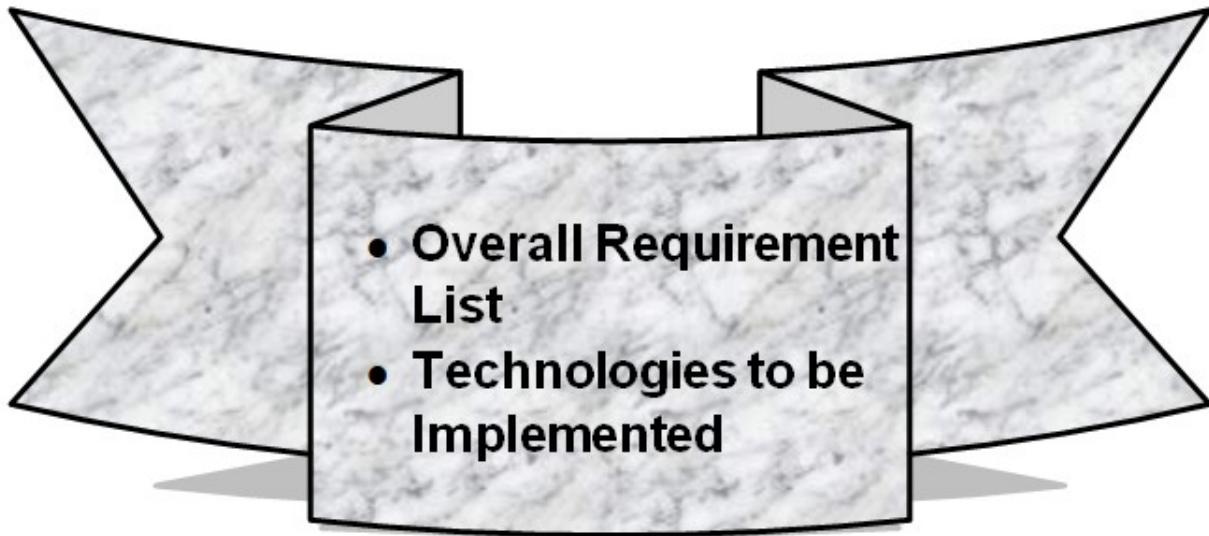
**Figure 14: Cost Estimation Chart.**

**Estimation of Benefit:**

<b>Basic for</b>	<b>Benefit (BDT)</b>
Business Improvement	90,000
Improvement of Productivity	30,000
Savings from Changes (Structural)	60,000
<b>Total</b>	<b>1,80,000</b>

**Figure 15: Benefit Estimation Chart.**

## **Chapter – 7: Foundation**



## **7.1 Overall Requirement List**

Foundation is the most essential part of any software project. It established project and fulfill its goals. This chapter is about discussing the functional and non-functional requirements of this project.

### **7.1.1 Functional Requirements**

#### **System Admin:**

- ❖ System database handling and manipulation of data of each kinds of user.
- ❖ Handle library and association's data handling.
- ❖ Manage system's business report.

#### **Library or Association Users:**

- ❖ Easily sign up and log in facility after providing proper data.
- ❖ Receive request from customers for various books.
- ❖ Can confirm or decline different types of request like – buy, sell, exchange or others.
- ❖ Mailbox chatting for query.

#### **Customer Users:**

- ❖ Easily sign up and log in facility after providing proper data.
- ❖ Book name searching based on category or writer of the books.
- ❖ Books order, buy, exchange or other facility.
- ❖ Confirmation message through email messaging.

### **7.1.2 Non Functional Requirements**

- ❖ Proper validation and verification for each and every feature of the system.
- ❖ Highly maintainable system for working book business in this system.
- ❖ 24/7 accessible system by using web.
- ❖ Proper designs are maintain for increasing the usability of this web based system.

### **7.2 Technology Implemented**

This system is made with PHP language. I have used different kinds of technology for implement this system. In software engineering there are many kinds of technology. For making this web based system I have chosen two types of server for implementation.

This section is all about it:

#### **❖ Web Server Application:**

Completed software is hosted into main server with a unique name which will define in Internet. By using the URL address we can reach this system on web browser. There are no needs to install additional software to run this system on different devices.

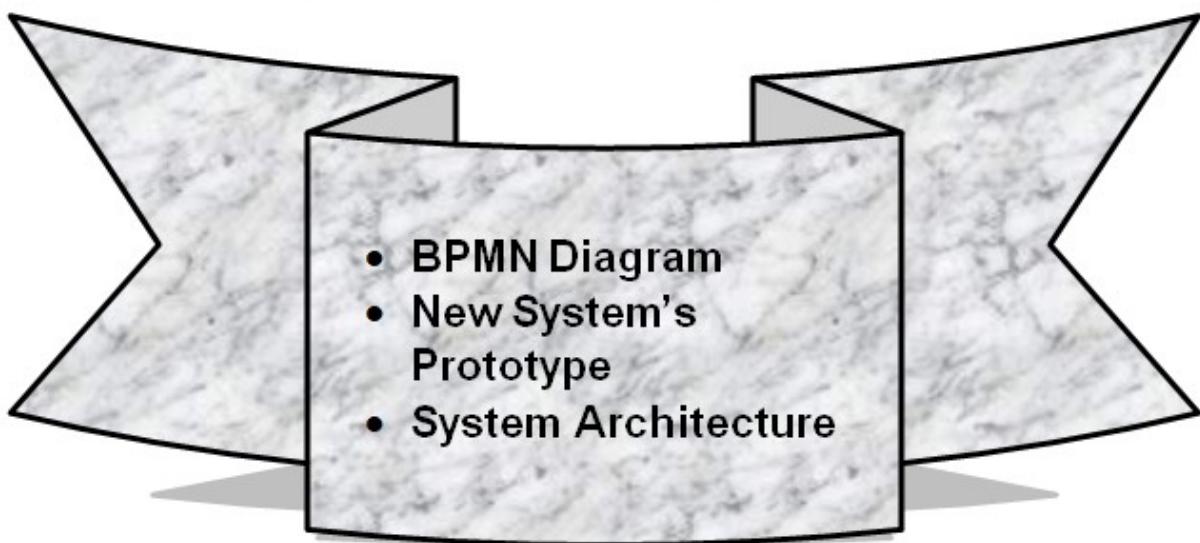
- ❖ User accesses this web system by using the URL address.
- ❖ With Internet connectivity anyone can access this system using devices and web browser.
- ❖ Lot of user can perform or access the system at a time from different places.

❖ **Client Server Application:**

User's application hosted into organization and organization runs server. In this technology client send request to the server machine for the data. This server is capable of handling lot of data and can prevent junk request.

- ❖ Additional installation of software is not needed.
- ❖ This server application needs lot of cost for handle.

## **Chapter – 8: Exploration**



Exploration of the project are the declaration about the project which represents the business process model notations diagram, It's prototype and the initial thinking or class diagram of the project. Architectural views are shown here clearly:

### 8.1 Business Process Model and Notation (BPMN) Diagram

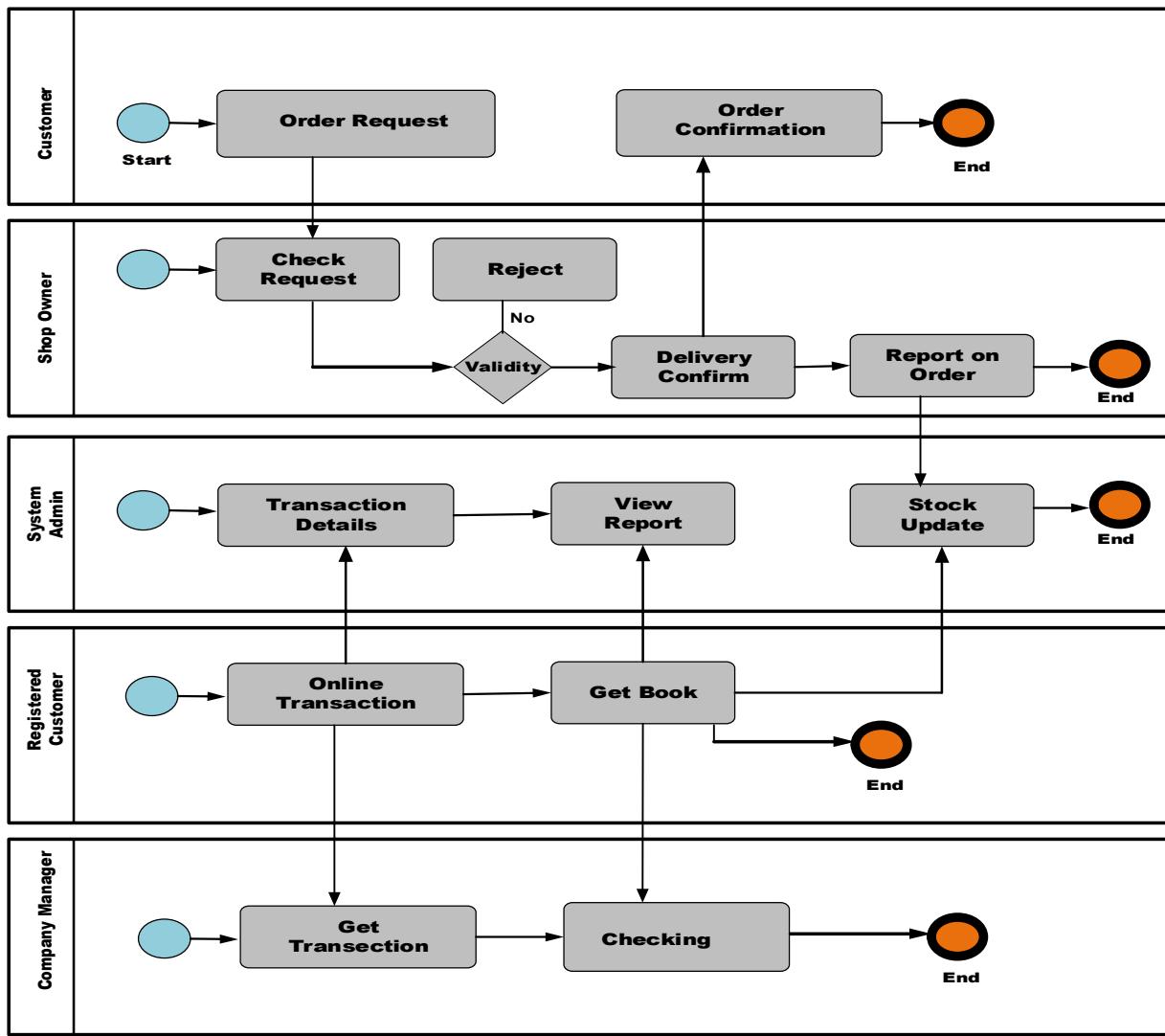


Figure 16: Business Process Model Diagram.

## 8.2 New System's Prototype

This section is about represent this system's visual view that how it look like and how its functionality would be. Business requirements will be fulfill these types of prototype design:

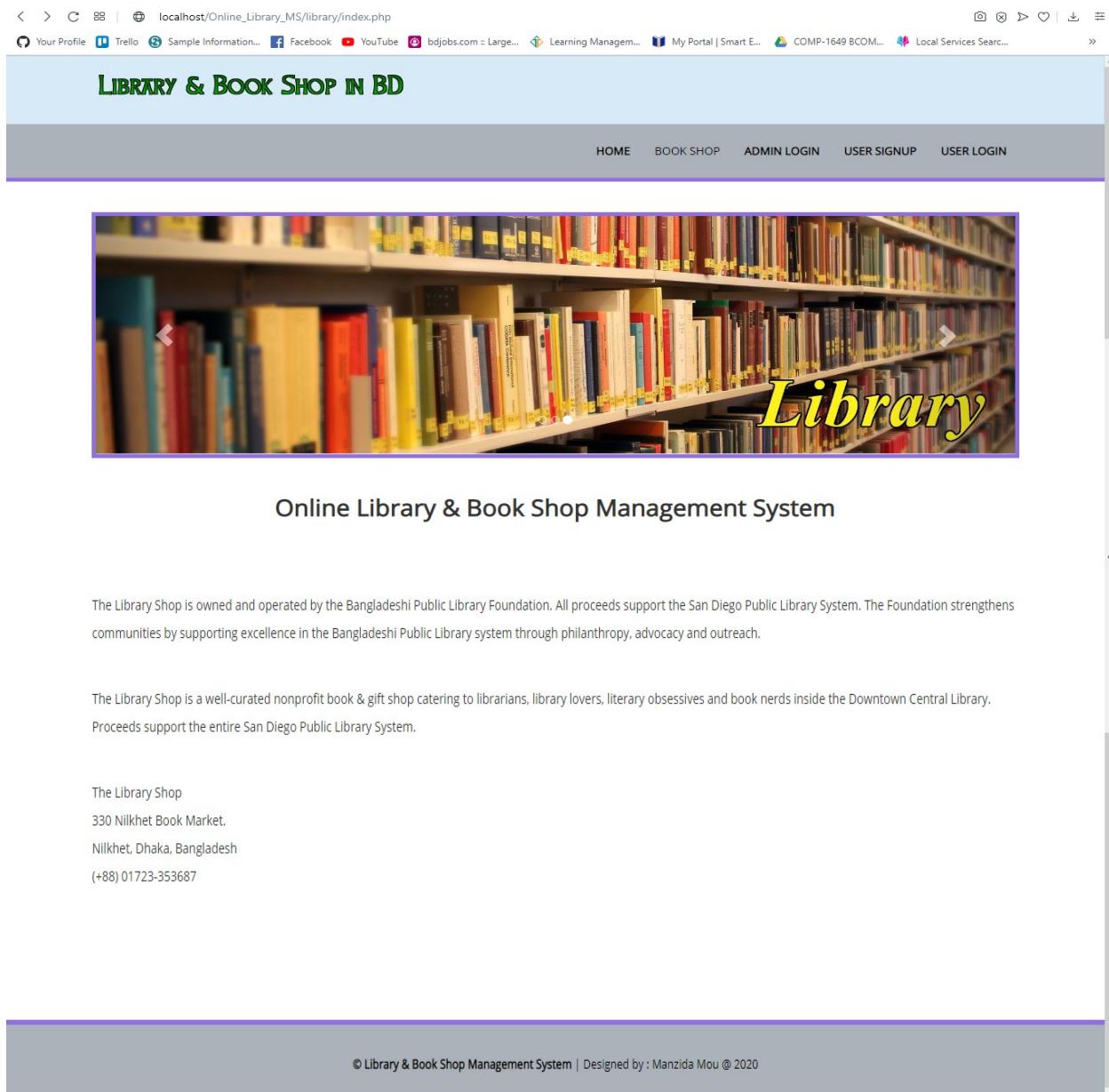


Figure 17: Systems Index Page.

The screenshot displays two login forms side-by-side, both titled "LOGIN FORM".

**ADMIN LOGIN FORM:**

- Username:
- Password:
- Verification code:  **77179**
- 

**USER LOGIN FORM:**

- Enter Email:
- Password:
- Forgot Password?
- Verification code:  **43816**
- || Not Register Yet?

