DESIGN AND DEVELOPMENT OF AN ONLINE LIBRARY

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This Report is Presented to the Department of CSE of Daffodil International University in Partial Fulfilment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering.

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APPROVAL

This Project titled "DESIGN AND DEVELOPMENT OF AN ONLINE LIBRARY", submitted by Md. Al-amin, ID: 162-15-7958 and Tithee Choudary, ID: 162-15-7718 and Raseda Akter, ID: 162-15-7998 to the Department of Computer Science and Engineering, Daffodil International University, has been accepted as satisfactory for the partial fulfilment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 03/05/2019.

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DECLARATION

We hereby declare that, this project has been done by us under the supervision of **Md. Tarek Habib**, **Assistant Professor**, **Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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ABSTRACT

This is the era of Communication and Internet. Now we don't need to go outside to fulfil our needs. Communication is made in many different ways and it also does means to spread knowledge. Books are a great media for knowledge seekers to acquire knowledge. But when it is come to buy it, we need to go outside and many people also prefer E-books which are not sold in the normal market places. This is the reason we came with this solution where people can go for their own solutions. This project is actually delivers the solution for people's choice. This is a kind of web and app system which will help the consumers to buy books. The aim of the project is mainly to help people to go beyond the boundary of physical book shop. Bangladesh is a technologically driven country. Now online transaction is not a difficult thing. This project is for buying books directly from the web or the app in any formal e.g. PDF or Hardcopy. There is also cash on delivery. To maintain the system after implementation, one administrator is enough who will maintain all the management functionalities. Though out the documentation of the project, reader's convenience was our highest priority. All the documentation has been written in a clean and transparent manner. Technical terms and nations has been elaborated properly.

TABLE OF CONTENTS

PAGE
i
ii
iii
iv

CHAPTER

CHAPTER 1: INTRODUCTION	01-03
1.1 Introduction	01
1.2 Motivation	01
1.3 Objectives	02
1.4 Expected Outcome	02
1.5 Report Layout	03
CHAPTER 2: BACKGROUND	04-06
CHAPTER 2: BACKGROUND 2.1 Introduction	04-06 04
2.1 Introduction	04
2.1 Introduction2.2 Related work	04 04

07-15
07
08
08
09
09
11
14
15
16-37
16
29
30
35
35
37
38-42
38
40
40
40
41
42
42

CHAPTER 6: CONCLUSION AND FUTURE SCOPE	43-43
6.1 Discussion and Conclusion	43
6.2 Scope for Further Developments	43
APPENDIX	44
REFERENCES	45
PLAGIARISM REPORT	46

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1 Business Process Model for buying Book	8
Figure 3.2 Use Case Model for Customer	10
Figure 3.3 Use Case Model for Admin	10
Figure 3.4 E-R Diagram for Customer	12
Figure 3.5 E-R Diagram for Admin	13
Figure 3.6 Data Flow Diagram	14
Figure 4.1 Book OCEN home page	16
Figure 4.2 Book OCEN category	17
Figure 4.3 Book OCEN current book page	18
Figure 4.4 Book OCEN popup menu of selected book	19
Figure 4.5 Book OCEN check out page	20
Figure 4.6 Book OCEN order confirmation	21
Figure 4.7 Book OCEN login page	22
Figure 4.8 Book OCEN customer profile page	23
Figure 4.9 Book OCEN download history page	24
Figure 4.10 Book OCEN personal details page	25
Figure 4.11 Book OCEN order history page	26
Figure 4.12 Book OCEN order confirmation page	27
Figure 4.13 Book OCEN order success page	28
Figure 4.14 Book OCEN blog page	28

Figure 4.15 Book OCEN admin dashboard	30
Figure 4.16 Book OCEN admin order page	31
Figure 4.17 Book OCEN orders page	31
Figure 4.18 Book OCEN invoice page	32
Figure 4.19 Book OCEN customer list page	32
Figure 4.20 Book OCEN category add page	33
Figure 4.21 Book OCEN product add page	34
Figure 5.1 Database of Book OCEN	39

CHAPTER 1

INTRODUCTION

1.1 Introduction

Technology has driven us so far that we no longer need to go outside to fulfil our needs. Most of the people has their own smartphone and laptop. People are attached to modern technologies. Books are a great source of knowledge. As different people are different, so many people sometimes prefer hard copy of books and many prefer soft copy. Sometimes people gets stuck where he or she can't carry books. Based on these situation and conflict of choice, we are making an online platform where people can get their desired books by staying wherever they are. We are introducing an interface based on web and android app where people can search for books, order books and buy books in whatever format they want. They also can read books online. In addition, they no longer need to go outside to buy books. Now books are every one's doorstep. We know that everyone's comfort zone is different. Our project gives flexibility to the knowledge seekers choice.

1.2 Motivation

In created nations individuals are utilizing web and app for a gigantic time. We know present day's in our nation Internet wind up prominent so we needed to make a site that make our kin to accomplish the proficiency in quicker selling of books. So we were propelled from this quicker online book store and attempt to make a total framework for book selling. This Enables knowledge seekers to buy book of their own choice of format. Our intention was to give the people the freedom of their own in terms of choice. And as the books are in three format e.g. online reading mode, softcopy, hardcopy; so the publishers also gets an extra platform to showcase their publications. They are not bind to one platform of publication. So giving all the knowledge seekers and publishers a diverse platform was our main motive.

1.3 Objective

- □ To make a online platform of buying and selling books.
- □ To lessen correspondence cost of searching outdoors.
- \Box To decrease time loss.
- \Box To make a freedom of choice for buyers.
- □ To construct a completely utilitarian framework with the end goal to accomplish a productivity in quicker buying and selling framework.
- □ To make the publications and digital marketing rapidly and effortlessly in total online based framework.

1.4 Expected Outcome

- Customer has his / her freedom of choice of choosing format of books.
- Customers get the privilege of reading books anywhere anytime.
- D Publishers can publish their books in a wide range through internet.
- D Publishers gets a platform of digital marketing.
- To give everyone the privilege of getting books at their fingertips.

1.5 Report Layout

We have sorted out our report as pursues.

In chapter 2, we present the foundation conditions of our undertaking. We likewise informed about the related work, the degree and difficulties of the task and we are doing similar investigation with numerous other competitor frameworks. In chapter 3, we determined the prerequisite venture. We characterized the business procedure show, information stream chart, utilize case graph, ER outline and plan necessities. We likewise examined about the necessity gathering and investigation process. In chapter 4, we indicated the front-end and back-end structure of the undertaking. In chapter 5, we showed the usage of the entire task and we tried each segment of the venture whether the application is filling in of course. In chapter 6, we assigned about end and the extension for further improvement of the task. Finally, of all, we give some related reference to guarantee that the data in the report are must be right.

Chapter 2

BACKGROUND

2.1 Introduction

There are different types of online shops but they only sell hard copies and nowadays maximum people prefers pdf format. But the matter of fact that all the pdf's are not available in a single website. So people needs to surf all over the internet. So to remove this problem we have come with this solution which is our project. Here if people needs hardcopy of their desired book then they can get it here and if they prefer softcopy then they also gets the privilege. Typically if people can easily read and get their desired books that's why we have come with this project. Here people also gets the privilege of reading books online.

Our project contains following features:

- \Box Customer can visit store and search
- □ Customer can see book details
- \Box Customer can compare books
- □ Customer can buy books online and pay
- □ Customer can choose between softcopy and hardcopy
- □ Customer can register and login
- Devision Publisher can sell books online
- Devision Publishers can also use this platform for marketing

2.2 Related Work

There are some related work that we found here we defined some of them. As our project is online based, there are some similar projects created before. But they are not fully same. There are significant differences and here we want to highlight them.

