

SHARECARE BOOKSTORE

Submitted in partial fulfilment of the requirements of

PG Diploma in Advanced Computing

By

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Centre for Development of Advanced Computing

Kharghar

February 2020

CERTIFICATE

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Graduate Diploma in Advanced Computing.

(Miss. Dnyanda Parab)

Supervisor/Guide

(Mr. Sohan More)

Faculty Supervisor/Guide

Declaration

I declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

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Date:

Abstract

This system will help the users to read different books of their choice. Also, as the name suggests ShareCare Bookstore, the users can share their old books worldwide. User can also show their creativity in the artistic block section. Especially, this will also help underprivileged people who can't afford the books. The idea behind this project is to create a platform where people can give and take the second hand books for free. Also the advantage behind this is, people across the globe can use this platform for sharing the books which are supposed to be sold in only certain countries.

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List of Abbreviations

Sr. No.	Abbreviation	Expanded form
i	GUI	Graphical User Interface
ii	SQL	Structured Query Language
iii	HTML	Hyper Text Mark-up Language
iv	CSS	Cascaded Style Sheet

Chapter 1

Introduction

ShareCare BookStore is to create a platform where people can give and take the second-hand books for free. The main objective of the project is to create an online book store that allows users to search and order a book based on title. The selected books are displayed in a tabular format and the user can order their books online at free of cost. People across the globe can use this platform to give and take books which are supposed to be sold in only certain countries. User can create his/her content the artistic block and also other users can read the same. The Administrator will have additional functionalities when compared to the common user.

1.1 Description

Many people are not that privilege to have access to books. Not everyone has access to every kind of books available to all over the globe. By using “ShareCare bookstore” we can reuse the old books which indeed will create path for recycling. This will save many lives of trees.

- The user will able to read the book of his choice
- The user will able to share the book worldwide
- The user can add his/her creativity and other users can read it in the artistic block
- The user can give feedback as well as donate some amount as per his/her choice
- Admin can access the book list, user list, donation list, creativity list.

1.2 Problem Formulation

“For some of us, books are as important as almost anything else on earth. What a miracle it is that out of these small, flat, rigid squares of paper unfolds world after world after world, worlds that sing to you, comfort and

quiet or excite you. Books help us understand who we are and how we are to behave. They show us what community and friendship mean; they show us how to live and die.

In today's world there are many underprivileged people who can't afford the books. To avoid this problem, we have created this website called as ShareCare BookStore to help the poor people in ordering the books free of cost and can share them globally. Also, we have provided the functionality where the user can share his/her talent by displaying it in the artistic block and also if user wants to donate some amount then he/she can donate as per the choice. Our website is user friendly. User could see all interested books related to his choice using search opportunities. This will satisfy the expectations of the user.

1.3 Motivation

The motivation to create this project has many sources

- Interest to develop a good user friendly website to enable them to select their favourite books online.
- To increase the knowledge horizon in technologies like SpringBoot, Angular, JavaScript, My-SQL, CSS, HTML.
- Encourage people to show their creativity and also to do social service by donating books and some amount of their choice.

1.4 Scope

The scope of our project is to help the readers at different places with the books of their interest and enjoy reading and enjoy the term sharing and caring. The future scope is to develop chat box where customer direct contact with book owner. To implement a system which will reduce overheads. To develop a system which will retain the quality of service and the system performance.

Chapter 2

Review of Literature

Physical Bookstore:

Bookstores are a common sight in our contemporary society—mostly large booksellers, but also smaller independent booksellers tucked away in local neighbourhoods. They belong to a lengthy history which has encouraged the spread of human knowledge throughout history.

Early Days

Before the invention of the printing press, books had to be transcribed by hand. Scribes and similar experts sold their services to whoever would pay; their places of business could be considered the earliest bookstores.

Printing Press

The invention of the printing press in the 15th century caused book production to explode; most printers also served as booksellers.

Sellers vs. Publishers

In the 19th century, bookstores began to separate from book manufacturers. Those who owned bookshops would serve as middlemen, purchasing from publishers before passing them on to readers.

Online Bookstore:

The increasing significance of e-commerce is evident in the study conducted by researchers at the GVU Centre at the Georgia Institute of Technology. In their summary of the findings from the eighth survey, the researchers report that “e-commerce is taking off both in terms of the number of users shopping as well as the total amount people are spending via online based transactions”. Electronic Commerce applications support the interaction between different parties involved in a e-commerce transaction via the network, as well as the management of the data involved in the process. Over three quarters of the 10,000 respondents report having purchased item through internet. The most mentioned reason for using the web for personal shopping was

- 1) Convenience(68%)
- 2) Followed by availability of vendor information (60%)
- 3) No pressure from sales person (55%) 4) Saving time (53%).

Security:

There is an issue of security in online shopping. People do not purchase the terms online, the GVA survey also indicates that faith in security of e-commerce is increasing. As more people gain confidence in current encryption technologies, more and users can expect frequently purchase items online. The interactive cycle between a user and a web site is not complete until the web site responds to a command entered by the user.

Following are the Some Various Analysis and Researches:

The names of some websites are as follows

- 1) Amazon.com
- 2) Snapdeal.com
- 3) Flipkart.com
- 4) Myntra.com

A Good E-Commerce Site Should Present the Following Factors to the Customers for Better Usability:

- 1) Minimal and strong security notifications or messages.
- 2) Different parts of the site after adding an item to the shopping cart return.
- 3) Selecting and scanning is easy in a list.
- 4) Effective categorical organization of products.
- 5) Simple navigation from home page to information and order links for specific products.
- 6) Obvious shopping links or buttons.
- 7) Consistent layout of product information

By considering above literature survey, our project aims to develop online bookstore for underprivileged people.

Chapter 3

System Analysis

3.1 Functional Requirements

- The system will allow users to access different books and read them and can share them globally
- The system will allow users to enter and show the feedback about the website
- The system will allow users to show their creativity in the artistic block
- The system will allow user to donate the amount in the donate us block
- The user will be able to add the second-hand books in our website
- The main agenda is to help people and to spread the knowledge among them

The system shall allow the admin to check what books have been added from users, the users list, donation list, book list and content in the artistic block by the user. Admin can remove the unethical users.

3.1.1 Login of Admin

- The system will allow the admin to do the registration and login.
- The system will allow to view the user list and booklist.
- The system will allow the admin to see the donation details of users.
- The system will allow the admin to see the creativity of users.
- The system will allow the admin to delete the unethical users.

3.1.2 Login of User

- The system will allow the user to do the registration and login.
- The system will allow the user to update his/her password.
- The system will allow the user to select book of his/her choice and place the order.
- The system will allow the user to upload the book.
- The system will allow the user to contact to the admin with the help of Contact us block.
- The system will allow the user to donate some amount to our website.
- The system will allow the user to show his/her creativity in the artistic block.
- The system will allow the user to give his/her feedback.

3.2 Non-functional Requirements

3.2.1 Performance Requirements

The system should store all the database records of each user and admin staff properly and the application should be available for use 24*7 through the server. Also, the application should be user friendly with a proper user interface which makes it easy for the user to understand. All the options should be present in properly accessible places for user convenience.

3.2.2 Safety Requirements

All login ids and passwords of the users and especially admin staff should be protected for privacy using whatever constraints required in the database or the application. In case any admin staff access account is hacked by any intruder, user id and passwords of all the admin staff personnel should be changed and new passwords should be issued to all users. User records are to be backed up securely across database servers. In case, database is hacked by someone and data is deleted a backup server should be present for such purpose.