**Figure 18: System Login Page.**

HOME   BOOK SHOP   ADMIN LOGIN   USER SIGNUP   USER LOGIN

**USER REGISTRATION FORM**

REGISTRATION FORM

Enter Full Name:  
E.g. - Manzida Mou

Mobile Number :  
E.g. - 1737-328916

Enter Email:  
E.g. - manzida@gmail.com

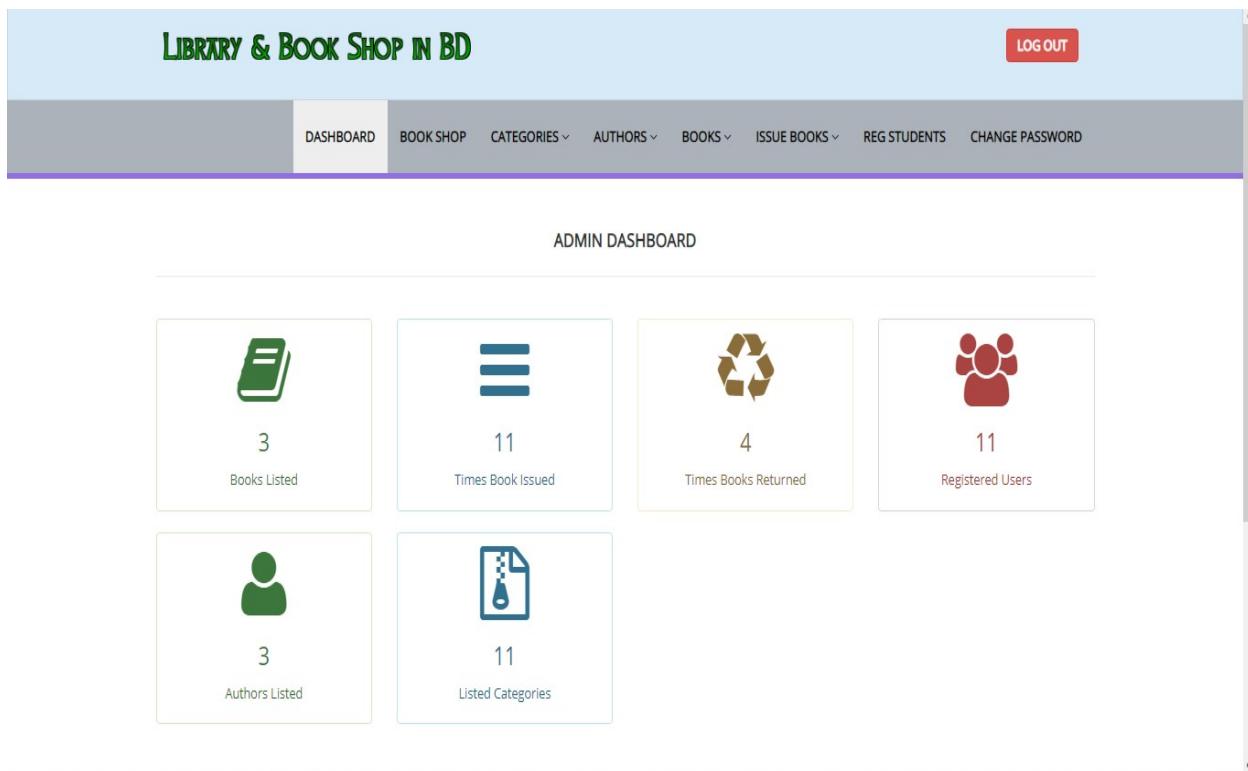
Enter Password:

Confirm Password:

Verification code:  
 56686

**SUBMIT**

**Figure 19: System User Registration Page.**



**Figure 20: Admin Dashboard of this System.**

**LIBRARY & BOOK SHOP IN BD**

**LOG OUT**

DASHBOARD    BOOK SHOP    CATEGORIES ▾    AUTHORS ▾    BOOKS ▾    ISSUE BOOKS ▾    REG STUDENTS    CHANGE PASSWORD

ADD CATEGORY

**Category Info**

Category Name:

Status:

Active  
 Inactive

**CREATE**

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DASHBOARD    BOOK SHOP    CATEGORIES ▾    AUTHORS ▾    BOOKS ▾    ISSUE BOOKS ▾    REG STUDENTS    CHANGE PASSWORD

MANAGE CATEGORIES

**Categories Listing**

No.	Category	Status	Creation Date	Updation Date	Action
1	Romantic	<span style="background-color: #28a745; color: white; padding: 2px;">Active</span>	2017-07-05 00:35:25	2017-07-06 22:00:42	<span style="color: #007bff; border: 1px solid #ccc; padding: 2px 5px;">EDIT</span> <span style="color: #dc3545; border: 1px solid #ccc; padding: 2px 5px;">DELETE</span>
2	Technology	<span style="background-color: #28a745; color: white; padding: 2px;">Active</span>	2017-07-05 00:35:39	2017-07-08 23:13:03	<span style="color: #007bff; border: 1px solid #ccc; padding: 2px 5px;">EDIT</span> <span style="color: #dc3545; border: 1px solid #ccc; padding: 2px 5px;">DELETE</span>
3	Science	<span style="background-color: #28a745; color: white; padding: 2px;">Active</span>	2017-07-05 00:35:55	0000-00-00 00:00:00	<span style="color: #007bff; border: 1px solid #ccc; padding: 2px 5px;">EDIT</span> <span style="color: #dc3545; border: 1px solid #ccc; padding: 2px 5px;">DELETE</span>
4	Java	<span style="background-color: #28a745; color: white; padding: 2px;">Active</span>	2020-10-11 01:00:28	0000-00-00 00:00:00	<span style="color: #007bff; border: 1px solid #ccc; padding: 2px 5px;">EDIT</span> <span style="color: #dc3545; border: 1px solid #ccc; padding: 2px 5px;">DELETE</span>

Showing 1 to 4 of 4 entries

Previous 1 Next

**Figure 21: Book Category Manage Page.**

# LIBRARY & BOOK SHOP IN BD

[LOG OUT](#)[DASHBOARD](#) [BOOK SHOP](#) [CATEGORIES](#) [AUTHORS](#) [BOOKS](#) [ISSUE BOOKS](#) [REG STUDENTS](#) [CHANGE PASSWORD](#)

## ADD AUTHOR

### Author Info

Author Name:

[ADD](#)

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[DASHBOARD](#) [BOOK SHOP](#) [CATEGORIES](#) [AUTHORS](#) [BOOKS](#) [ISSUE BOOKS](#) [REG STUDENTS](#) [CHANGE PASSWORD](#)

## MANAGE AUTHORS

### Authors Listing

10 [records per page](#)Search: 

No.	Author	Creation Date	Updation Date	Action
1	Chetan Bhagatt	2017-07-08 20:30:23	2017-07-08 21:15:09	<a href="#"> EDIT</a> <a href="#"> DELETE</a>
2	Anita Desai	2017-07-08 20:35:08		<a href="#"> EDIT</a> <a href="#"> DELETE</a>
3	HC Verma	2017-07-08 20:35:21		<a href="#"> EDIT</a> <a href="#"> DELETE</a>
4	Paul 1	2020-10-11 01:00:39	2020-10-11 02:21:54	<a href="#"> EDIT</a> <a href="#"> DELETE</a>

Showing 1 to 4 of 4 entries

Previous [1](#) Next

**Figure 22: Author Manage Page.**

ADD BOOK

---

**Book Info**

**Book Name \***

**Category \***  
 Select Category

**Author \***  
 Select Author

**ISBN Number \***  
  
An ISBN is an International Standard Book Number. ISBN Must be unique

**Price \***

**ADD**

---

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**LIBRARY & BOOK SHOP IN BD**

LOG OUT

---

DASHBOARD
BOOK SHOP
CATEGORIES
AUTHORS
BOOKS
ISSUE BOOKS
REG STUDENTS
CHANGE PASSWORD

**MANAGE BOOKS**

---

**Books Listing**

Books Listing							
No.		Book Name	Category	Author	ISBN	Price	Action
1		physics	Science	HC Verma	1111	15	<span style="color: blue; border: 1px solid blue; padding: 2px 5px;">EDIT</span> <span style="color: red; border: 1px solid red; padding: 2px 5px;">DELETE</span>
2		Classification of Java	Java	Paul 1	12345	120	<span style="color: blue; border: 1px solid blue; padding: 2px 5px;">EDIT</span> <span style="color: red; border: 1px solid red; padding: 2px 5px;">DELETE</span>

Showing 1 to 2 of 2 entries

Previous 1 Next

**Figure 23: Book Manage Page.**

**Issue a New Book**

Student ID *	<input type="text"/>
Student ID:	
SID009	
SID010	
SID012	
Selected Student's Name:	
ISBN Number or Book Title *	
<input type="text"/>	
ISBN Number:	
222333	
1111	
12345	
<input type="button" value="ISSUE BOOK"/>	

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**MANAGE ISSUED BOOKS**

Success : Book Returned successfully

Issued Books						
10	records per page	Search: <input type="text"/>				
No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Amit	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	<input checked="" type="button" value="EDIT"/>
2	Amit	physics	1111	2020-10-11 01:36:43	Not Return Yet	<input checked="" type="button" value="EDIT"/>
3	Ibrahim Khalil	Classification of Java	12345	2020-10-11 01:03:44	Not Return Yet	<input checked="" type="button" value="EDIT"/>
4	Ibrahim Khalil	physics	1111	2020-10-08 03:18:39	Not Return Yet	<input checked="" type="button" value="EDIT"/>
5	Ibrahim Khalil	PHP And MySql programming	222333	2020-10-08 03:09:25	2020-10-08 03:09:37	<input checked="" type="button" value="EDIT"/>
6	test	PHP And MySql programming	222333	2017-07-15 16:59:26	2020-10-13 02:58:28	<input checked="" type="button" value="EDIT"/>

Showing 1 to 6 of 6 entries

Previous 1 Next

**Figure 24: Issue Book Manage Page.**

The screenshot displays the User Dashboard View of a library management system. At the top, there is a navigation bar with the title "LIBRARY & BOOK SHOP IN BD" on the left and a "LOG OUT" button on the right. Below the navigation bar, there is a horizontal menu bar with four items: "DASHBOARD", "BOOK SHOP", "ACCOUNT", and "ISSUED BOOKS". The "ACCOUNT" item has a dropdown menu open, showing "MY PROFILE" and "CHANGE PASSWORD".

The main content area is titled "USER DASHBOARD". It features two cards: one showing "3 Book Issued" with a blue icon and another showing "0 Books Not Returned Yet" with a yellow recycling icon.

Below this, there is a URL bar showing "localhost/Online\_Library\_MS/library/dashboard.php#". The main content area is titled "MANAGE ISSUED BOOKS". It shows a table titled "Issued Books" with the following data:

#	Book Name	ISBN	Issued Date	Return Date	Fine in(BDT)
1	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	
2	physics	1111	2020-10-11 01:36:43	Not Return Yet	

At the bottom of the table, it says "Showing 1 to 2 of 2 entries" and has "Previous" and "Next" buttons. There is also a "Search:" input field at the top of the table area.

**Figure 25: User Dashboard View.**

### 8.3 System Architecture

This diagram represents a visual notation that how the user's of this system accesses the data through Internet. Here we can see that how user can communicate among company's database server.

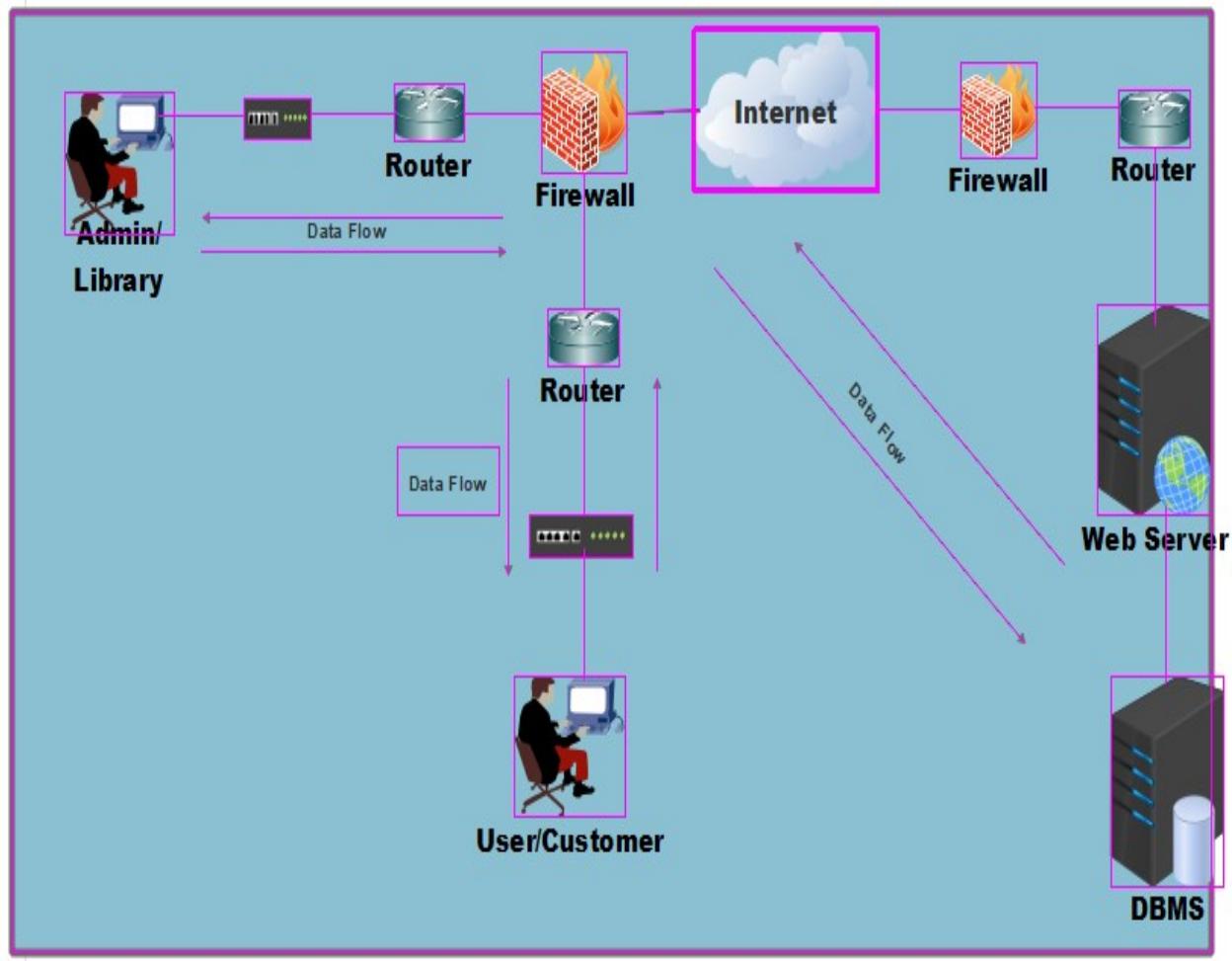
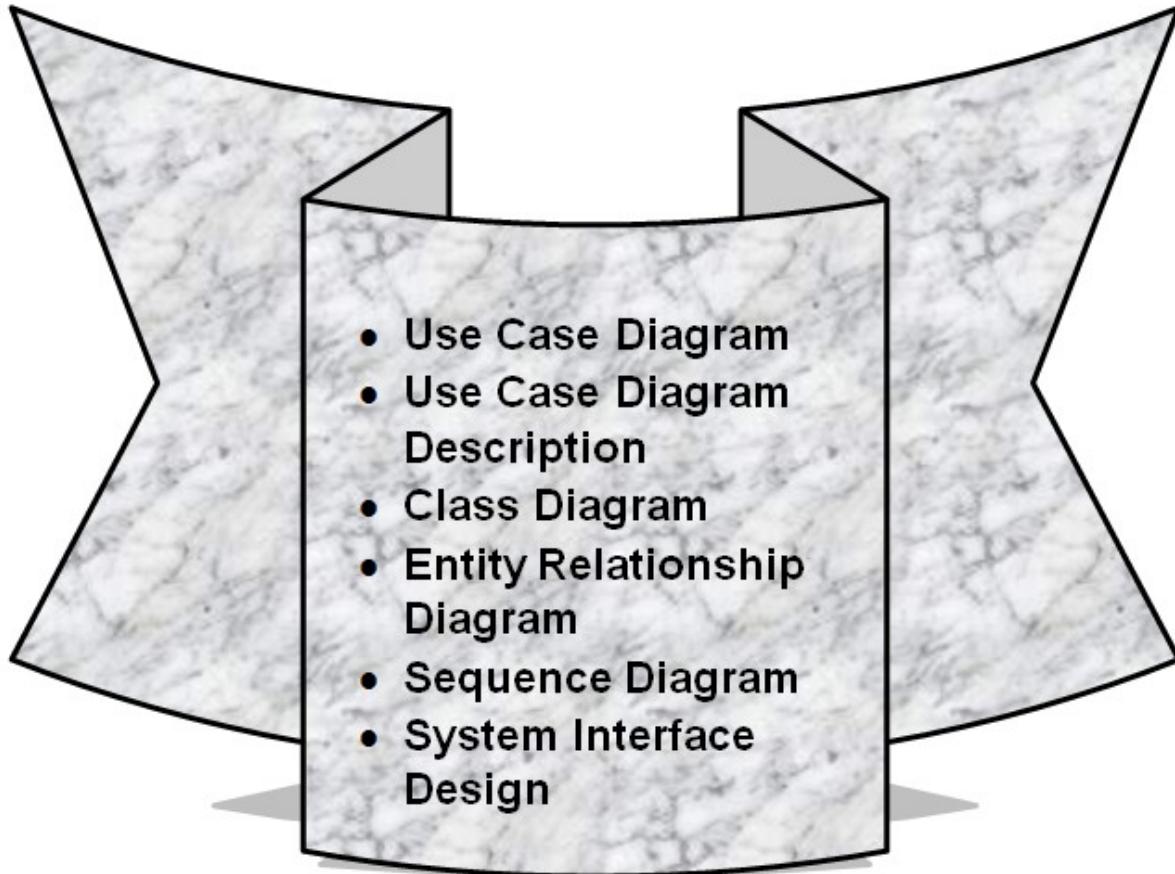


Figure 26: System Architecture Diagram.