Among all of the similar projects that are out there, the much known one is Rokomari [1]. This is the most popular one in Bangladesh and it has some great features e.g. people can search, buy, review, categorise books. There is also a blog in their website and additionally App is also available. But they haven't come with softcopies till now. Though they are planning to.

There are also other sites which delivers almost same functionalities or services e.g. Bookstores [2], Boibazar [3]. All of these have almost same type of functionalities including blogs but lacking of softcopy. They don't sell softcopies till now but it is a much needed thing now.

Our project offers this unique features and additionally we are collaborating with the publishers. This is a great advantage of our project where we have given a great priority to the publisher to expand their business through digital marketing.

So the features we uniquely offers here

- □ Selling Softcopies
- □ Collaborating with the publishers
- □ Online reading platform

2.3 Comparative Study

We already know that there are many sites and app that sells books online. They also have blogs to read, search options and many other features that we have already gone through. These features are common and we all know that people always search for uniqueness. That is why we came with this project with some most needed services that is needed for this technological advanced era. Most of the well-known sites are preparing for next step like softcopy selling and we already have done this. We are also giving priority to the publishers. A new platform has given to them to expand their business. So comparatively these unique features are our great strength of coming forward and make some difference.

2.4 Scope of the Problem

We always try to develop anything without any problems but that is not possible. Problems are problems but it is also a blessing too. Because when we go through problems, we try to solve that and in that procedure, we learn many new things. During this project, we have also faced many problems. But with our dedication and hard work, we have solved those problems. As there are many projects that are similar to ours, those references helped us a lot. As we all know that starting a project from the scratch is a very difficult thing to do. So choosing the interface and implementing that in real was also a challenge. As customers are related to our project, so making it very friendly and easy to understand was our first priority. Then for the initial part, collecting all the softcopies and implementing the backend was also a difficult task. Additionally what to include and what not, by which function the customers will be more comfortable, deciding these things was also a problem.

2.5 Challenges

When you need to accomplish something then unquestionably you need to confront a few difficulties and deterrents. Consequently, our task has a few difficulties as well. We have confronted a few issues while doing the development as we are new in this arena. We endeavoured to actualize it with no mistake still we require all the more testing to guarantee it. We are students, so our primary challenge is to keep up time other than our other fundamental works at our regular routine. On the off chance that we were not able finish the project on time it would be an extraordinary lament for us. So, we needed to partition our time to finish every one of the errands to finish the entire project. To permit search at different places and to give the correct data in the meantime through the reaction framework as online is extremely intense and particularly perplexing. We needed to complete a considerable measure of arranging and needed to look over those and do appropriate coding, empower seek and to check results on our application. We endeavoured to make a point to give the best understanding to our clients. And additionally making web application along with android app was also a big challenge.

Chapter 3

REQUIREMENT SPECIFICATION

3.1 Business Process Model

Business process displaying (BPM) in business process administration and frameworks designing is the movement of speaking to procedures of an undertaking, with the goal that the current procedure might be dissected, enhanced, and mechanized. BPM is normally performed by business investigators, who give ability in the demonstrating discipline; by topic specialists, who have specific information of the procedures being displayed; or all the more regularly by a group involving both. Then again, the procedure model can be gotten straightforwardly from occasions' logs utilizing process mining instruments.

The business objective is frequently to expand process speed or lessen process duration; to build quality; or to diminish costs, for example, work, materials, scrap, or capital expenses. By and by, an administration choice to put resources into business process displaying is frequently spurred by the need to report prerequisites for a data innovation venture.

Change administration programs are regularly required to incorporate any enhanced business forms. With advances in programming plan, the vision of BPM models winding up completely executable (and fit for recreations and round-trip designing) is coming nearer to the real world [4].

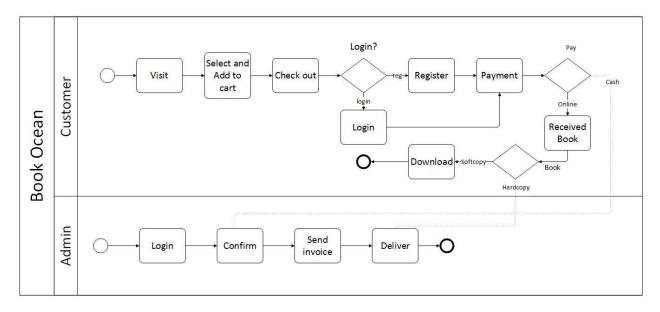


Figure 3.1: Business Process Model for Buying Book

3.2 Requirement Collection and Analysis

Our framework is gathered tremendous measure of information when any client enrolls in our framework. We examination information and consider the information that we gather from client. Administrator can get to the information and watch out for the client that on the off chance that they do any hostile work they can without much of a stretch discover. There are two types of requirement, one is functional requirement and the other is nonfunctional requirement.

3.2.1 Functional Requirement

Functional requirement are the activities that's the application software or website can easily perform.

In our project there are so many functional requirements like, register section, a log in section, a review section, a search book section, a add to cart section, a check out section, log out section, payment section, blog section.

3.2.2 Non-functional Requirement

Non-functional prerequisites in our application are help to advance execution, memory devouring, being more proficient, smoother activity and load on rapidly as conceivable to our application. Application's and web sites UI ought to be easy to understand and stunning for phenomenal client encounter.

3.3 Use Case Modeling and Description

A use case is a methodology used in system analysis to identify, clarify, and organize system requirements. The use case is made up of a set of possible sequences of interactions between systems and users in a particular environment and related to a particular goal. It consists of a group of elements (for example, classes and interfaces) that can be used together in a way that will have an effect larger than the sum of the separate elements combined. The use case should contain all system activities that have significance to the users. A use case can be thought of as a collection of possible scenarios related to a particular goal, indeed, the use case and goal are sometimes considered to be synonymous [5].

A use case has these characteristics:

- 1. Use to compose utilitarian requirements.
- 2. Modelling the objectives of the on-screen character associations.
- 3. Record way from trigger occasion to objectives.

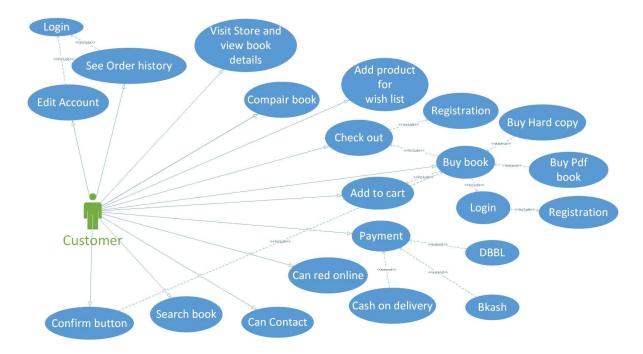


Figure 3.2: Use Case Model for Customer.

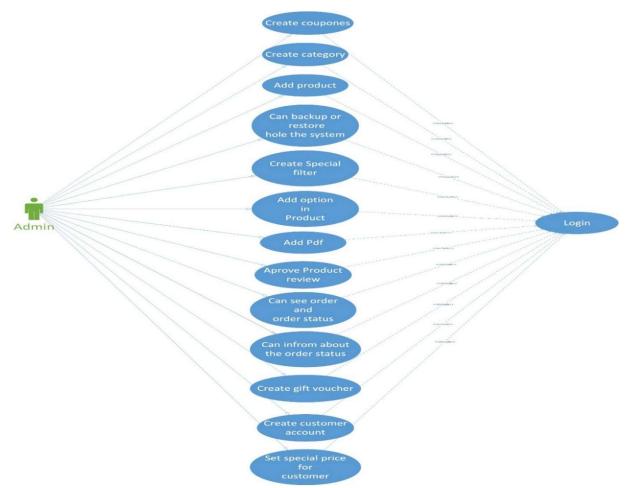


Figure 3.3: Use Case Model for Admin.