3.2.3 Security Requirements

All passwords of the administrators should be protected for privacy using whatever constraints required in the database or the application. Transactions regarding user records should be carried out properly. Only admin staff will have access rights to the user data according to the need for E.g.: checking user details, feedback, passwords etc. The database should be protected from attacks and unauthorized access. The interface should be protected from attacks. All passwords should be stored as a secure hash of the administrator password. Passwords of the Admin, Police Admin and FIR Entry Operator should be protected for privacy using whatever constraints required in the database or the application. User's password should be saved in encrypted format so that intruder cannot know the password of user. All passwords should be stored as a secure hash of the administrator password.

3.2.4 Software Quality Attributes

3.2.4.1 Availability

The system should run on a variety of operating systems that support the different languages. The system should run on a variety of hardware.

3.2.4.2 Accessibility

The software will be accessible to admin, users.

3.2.4.3 Compatibility

The software will be compatible with multiple platforms.

3.2.4.4 Durability

The software will be tested for working with multiple users.

3.2.4.5 Effectiveness

The software will be made to handle operations effectively.

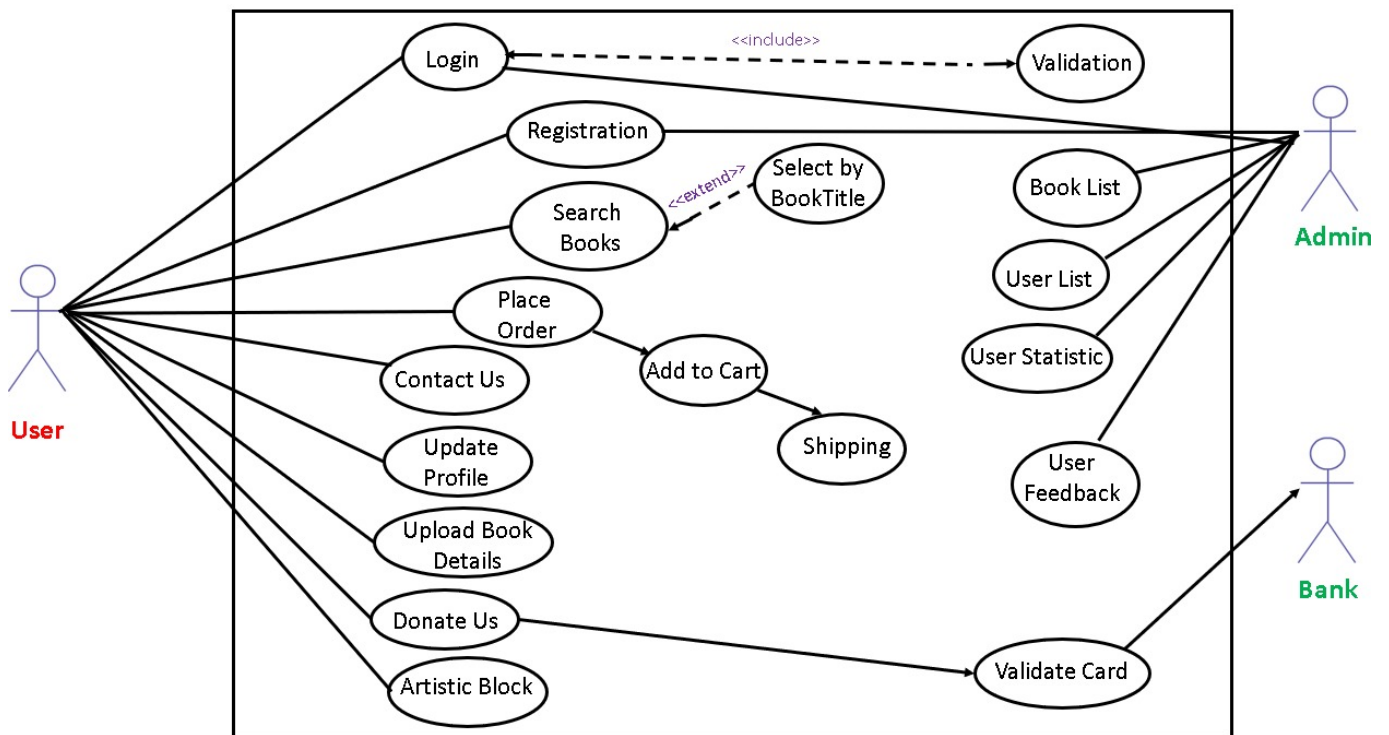
3.2.4.6 Maintainability

The system should be easy to maintain. There should be a clear separation between the interface and the business logic code. There should be a clear separation between the data access objects that map the database and the business logic code.