## **Chapter – 9: Engineering**



## 9.1 Use Case Diagram

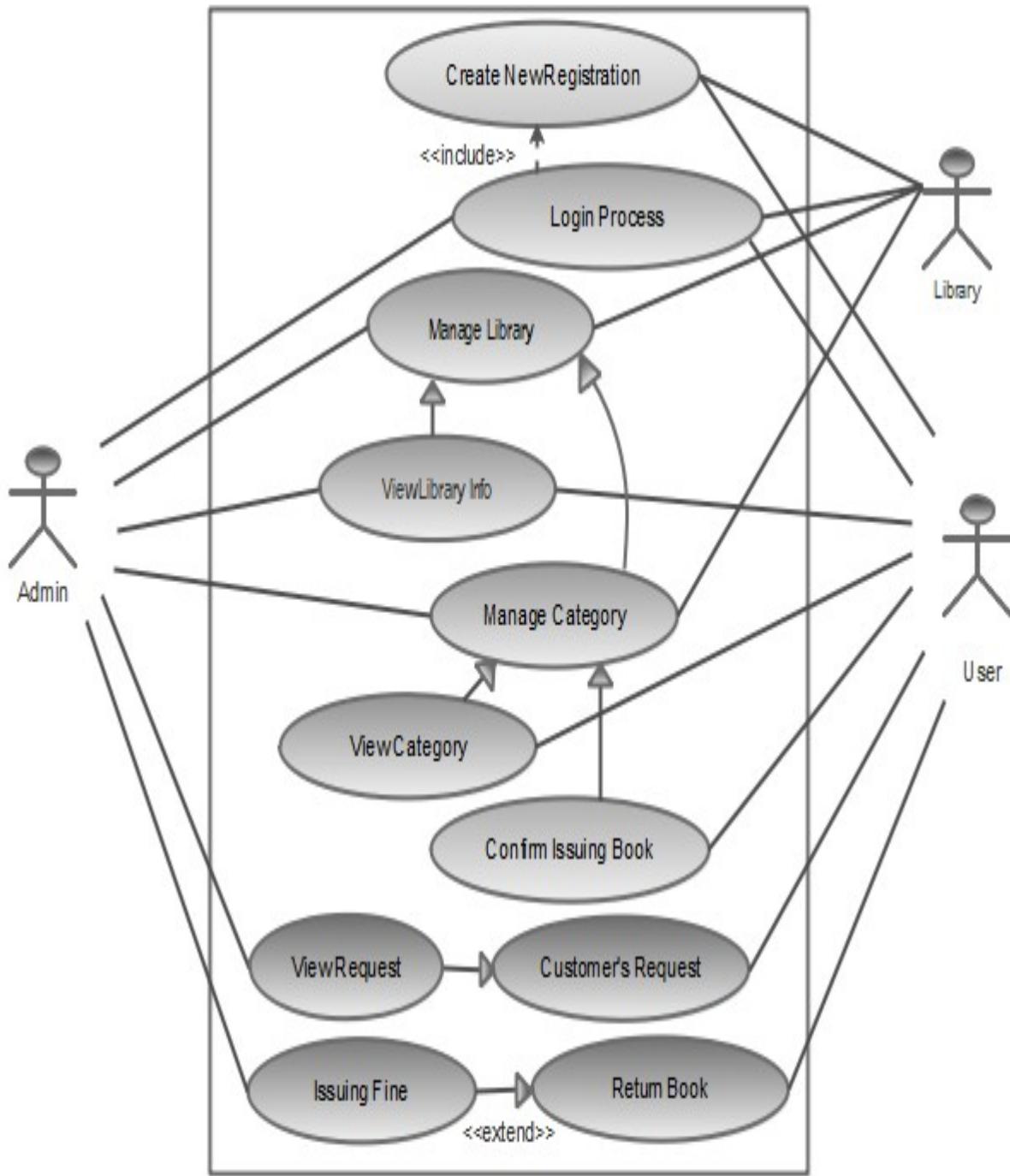


Figure 27: Use Case Diagram of this System.

## 9.2 Description of Use Case

**Use Case ID:** LMS\_01

<b>Use Case Name:</b>	Create New Registration
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	<p>For proper verification registration is needed. Registration process will allow users to use the system in efficient way.</p> <p>After providing validates data book shop owner and student or book lover can register here easily.</p>
<b>Actor:</b>	Shop owner, User
<b>Pre Condition:</b>	Need to enter valid data into fields.
<b>Post Condition:</b>	System shows that registration is completed successfully.

**Use Case ID:** LMS\_02

<b>Use Case Name:</b>	Login Process
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	<p>Validate data (username or email address) and password are given in relevant fields and user successfully log into the system and enjoy its features of functionalities.</p>

<b>Actor:</b>	Shop owner, User, Admin
<b>Pre Condition:</b>	Need to register into the system before login.
<b>Post Condition:</b>	System allows its features if valid data are provides.

**Use Case ID:** LMS\_03

<b>Use Case Name:</b>	Manage Library
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	Book shop owner can create account in this system and can run their business through the system. They can manage their created library and books on this system. System admin will monitor all those from background.
<b>Actor:</b>	Shop Owner, Admin
<b>Pre Condition:</b>	Need to register into the system before manage.
<b>Post Condition:</b>	System allows its features if valid data are provides.

### 9.3 Class Diagram

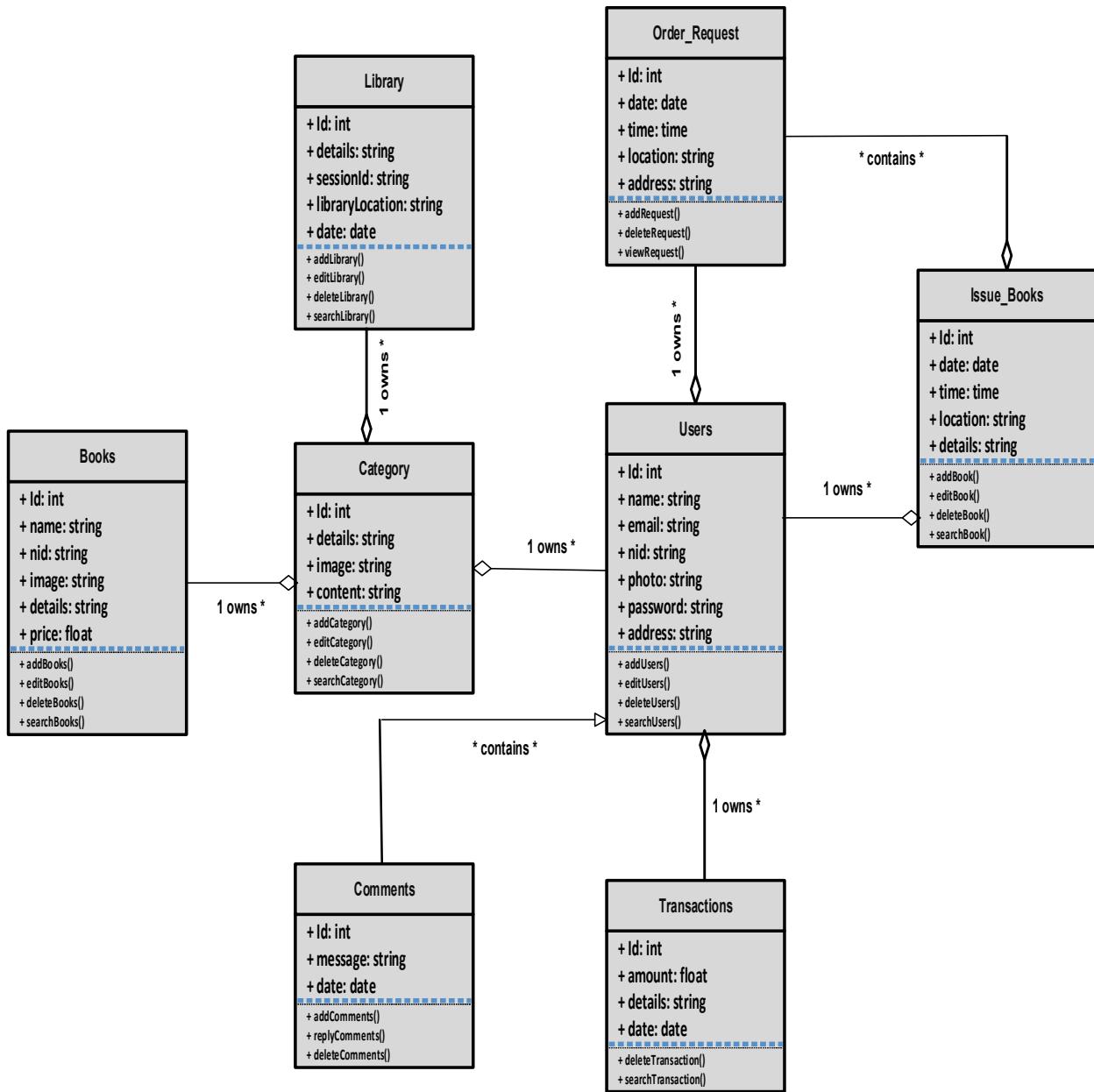


Figure 28: Library and Book Management System Class Diagram.

## 9.4 Entity Relationship Diagram (ERD)

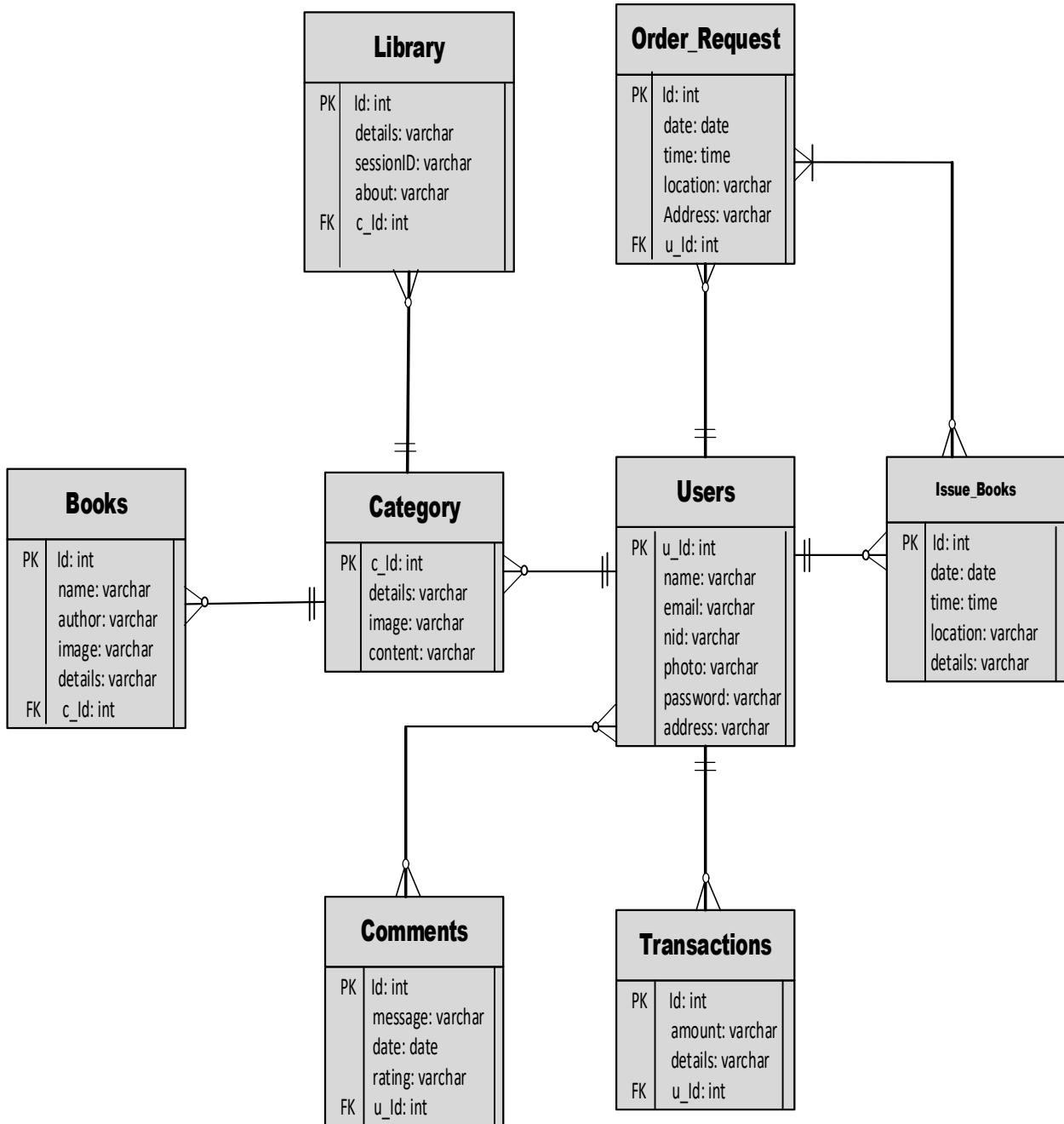
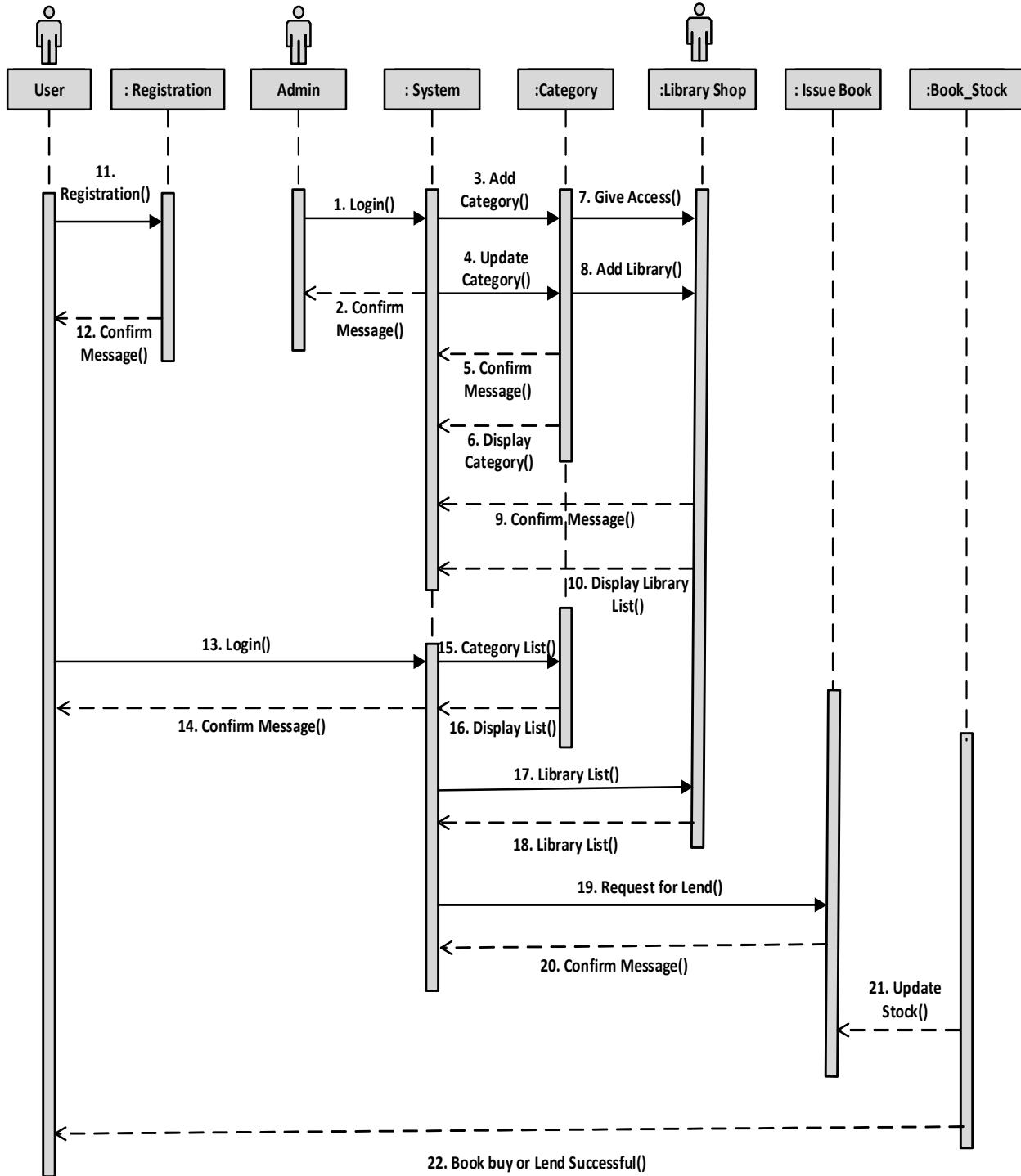


Figure 29: ERD of this System.