3.4 Entity Relationship Diagram

The entity Relation (E-R) data model is based on a perception of a real world that consists of a collection of basic objects, called Entity, and of relationship among these objects. An entity is a thing or object in the real world that is distinguishable from other objects. In addition to Entities Relationship, the E-R model represents certain constraints to which the contents of a database must conform. One important constraint is mapping cardinalities, which express the number of entities to which another entity can be associated via relationship [6].

The overall logical structure of a database can be expressed graphically by an E-R diagram which built up from the following:

- 1. Rectangle, represents entity sets.
- 2. Double Rectangle, represents the weak entity.
- 3. Ellipses, which represents attributes.
- 4. Diamonds, which represents relationship.
- 5. Lines, which link attributes to entity sets to relationship.
- 6. Double ellipses, represents multi valued attributes.
- 7. Dashed ellipses, which represents derived attributes.
- 8. Double lines, which indicate total participation of an entity in a relationship.

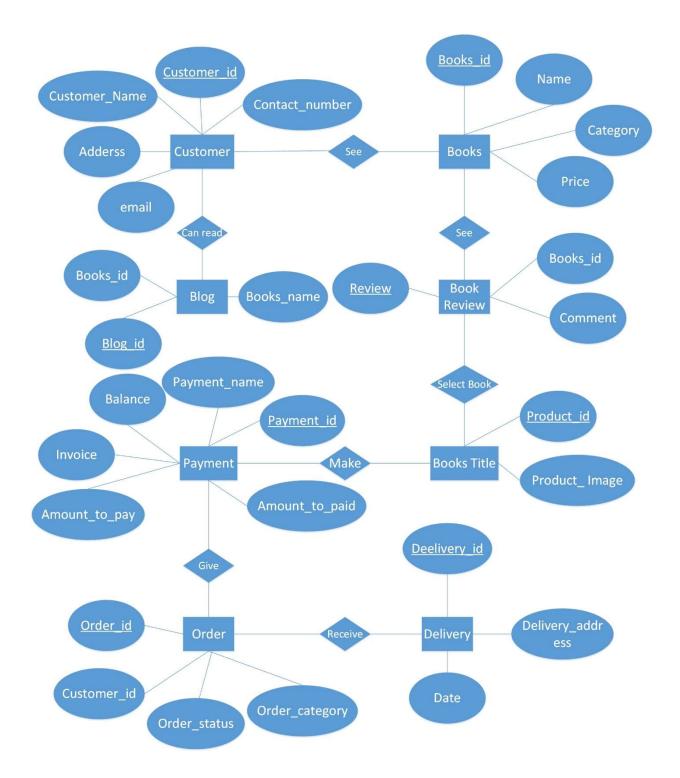


Figure 3.4: E-R Diagram for Customer.

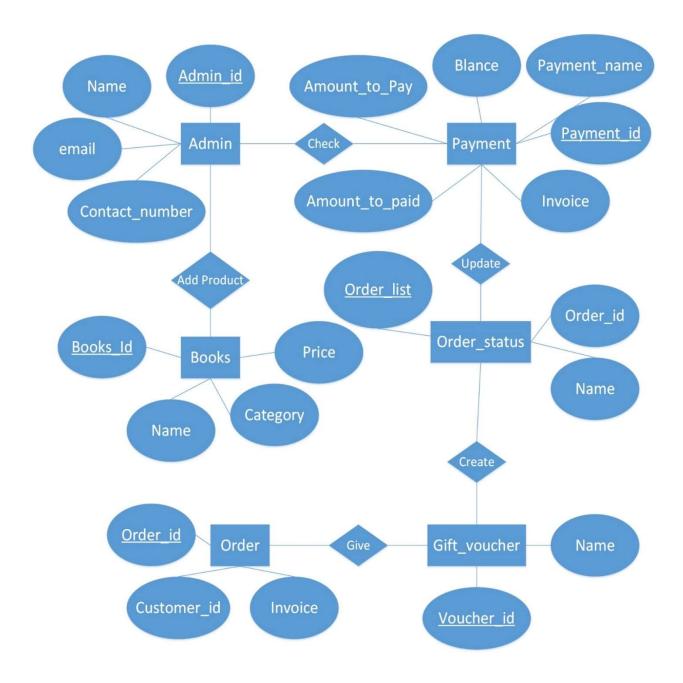


Figure 3.5: E-R Diagram for Admin.

3.5 Data Flow Diagram

Data flow diagram is also called data flow graphs. This is commonly used during problem analysis. Data flow diagram is quite general and is not limited to problem analysis for software requirement specification. A DFD shows the flow of data through the system. It shows a system as a function that transforms the inputs to the desired output. The aim of DFD is to capture the transformation that takes place within the system to the input data so that eventually the output data is produced. The agent that performs the transaction of data from one stage to another is called a process. So, a DFD shows the movement of data through the different transformation in the system. Named circles show the processes and named arrows entering or leaving the bubble represents data flows. A rectangle represents a source or a sink is typically outside the main system of study [7].

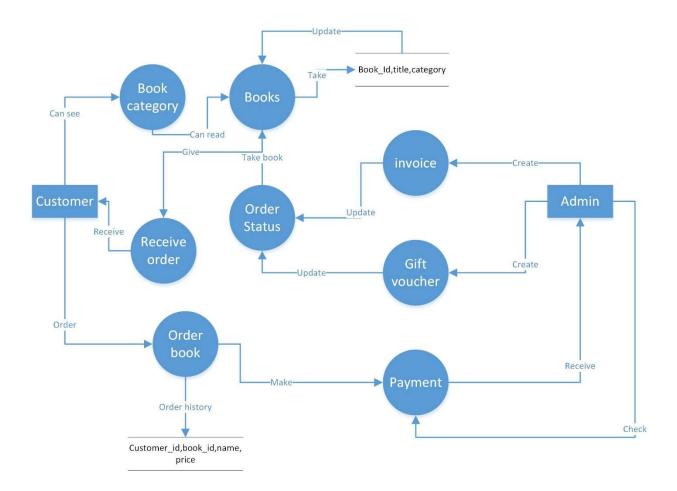


Figure 3.6: Data Flow Diagram

3.6 Design Requirements

Dashboard has been utilized to actualize the website pages of the proposed framework. HTML, CSS, JavaScript, JQuery likewise have been utilized to assemble the site page. Here we present four distinct dashboards for our framework admin and customer consciously. Each dashboard has diverse highlights which are structured premise of Bootstrap with HTML, CSS, JavaScript, and JQuery.

Chapter 4

DESIGN SPECIFICATION

4.1 Front-end design

Front end design is a very crucial part of any user interacting software and website. Because a user can be anyone, someone may like very simple designs, someone my like very design oriented things. But the fact is we can't satisfy all. So we have to come with something that is convenient to all. And we also have to make sure that it is understandable to all.

So that's why we have tried to keep the design of our website and app very basic. We have attached our websites front end design as follows:

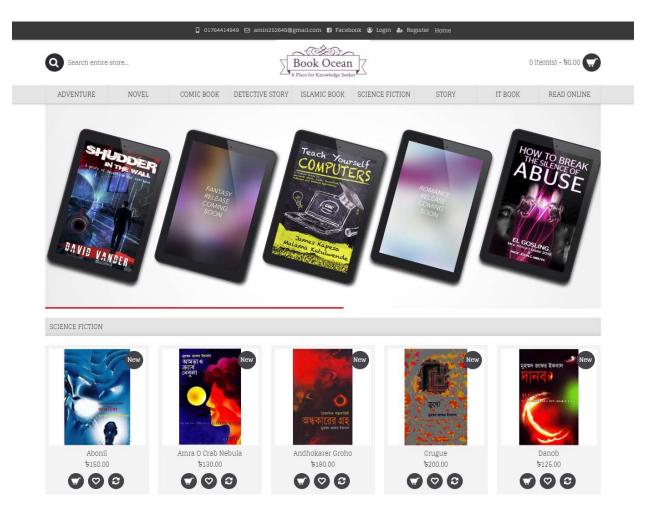


Figure 4.1: Book Ocean home page.