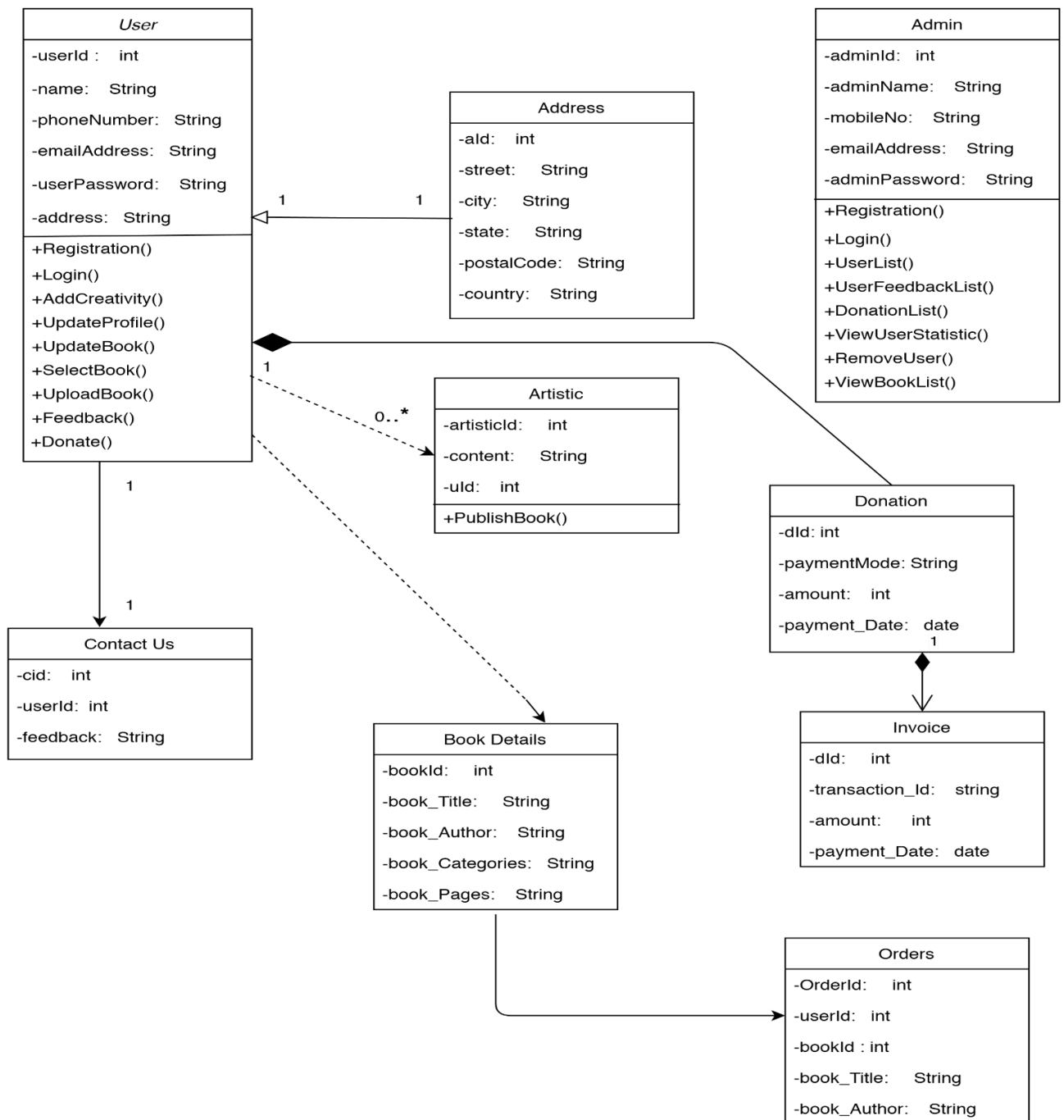
Chapter 4

Analysis Modelling

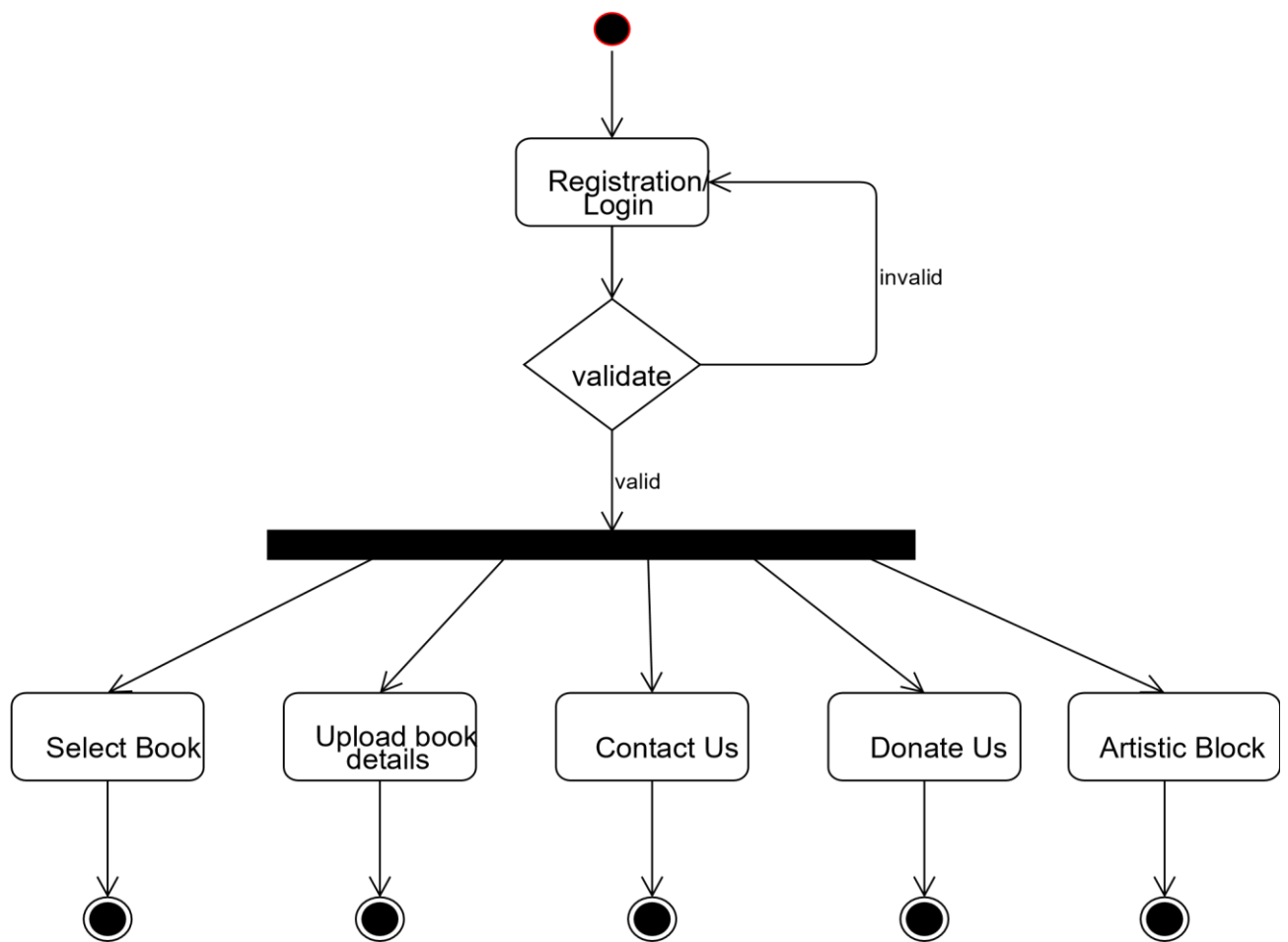
4.1 Use Case Diagram: -



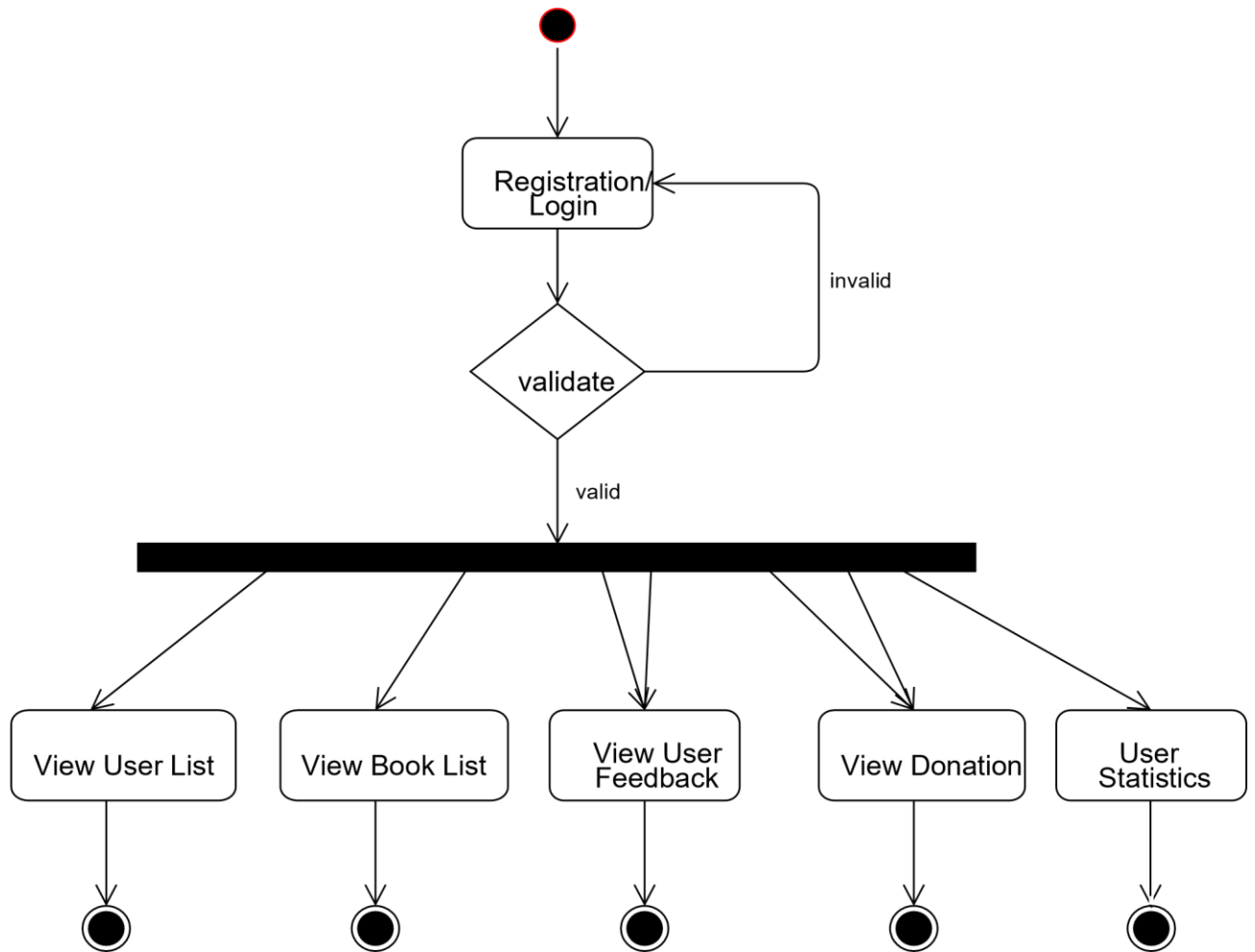
4.2 Class Diagram:-



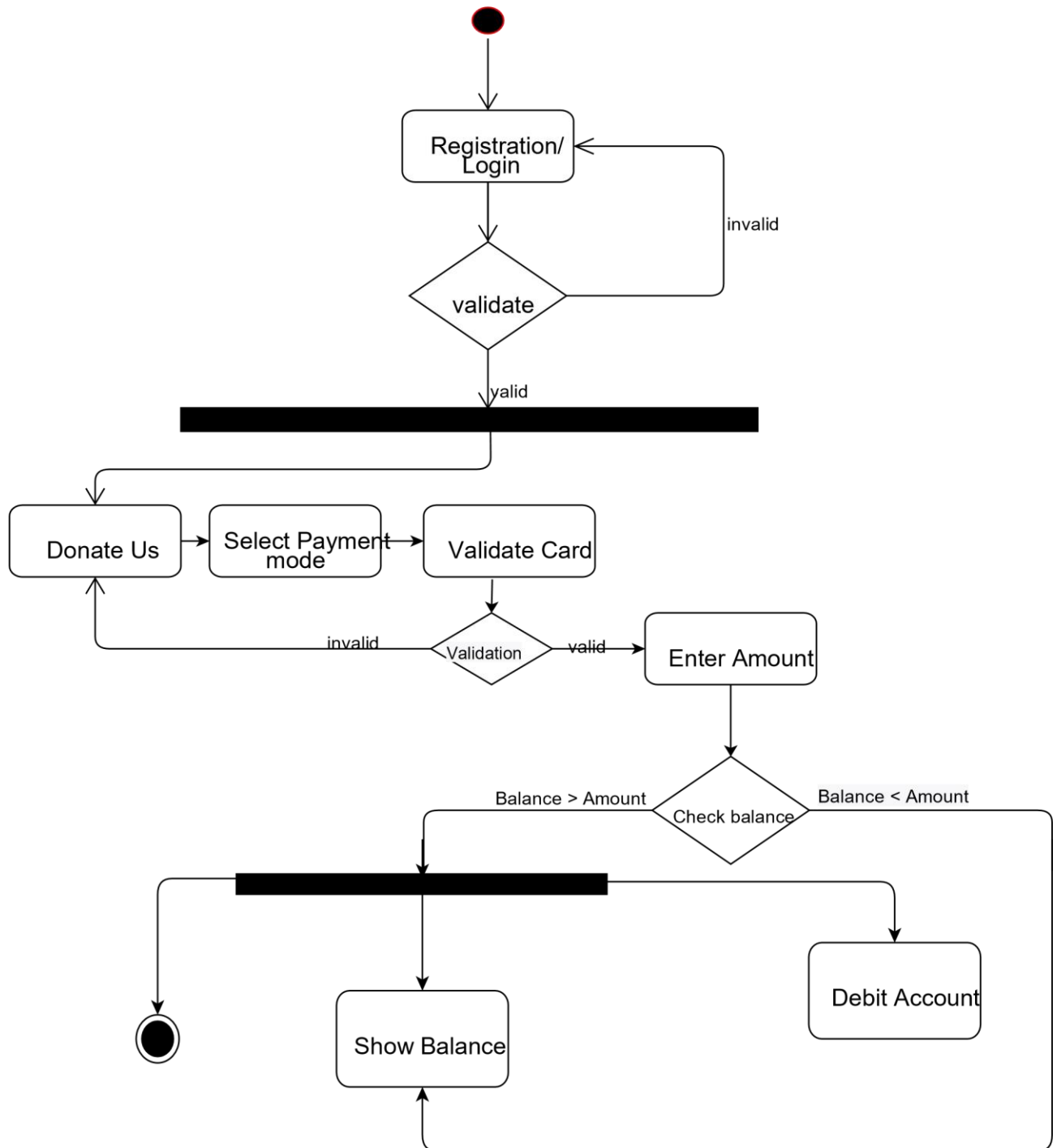
4.3 Activity Diagram (1):-