## 9.5 Sequence Diagram



**Figure 30: Sequence Diagram of this Book Management System.**

## 9.6 System Interface Design

All requirements are met the initial goals of this project. In this part I have provide system's main interface design (actual design of the system):

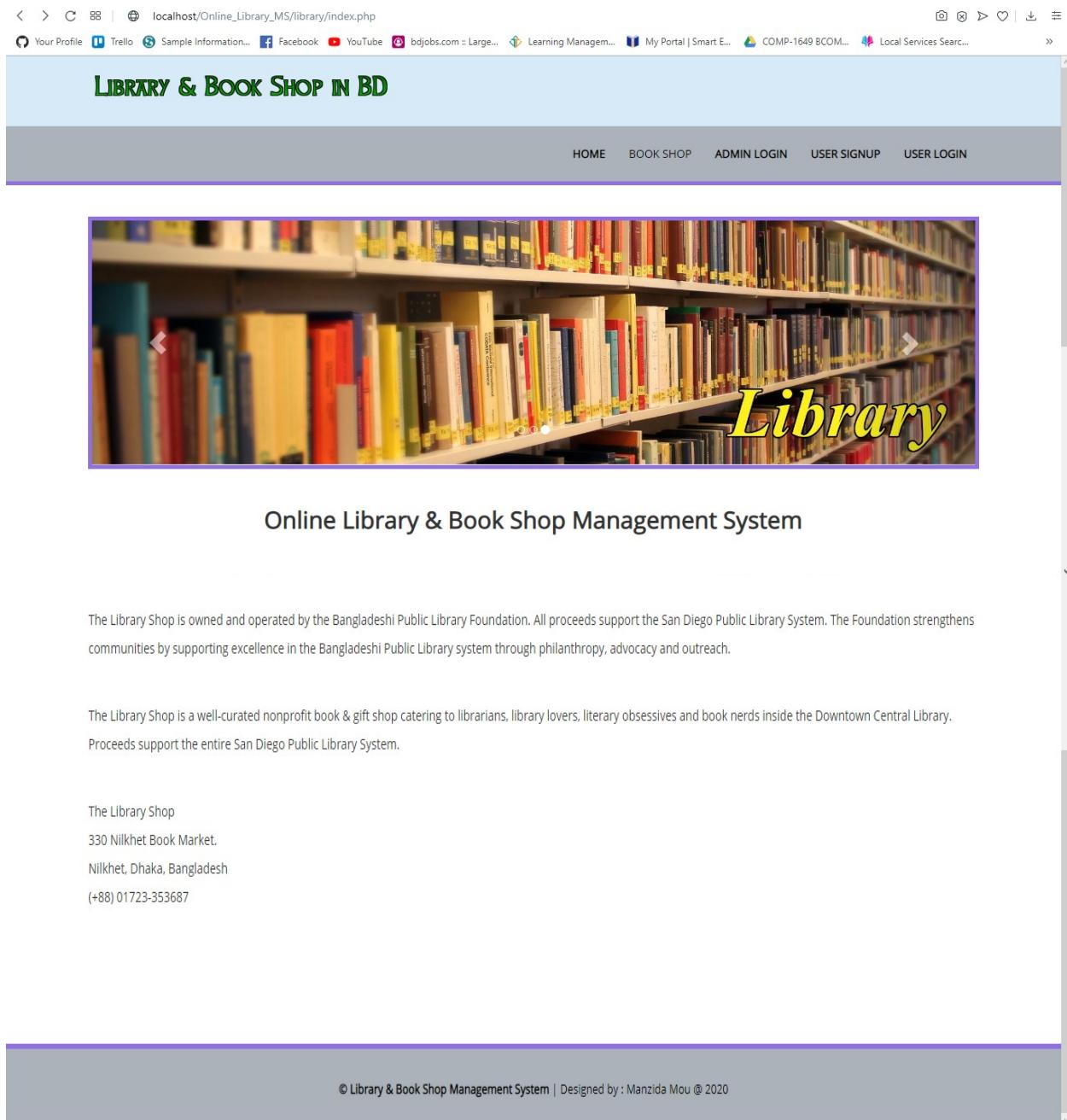


Figure 31: Systems Index Page.

The screenshot displays two login forms side-by-side, both titled "LOGIN FORM".

**ADMIN LOGIN FORM:**

- Username:
- Password:
- Verification code:  **77179**
- 

**USER LOGIN FORM:**

- Enter Email:
- Password:
- Forgot Password?
- Verification code:  **43816**
- || Not Register Yet?

**Figure 32: System Login Page.**

HOME   BOOK SHOP   ADMIN LOGIN   USER SIGNUP   USER LOGIN

USER REGISTRATION FORM

REGISTRATION FORM

Enter Full Name:  
E.g. - Manzida Mou

Mobile Number :  
E.g. - 1737-328916

Enter Email:  
E.g. - manzida@gmail.com

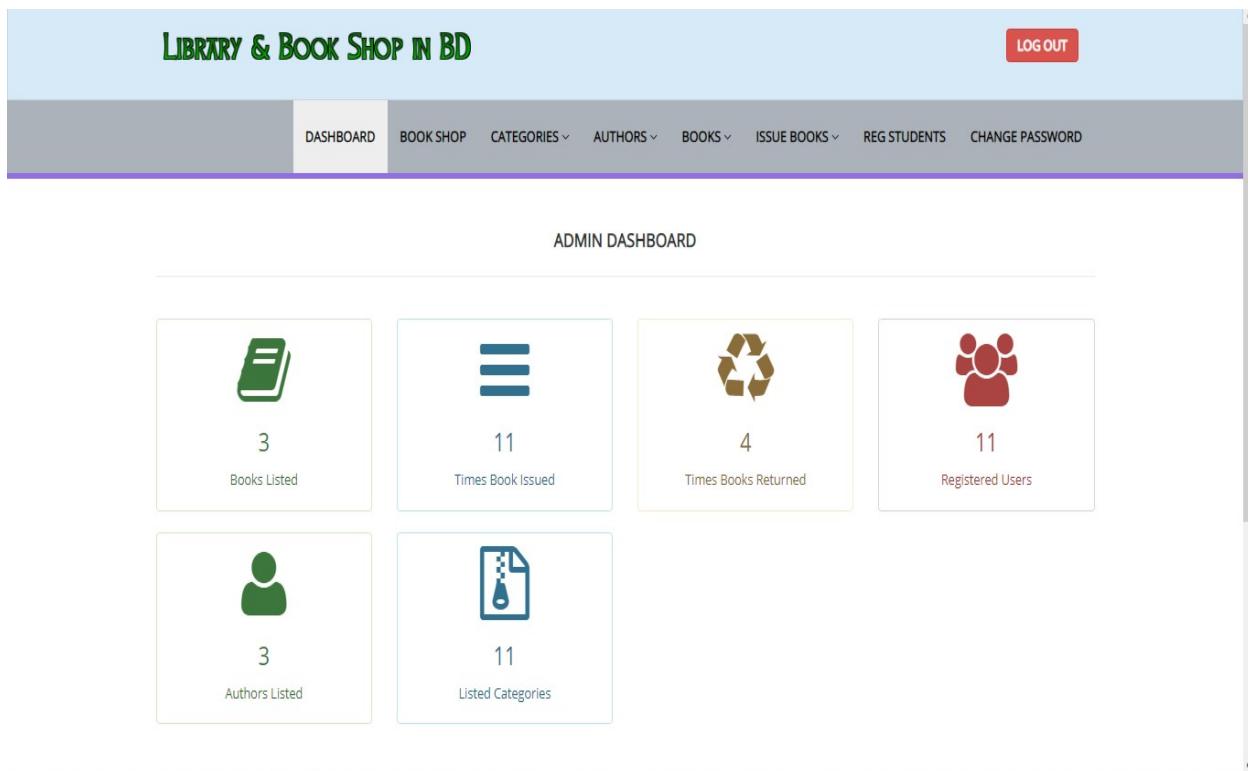
Enter Password:

Confirm Password:

Verification code:  
56686

SUBMIT

**Figure 33: System User Registration Page.**



**Figure 34: Admin Dashboard of this System.**

The screenshot displays two pages of a web-based library management system:

- Top Page (ADD CATEGORY):** A modal window titled "Category Info" contains fields for "Category Name" (with an empty input field), "Status" (radio buttons for "Active" and "Inactive" with "Active" selected), and a "CREATE" button.
- Bottom Page (MANAGE CATEGORIES):** A table titled "Categories Listing" shows four entries:
 

No.	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active	2017-07-05 00:35:25	2017-07-06 22:00:42	<button>EDIT</button> <button>DELETE</button>
2	Technology	Active	2017-07-05 00:35:39	2017-07-08 23:13:03	<button>EDIT</button> <button>DELETE</button>
3	Science	Active	2017-07-05 00:35:55	0000-00-00 00:00:00	<button>EDIT</button> <button>DELETE</button>
4	Java	Active	2020-10-11 01:00:28	0000-00-00 00:00:00	<button>EDIT</button> <button>DELETE</button>

 The table includes pagination at the bottom, showing "Showing 1 to 4 of 4 entries" and buttons for "Previous", "1", and "Next".

Figure 35: Book Category Manage Page.

The screenshot displays the 'Author Management Page' of the system. At the top, there is a header bar with the title 'LIBRARY & BOOK SHOP IN BD' on the left and a 'LOG OUT' button on the right. Below the header is a navigation menu with links: DASHBOARD, BOOK SHOP, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, and CHANGE PASSWORD. The main content area is titled 'ADD AUTHOR'. It contains a form with a light blue header labeled 'Author Info'. The form has a text input field for 'Author Name' and a blue 'ADD' button at the bottom. Below this, there is a footer with copyright information: '© Library & Book Shop Management System | Designed by : Manzida Mou @ 2020'. Another navigation menu is shown below the footer.

MANAGE AUTHORS

No.	Author	Creation Date	Updation Date	Action
1	Chetan Bhagatt	2017-07-08 20:30:23	2017-07-08 21:15:09	<span style="color: blue;"><input checked="" type="button"/> EDIT</span> <span style="color: red;"><input type="button"/> DELETE</span>
2	Anita Desai	2017-07-08 20:35:08		<span style="color: blue;"><input checked="" type="button"/> EDIT</span> <span style="color: red;"><input type="button"/> DELETE</span>
3	HC Verma	2017-07-08 20:35:21		<span style="color: blue;"><input checked="" type="button"/> EDIT</span> <span style="color: red;"><input type="button"/> DELETE</span>
4	Paul 1	2020-10-11 01:00:39	2020-10-11 02:21:54	<span style="color: blue;"><input checked="" type="button"/> EDIT</span> <span style="color: red;"><input type="button"/> DELETE</span>

Showing 1 to 4 of 4 entries

Previous 1 Next

**Figure 36: Author Manage Page.**

**ADD BOOK**

---

**Book Info**

Book Name*	<input type="text"/>
Category*	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text"/>
Author*	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text"/>
ISBN Number *	<input type="text"/>
An ISBN is an International Standard Book Number. ISBN Must be unique	
Price *	<input type="text"/>
<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 5px 15px;" type="button" value="ADD"/>	

---

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LIBRARY & BOOK SHOP IN BD
LOG OUT

DASHBOARD
BOOK SHOP
CATEGORIES ▾
AUTHORS ▾
BOOKS ▾
ISSUE BOOKS ▾
REG STUDENTS
CHANGE PASSWORD

**MANAGE BOOKS**

---

**Books Listing**

10	records per page	Search: <input type="text"/>				
No.	Book Name	Category	Author	ISBN	Price	Action
1	physics	Science	HC Verma	1111	15	<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 2px 5px;" type="button" value="EDIT"/> <input style="background-color: red; color: white; border: 1px solid red; border-radius: 5px; padding: 2px 5px;" type="button" value="DELETE"/>
2	Classification of Java	Java	Paul 1	12345	120	<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 2px 5px;" type="button" value="EDIT"/> <input style="background-color: red; color: white; border: 1px solid red; border-radius: 5px; padding: 2px 5px;" type="button" value="DELETE"/>

Showing 1 to 2 of 2 entries

Previous
1
Next

**Figure 37: Book Manage Page.**

**Issue a New Book**

<b>Srtudent ID *</b>	<input type="text"/>
Student ID:	
SID009	
SID010	
SID012	
Selected Student's Name:	
<b>ISBN Number or Book Title *</b>	
<input type="text"/>	
ISBN Number:	
222333	
1111	
12345	
<input type="button" value="ISSUE BOOK"/>	

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**MANAGE ISSUED BOOKS**

Success : Book Returned successfully

**Issued Books**

10	records per page	Search: <input type="text"/>
----	------------------	------------------------------

No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Amit	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	<input checked="" type="button" value="EDIT"/>
2	Amit	physics	1111	2020-10-11 01:36:43	Not Return Yet	<input checked="" type="button" value="EDIT"/>
3	Ibrahim Khalil	Classification of Java	12345	2020-10-11 01:03:44	Not Return Yet	<input checked="" type="button" value="EDIT"/>
4	Ibrahim Khalil	physics	1111	2020-10-08 03:18:39	Not Return Yet	<input checked="" type="button" value="EDIT"/>
5	Ibrahim Khalil	PHP And MySql programming	222333	2020-10-08 03:09:25	2020-10-08 03:09:37	<input checked="" type="button" value="EDIT"/>
6	test	PHP And MySql programming	222333	2017-07-15 16:59:26	2020-10-13 02:58:28	<input checked="" type="button" value="EDIT"/>

Showing 1 to 6 of 6 entries

Previous
1
Next

**Figure 38: Issue Book Manage Page.**

The screenshot displays the User Dashboard View of a library management system. At the top, there is a navigation bar with the title "LIBRARY & BOOK SHOP IN BD" on the left and a "LOG OUT" button on the right. Below the navigation bar, there is a horizontal menu bar with four items: "DASHBOARD", "BOOK SHOP", "ACCOUNT", and "ISSUED BOOKS". The "ACCOUNT" item has a dropdown menu open, showing "MY PROFILE" and "CHANGE PASSWORD".

The main content area is titled "USER DASHBOARD". It features two cards: one showing "3 Book Issued" with a blue icon and another showing "0 Books Not Returned Yet" with a yellow recycling icon.

At the bottom of the dashboard, there is a URL bar containing "localhost/Online\_Library\_MS/library/dashboard.php#".

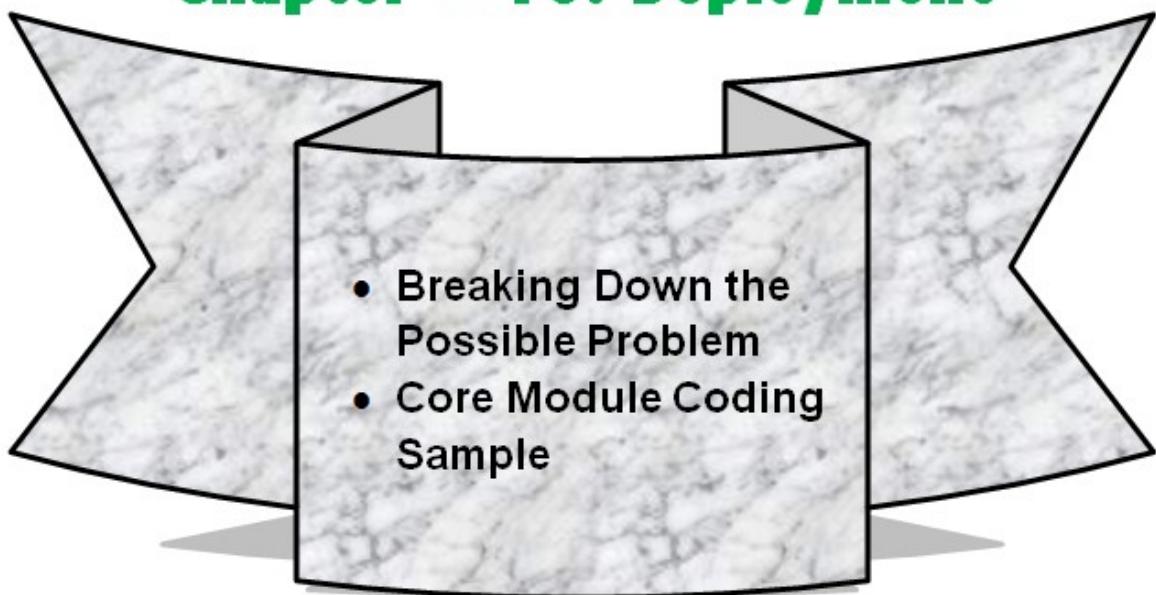
The second part of the screenshot shows a detailed view of the "MANAGE ISSUED BOOKS" section. This section has a header "Issued Books" and includes a search bar with "Search:" and a dropdown for "records per page" set to "10". A table lists two issued books:

#	Book Name	ISBN	Issued Date	Return Date	Fine in(BDT)
1	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	
2	physics	1111	2020-10-11 01:36:43	Not Return Yet	

Below the table, it says "Showing 1 to 2 of 2 entries" and has navigation buttons for "Previous", "1", and "Next".