Figure 4.1 Shows home page of our site. Here customers can see the overall site, books, and prices, search for books and also categorize books.

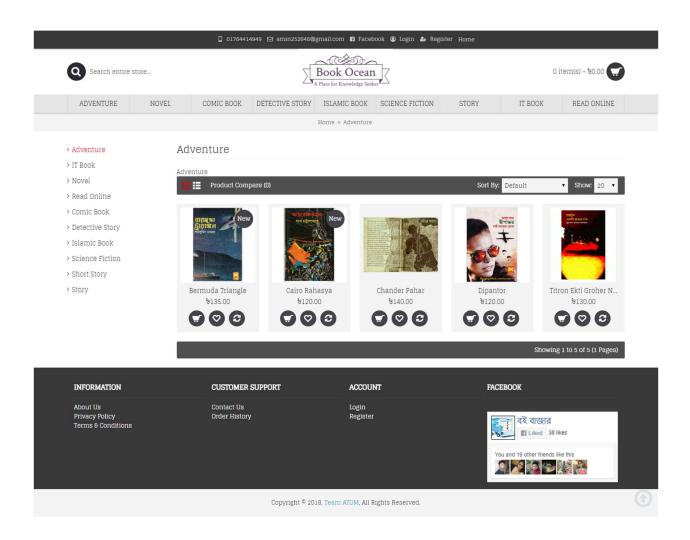


Figure 4.2: Book Ocean category.

Figure 4.2 This page shows books by its category. User can see books according to the category. There are different types of category there. Without searching for the whole page, user gets his/her privilege to choose accordingly to their choice.



Figure 4.3: Book Ocean current book page.

Figure 4.3 Shows current book page which is chosen by the user. Here user gets a little glimpse of the book that he/she wants to buy. This page helps the consumer to take a decision whether to buy it or not as it shows the starting of the book.

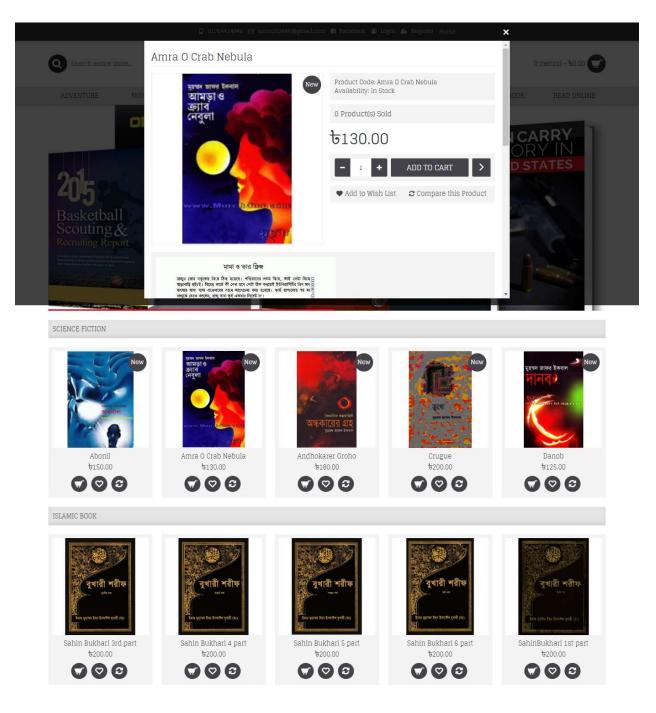


Figure 4.4: Book Ocean popup menu of selected book.

Figure 4.4 Shows a popup menu of the book that is selected by the user. Here user can add his/her selected book to the cart. He/she can also see some pages to take the decision of whether to buy it or not.

		🗋 01764414949 🖸 amin25264	6@gmail.com 🖪 Facebook 🔕	Login 🌲 Register Hom	e	
Q Search ent	ire store	Σ	Book Ocean	1 item(s) - 1 130.00		
ADVENTURE	NOVEL	COMIC BOOK DETECTIVE STOR	Y ISLAMIC BOOK SCIEN	ICE FICTION STO	RY IT BOOK	READ ONLINE
			Home » Shopping Cart			
Use Gift Ce	rtificate (0.00k	g)				
Image	Product Name	١	lodel	Quantity	Unit Price	Total
	Amra O Crab Nebula	Amra O	Crab Nebula	1 2 0	t130.00	b130.00
What would you	ike to do next?					
Choose if you ha	ve a discount code or re	ward points you want to use or would	like to estimate your delivery	cost.		
Use Coupon Co	de -					
Use Gift Certific	ate 🕶					
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Continue Sh	opping					Checkout
INFORMATION		CUSTOMER SUPPORT	ACCOUNT		FACEBOOK	
About Us Privacy Policy Terms & Conditi	ons	Contact Us Order History	Login Register		বই বাজার ১৯৮০ জি Liked 38 like	
					You and 19 other friends like	this
		Convright ©	2018, Team ATOM, All Rights R	heurese		

Figure 4.5: Book Ocean check out page.

Figure 4.5 Shows the checkout page of our site. Here user can checkout with the selected book or if he/she chooses to continue shopping then he/she also can do that.

Search entire s	tore,		Z	Book Ocean			1 item	(s) - ৳130.00
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK SCIEN	CE FICTION	STORY	IT BOOK	READ ONLINE
			Home	» Shopping Cart » Checkout				
			Qu	ick Checkout				
Create an Accoun	11 A		Payment N					
 Register Account Returning Custo 			Bank Tra	nsfer				
 Returning custo. 			Do you Ha	ve a Coupon or Voucher?				
Your Personal Det	ails		Enter coup	on code Appl	y Coupon	Enter voucher cod	e A	pply Voucher
* First Name	First Name							
* Last Name	Last Name		Shopping	Cart				
* E-Mail	E-Mail			Product Name		Quantity	Unit Price	Total
* Telephone	bookocean			Amra O Crab Nebula		1 2 0	to130.00	৳130.00
Your Password				AIIITA O CIAD NEDUIA			6130.00	6130.00
* Password							Sub-Total: Total:	৳130.00 ৳130.00
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* Address 1	Address 1		DBBL 01764414949		owing built u	Joodina		
Address 2	Address 2			ill not ship until we receive pa	iyment.			
* City	City			sente About Very Orden				
Post Code	Post Code		Add Comn	ients About Your Order				
* Country	Bangladesh		•					
* Region / State	Dhaka	•						
			🗐 I have re	subscribe to the Book Ocean i ad and agree to the Privacy P ad and agree to the Terms & (olicy			

Figure 4.6: Book Ocean order confirmation.

Figure 4.6 Shows that if any customer wants to check out then he/she must login. If not registered then he/she must register first.

🗋 01764414949 🖂 amin252646@gmail.com 🖪 Facebook @ Login 🕹 Register Home										
Q Search entire	store			Book C		1 ite	m(s) - b 130.00			
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE S	STORY ISLAMIC	BOOK	SCIENCE FICTION	STORY	IT BOOK	READ ONLINE	
				Home » Accou	int » Log	in				
New Customer				Returning Custo	omer			> Login		
Register				I am a returnir	ng custo	omer		> Register		
By creating an accour an order's status, and	nt you will be able to a t keep track of the ord	shop faster, be up to lers you have previo	o date on ously	E-Mail Address				> Forgotten	Password	
made.			,	amin252646@g	mail.con	1		> My Accou	nt	
				Password				> Address E	ook	
								> Wish List	> Wish List	
				Forgotten Passwo	ord	> Order His	> Order History			
								> Download	S	
Continue				Login				> Recurring	payments	
								> Reward P	pints	
								> Returns		
								> Transacti	ons	
								> Newslette	r	
INFORMATION		CUSTOMER S	SUPPORT	1	ACCOUN	п	FAC	EBOOK		
About Us Privacy Policy Terms & Conditions	3	Contact Us Order History			Login Register			বই বাজার বেই বাজার	xes	
							Y	ou and 19 other friends li		
							4	4 9 16 1 71		
			Copyrig	ht © 2018, Team AT(OM, All R	ghts Reserved.				