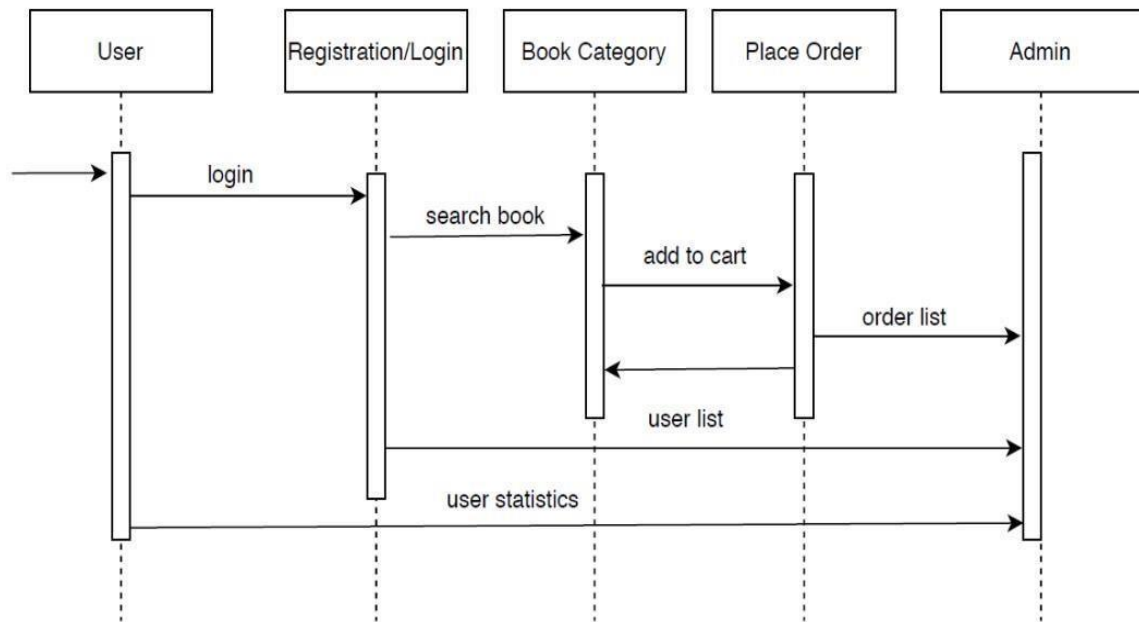
4.3 Activity Diagram (2):-



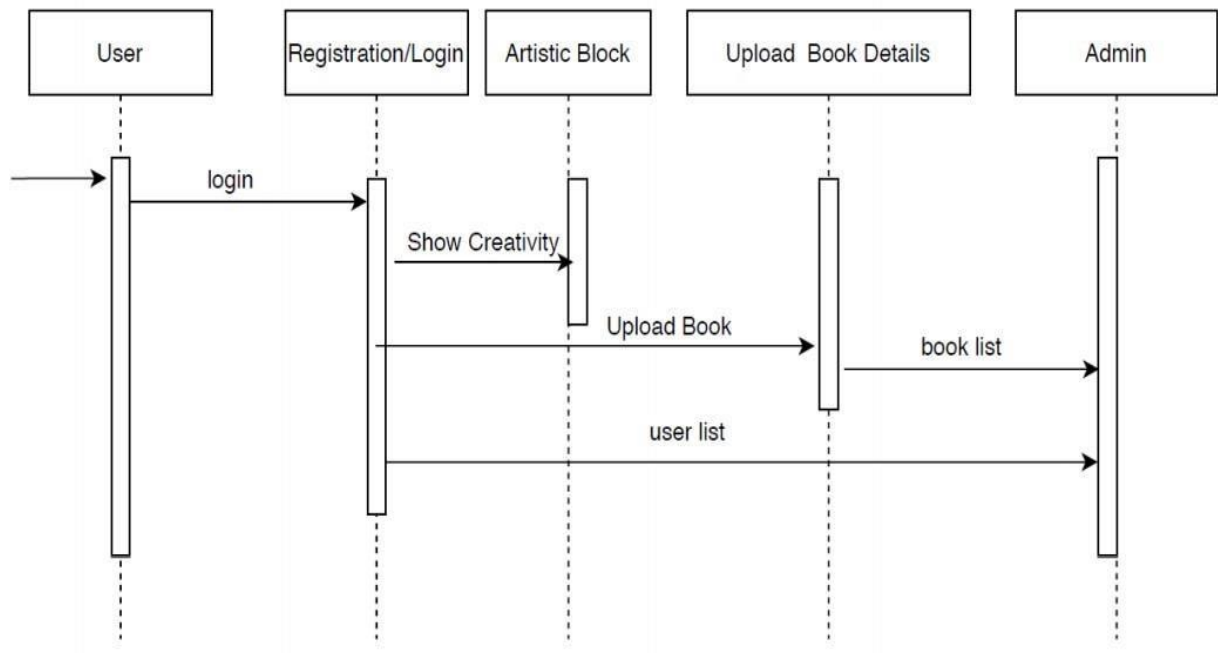
4.3 Activity Diagram (3):-



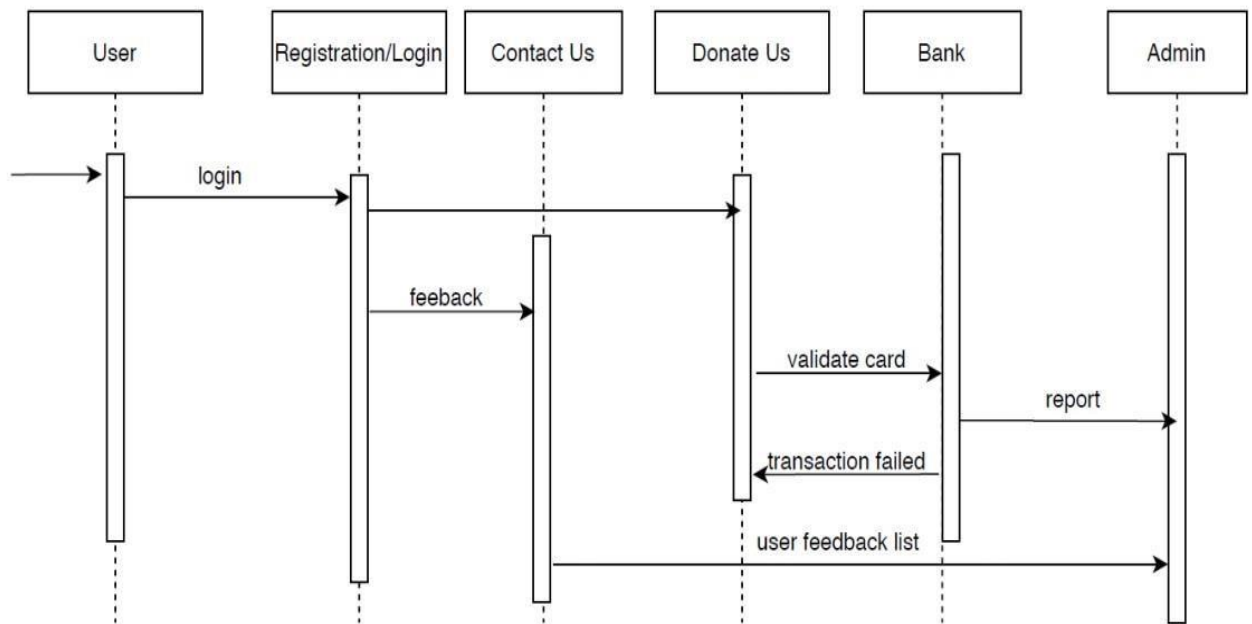
4.4 Sequence Diagram (1):-



4.4 Sequence Diagram (2):-



4.4 Sequence Diagram (3):-