**Figure 39: User Dashboard View.**

## **Chapter – 10: Deployment**



Deployment chapter is making the plan or list that how development of the project will be held. What kind of discussion or module are needed and it break down work into different process using time boxes. This chapter is the proof all about it.

### 10.1 Breaking down the Possible Problem of the System

In previous chapter I have declare that I have chosen DSDM atern for this project. Iterative development will run smoothly under this methodology. Here I have identified the engineering process for each time boxes. These are given below:

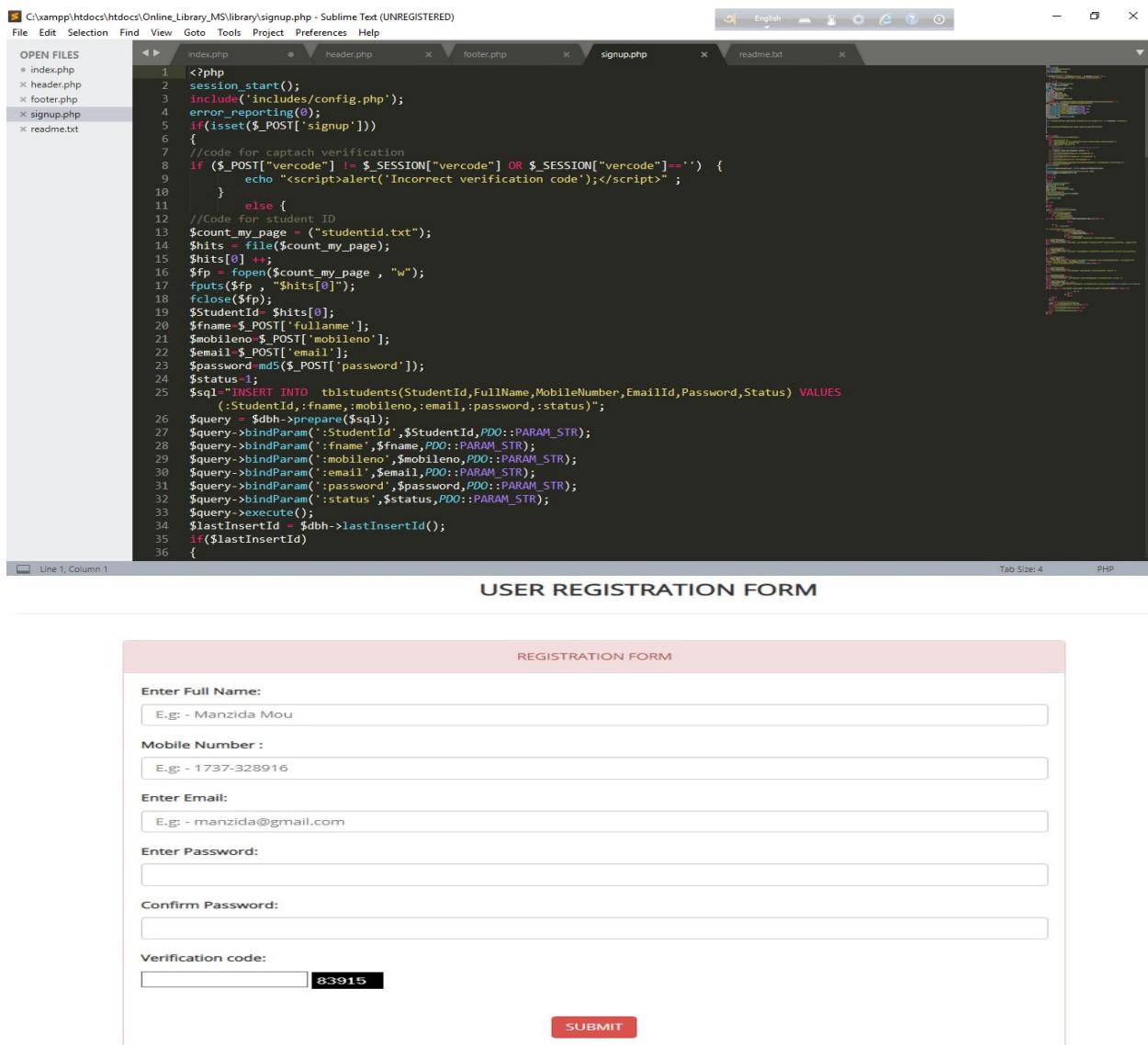
#	Time Boxes	Name	Discussion
1	<b>TB - 01</b>	Database Design	Entity Relationship Diagram (ERD) is made for run the system of this project.
2	<b>TB - 02</b>	Design of Interface	Web system are depended on the well and organized interface design, it attracts customers.
3	<b>TB - 03</b>	Implementation	Implementations are the main part of creating a project. Here systems are created to run the project business.
4	<b>TB - 04</b>	Validations & Verifications	Systems features are fully worked with validations of the features. For each function - verification are needed to run the operation smoothly.

**Figure 40: Time Boxes Allocation.**

## 10.2 Core Module Coding Sample

Library and book shop management are done with PHP language. This system's main goals and objectives are implemented clearly. Here the sample of the core module of this project and code sample of it:

### 10.2.1 Interface and Coding Screenshot of the Core Module



The screenshot shows the Sublime Text editor with the following details:

- File Path:** C:\xampp\htdocs\htdocs\Online\_Library\_MS\library\signup.php
- Code Content:** The code is a PHP script for user registration. It includes session handling, configuration inclusion, error reporting, and a check for a verification code. It then counts hits for a specific page, opens a file to store hit counts, and inserts data into a database table named tblistudents. The database columns include StudentId, FirstName, LastName, MobileNumber, EmailId, Password, and Status.
- Browser View:** A separate window shows a "USER REGISTRATION FORM" with fields for Enter Full Name, Mobile Number, Enter Email, Enter Password, Confirm Password, and Verification code. The verification code field contains "83915". A red "SUBMIT" button is at the bottom.

Figure 41: User signup Code and Form.

The screenshot shows a Sublime Text window with multiple tabs open, including index.php, header.php, footer.php, signup.php, userlogin.php (the active tab), and readme.txt. The userlogin.php code is as follows:

```

1 <?php
2 session_start();
3 error_reporting(0);
4 include('includes/config.php');
5 if($_SESSION['login']!=''){
6 $_SESSION['login']='';
7 }
8 if(isset($_POST['login'])){
9 {
10 //code for captcha verification
11 if($_POST['vercode'] != $_SESSION["vercode"] OR $_SESSION["vercode"]=="") {
12 echo "<script>alert('Incorrect verification code');</script>";
13 }
14 else {
15 $email=$_POST['emailid'];
16 $password=md5($_POST['password']);
17 $sql ="SELECT EmailId,Password,StudentId,Status FROM tblstudents WHERE EmailId=:email and Password=:password";
18 $query= $db-> prepare($sql);
19 $query-> bindParam(':email', $email, PDO::PARAM_STR);
20 $query-> bindParam(':password', $password, PDO::PARAM_STR);
21 $query-> execute();
22 $results=$query->fetchAll(PDO::FETCH_OBJ);
23
24 if($query->rowCount() > 0)
25 {
26 foreach ($results as $result) {
27 $_SESSION['staid']=$result->StudentId;
28 if($result->status==1)
29 {
30 $_SESSION['login']= $_POST['emailid'];
31 echo "<script type='text/javascript'> document.location ='dashboard.php'; </script>";
32 } else {
33 echo "<script>alert('Your Account Has been blocked .Please contact admin');</script>";
34 }
35 }
36 }
37

```

Below the code, the browser window displays the title "LIBRARY & BOOK SHOP IN BD". The navigation bar includes links for HOME, BOOK SHOP, ADMIN LOGIN, USER SIGNUP, and USER LOGIN. The main content area is titled "USER LOGIN FORM" and contains a "LOGIN FORM" box with fields for Enter Email (with placeholder "E.g: - manzida@gmail.com"), Password, and Verification code (containing "99906"). It also includes "Forgot Password?" and "Verification code:" labels, and "LOGIN" and "Not Register Yet?" buttons.

**Figure 42: User Login Code and Form.**

C:\xampp\htdocs\htdocs\Online\_Library\_MS\library\dashboard.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- index.php
- header.php
- footer.php
- signup.php
- userlogin.php
- dashboard.php**
- readme.txt

```

49             <i class="fa fa-bars fa-5x"></i>
50
51 $sid=$_SESSION['stdid'];
52 $sql1 ="SELECT id from tblissuedbookdetails where StudentID=:sid";
53 $query1 = $dbh -> prepare($sql1);
54 $query1->bindParam(':sid',$sid,PDO::PARAM_STR);
55 $query1->execute();
56 $results1=$query1->fetchAll(PDO::FETCH_OBJ);
57 $issuedbooks=$query1->rowCount();
58 ?>
59
60             <h3><?php echo htmlentities($issuedbooks);?> </h3>
61             Book Issued
62         </div>
63     </div>
64
65     <div class="col-md-3 col-sm-3 col-xs-6">
66         <div class="alert alert-warning back-widget-set text-center">
67             <i class="fa fa-recycle fa-5x"></i>
68     <?php
69     $rsts=0;
70     $sql2 ="SELECT id from tblissuedbookdetails where StudentID=:sid and RetrunStatus=:rsts";
71     $query2 = $dbh -> prepare($sql2);
72     $query2->bindParam(':sid',$sid,PDO::PARAM_STR);
73     $query2->bindParam(':rsts',$rsts,PDO::PARAM_STR);
74     $query2->execute();
75     $results2=$query2->fetchAll(PDO::FETCH_OBJ);
76     $returnedbooks=$query2->rowCount();
77 ?>
78
79             <h3><?php echo htmlentities($returnedbooks);?></h3>
80             Books Not Returned Yet
81         </div>
82     </div>
83
84
85

```

Line 1, Column 1      Spaces: 2      PHP

Figure 43: User Dashboard Code and Interface.

C:\xampp\htdocs\library\issued-books.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- index.php
- header.php
- footer.php
- signup.php
- userlogin.php
- dashboard.php
- issued-books.php
- readme.txt

```

76 <?php
77 <?php
78 $sid=$_SESSION['stid'];
79 $sql="SELECT tblbooks.BookName,tblbooks.ISBNNumber,tblissuedbookdetails.IssuesDate,tblissuedbookdetails.ReturnDate,
tblissuedbookdetails.id as rid,tblissuedbookdetails.fine from tblissuedbookdetails join tblstudents on tblstudents.
StudentId=tblissuedbookdetails.StudentId join tblbooks on tblbooks.id=tblissuedbookdetails.BookId where tblstudents.
StudentId=:sid order by tblissuedbookdetails.id desc";
80 $query = $db->prepare($sql);
81 $query->bindParam(':sid', $sid, PDO::PARAM_STR);
82 $query->execute();
83 $results=$query->fetchAll(PDO::FETCH_OBJ);
84 $cnt=1;
85 if($query->rowCount() > 0)
86 {
87 foreach($results as $result)
88 {
89 <tr class="odd gradeX">
90 <td class="center"><?php echo htmlentities($cnt);?></td>
91 <td class="center"><?php echo htmlentities($result->BookName);?></td>
92 <td class="center"><?php echo htmlentities($result->ISBNNumber);?></td>
93 <td class="center"><?php echo htmlentities($result->IssuesDate);?></td>
94 <td class="center"><?php if($result->ReturnDate=="")?
95 {?>
96 <span style="color:red">
97 <?php echo htmlentities("Not Return Yet"); ?>
98 </span>
99 <?php } else {
100 echo htmlentities($result->ReturnDate);
101 }
102 ?></td>
103 <td class="center"><?php echo htmlentities($result->fine);?></td>
104 </tr>
105 <?php $cnt=$cnt+1;?>
106 </tbody>
107 </table>
108 </div>
109

```

Line 1, Column 1      Spaces: 4      PHP

**LIBRARY & BOOK SHOP IN BD** LOG OUT

DASHBOARD    BOOK SHOP    ACCOUNT ▾    ISSUED BOOKS

MANAGE ISSUED BOOKS

Issued Books					
10	records per page	Search: <input type="text"/>			
#	Book Name	ISBN	Issued Date	Return Date	Fine in(BDT)
1	Classification of Java	12345	2020-10-11 01:03:44	Not Return Yet	
2	physics	1111	2020-10-08 03:18:39	Not Return Yet	
3	PHP And MySql programming	222333	2020-10-08 03:09:25	2020-10-08 03:09:37	500

Showing 1 to 3 of 3 entries      Previous 1 Next

Figure 44: User Book Issue Code and Interface.

C:\xampp\htdocs\htdocs\Online\_Library\_MS\library\admin\issue-book.php - Sublime Text (UNREGISTERED)

File Edit Selection Find View Goto Tools Project Preferences Help

OPEN FILES

- index.php
- header.php
- footer.php
- signup.php
- userlogin.php
- dashboard.php
- issued-books.php
- issue-book.php**
- readme.txt

```

1 <?php
2 session_start();
3 error_reporting(0);
4 include('includes/config.php');
5 if(strlen($_SESSION['alogin'])==0)
6 {
7 header('location:index.php');
8 }
9 else{
10
11 if(isset($_POST['issue']))
12 {
13 $studentid=strtoupper($_POST['studentid']);
14 $bookid=$_POST['bookdetails'];
15 $sql="INSERT INTO tbissuedbookdetails(StudentID,BookId) VALUES(:studentid,:bookid)";
16 $query = $dbb->prepare($sql);
17 $query->bindParam(':studentid',$studentid,PDO::PARAM_STR);
18 $query->bindParam(':bookid',$bookid,PDO::PARAM_STR);
19 $query->execute();
20 $lastInsertId = $dbb->lastInsertId();
21 if($lastInsertId)
22 {
23 $_SESSION['msg']="Book issued successfully";
24 header('location:manage-issued-books.php');
25 }
26 else
27 {
28 $_SESSION['error']="Something went wrong. Please try again";
29 header('location:manage-issued-books.php');
30 }
31 }
32 }
33 ?>
34 <!DOCTYPE html>
35 <html xmlns="http://www.w3.org/1999/xhtml">
36 <head>
37 <meta charset="utf-8" />

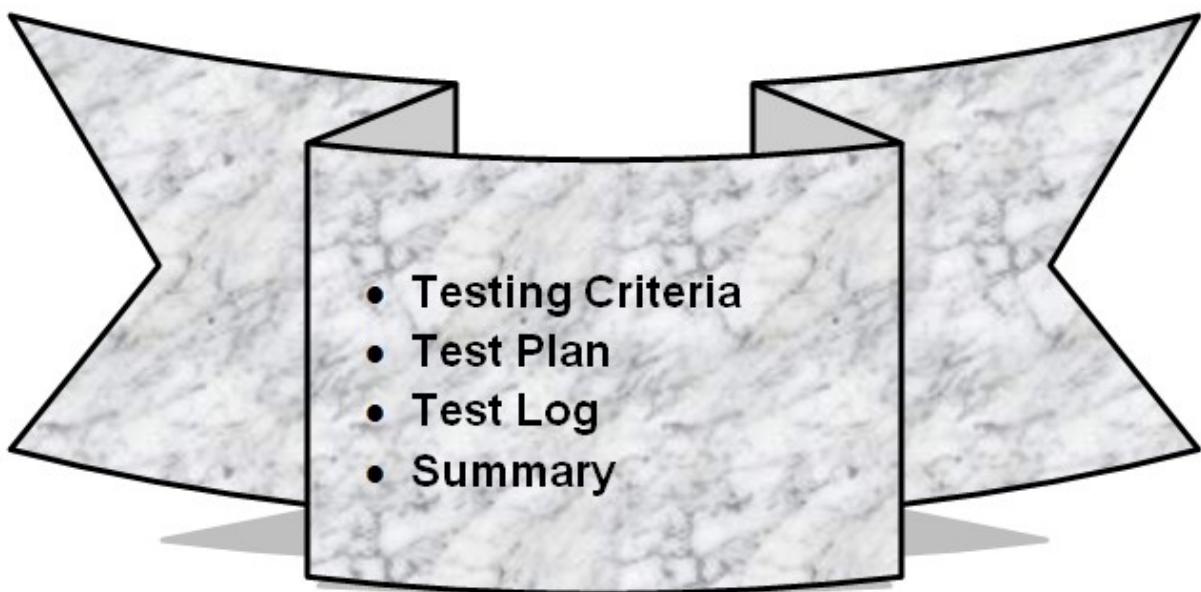
```

Line 31, Column 1: Saved C:\xampp\htdocs\htdocs\Online\_Library\_MS\library\admin\issue-book.php (UTF-8)

ISSUE A NEW BOOK

Figure 45: Issue Book by system Admin.