Figure 4.7: Book Ocean login page.

Figure 4.7 Shows login page of customer. But registration is must if any customer wants to login. So this page is a login page of a customer.

Search entire sto	re	U1764414945		Book Ocean	ok () Md.Al-Amin () L	ogout Home	1 ite	m(s) - b 130.00	
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK	SCIENCE FICTION	STORY	IT BOOK	READ ONLINE	
				Home » Account					
y Account							> My Accou	int	
Edit Account							> Edit Acco	unt	
Password							> Password	1	
Address Book							> Address I		
Wish List (%s)							> Wish List		
y Orders									
Order History							> Order His		
Downloads							> Downloads		
Reward Points							> Recurring payments		
Returns							> Reward Points		
Transactions							> Returns		
Payment Profile							> Transacti	ons	
y Affiliate Account							> Newslette	ər	
egister for an affiliate a	count						> Logout		
ewsletter									
ewsletter									
INFORMATION		CUSTOMER S	UPPORT	ACCOU	NT	FAC	EBOOK		
About Us Privacy Policy Terms & Conditions		Contact Us Order History		Md.Al-A Logout	min		বই বাজার 🖬 Liked 38 li	kes	
							ou and 19 other friends li	ke this	
			Convright © 20	18, Team ATOM, All 1	Rights Reserved			G	

Figure 4.8: Book Ocean customer profile page.

Figure 4.8 Shows the profile page of a customer. Here a customer gets different functionalities regarding his/her profile e.g. edit account, change password, order history, downloads, transactions etc.

Search entire	e store	□ 01764414949 🖾 amin2526	1 ite	1 item(s) - 6 130.00			
ADVENTURE	NOVEL	COMIC BOOK DETECTIVE ST	TORY ISLAMIC BOOK	SCIENCE FICTION	STORY	IT BOOK	READ ONLINE
			Home » Account » Down	loads			
count						> My Accou	int
der ID	Name	Size	Date Adde	d		> Edit Acco	unt
	Dipantor	4.81ME	09/03/2019)	6	> Password	
	Chander Pahar	2.81ME	09/03/2019)	6	> Address I	Book
	Dipantor	4.81ME	02/03/2019)	4	> Wish List	
owing 1 to 3 of 3 (1	Pages)					> Order His	
						> Download	
							g payments
						> Reward P	
						> Returns	
						> Transacti	ons
						> Newslette	
						> Logout	*
						> Logout	
						_	
					Continue	9	
INFORMATION		CUSTOMER SUPPORT	ACCOUL	T	FAC	EBOOK	
About Us		Contact Us	Md.Al-Ai	nin			
Privacy Policy Ferms & Condition	S	Order History	Logout		N	বই বাজার 🖪 Liked 38 li	kes
					Yo	ou and 19 other friends li	ke this

Figure 4.9: Book Ocean download history page.

Figure 4.9 Shows the history page of books that a customer has already downloaded. This page is just another flexibility to our customers where he/she can keep track on their profile.

🚺 01764414949 🖂 amin252646@gmail.com 😭 Facebook 💿 Md.Al-Amin 💩 Logout Home											
Q Search entire store	Search entire store										
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK	SCIENCE FICTION	STORY	IT BOOK	READ ONLINE			
			Home »	Account » Edit Infor	mation						
Account							> My Accou				
Your Personal Details	> Edit Accor										
* First Name	М	d.Al-Amin					> Password				
							> Wish List	oon			
*Last Name		ojumder					> Order His	lory			
*E-Mail	ar	nin252646@gmail.co	> Download	> Downloads							
* Telephone	01	764414949					> Recurring	> Recurring payments			
							> Reward Po	pints			
Back						Continue	> Returns				
							> Transacti	ons			
							> Newslette	r			
							> Logout				
INFORMATION		CUSTOMER	SUPPORT	ACCOUN	п	FACE	BOOK				
About Us Privacy Policy Terms & Conditions		Contact Us Order History	y	Md Al-An Logout	nin	Yo	ৰই বাজার I Liked 38 li u and 19 other friends li				
			Copyright © 20	18, Team ATOM, All R	ights Reserved.						

Figure 4.10: Book Ocean personal details page.

Figure 4.10 Shows the customer profile's personal details page where he/she can see his/her personal details. Customer also can edit his/her information here.

🗋 01764414949 🖂 amin252646@gmail.com 😭 Facebook 🕲 Md.Al-Amin 🎄 Logout Home										
Search entire store			Book Ocean					1 item(s) - b 130.00		
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK	SCIENCE FICTION		STORY	IT BOOK	READ ONLINE	
Home » Account » Order History										
Account							> My Account			
Order ID Customer			No. of Products Status Total			Date Addeo	1		> Edit Account > Password	
#4	Md.Al-Amin Mojumder		2	Complete	0	09/03/2019	•			
#1	Md.Al-Amin Moju	ımder	1	Complete	122	02/03/2019		> Wish List		
								> Order History		
Showing 1 to 2 of 2 (1 Pages)									> Downloads	
Continue									> Recurring payments	
								> Reward Points		
								> Returns > Transactions		
							> Newsletter			
						> Logout				
								DoBoard		
INFORMATION CU		CUSTOME	R SUPPORT	ACCOUNT			FACEBOOK			
About Us Privacy Policy Terms & Conditions			Contact Us Order History		Md.Al-Amin Logout		বই বাজ্যের ে Liked 38 likes You and 19 other friends like this			
Copyright © 2018, Team ATOM, All Rights Reserved.										

Figure 4.11: Book Ocean order history page.

Figure 4.11 Shows the details of what has already been purchased by a customer. Here he/she can keep track of his/her orders.

Q Search entire store	017644149	49 ⊠ amin252646@gn	Aail.com 🖬 Faceboo Book Ocean Place for Knowledge Seek	×	🎎 Logout Home	1 item	1(s) - ৳130.00
ADVENTURE NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK	SCIENCE FICTIO	N STORY	IT BOOK	READ ONLINE
		Home	» Shopping Cart » Ch	ieckout			
		Qui	ck Check	tout			
Billing Address		Do you Have a	Coupon or Vouch	er?			
 I want to use an existing address 		Enter coupon (code	Apply Coupon	Enter voucher code	e /	opply Voucher
Md.Al-Amin Mojumder, shokrabad, Dh	iaka, Dhaka, 🔹						
I want to use a new address		Shopping Car	5				
Payment Method			Product Name		Quantity	Unit Price	Total
Bank Transfer			Amra O Crab Nebu	la	1 2 0	€130.00	৳130.00
						Sub-Total:	t130.00
						Total:	t130.00
		Payment Deta	ils				
		Bank Transfer I	nstructions				
		Please transfer t	he total amount to	the following bank a	account.		
		017644149490	ot ship until we rec	eive payment			
		Town order, min is		ono paymono			
		Add Commen	ts About Your Orde	r			
		I have read	and agree to the Te	rms & Conditions			
		Confirm Orde	r				

Figure 4.12: Book Ocean order confirmation page.

Figure 4.12 Shows the final order confirmation page. This page shows up after going through all the procedures e.g. registration or login. But if the customer has already been logged in then he/she directly is redirected to this page of order confirmation. This is the final page for purchasing a book.