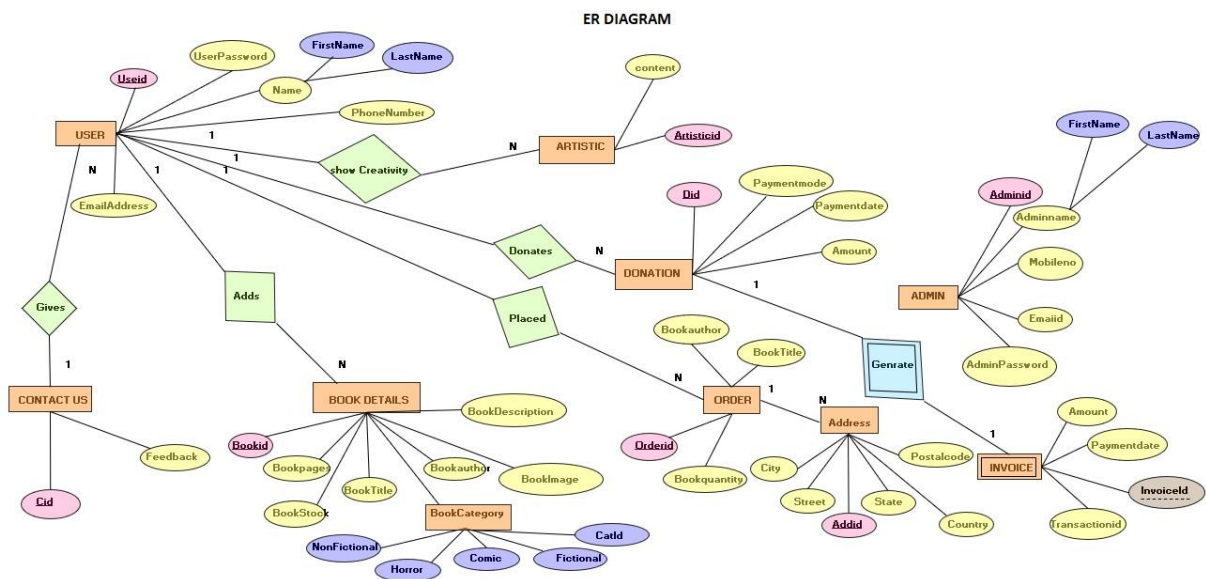
Chapter 5

DESIGN

5.1 Data Modeling (E-R Model, Relational tables with its associated Data dictionary) ER Diagram

normalized till the third normal form accompanied by the respective data dictionary table should be included