## **Chapter – 11: Testing**



Testing is the most essential and important part before releasing the software. In computer science – testing part established project's quality and performance. All types of checking are done here. In this chapter I have explain about testing criteria of this project and showed the testing for each feature and functionality. Different type of testing is done in this chapter clearly.

### **11.1 Testing Criteria**

In computer science there has many types of software testing criteria. This web system are making with PHP language. For testing its features I have find many types of testing criteria. My chosen testing criteria are –

- ❖ **Unit Testing** (Function or Unit Test)
- ❖ **Integration Testing** (Combination of function Test)
- ❖ **Module Testing** (Specific Module Test of the System)
- ❖ **Security Testing** (Systems Robustness Test)
- ❖ **Performance Testing** (Performance of the System or Feature Test)

## 11.2 System Test Plan

This part is about the system test plan or about how I have making the plan for test the software. Here I have described how it works for each unit. My chosen criteria are described here.

SI No	Criteria	Working Unit
01	Plan A (Unit Testing)	<ul style="list-style-type: none"><li>❖ Proper validation on user form of the log into the system.</li><li>❖ Proper validation on registration form of the log into the system.</li></ul>
02	Plan B (Integration Testing)	<ul style="list-style-type: none"><li>❖ Books order success testing.</li><li>❖ Books order sending request and accept it by admin.</li></ul>
03	Plan C (Module Testing)	<ul style="list-style-type: none"><li>❖ Controlling system of the system admin in the system.</li><li>❖ Different types of form control for run book library business.</li></ul>
04	Plan D (Security Testing)	<ul style="list-style-type: none"><li>❖ Proper log in facility using valid email and password.</li><li>❖ Each page access via its proper authenticate person.</li></ul>
05	Plan E (Performance Testing)	<ul style="list-style-type: none"><li>❖ Updating the data of the book's category.</li><li>❖ Updating or deleting the data of books as admin of the system.</li></ul>

**Figure 46: System Testing Plan.**

## 11.3 System Test Log

In previous chapter I have made testing template of this system. Now in this chapter I will show the test log. I have measure the feature's performance here using different test criteria:

### 11.3.1 Test Log A (Unit Testing)

<b>Test Name:</b>	UT - A (Unit Testing)		
<b>Testing Aim:</b>	Checking the Validation of User Registration fields.		
<b>Test Work:</b>	Click on submit button without filling the required fields.		
Source of the Data	Action	Expected Result	Actual Result
Student/User	Press the submit button without filling data into fields.	An error message will show that fill the fields.	System Interface shows error message.

USER REGISTRATION FORM

The screenshot displays a registration form titled "REGISTRATION FORM". The form includes fields for "Enter Full Name" (example: Manzida Mou), "Mobile Number" (example: 1737-328916), "Enter Email" (example: manzida@gmail.com), "Enter Password", "Confirm Password", and "Verification code" (containing the number 71272). A validation message "Please fill out this field." is shown next to the mobile number input field. A red "SUBMIT" button is located at the bottom right of the form.

Figure 47: Registration functionality Validation check.

<b>Test Name:</b>	UT - B (Unit Testing)		
<b>Testing Aim:</b>	Checking the Validation of Email fields.		
<b>Test Work:</b>	Click on submit button with wrong format of email address.		
<b>Source of the Data</b>	<b>Action</b>	<b>Expected Result</b>	<b>Actual Result</b>
Student/User	Press the submit button with missing @ in email field.	An error message will show that you enter wrong email address.	System Interface shows error message.

## USER REGISTRATION FORM

**REGISTRATION FORM**

---

Enter Full Name:



---

Mobile Number :



---

Enter Email:



---

error : You did not enter a valid email.

**Figure 48: Email Validation Checking.**

### 11.3.2 Test Log B (Integration Testing)

<b>Test Name:</b>	<b>UT - B (Integration Testing)</b>		
<b>Testing Aim:</b>	Checking the Category Control of Books.		
<b>Test Work:</b>	Make a category of book then access it from book manage functionality.		
<b>Source of the Data</b>	<b>Action</b>	<b>Expected Result</b>	<b>Actual Result</b>
System Admin	Enter a book category – Test Category.	Category create successfully and shown in book info page.	System Interface shows it successfully.

**ADD CATEGORY**

The screenshot shows a 'Category Info' form with the following fields:

- Category Name:** Test Category
- Status:** Active (radio button selected)
- CREATE** button

The screenshot also shows a 'Book Info' section below, which includes:

- Book Name \***: Test Book
- Category \***: A dropdown menu showing categories like Select Category, Romantic, Technology, Science, Java, and Test Category. Test Category is highlighted with a blue selection bar.
- ISBN**: An ISBN is an International Standard Book Number. ISBN Must be unique.
- Price \***: A price input field.
- ADD** button

**Figure 49: Category Create and Management.**

<b>Test Name:</b>	UT - B (Integration Testing)		
<b>Testing Aim:</b>	Checking the Issuing Book Functionality.		
<b>Test Work:</b>	Issue a book after retrieve data from database system.		
Source of the Data	Action	Expected Result	Actual Result
System Admin	Issuing a book selected by student ID.	If student ID is correct then it shows student name.	System Interface shows it successfully.

Issue a New Book

Srstudent ID \*

Student ID:  
SID009  
SID010  
SID012  
SID013

Selected Student's Name:  
**Manzida Mou**

ISBN Number or Book Title \*

ISBN Number:  
222333  
1111  
12345

Classification of Java

**ISSUE BOOK**

#### MANAGE ISSUED BOOKS

Success : Book issued successfully

Issued Books

10 records per page  Search:

No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Manzida Mou	Classification of Java	12345	2020-10-14 00:22:02	Not Return Yet	

**Figure 50: Issuing Book Testing.**

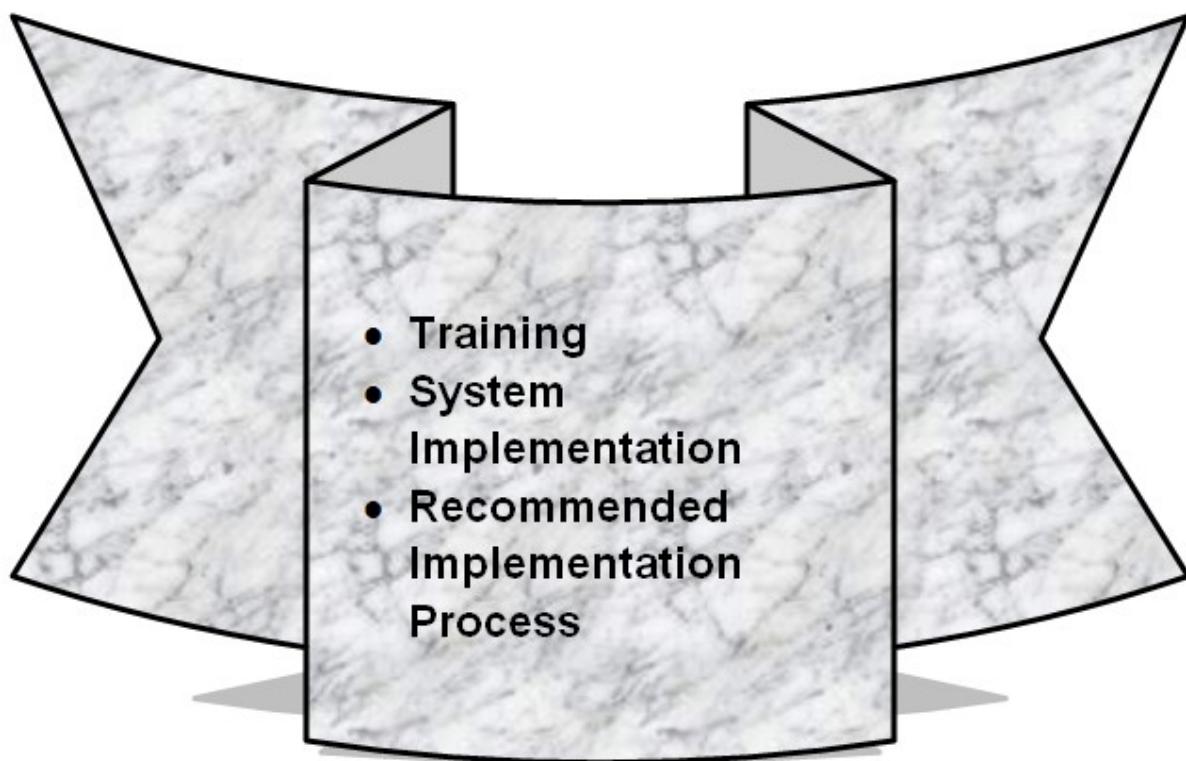
## **11.4 Testing Summary**

Testing part is necessary for releasing software. All necessary part of the testing criteria which I identified is done here clearly. Different techniques and testing criteria and their outcome are pointed here using test template. Reports or result shows that the features are successfully work the operations. And system's proposed goals are achieved.

### **11.4.1 Testing Outcome**

Most important and core module are tested here clearly in this part. Outcome are compared with expected outcome then leave the comments that how the system fulfill the testing objectives. After analyzing all of this I can say that the testing plan and operations are successful as it is achieved the project proposed goals.

## **Chapter – 12: Implementation**



This implementation chapter will describe about the implementation process of system admin or developers. In this part of the implementation chapter – I have make plan and training on it, and finally recommend which process will be best for implement this system.

## 12.1 Training

For different types of users of this system I have make and identified the training plan of this library and book shop management system:

S. No.	Name of the User	Area Define	Required Time	Explanation
01	Book customer, group of member	Book search using book category which was defined in the system.	Near 30 Minutes	Customers will understand how to make the search books using category.
		Book List on cart for final confirmation.	Near 30-40 Minutes	Customers will learn this operation perfectly.
		Final checkout options for buying books or sells or exchange it.	Near 20 Minutes	Final checking and confirmation method will be clear after training this part.
02	Admin	Books and categories and shop owner monitoring by online activity.	Around 1-1.30 Hours	System's role are learn by the system admin for handle the whole system from background of this business.

03	Shop Owner	Virtual shop opens by using valid data and operation on the system.	Near 30-40 Minutes	Shop owner will understand how to use and create shop business on online.
04	Association	Book publications and associations monitoring on the system.	Near 25-30 Minutes	Association will learn their operation on the system.

## 12.2 System Implementation

Creating computing project – there has four types of implement schema. No I will describe about them:

**Big Bang:** This process is about shut down the old system totally and installs the brand new system. Transmissions of data are fully set in the new system and it is so fast process.

**Direct Implementation:** In this process we have use new system as the replacement of the old system. Firstly old one are removed and new system are implement directly.

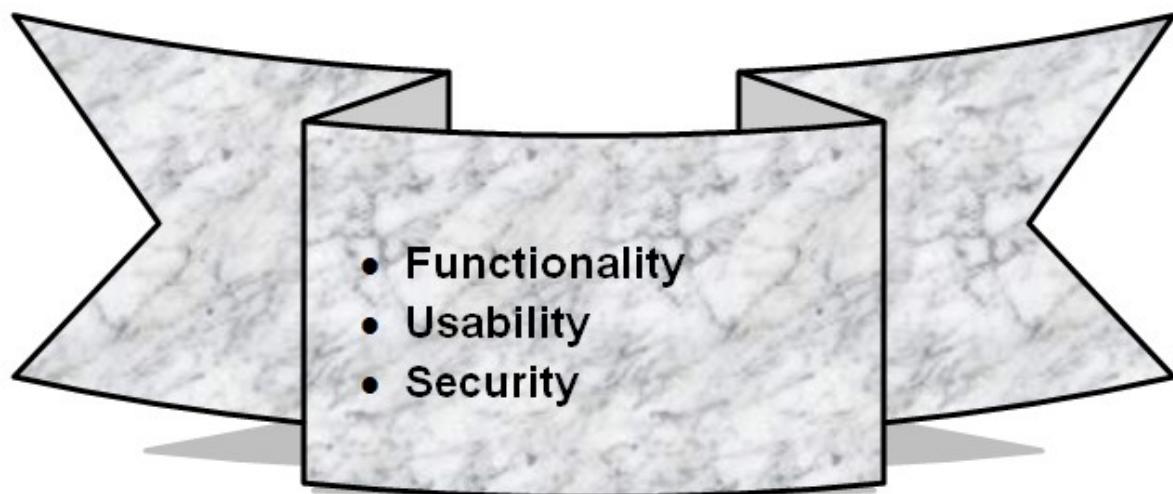
**Parallel Implementation:** In this process new system are installed beside the old one. Data backup and old data uses are easy in this process.

**Pilot Implementation:** This process are make test first. A small area will take and implement here the new process, if the system's results will successful then organization decide transmission data and switch to the new system.

### **12.3 Recommended Implementation Process**

This chapter is about analyzed about all types of implementation process. Every process has some advantages and disadvantages. But after analyzing all of them I have chosen that pilot implementation approach will be the best selection for this project and business. First of all it takes a small part and implements the new system. If the small part shows the success of the business or goal of the project then it can be used as the replacement of the old system. So, for this project I have recommended that – the pilot approach will be the best option.

## **Chapter – 13: Evaluation**



After Implementation and testing part we have to need evaluate the system that we have made. This chapter is about evaluate system's functionality based on different criteria, validation etc. Functionality, usability, security, portability and performance are the evaluation criteria of any software. I have made some of them in this chapter.

### 13.1 Functionality

System is all about functionality. System's main function or functionality is implemented clearly for business purpose. Developed evaluate it in efficient way. For proofing my words I have provide screenshot of the main functionality of this project.

The screenshot shows a web-based application interface for managing registered students. At the top, there is a header bar with the title 'LIBRARY & BOOK SHOP IN BD' on the left and a 'LOG OUT' button on the right. Below the header is a navigation menu with links: DASHBOARD, BOOK SHOP, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, and CHANGE PASSWORD. The main content area is titled 'MANAGE REG STUDENTS'. It features a table titled 'Reg Students' with the following data:

No.	Student ID	Student Name	Email Id	Mobile Number	Reg Date	Status	Action
1	SID009	test	test@gmail.com	2359874527	2017-07-11 21:58:28	Active	Inactive
2	SID010	Amit	amit@gmail.com	8585856224	2017-07-15 19:40:30	Active	Inactive
3	SID012	Ibrahim Khalil	mdibrahimk48@gmail.com	1737328916	2020-10-07 22:42:01	Active	Inactive
4	SID013	Manzida Mou	manzida@gmail.com	1737328918	2020-10-07 22:42:01	Active	Inactive

Below the table, there is a message 'Showing 1 to 4 of 4 entries' and a navigation bar with buttons for 'Previous', '1', and 'Next'.

Figure 51: User Manage Functionality.

The screenshot displays two pages of the Library & Book Shop in BD application:

- MANAGE CATEGORIES Page:**
  - Header:** LIBRARY & BOOK SHOP IN BD, LOG OUT
  - Navigation:** DASHBOARD, BOOK SHOP, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD
  - Title:** MANAGE CATEGORIES
  - Table:** Categories Listing
 

No.	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active	2017-07-05 00:35:25	2017-07-06 22:00:42	<input checked="" type="button"/> EDIT <input type="button"/> DELETE
2	Technology	Active	2017-07-05 00:35:39	2017-07-08 23:13:03	<input checked="" type="button"/> EDIT <input type="button"/> DELETE
3	Science	Active	2017-07-05 00:35:55	0000-00-00 00:00:00	<input checked="" type="button"/> EDIT <input type="button"/> DELETE
4	Java	Active	2020-10-11 01:00:28	0000-00-00 00:00:00	<input checked="" type="button"/> EDIT <input type="button"/> DELETE
  - Footer:** Showing 1 to 4 of 4 entries, Previous, 1, Next
- ADD CATEGORY Page:**
  - Header:** LIBRARY & BOOK SHOP IN BD, LOG OUT
  - Navigation:** DASHBOARD, BOOK SHOP, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD
  - Title:** ADD CATEGORY
  - Form:** Category Info
 

Category Name:	<input type="text"/>
Status:	<input checked="" type="radio"/> Active <input type="radio"/> Inactive
<input type="button"/> CREATE	
  - Footer:** © Library & Book Shop Management System | Designed by : Manzida Mou @ 2020

Figure 52: Book Category Manage Functionality.