IT BOOK	READ ONLINE

Figure 4.13: Book Ocean order success page.

Figure 4.13 Shows the order success page where he/she can see all the aspects of order and additionally can return to the home page.

Q Search entire s	tore		$\sum_{i=1}^{n}$	Book Ocean	Σ		0 i	tem(s) - 6 0.00
ADVENTURE	NOVEL	COMIC BOOK	DETECTIVE STORY	ISLAMIC BOOK	SCIENCE FICTION	STORY	IT BOOK	READ ONLINE
				Home » Journal Blog				
Journal Blog								
Introduction to C bookocean 14/0 void of the structured mid-lev programming lang for developing soft follows structured programming in withe instructions ar	13/2019 Vage Ware. C hich							

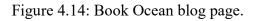


Figure 4.14 Shows a blog to directly read books from our site. But these books which are available are not given for sell. User only can read these books.

4.2 Back-end Design

Our project back-end has planned by PHP & HTML components; PHP is a server-side scripting dialect structured essentially for web advancement yet in addition utilized as a broadly useful programming dialect. HTML components are used to design & create a user friendly UI. We have use .tpl file extension to make a bridge between HTML components & PHP. MySQL database has utilized. Right around 45 pages of our venture have substance of back end implies push PHP. In our task 146 tables made to oversee information. There are some centre tables, a few tables are brief premise and client information contains by a few tables. PHP have a solid holding with SQL inquiry dialect parsing, every sensible guidance made by PHP. Client session creation and obliterate are overseen by PHP libraries. Information exchange between pages are utilized \$_POST technique a large portion of time. We are intrigued to specify some imperative assignment done by PHP point to point.

- □ PHP makes session for clients and in addition approve client.
- D PHP have authority over all information exchanging User end to Saver end.
- □ All Logical statement created utilizing PHP code
- □ Loops, If-else and control articulation done by PHP
- □ Main calculation wrote in PHP
- Data exchange between pages utilizes **\$_POST** strategy for PHP

4.3 Admin Dashboard

An admin can see all reports, all record, all order, all transaction that is are affirmed or dropped all customer list, all user list, Admin can add different payment system, can create delete, update customer information, user information, Admin can control entire framework.

Here given the administrator dashboard subtle elements.

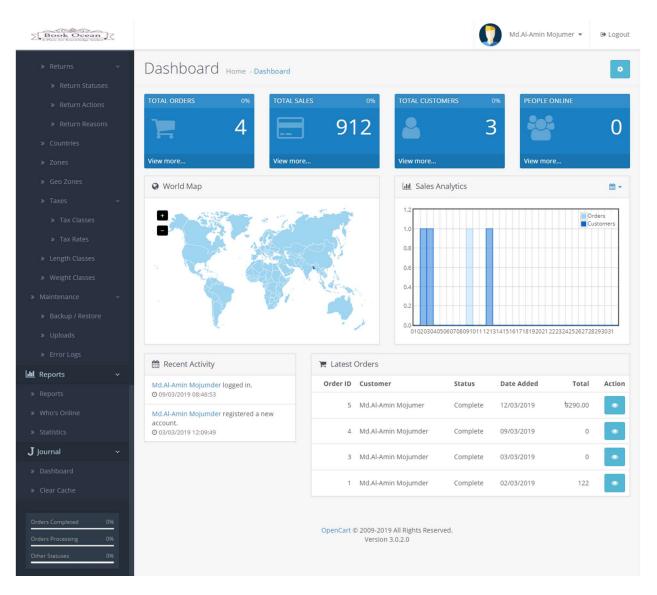


Figure 4.15: Book Ocean admin dashboard

NAVIGATION		Ord	ers H	lome > Orders						
B Dashboard		010	010 1	ionie - orders						
Catalog	*	I 0	rder List							▼ Filter
 Extensions Design 	> >		Order ID ~	Customer	Status	Total	Date Added	Date Modified	Action	Order ID
Sales	2		5	Md.Al-Amin Mojumer	Complete	৳290.00	12/03/2019	12/03/2019	• •	Order ID
Customers	>		4	Md.Al-Amin Mojumder	Complete	0	09/03/2019	09/03/2019	•	Customer
Marketing System	> >		3	Md.Al-Amin Mojumder	Complete	0	03/03/2019	03/03/2019	• •	Order Status
Reports	>		1	Md.Al-Amin Mojumder	Complete	122	02/03/2019	02/03/2019		
Journal	~							Showing 1	to 4 of 4 (1 Pages)	Total
										Total

Figure 4.16: Book Ocean admin order page.

Book Ocean				Md.Al-Amin Mojumer	 Ge Logout
	Orders Home > Order	75		e l	
🚯 Dashboard					
🏷 Catalog >	🏋 Order Details	🛔 Customer Details		Options	
♣ Extensions >	Book Ocean	Md.Al-Amin Mojur	mer	Invoice	
🖵 Design 🛛 🔹 👌	12/03/2019	👻 Default	Default		0 🖸
🍹 Sales 🛛 🔶	Bank Transfer	aol.mdalamin@gr	mail.com	Affiliate	to.oo 💽
🔒 Customers >		01764414949			
< Marketing >	1 Order (#5)				
System >	The second second second				
₩ Reports >	Payment Address				
J Journal ∽	Md.Al-Amin Mojumder shokrabad Dhaka 1217				
» Dashboard	Dhaka Bangladesh				
» Clear Cache	Sangladesh				
	Product	Model	Quantity	Unit Price	Total
Orders Completed 0%	Rongin Choshma	Rongin Choshma	1	t120.00	t120.00
Orders Processing 0%	Aaj Himur Biye	Aaj Himur Biye	1	৳170.00	৳170.00
Other Statuses 0%				Sub-Total	t290.00
				Total	t290.00

Figure 4.17: Book Ocean orders page.

Invoice #5

Order Details								
Book Ocean 18/D, Tallabag,Dhaka. Telephone 01764414949 E-Mail amin252646@gmal.com Web Site: http://localhost/booł		Date Added 12/03/2019 Order ID: 5 Payment Method Bank Transfer	Order ID: 5					
Payment Address		Shipping Address						
Md.Al-Amin Mojumder shokrabad Dhaka 1217 Dhaka Bangladesh								
Product	Model	Quantity	Unit Price	Tota				
Rongin Choshma	Rongin Choshma	1	৳120.00	t120.00				
	Aaj Himur Biye	1	৳170.00	t170.00				
Aaj Himur Biye				0170.00				
Aaj Himur Biye			Sub-Total	t290.00				

Figure 4.18: Book Ocean invoice page.

Book Ocean	Σ								0	Md.Al-Amin Mojumer 👻	🕞 Logout
■ NAVIGATION	C	lus	tomer	S Home > Customers							+ 🗎
🚳 Dashboard											
🏷 Catalog	>	C	ustomer Lis	st						▼ Filters	
Extensions	> >		Customer	E-Mail	Customer Group	Status	IP	Date	Action	Customer Name	
Design	»		Md.Al- Amin	amin252646@gmail.com	Default	Enabled	::1	02/03/2019	1 -	Customer Name	
CustomersCustomers	•		Mojumder Md.Al- Amin	alaminmojumder7958@gmai.com	Default	Enabled	::1	03/03/2019		E-Mail	
			Mojumder Md.Al- Amin Mojumer	aol.mdalamin@gmail.com	Default	Enabled	::1	12/03/2019	1 .	Customer Group	×
								Showing 1 to 3	of 3 (1 Pages)	Status	
darketing	2										
System	>										
🔟 Reports	>									IP.	
${f J}$ Journal	~										
										Date Added	
										Date Added	Ê

Figure 4.19: Book Ocean customer list page.