ER Diagram:-



Relational tables:-

	Field	Type	Null	Key	Default	Extra
►	id	int(11)	NO	PRI	NULL	
	email	varchar(255)	YES		NULL	
	first_name	varchar(255)	YES		NULL	
	last_name	varchar(255)	YES		NULL	
	password	varchar(255)	YES		NULL	
	phone_no	varchar(255)	YES		NULL	

a. User Table

	Field	Type	Null	Key	Default	Extra
►	id	int(11)	NO	PRI	<u>NULL</u>	
	email	varchar(255)	YES		<u>NULL</u>	
	first_name	varchar(255)	YES		<u>NULL</u>	
	last_name	varchar(255)	YES		<u>NULL</u>	
	password	varchar(255)	YES		<u>NULL</u>	
	phone_no	varchar(255)	YES		<u>NULL</u>	

b. Book Table

	Field	Type	Null	Key	Default	Extra
►	id	int(11)	NO	PRI	<u>NULL</u>	
	email	varchar(255)	YES		<u>NULL</u>	
	first_name	varchar(255)	YES		<u>NULL</u>	
	last_name	varchar(255)	YES		<u>NULL</u>	
	password	varchar(255)	YES		<u>NULL</u>	
	phone_no	varchar(255)	YES		<u>NULL</u>	

c. ContactUs Table

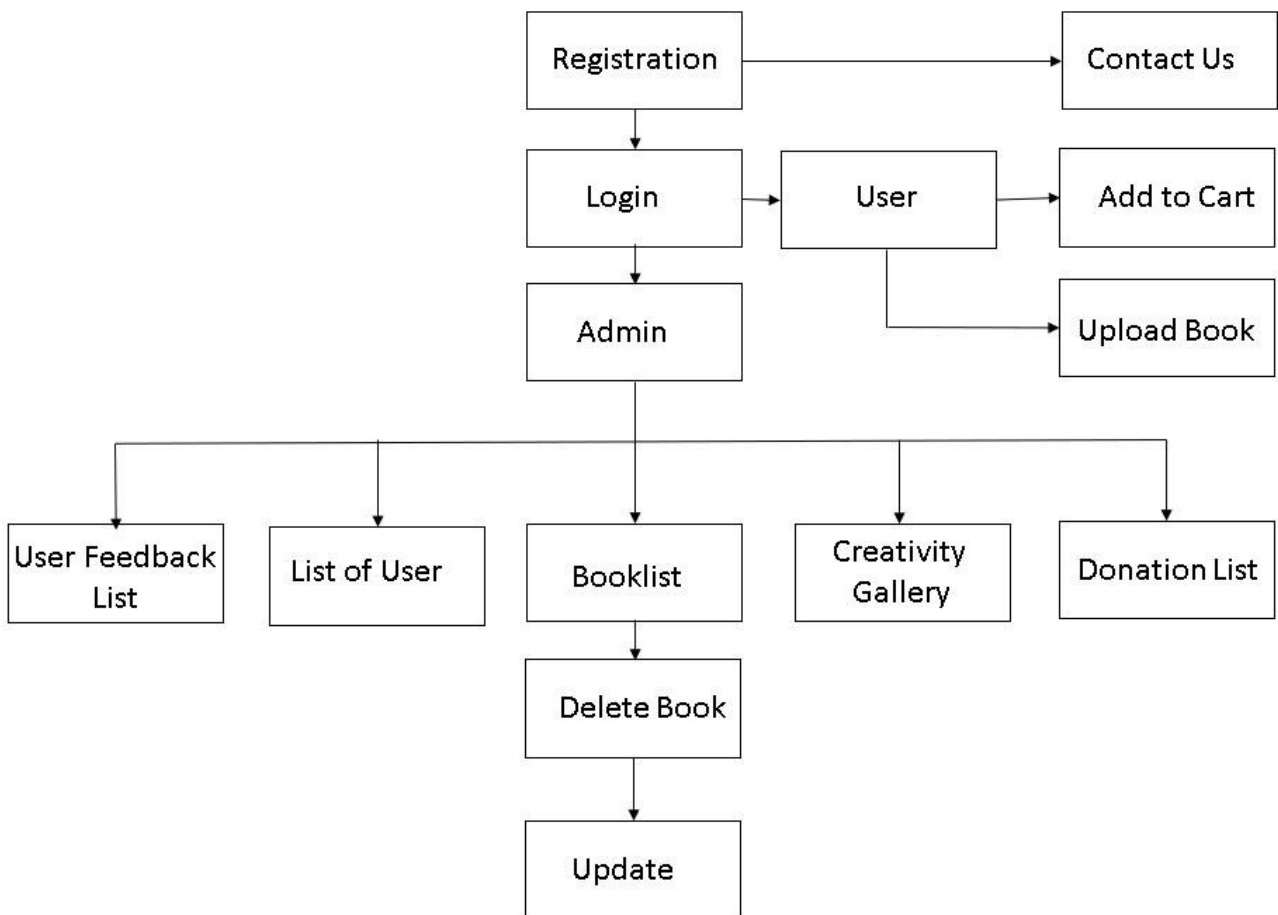
	Field	Type	Null	Key	Default	Extra
►	id	int(11)	NO	PRI	<u>NULL</u>	
	email	varchar(255)	YES		<u>NULL</u>	
	first_name	varchar(255)	YES		<u>NULL</u>	
	last_name	varchar(255)	YES		<u>NULL</u>	
	password	varchar(255)	YES		<u>NULL</u>	
	phone_no	varchar(255)	YES		<u>NULL</u>	