The screenshot displays two pages of a web-based library management system.

**Manage Books Page:**

- Header:** LIBRARY & BOOK SHOP IN BD, LOG OUT
- Navigation Bar:** DASHBOARD, BOOK SHOP, CATEGORIES, AUTHORS, BOOKS, ISSUE BOOKS, REG STUDENTS, CHANGE PASSWORD
- Title:** MANAGE BOOKS
- Table:** Books Listing
 

No.	Book Name	Category	Author	ISBN	Price	Action
1	physics	Science	HC Verma	1111	15	<button>EDIT</button> <button>DELETE</button>
2	Classification of Java	Java	Paul 1	12345	120	<button>EDIT</button> <button>DELETE</button>
- Pagination:** Showing 1 to 2 of 2 entries, Previous, 1, Next

**Add Book Page:**

- Header:** ADD BOOK
- Form:** Book Info
 

Book Name*	
<input type="text"/>	
Category*	
<input type="text"/> Select Category	
Author*	
<input type="text"/> Select Author	
ISBN Number*	
<input type="text"/>	
An ISBN is an International Standard Book Number. ISBN Must be unique	
Price*	
<input type="text"/>	
<button>ADD</button>	

Figure 53: Book Manage Functionality.

The screenshot displays two pages of the Library & Book Shop Management System:

- Add Author Page:** A modal window titled "Author Info" contains a form field "Author Name:" with an empty input box and a blue "ADD" button below it.
- Manage Authors Page:** A table titled "Authors Listing" shows four entries with columns: No., Author, Creation Date, Updation Date, and Action. Each entry includes "EDIT" and "DELETE" buttons. The table includes pagination at the bottom showing "Showing 1 to 4 of 4 entries" and buttons for "Previous", "1", and "Next".

**Figure 54: Author Manage Functionality.**

Issued Books						
10		records per page		Search:		
No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Amit	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	<input checked="" type="button"/> EDIT
2	Amit	physics	1111	2020-10-11 01:36:43	Not Return Yet	<input checked="" type="button"/> EDIT
3	Ibrahim Khalil	Classification of Java	12345	2020-10-11 01:03:44	Not Return Yet	<input checked="" type="button"/> EDIT
4	Ibrahim Khalil	physics	1111	2020-10-08 03:18:39	Not Return Yet	<input checked="" type="button"/> EDIT
5	Ibrahim Khalil	PHP And MySQL programming	222333	2020-10-08 03:09:25	2020-10-08 03:09:37	<input checked="" type="button"/> EDIT
6	test	PHP And MySQL programming	222333	2017-07-15 16:59:26	2020-10-13 02:58:28	<input checked="" type="button"/> EDIT

Showing 1 to 6 of 6 entries

Previous 1 Next

### ISSUE A NEW BOOK

Issue a New Book	
Srtudent ID *	<input type="text"/> Student ID: SID009 SID010 SID012 SID013
Selected Student's Name:	
ISBN Number or Book Title *	<input type="text"/> ISBN Number: 222333 1111 12345
	<input type="button" value="ISSUE BOOK"/>

**Figure 55: Issue Book in the System and Manage.**

## 13.2 Usability

Usability is about measurement that how usable this system for business organization.

System's functionality or features are met the user satisfaction and it maintain by the world web system's rules. User friendly interface, navigation bar, outlook and linking of the page are done in understandable way. For proofing my words I have provide screenshot of the main functionality of this project.

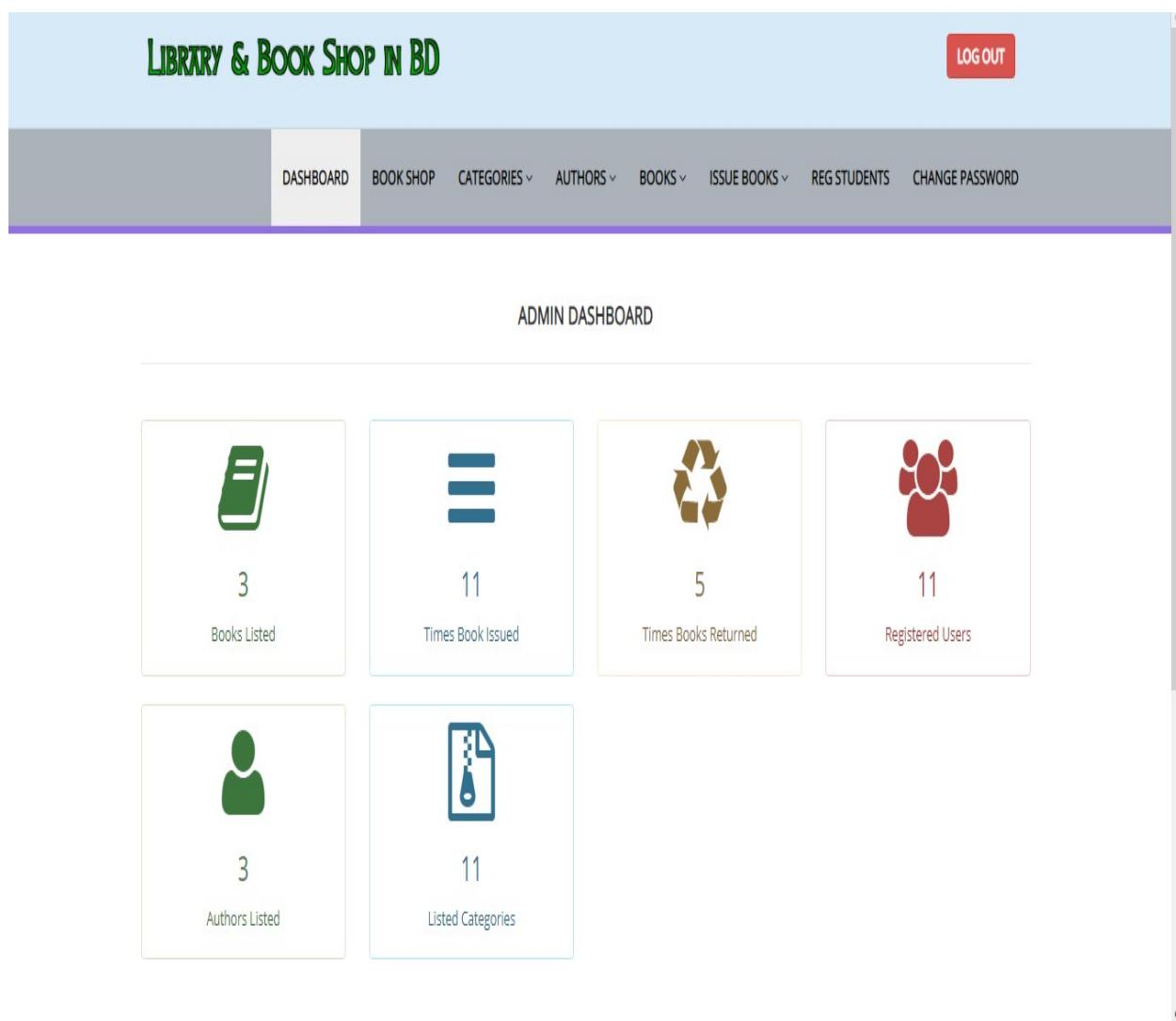


Figure 56: Usability Maintain for this System.

### 13.3 Security

Security is the most comment and important things now a day for web based system.

Confidential data need to kept in efficient way and maintain the law of web business.

Proper authentication using the information is the most important things for handle the system. Mail confirmations are one of them for providing security of the system. For proofing my words I have provide screenshot of the main functionality of this project.

The screenshot shows a user login interface. At the top, there is a header bar with the text "LIBRARY & Book Shop IN BD". Below the header, a navigation bar contains links for "HOME", "BOOK SHOP", "ADMIN LOGIN", "USER SIGNUP", and "USER LOGIN". The main content area is titled "USER LOGIN FORM". Inside this form, there is a sub-section titled "LOGIN FORM". This sub-section includes fields for "Enter Email:" (with placeholder "E.g.: manzida@gmail.com") and "Password:" (an empty input field). Below these fields is a link "Forgot Password?". There is also a field for "Verification code:" containing the number "18737". At the bottom of the form are two buttons: a blue "LOGIN" button and a link "|| Not Register Yet?".

**Figure 57: Security for the System.**

## **Chapter – 14: Critical Appraisal**



Project's critical parts are evaluated and describe in this chapter. Here I have find out the objectives which are not met the requirements and which are met the requirements. After critical thinking I have measured the future plan or development of this project and identified these points clearly.

#### **14.1 Objectives Met**

Initial part of this project – I have set the objectives of the proposed project. Some objectives are met the project requirements successfully. Then in this part I have list out the completed objectives which are met the objectives clearly:

- ❖ Methodologies are implemented by following proper rules.
- ❖ Feasibility study and literature review are make properly for this project and business.
- ❖ Academic contents are followed and documentation is done clearly.
- ❖ Make the error free database management system.
- ❖ Proper data handling system for book related data.
- ❖ Operation works properly in this project.
- ❖ Proper validation and verification are implemented in each feature.

#### **14.2 Objectives not met**

Some objectives are not met in this system for lack of knowledge or lack of time limitation. So, in this part I have identified these features which are not met the requirements. These are:

- ❖ System log of the project.

- ❖ Tracking of the deliveryman for home delivery system.
- ❖ Proper identification of association group members.

### Solution for Overcome these Problems:

Project foundation need to be much better for avoid these types of problem. DSDM's iterative development process will help to find out the problems in time boxes. Proper handling data and making strong foundation is the way to maintain project's data clearly and will be beneficial for these problems.

### 14.3 Further Development

This project is 100% error free and I have achieved the project goals successfully. Still some features should be added in this project. For business need and time changes it is mandatory to change the system as needed. So, further development plan will be needed for any project. So, in this part I have identified some features that need to be deploying in future:

- ❖ Well categorized book management system.
- ❖ Mobile application for buy exchange or sell book for modern need.
- ❖ Presentation need to be dynamic between book shop owners.
- ❖ Offer or discount features for many occasions.
- ❖ 21th Book fair need to be added in this system. So, system will be more beneficial to public.

## **Chapter – 15: Conclusion**



## **15.1 Project Summary**

This system is developed for making the facility of online library and shop management system for the book lovers of Bangladesh. People can easily get book facility by using this system. There are four types of user in this system – customers or group of members, shop owner, admin and association of different book publications. This online platform manages all kind of users under this digitalized database system. From background database handle or manage all data and provide effect services for all book related persons. Limitations and verifications are deployed in each fields or features in this system. Book lovers can exchange their books, sell or buy their books. People need these resources and need to interact with members to solve any kind of book-oriented problems. That's why they need a platform where library shop owner can make their books details available to peoples and can easily get them and they both can interact with each other's to solve any problems and store book details, exchange and buy books etc. So, I have made this system as web based online book management for making business on online. This system creates new business era in Bangladesh with the people who are works with the books.

## **15.2 Project Goals**

I have achieved these goals for this project during my development work:

- ❖ Build online book business with the business related person under one platform.
- ❖ Book business sector and association can work under one platform.
- ❖ Lend, buy, sell or exchange books easily through the system.
- ❖ Manage book owner data and run business efficiently.

- ❖ Doing business on online platform with library management facility.
- ❖ 24/7 accessible system for getting book facility.
- ❖ Proper use of the book related data on electronic version.

### 15.3 My Experience

For doing this kind of computing project for business or organization we need to proper field work from root level. During development time of this project I have done proper research work and collect as much data for this project features. For doing this work I have gained different types of experience about doing computing project. I have also gain knowledge about different types of methodology and software coding knowledge. Hope this project will be helpful for my future career.

## Appendices:

### Appendix – 1 (User Guide)

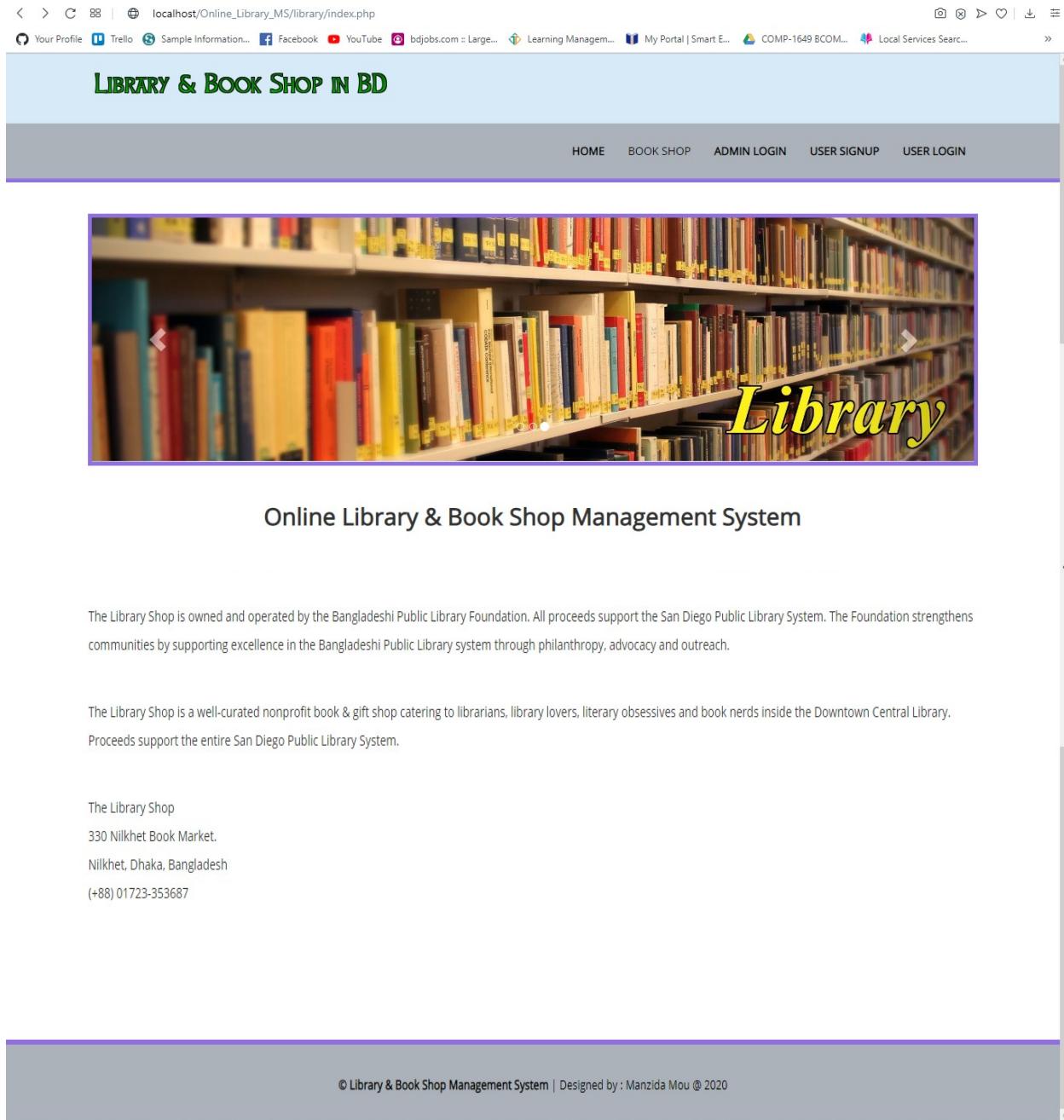


Figure 58: Systems Index Page.

The screenshot displays two login forms side-by-side, both titled "LOGIN FORM".

**ADMIN LOGIN FORM:**

- Username:
- Password:
- Verification code:  **77179**
- 

**USER LOGIN FORM:**

- Enter Email:
- Password:
- Forgot Password?
- Verification code:  **43816**
- || Not Register Yet?