Book Ocean		Md.A	Al-Amin Mojumer 👻 🕞 Logout
≡ NAVIGATION	Categories Home - Categories		+ 3 🔒
🖚 Dashboard			
📎 Catalog >	I Category List		
» Categories	Category Name ^	Sort Order	Action
» Products	Adventure	0	
» Recurring Profiles			
» Filters	Comic Book	1	<u> </u>
» Attributes >	Detective Story	2	
 » Options » Manufacturers 	Islamic Book	3	/
 » Manufacturers » Downloads 	IT Book	0	
» Reviews		0	
» Information	Novel	0	×
🔥 Extensions >	Read Online	0	×
🖵 Design 💦 🔸	Science Fiction	5	2
🏲 Sales >	Short Story	6	2
🐣 Customers >	Story	7	
Karketing >		,	
🔅 System >			Showing 1 to 10 of 10 (1 Pages)
Reports >			
J Journal ~		2019 All Rights Reserved.	
» Dashboard	Vers	ion 3.0.2.0	
» Clear Cache			

Figure 4.20: Book Ocean category add page.

Dashboard Catalog	Pro	ducts Home							
		JUCIS Home	> Products						+ 43
📎 Catalog 🔋 >									
	I≣ P	roduct List							▼ Filter
		Image	Product Name ^	Model	Price	Quantity	Status	Action	Product Name
		Aaj Dupure	Aaj Dupure	Aaj Dupure	t150.00	-	Fashlad		Product Name
		Tomar Nimantron	Tomar Nimantron	Tomar Nimantron	0150.00	10000	Enabled		Model
			Aaj Himur Biye	Aaj Himur Biye	t170.00	9999	Enabled	1	Model
	П	-	Abonil	Abonil	৳150.00	10000	Enabled	1	Price
			Achinpur	Achinpur	t200.00	1000	Enabled		
			Achimpor	Admpor	0200.00	1000	Endored		Quantity
		•	Amra O Crab Nebula	Amra O Crab Nebula	t130.00	10000	Enabled	1	Quantity
Extensions >	-		Andhokarer	Andhokarer					Status
⊋ Design →			Groho	Groho	t180.00	10000	Enabled		
🛱 Sales >		100 M	Bermuda Triangle	Bermuda Triangle	৳135.00	1000	Enabled		▼ Filter
Customers >	-							=	
< Marketing >			Cairo Rahasya	Cairo Rahasya	৳120.00	1000	Enabled	1	
System >			Chander Pahar	Chander Pahar	t140.00	999	Enabled		
dd Reports >									
J Journal ~			Crugue	Crugue	t200.00	1000	Enabled		
			Danob	Danob	t125.00	1000	Enabled		
Orders Completed 0%			Dipantor	Dipantor	២ 120.00	996	Enabled		
Orders Processing 0% Other Statuses 0%			Rongin Choshma	Rongin Choshma	৳120.00	999	Enabled		
			Rup Rupali	Rup Rupali	৳140.00	10000	Enabled		
		2	Sahin Bukhari 3rd part	Sahin Bukhari 3rd part	७ 200.00	1000	Enabled		
			Sahin Bukhari 4 part	Sahin Bukhari 4 part	t=200.00	1000	Enabled		
		F erture	Sahin Bukhari 5 part	Sahin Bukhari 5 part	b 200.00	1000	Enabled		
			Sahin Bukhari 6 part	Sahin Bukhari 6 part	t=200.00	1000	Enabled		
			SahinBukhari 1st	SahinBukhari 1st part	t=200.00	1000	Enabled		
			Seal Debota Rohossyo	Seal Debota Rohossyo	७ ७०.००	1000	Enabled		

Figure 4.21: Book Ocean product add page.

4.4 Interaction Design and UX

Collaboration structure fundamental for any venture what is uncommonly an ideal standard between a framework and client. This is consolidated structure what will assist client with interacting with framework effortlessly. It encourages client to spare their time. There have a few measurements of portrayal of a framework or programming to clients what will improve client encounter. For example, Button Labels, Images, Typography, Icons that guide in client collaboration.

4.5 Implementation of Requirements

We require two sorts of necessities. The necessities are:

- \Box Hardware necessity.
- \Box Software necessity.

Hardware Requirement:

One database server must be accessible to actualize the framework with following arrangement.

- \Box PC
- □ 1 server class mark PC facilitating MySQL
- Database Server

Software Requirement:

1.1 System Requirements

Software

- \Box Software: PHP 5.2.4+ (5.4+ recommended)
- □ MySQL: 5.0.4+
- \Box Nonpaid ++

Web Sever

- \Box Apache: 2.x+
- □ Microsoft: IIS 7
- \Box Nginx: 1.0 (1.1 recommended)

1.2 Browser Requirements

- \Box Firefox 4+
- \Box IE (Internet Explorer) 9+
- \Box Google Chrome 10+
- □ Opera 10+
- □ Safari 5+
- 1.3 Development Environment

During the development process, Localhost is preferred. we can use the following servers on our PC to develop..

Windows

□ WAMPSEVER

4.6 Server

All the work happens on the server. A particular application, called a web server, will be in charge of speaking with the program. A social database server stores whatever data the application requires. At long last, we require a dialect to representative demands between the web server and database server, it will likewise be utilized to perform automatic errands on the data that comes to and from the web server. Obviously none of this is conceivable without a working framework. The web server, programming dialect, and database server we utilize must function admirably with the working framework.

There are many web servers out there in the market. To actualize exam mechanization framework, it is financially savvy. It is speedy and intense. It might not have each chime and shriek accessible for a social database, however for most clients there is bounty. WAMP or XAMPP server is blend of PHP, APACHE, and MYSQL server.

For development we use XAMPP. And after that we live it in a cloud SERVER.

Chapter 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

For our task database is a basic part. We know numerous database administration framework are utilizing around the world. We decide for our task MySQL. MySQL is the world's most mainstream open source database. With its demonstrated execution, unwavering quality and usability, MySQL has turned into the main database decision for electronic applications .MySQL is an open-source social database administration framework (RDBMS) [8].

All database related data's are given in no time:

- □ Database name: bookocean
- \Box 146 tables and each table have different sections

We are demonstrating a figure 5.1 which will indicate table name with its motivation and a rundown of site pages to which this tables has a place with. Database usage incorporates the execution of the functionalities of every module and the usage of information reinforcement and reclamation. Here we will accentuation on presenting the usage of information reinforcement. Information reinforcement alludes to capacity of client information including documents, database, application programs and so forth for information recuperation. In this manner, it is basic to give information reinforcement and rebuilding component to enhance framework security [9].

Here, is our database 146 tables and each table has various segments and each section pronounced distinctive credit which are help to execute our framework.