d. Donation Table

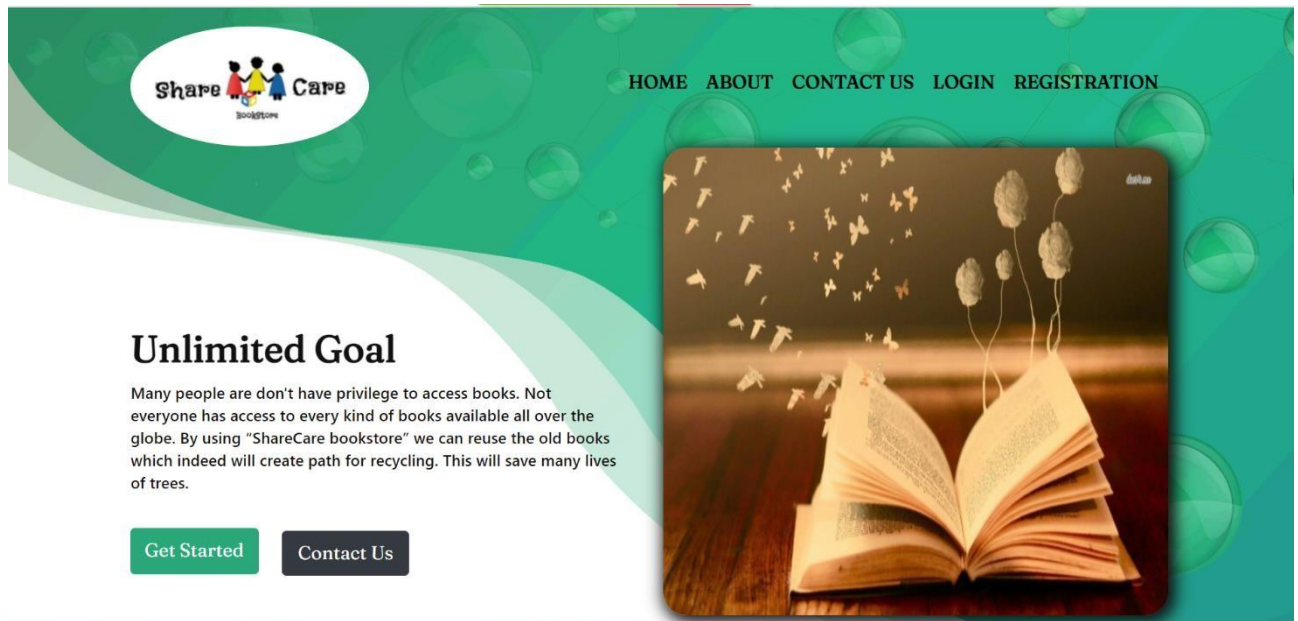
	Field	Type	Null	Key	Default	Extra
►	id	int(11)	NO	PRI	<u>NULL</u>	
	email	varchar(255)	YES		<u>NULL</u>	
	first_name	varchar(255)	YES		<u>NULL</u>	
	last_name	varchar(255)	YES		<u>NULL</u>	
	password	varchar(255)	YES		<u>NULL</u>	
	phone_no	varchar(255)	YES		<u>NULL</u>	

e. Artistic Table

5.2 Architectural Design:- (Project Flow /architecture with description)



5.2 User Interface Design / GUI for your project



Why you should choose us

This will help the users to read different books of their choice and to help people and to spread the knowledge among them



Powerful Features

Will allow users to access different books and read them and can share them globally at free of cost.user will able to read the book of his choice



Totally Optimised

User can make most of this site in reading and showing there creativity using artistic block and also they can read blogs created by another user



Worldwide Support

As we are accessing the books globally.The user can upload there books from anywhere and can order from anywhere.our site creating good support for many of the user.



ShareCareBookStore

"There are many little ways to enlarge your world.Love of books is the best of all.Books are the plane and the train,and the road.They are the destination and a journey.They are home".

Our Team



Request A Call Back

email

Message

Send



INDIA

+7586656566

sharecare@gmail.com

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Creativity

Content

"All our dreams can come true, if we have the courage to pursue them."

Submit

“

Ajeeb Tarah Se Gujar Gayi Meri Bhi Zindagi,
Socha Kuchh, Kia Kuchh, Hua Kuchh, Mila
Kuchh. Jeene Ka Hausla Kabhi Marne Ki
Aarzo, Din Yoon Hi Dhoop-Chhaon Mein
Apne Bhi Kat Gaye.

”

Sharecare bookstore ❤️

“

"All our dreams can come true, if we have the
courage to pursue them."

”

Sharecare bookstore ❤️



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State

MH

Pincode


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CART

Book Id	Book Name	Book Author	Book Description
139	Let Us C	Yashwant Kanetkar	C Programmiing 

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Payment Mode

Amount

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Thank You!

With each donation we receive, we become all that much closer to our goal.
Thank you for making a difference through your compassion and generosity.

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Book Title	Book Author	Total Pages	Book Description	
Let Us C	Yashwant Kanetkar	880	C Programmiing	Delete
Let Us C++	Yashwant Kanetkar	660	C++ Programmiing	Delete
Wings of Fire	A.P.J. Abdul Kalam	550	Wings of Fire is an autobiography of APJ Abdul Kalam covering his early life and his work in Indian space research and missile programs.	Delete
Power of subconscious mind	Dr. Joseph Murphy	890	This book can bring to your notice the innate power that the sub-conscious holds.	Delete



Creativity Gallery

“

I will rise After every fall. I will rise And stand tall. I will rise Over the wall. I will rise Above them all.

”

Sharecare bookstore ❤️

“

Bade Hi Ajeeb Hain Ye Zindagi Ke Raaste, Anjane Mod Par Kuchh Log Apne Ban Jate Hain, Milne Ki Khushi Dein Ya Na Dein, Magar Bichadne Ka Gam Zaroor De Jate Hain.

”

Sharecare bookstore ❤️



Email	Donation date	Payment mode	Amount
cdac@gmail.com	2021/09/19	onlinemode	100
kh@gmail.com	2021-01-19	Debit Card	2000
juhu@gamil.com	2021-01-19	Net Banking	3000
act@gmail.com	2021-01-19	Net Banking	10000
kk@gmail.com	2021-01-19	Debit Card	100
kem@gmail.com	2021-01-20	Credit Card	5000
abc@gmail.com	2021-01-20	Debit Card	1000



User List

#ID	First Name	Last Name	Email Id	Contact No	
84	rupali	jagati	rupali@gmail.com	7658690403	Delete
88	sandhya	pandey	sandhya@gmail.com	8982647863	Delete
89	dinesh	dinesh	dinesh@gmail.com	7836984080	Delete
148	rasika	divekar	rasika@gmail.com	8578844544	Delete
159	surabhi	sankhe	surabhi@gmail.com	7890098888	Delete
182	shweta	karde	shweta@gmail.com	8789909765	Delete
183	rrr	jagati	jagatirupali5@gmail.com	7489323453	Delete
185	nidhi	upa	nidhiupashyam@gmail.com	8948584878	Delete
186	s	k	shwetakarde2@gmail.com	8979857948	Delete

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Chapter 6

IMPLEMENTATION

6.1 Methods Used

AGILE SDLC Model Approach:

This is based on iterative development where requirements and solutions evolve through collaboration between self-organizing cross-functional team

6.2 Working of the project *[do not copy paste entire code. Only main snippets] 1)*

Admin Service

```
package com.Sharecare.service;
*import java.util.List;

@Service
public class AdminService {

    private int e=1;
    @Autowired
    private AdminRepository adminrepo;

    @Autowired
    private RegistrationRepository regrepo;

    public Admin fetchAdminByEmailIdAndPassword(String adminEmail,String adminPassword) {
        return adminrepo.findByAdminEmailAndAdminPassword(adminEmail,adminPassword);
    }

    public List<User> getAllUser(){
        return (List<User>) regrepo.findAll();
    }

    public void removeUser(int id) {
        regrepo.deleteById(id);
    }

}
```

2) User service

```
package com.Sharecare.service;

import java.util.Optional;

@Service
public class RegistrationService {

    @Autowired
    private RegistrationRepository repo;

    public User saveuser(User user) {
        return repo.save(user);
    }

    public User fetchUserByEmailId(String email) {
        return repo.findByemail(email);
    }

    public User fetchUserByEmailIdAndPassword(String email,String password) {
        return repo.findByemailAndPassword(email,password);
    }

    public User get(int id) {
        return repo.findById(id);
    }
}
```