**Figure 59: System Login Page.**

HOME   BOOK SHOP   ADMIN LOGIN   USER SIGNUP   USER LOGIN

USER REGISTRATION FORM

REGISTRATION FORM

Enter Full Name:  
E.g. - Manzida Mou

Mobile Number :  
E.g. - 1737-328916

Enter Email:  
E.g. - manzida@gmail.com

Enter Password:

Confirm Password:

Verification code:  
 56686

**SUBMIT**

Figure 60: System User Registration Page.

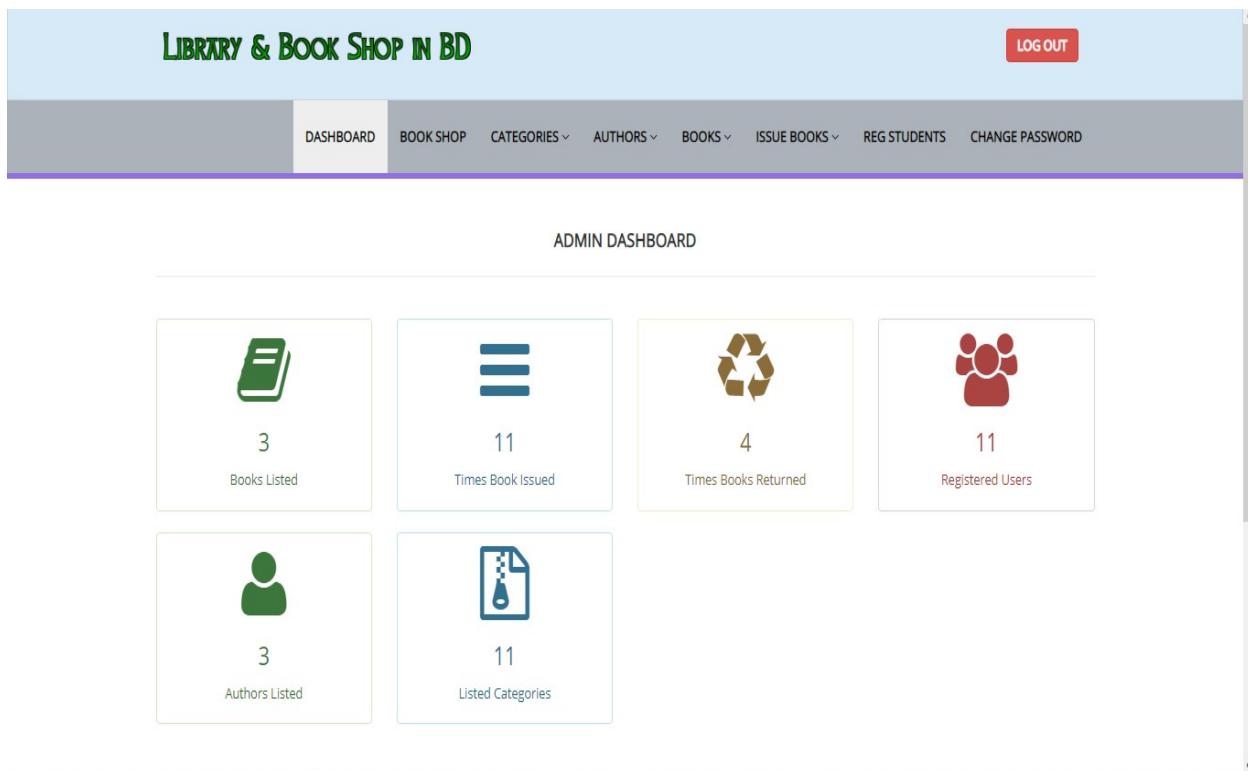


Figure 61: Admin Dashboard of this System.

The screenshot displays two pages of a web-based library management system:

- Top Page (ADD CATEGORY):** A modal window titled "Category Info" contains fields for "Category Name" (with an empty input field), "Status" (radio buttons for "Active" and "Inactive" with "Active" selected), and a "CREATE" button.
- Bottom Page (MANAGE CATEGORIES):** A table titled "Categories Listing" shows four entries:
 

No.	Category	Status	Creation Date	Updation Date	Action
1	Romantic	Active	2017-07-05 00:35:25	2017-07-06 22:00:42	<button>EDIT</button> <button>DELETE</button>
2	Technology	Active	2017-07-05 00:35:39	2017-07-08 23:13:03	<button>EDIT</button> <button>DELETE</button>
3	Science	Active	2017-07-05 00:35:55	0000-00-00 00:00:00	<button>EDIT</button> <button>DELETE</button>
4	Java	Active	2020-10-11 01:00:28	0000-00-00 00:00:00	<button>EDIT</button> <button>DELETE</button>

 The table includes pagination at the bottom, showing "Showing 1 to 4 of 4 entries" and buttons for "Previous", "1", and "Next".

Figure 62: Book Category Manage Page.

## LIBRARY & BOOK SHOP IN BD

LOG OUT

DASHBOARD
BOOK SHOP
CATEGORIES
AUTHORS
BOOKS
ISSUE BOOKS
REG STUDENTS
CHANGE PASSWORD

**ADD AUTHOR**

---

Author Info

Author Name:

**ADD**

DASHBOARD
BOOK SHOP
CATEGORIES
AUTHORS
BOOKS
ISSUE BOOKS
REG STUDENTS
CHANGE PASSWORD

**MANAGE AUTHORS**

---

Authors Listing

No.	Author	Creation Date	Updation Date	Action
1	Chetan Bhagatt	2017-07-08 20:30:23	2017-07-08 21:15:09	<a href="#" style="color: blue; border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">EDIT</a> <a href="#" style="color: red; border: 1px solid #ccc; padding: 2px 5px;">DELETE</a>
2	Anita Desai	2017-07-08 20:35:08		<a href="#" style="color: blue; border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">EDIT</a> <a href="#" style="color: red; border: 1px solid #ccc; padding: 2px 5px;">DELETE</a>
3	HC Verma	2017-07-08 20:35:21		<a href="#" style="color: blue; border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">EDIT</a> <a href="#" style="color: red; border: 1px solid #ccc; padding: 2px 5px;">DELETE</a>
4	Paul 1	2020-10-11 01:00:39	2020-10-11 02:21:54	<a href="#" style="color: blue; border: 1px solid #ccc; padding: 2px 5px; margin-right: 5px;">EDIT</a> <a href="#" style="color: red; border: 1px solid #ccc; padding: 2px 5px;">DELETE</a>

Showing 1 to 4 of 4 entries

[Previous](#)
1
[Next](#)

**Figure 63: Author Manage Page.**

**ADD BOOK**

---

**Book Info**

Book Name*	<input type="text"/>
Category*	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text"/>
Author*	<input style="width: 150px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text"/>
ISBN Number *	<input type="text"/>
An ISBN is an International Standard Book Number. ISBN Must be unique	
Price *	<input type="text"/>
<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 5px 15px;" type="button" value="ADD"/>	

---

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LIBRARY & BOOK SHOP IN BD
LOG OUT

DASHBOARD
BOOK SHOP
CATEGORIES ▾
AUTHORS ▾
BOOKS ▾
ISSUE BOOKS ▾
REG STUDENTS
CHANGE PASSWORD

**MANAGE BOOKS**

---

**Books Listing**

<input style="border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="button" value="10"/> records per page	<input style="width: 100px; height: 25px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px;" type="text"/> Search:					
No.	Book Name	Category	Author	ISBN	Price	Action
1	physics	Science	HC Verma	1111	15	<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 2px 5px;" type="button" value="EDIT"/> <input style="background-color: red; color: white; border: 1px solid red; border-radius: 5px; padding: 2px 5px;" type="button" value="DELETE"/>
2	Classification of Java	Java	Paul 1	12345	120	<input style="background-color: #007bff; color: white; border: 1px solid #007bff; border-radius: 5px; padding: 2px 5px;" type="button" value="EDIT"/> <input style="background-color: red; color: white; border: 1px solid red; border-radius: 5px; padding: 2px 5px;" type="button" value="DELETE"/>

Showing 1 to 2 of 2 entries

Previous 1 Next

**Figure 64: Book Manage Page.**

**Issue a New Book**

<b>Srtudent ID *</b>	<input type="text"/>
Student ID:	
SID009	
SID010	
SID012	
Selected Student's Name:	
<b>ISBN Number or Book Title *</b>	
<input type="text"/>	
ISBN Number:	
222333	
1111	
12345	
<input type="button" value="ISSUE BOOK"/>	

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**MANAGE ISSUED BOOKS**

Success : Book Returned successfully

**Issued Books**

10	records per page	Search: <input type="text"/>
----	------------------	------------------------------

No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Amit	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	<input checked="" type="button" value="EDIT"/>
2	Amit	physics	1111	2020-10-11 01:36:43	Not Return Yet	<input checked="" type="button" value="EDIT"/>
3	Ibrahim Khalil	Classification of Java	12345	2020-10-11 01:03:44	Not Return Yet	<input checked="" type="button" value="EDIT"/>
4	Ibrahim Khalil	physics	1111	2020-10-08 03:18:39	Not Return Yet	<input checked="" type="button" value="EDIT"/>
5	Ibrahim Khalil	PHP And MySql programming	222333	2020-10-08 03:09:25	2020-10-08 03:09:37	<input checked="" type="button" value="EDIT"/>
6	test	PHP And MySql programming	222333	2017-07-15 16:59:26	2020-10-13 02:58:28	<input checked="" type="button" value="EDIT"/>

Showing 1 to 6 of 6 entries

Previous
1
Next

**Figure 65: Issue Book Manage Page.**

The screenshot displays the User Dashboard View of a library management system. At the top, there is a navigation bar with the title "LIBRARY & BOOK SHOP IN BD" on the left and a "LOG OUT" button on the right. Below the navigation bar, there is a horizontal menu bar with four items: "DASHBOARD", "BOOK SHOP", "ACCOUNT", and "ISSUED BOOKS". The "ACCOUNT" item has a dropdown menu open, showing "MY PROFILE" and "CHANGE PASSWORD".

The main content area is titled "USER DASHBOARD". It features two cards: one showing "3 Book Issued" with a blue icon and another showing "0 Books Not Returned Yet" with a yellow recycling icon.

At the bottom, there is a table titled "Issued Books" showing the following data:

#	Book Name	ISBN	Issued Date	Return Date	Fine in(BDT)
1	Classification of Java	12345	2020-10-11 01:40:52	Not Return Yet	
2	physics	1111	2020-10-11 01:36:43	Not Return Yet	

Below the table, it says "Showing 1 to 2 of 2 entries" and has "Previous" and "Next" buttons. The URL "localhost/Online\_Library\_MS/library/dashboard.php#" is visible at the top of the browser window.

**Figure 66: User Dashboard View.**

## Appendix – 2 (Test Log)

<b>Test Name:</b>	<b>UT - A (Unit Testing)</b>		
<b>Testing Aim:</b>	Checking the Validation of User Registration fields.		
<b>Test Work:</b>	Click on submit button without filling the required fields.		
<b>Source of the Data</b>	<b>Action</b>	<b>Expected Result</b>	<b>Actual Result</b>
Student/User	Press the submit button without filling data into fields.	An error message will show that fill the fields.	System Interface shows error message.

### USER REGISTRATION FORM

The screenshot displays a registration form titled "REGISTRATION FORM". The form includes fields for Full Name, Mobile Number, Email, Password, Confirm Password, and Verification code. The "Mobile Number" field is highlighted with a red border and contains the placeholder "E.g: - 1737-328916". A validation message "Please fill out this field." is displayed in a callout bubble next to the input field. The "Verification code" field contains the number "71272". A red "SUBMIT" button is located at the bottom right of the form.

Field	Type	Value	Validation Status
Full Name	Text	E.g: - Manzida Mou	Valid
Mobile Number	Text	E.g: - 1737-328916	Invalid (Required)
Email	Text	E.g: - manzida@gmail.com	Valid
Password	Text	(Empty)	Valid
Confirm Password	Text	(Empty)	Valid
Verification code	Text	71272	Valid

Figure 67: Registration functionality Validation check.

<b>Test Name:</b>	UT - B (Unit Testing)		
<b>Testing Aim:</b>	Checking the Validation of Email fields.		
<b>Test Work:</b>	Click on submit button with wrong format of email address.		
<b>Source of the Data</b>	<b>Action</b>	<b>Expected Result</b>	<b>Actual Result</b>
Student/User	Press the submit button with missing @ in email field.	An error message will show that you enter wrong email address.	System Interface shows error message.

## USER REGISTRATION FORM

---

**REGISTRATION FORM**

---

Enter Full Name:

Mobile Number :

Enter Email:

error : You did not enter a valid email.

**Figure 68: Email Validation Checking.**

<b>Test Name:</b>	UT - B (Integration Testing)		
<b>Testing Aim:</b>	Checking the Category Control of Books.		
<b>Test Work:</b>	Make a category of book then access it from book manage functionality.		
<b>Source of the Data</b>	<b>Action</b>	<b>Expected Result</b>	<b>Actual Result</b>
System Admin	Enter a book category – Test Category.	Category create successfully and shown in book info page.	System Interface shows it successfully.

**ADD CATEGORY**

The image shows two stacked web forms. The top form is titled 'Category Info' and has fields for 'Category Name' (containing 'Test Category'), 'Status' (radio buttons for 'Active' and 'Inactive' with 'Active' selected), and a 'CREATE' button. The bottom form is titled 'Book Info' and has fields for 'Book Name' (containing 'Test Book'), 'Category' (a dropdown menu showing 'Select Category' and a list of categories including 'Romantic', 'Technology', 'Science', 'Java', with 'Test Category' highlighted in blue), and an 'ISBN' field with the placeholder 'An ISBN is an International Standard Book Number. ISBN Must be unique'. It also has a 'Price' field and an 'ADD' button.

**Figure 69: Category Create and Management.**

<b>Test Name:</b>	UT - B (Integration Testing)		
<b>Testing Aim:</b>	Checking the Issuing Book Functionality.		
<b>Test Work:</b>	Issue a book after retrieve data from database system.		
Source of the Data	Action	Expected Result	Actual Result
System Admin	Issuing a book selected by student ID.	If student ID is correct then it shows student name.	System Interface shows it successfully.

**Issue a New Book**

**Srtudent ID \***  
SID013

Student ID:  
SID009  
SID010  
SID012  
SID013

Selected Student's Name:  
**Manzida Mou**

**ISBN Number or Book Title \***  
12345

ISBN Number:  
222333  
1111  
12345

Classification of Java

**ISSUE BOOK**

#### MANAGE ISSUED BOOKS

Success : Book issued successfully

Issued Books						
10	records per page	Search: <input type="text"/>				
No.	Student Name	Book Name	ISBN	Issued Date	Return Date	Action
1	Manzida Mou	Classification of Java	12345	2020-10-14 00:22:02	Not Return Yet	<b>EDIT</b>

**Figure 70: Issuing Book Testing.**

### Appendix – 3 (Use Case Description)

**Use Case ID:** **LMS\_04**

<b>Use Case Name:</b>	View Library Information
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	User, students or visitors can view the library information for search or buy or lending books by using this site.
<b>Actor:</b>	Shop Owner, Admin, Users
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered into the system.

**Use Case ID:** **LMS\_05**

<b>Use Case Name:</b>	Manage Book Category
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	Admin can manage and update book category and book details in this system, so that customer can use these information for their need.
<b>Actor:</b>	Shop Owner, Admin
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered.

**Use Case ID:** LMS\_06

<b>Use Case Name:</b>	View Category
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	User can search or view the category of the different type of books for their operation.
<b>Actor:</b>	User
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered.

**Use Case ID:** LMS\_07

<b>Use Case Name:</b>	Confirm Issuing Book
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	Admin will update the system by confirming issuing the book of the library management system. Using student id and ISBN number of book admin can confirm it.
<b>Actor:</b>	Admin
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered.

**Use Case ID:** LMS\_08

<b>Use Case Name:</b>	Customer Request
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	As a customer a user can send request for issuing a book from library or can buy or sell their books by proper operation in this system.
<b>Actor:</b>	User, Customers
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered.

**Use Case ID:** LMS\_09

<b>Use Case Name:</b>	Return Book
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	Admin can manage return book process which are issuing for different students or customers and update book information and its stocks.
<b>Actor:</b>	User, Admin
<b>Pre Condition:</b>	Need to register into the system before showing details.
<b>Post Condition:</b>	System allows its features if user are registered.

**Use Case ID:** LMS\_10

<b>Use Case Name:</b>	Issuing Fine
<b>Created By:</b>	Manzida Rahman Mou
<b>Date Created:</b>	13/08/2020
<b>Description:</b>	If any damage will happen in book or it over to cross the time limit of borrowing, then admin will issue fine for return the book.
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