localhost / 127.0.0.1 / bookocean 🗙	+			-	٥
→ C ① localhost/phpm	nyadmin/db_structure.php?db=bookocean			Q & © 🖸	
phpMyAdmin	🗕 📑 Server: 127.0.0.1 » 👩 Database: boo	ocean			\$ ⊼
<u>≙∎</u> 00∰¢¢	📝 Structure 📔 SQL 🔍 Search	🥫 Query 🚔 Export 🛃 Import 🥜 O	perations 🖭 Privileges 🛞	Routines 🔻 More	е
cent Favorites					
60	Filters				
New 🍝	Containing the word:				
bookocean			Bowe		
Type to filter these, Enter to search X	Table 🔺	Action	Rows Type	e Collation	S
1 • >>>	oc_address	👷 📑 Browse 🛃 Structure 🍕 Search 👫 Ins	ert 🚍 Empty 🥥 Drop 🛛 4 MyIS	SAM utf8_general_ci	
New	🗆 oc_api	👷 🔲 Browse 🥻 Structure 🤕 Search 👫 Ins	ert 🚃 Empty 🥥 Drop 1 MyIS	SAM utf8_general_ci	
+ oc_address	oc_api_ip	👷 🔄 Browse 🔐 Structure 👒 Search 👫 Ins	ert = Empty O Drop 1 Myls	SAM utf8_general_ci	2
+ oc_api + oc_api_ip					
+ oc_api_session	<pre>oc_api_session</pre>			SAM utf8_general_ci	
+ oc_attribute	oc_attribute	🚖 🔲 Browse 🛃 Structure 🍕 Search 👫 Ins	ert 🗮 Empty 🥥 Drop 🛛 0 MyIS	SAM utf8_general_ci	
+ oc_attribute_description	oc_attribute_description	😭 📄 Browse 🥻 Structure 🤌 Search 👫 Ins	ert 🗮 Empty 🥥 Drop 🛛 0 MyIS	SAM utf8_general_ci	
+_ c_attribute_group	<pre>oc_attribute_group</pre>	🚖 🔲 Browse 🛃 Structure 👒 Search 👫 Ins	ert 📻 Empty 🤤 Drop 🛛 0 MyIS	SAM utf8_general_ci	2
+ oc_attribute_group_descrip	oc_attribute_group_description	🏫 📋 Browse 🥻 Structure 🧃 Search 👫 Ins	ert 📻 Empty 🥥 Drop 🛛 e MyIs	SAM utf8_general_ci	
+ c_banner + c_banner_image	oc banner	🚖 🔲 Browse 📝 Structure 💽 Search 👫 Ins	ert 🚍 Empty 🤤 Drop 3 MyIS	SAM utf8 general ci	
+ oc_cart	oc banner image	👷 📑 Browse 🥻 Structure 🍕 Search 👫 Ins		SAM utf8_general_ci	3
+ oc_category					
+ oc_category_description		👷 📑 Browse 🖌 Structure 👒 Search 👫 Ins		DB utf8_general_ci	
+ oc_category_filter	oc_category	👷 📋 Browse 🥻 Structure 🤌 Search 👫 Ins	art 🚃 Empty 🥥 Drop 10 MyIs	SAM utf8_general_ci	
+ oc_category_path	oc_category_description	🚖 🗐 Browse 🛃 Structure 👒 Search 👫 Ins	ert 🗮 Empty 🤤 Drop 🛛 10 MyIS	SAM utf8_general_ci	1
+ _ oc_category_to_layout + _ oc_category_to_store	oc_category_filter	👷 📋 Browse 📝 Structure 🧃 Search 👫 Ins	ert 🗮 Empty 🥥 Drop 🛛 0 MyIS	SAM utf8_general_ci	1
+_ oc_country	oc_category_path	🚖 🗐 Browse 📝 Structure 👒 Search 👫 Ins	ert 🗮 Empty 🥥 Drop 🛛 10 MyIS	SAM utf8_general_ci	
+_ oc coupon	Console terrory to layout	📥 🗐 Browse 🌬 Structure 🔿 Search 🕹 Ins	ert 🚍 Empty 🦰 Dron 19 My/S	SAM uttp general ci	

Figure 5.1: Database of Book Ocean.

5.2 Implementation of Interaction

To make our framework (All in one healing facility administration framework) we have executed intuitive UI for better client encounter. As a rule we have utilized intelligent symbol instead of content connection or catch. The framework configuration planned with arrangement of back to back strides to help individuals for comprehension.

Execution of Interactions is basic assignment for all improvement ventures. As our undertaking is a web base venture such a significant number of assets and client movement need to cooperate. Here we utilize database like MySQL. Furthermore, our venture greatest assignment is identified with information. So every time server and customer imparting to each other's. Information read, compose and alteration, information getting all are continuous a considerable lot of the movement. Information exchange between page to page likewise take places.

5.3 Testing Implementation

Testing is a set of activity that can be planned in advance and conducted systematically. Developer of the software and an independent test group conducts testing. The software should be tested for expected result and efficiency after implementation of the system. Because during implementation everything may not be done according to the system design. So without testing those errors cannot be detected and then corrected. Therefore system testing is very important phase of a system development.

5.3.1 Test plan

Prior to testing starts, a test plan is made. An average test plan reports input esteems for the test, techniques used to play out the testing and the normal yield esteems or results. Test designs run from exceptionally easy to extremely mind boggling, ordinarily in connection to the Complexity of programming forms which are to be tried.

For example, testing whether another client provoke is added to a screen may not require a test plan by any stretch of the imagination, while testing a confounded procedure may require archiving many shifted input situations and the relating expected outcomes and yields for each case. Amid testing, the test plan is refreshed to log test exercises, results and differences with what was initially anticipated.

5.3.2 Unit Testing

Unit testing focuses verification effort on the smallest unit of the system design the software component or module. All the inputs taken each module will be tested by testing data and different in results before and after adding validation will be shown.

Different tests are conducted as part of unit testing are as follows:

- □ Interface testing
- □ Local data structure testing
- □ Error handling paths testing
- □ Boundary condition testing
- \Box Independent paths testing
- \Box Execution path testing

During the design of the system we had conducted these tests frequently.

5.3.3 System Testing

Framework testing includes testing of the entire arrangement of utilization program. This testing will be completed to guarantee that the program can be meet the requests of clients. In the event that would check the usefulness of the proposed framework. The test would pick the zones that should be adjusted any oversight or insufficiencies in the manner in which the framework works. We create one specific component and attempt to test it and if it's not work right we experience the coding or actualize it on the program over and over until the point that it works legitimately.

Expected to check canter point is the site will do all canter functionalities. Content help and crosssite and cross-area checking issues additionally should have been considered.

5.4 Test Result and Report

Results are the principle worry of our task. As a matter of first importance our undertaking is result arranged. Each undertaking needs a yield subsequently. According to our testing background we have discovered every normal outcome.

We performed required experiments as per advancement criteria. Distinctive experiments have made for a particular procedure and put away all experiment results appropriately to translate all outcome. This will settle on choice with better level of exactness.

We have made cycle shrewd and robotized testing to settle on better choice. When test results are deliverable, at that point it has been discharged. A test outcome ought to be assess as per DOD (Definition of done) of particular piece of an undertaking.

Chapter 6

CONCLUSION & FUTURE SCOPE

6.1 Discussion & Conclusion

At the end of our project we want to remind that this is fully unique system and we assure that it will help us all, as well as any consumer, publisher and author. Hope this application will be very demandable in coming future.

6.2 Scope for Further Development

This framework is a very initial approach from us. We already have created an android app for android user so that any android phone user can have the benefits of using this on the go. As for the initial approach we were very focused on creating the functionalities rather than it's gorgeous look. But these services are always appreciated when it is being updated on a regular basis. People always likes the changing features and looks. This is why we are very inspired to develop its overall looks and functionalities. And also we didn't make any approach for iPhone users. So we are looking forward to make an iOS app to them also. So that no one is left with less priority. So we hope in very future we will come with new updates that we are already working on that includes all the platforms with added interesting features and a very iterative look.

APPENDIX

Project Reflection

From Summer-2018 semester we had begun our adventure to make a framework where customers can search for any book anytime of time or can see books by category. Here customer also gets the flexibility of getting the book in either in softcopy or hardcopy. And certainly if a customer requires for hardcopy then it will be home delivered. Here if a customer chooses for softcopy then it will open for download option. Customer gets the freedom for online transaction added with invoice. Customer also gets the option for reading books online. By so far here publishers also gets a platform for digital marketing, and online selling of books. All these services that are mentioned here are not limited to one single platform. We have developed android app for our project for natively android users and also planned for an iOS app. Because our motive is to satisfy all users from different platforms.

Project Drive Link:

https://drive.google.com/file/d/1qG3vyEMZrjaa0RY4jJ1pOS1ArJk2tOZ/view?fbclid=IwAR3-9juniIy6QKCxCe3871klm7vrGBCO7S-UPcrx-mJceIOdTmknhS0vEzo

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