3) Contact Us service

```
package com.Sharecare.service;

import org.springframework.beans.factory.annotation.Autowired;

@Service
public class ContactUsService {

    @Autowired
    private ContactUsRepository contactusrepo;

    public ContactUs saveContent(ContactUs contactus1) {
        return contactusrepo.save(contactus1);
    }

}
```

4) Donation Service

```
package com.Sharecare.service;

import java.util.List;

@Service
public class DonationService {

    private DonationRepository donationrepo;

    public Donation saveDonation(Donation donation) {
        return donationrepo.save(donation);
    }

    public List<Donation> findAllDonation() {
        return (List<Donation>)donationrepo.findAll();
    }

}
```

5) Artistic service

```
package com.Sharecare.service;

import java.util.List;

@Service
public class ArtisticService {

    @Autowired
    private ArtisticRepository artisticrepo;

    public Artistic saveContent(Artistic artistic) {
        return artisticrepo.save(artistic);
    }

    public List<Artistic> getAllCreativity() {
        return artisticrepo.findAll();
    }
}
```

6) Book service

```
package com.Sharecare.service;

import java.util.List;

@Service
public class BookService {

    @Autowired
    private BookRepository bookrepository;

    public Book saveBookDetails(Book book) {
        String tempBookTitle=book.getBookTitle();
        return bookrepository.save(book);
    }

    public List<Book> findAllBooks() {
        return bookrepository.findAll();
    }

    public void removeBook(int id) {
        bookrepository.deleteById(id);
    }

    public List<Book> getAllBooksByTitle(String title) {
        return bookrepository.findAllBookByTitle(title);
    }

    public List<Book> getBookByAuthor(String author) {
        return bookrepository.findByBookAuthor(author);
    }

    public List<Book> findAllBooksCategoryWise(int categoryId) {
        return bookrepository.findByBookCategory(categoryId);
    }
}
```

Chapter 7

TESTING

7.1 Test cases (*conditions on which testing is done*)

7.1 Test Cases

Test Id	Item to be Tested	Steps	Input	Actual Output	Expected Output	Pass/Fail
1	User Id	User enters user Id	User Id	Display Success	Display Message successful	Pass
2	System check for proper username and password entered by users	System compares the data entered by user and the entered data in database				

		If username and password is valid		Make Connection	Make connection	Pass
		If username and password is invalid		Report invalid user id	Report error	Pass
3	System checks whether details of user are entered as per the format	System checks the data entered by user is in valid form or not.				
		If valid	User entered data	Entered in database	Entered in database	Pass
		If invalid	User entered data	“Invalid Data” message will be printed	“Invalid Data” message will be printed	Pass

7.2 Type of Testing used (*explanation and reason of testing method used*)

We have used the White-box testing,, Unit testing, Functional Testing and Integration testing. The reasons behind using these testing methods are:-

[1] White Box Testing is a used because the internal structure/ design/ implementation of the item being tested is known to the tester.

[2] Unit testing is used for testing of individual units or components of a software . The purpose is to validate that each unit of the software code performs as expected. Unit Testing is done during the development (coding phase) of an application by the developers. Unit Tests isolate a section of code and verify its correctness. A unit may be an individual function, method, procedure, module, or object.

[3] Functional Testing is used for software testing that validates the software system against the functional requirements/specifications. The purpose of Functional tests is to test each function of the software application, by providing appropriate input, verifying the output against the Functional requirements.

[4] Integration testing is for testing where software modules are integrated logically and tested as a group. A typical software project consists of multiple software modules, coded by different programmers. The purpose of this level of testing is to expose defects in the interaction between these software modules when they are integrated

Chapter 8

Results and Discussions

The system is a general hobby for reading and books on the needs of the consumer customer base, with a certain degree of practical sharecare bookstore system. It is mainly different from the traditional physical bookstores, to overcome a series of physical bookstores limited variety, fixed location, limited space and narrow sales channels and other issues, for people to purchase the book has brought convenience. Sharecare bookstore system not only can easily find the information and purchase books, and the operating conditions are simple, user-friendly, to a large extent to solve real-life problems in the purchase of books, but the design of the system because of the completion time Of the restrictions, some of the functions of the system is not perfect, but the basic functions have been achieved. The future scope of this project is:

- To develop chat box where customer direct contact with book owner.
- To implement a system which will reduce overheads.
- To develop a system which will retain the quality of service and the system performance.

Chapter 9

Conclusions

ShareCare bookstore has many advantages compared to its counterparts such as physical book store, the ShareCare bookstore allows its user to get books at one place where in physical store the books are scattered at the different places which consumes a lot of time. ShareCare bookstore helps in saving the time and it also avoids the problem of unavailability of books at physical stores. This project helps users to search books of their choice and place the order ease of manner. It also allows user to give feedback, to donate amount and to show the creativity. By using these services the user can make the most of our website.

Appendix

Appendix I : Operating Environment

○ Hardware platform:

- **Processor Speed:** 800 MHz (min) 1.5 Ghz or (Recommended)
- **Processor:** 64 bits
- **Memory:** 512MB (min) 1 GB or more (Recommended)
- **Free disk Space:** 300MB (min) 1 GB or more (Recommended)

○ Software platform:

- Front-end: HTML, CSS, Bootstrap, Angular, Angular Material
- Back-end: MySQL, Spring, Hibernate

○ Supported tools:

- Visual Code Studio, MySQL Workbench, Eclipse

Appendix II : Design and Implementation Constraints

Constraints:

- User interface is only in English. No other language option is available
- User can log-in only with his assigned user-name and password
- Limited to HTTP/HTTPS

Appendix III : User Documentation

User documentation mainly comprises of Help menu of application. It will give all the minute details about the project, if any user has any query about any module or functionality, one can refer it and see how to operate the application. This report is the complete documentation of our project. It gives complete details about the project, its functionality, users, software used, hardware requirement, environment and so on.

Appendix IV : Assumptions and Dependencies ○

Assumptions:

- There is an active internet connection with the system
- The system has internet browser installed
- Users know the English language, as the user interface will be provided in English.

○ **Dependencies:**

- Once the user has uploaded the book, he/she can have access to cancel the same within 4 days otherwise it will get uploaded by default in the system.

Appendix V : Intended Audience and Reading Suggestions

This document is intended for developers, users, testers and project managers for the purpose of understanding the design of system in terms of different perspectives. Further, this document contains functionalities and characteristics of system along with the working environment. It also includes other information related to system such as external interface requirements, features and other non - functional requirements.

Appendix VI : External Interface Requirements ○

User Interfaces

The main element is web-pages using HTML, Bootstrap, Angular Material. Multiple interfaces are there like log-in pages, home pages of Users, payment gateway for donation. Admin will remove the fake or abusing feedback accordingly. Admin will also generate the user statistics report.

○ **Hardware Interfaces**

In the hardware interface, the system interacts with hardware given the processor is above P4 with clock speed of 2.0 GHz with 1 GB RAM and the Hard Disk with 1 GB free space in the memory. In future enhancements, it can be made responsive to be able to work with mobile devices as well.

○ Software Interfaces

In software interfaces, Spring is the back-end technology used along with MySQL Database. The frontend technologies include HTML, CSS, Bootstrap, Angular and Angular Material. Data will be communicated between these interfaces accordingly.

○ Communications Interfaces

The main communication interface for interacting with the System will be the web Browser.

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