A Project Report on

"Book Town"

Submitted in partial fulfillment of requirement for the award of degree of Diploma Computer Engineering,

Gujarat Technological University

Submitted By: -

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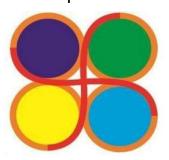
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Under the Guidance of

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Computer Department Government Polytechnic, Ahmedabad July-November-2022

CERTIFICATE

Computer Department

Government polytechnic, Ahmedabad



This is to certify that the project entitled

Book Town

Submitted in partial fulfillment of the requirement of the degree of

Diploma in Computer Engineering Is

a result of the bonafide work carried out by

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- It's so great that you are willing to help out when we need it! Thank you for your hard work and dedication, which has made possible.

- From All Team Members!!

ABSTRACT

- It is found that as the student goes to new standards or semesters they have problem to sell old books and Buy new book. And, specially they can not find local Publication on Book buying apps. And, When someone has no use of some particular book they will sell it some local book seller or throw it in garbage. Because, of this the other person who need that book will not get that particular book.
- To solve the above two problems we have came up with an idea, The BookTown is targeted for the school college students or any other interested book readers. This app allows everyone to find needy books in seconds with their prices and also recommends what a user can buy as per their previous choices. Users can buy and resell the books also through the app as this eliminates the time to visit a shop to resell. Books in the app can be a reference books, local publication books, novels, comics, and many others.
- This app also has the feature with which the users can see new books of their interest through the links present in the post of the people they follow.

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1. Introduction

1.1 Project profile

Project Title	Book Town
Front End	XML
Back End	Java, Firebase
Supporting Tool to develop	Android Studio
Application	
Text Editor	Android Studio
Internal Guide	Prof. Alpesh Thaker
Submitted To:	Department of Computer
Team Size	5 Members
Team Members Name	1) Jolly Patel
	2) Shah Dhruva
	3) Dhwani Patel
	4) Jaini Kotadia
	5) Goswami Dattpuri

Table – 1.1

1.2 Hardware Requirement

Processor:	i3 processor
RAM:	Minimum RAM 4GB
K/XIVI.	William IV IVI +OD
Hard disk:	80 GB
Ugan Interfeding Devices	Vayboard Mouse
User Interfacing Devices:	Keyboard, Mouse

Table – **1.2**

^{*}Above given requirements specify the minimum requirement needed to run the System.

1.3 Software Requirement

Operating System:	Windows 10, Windows 7 or above
Programming Tools:	Frontend: XML Backend: Java, Firebase
Application:	Android Studio

Table – 1.3

2. <u>Literature Survey</u>

2.1 Existing system

2.1.1 Working of current system

Existing system is a manual one in which users is maintaining books to sell and buy above mention. It is very difficult to manage the transaction and order of the books. Together it doesn't allow the user to interact with the admin. So, in our application all things are automatic, except that the seller have to post book and buyer have to order and make payment. All this form billing and Delivery management is done by the application.

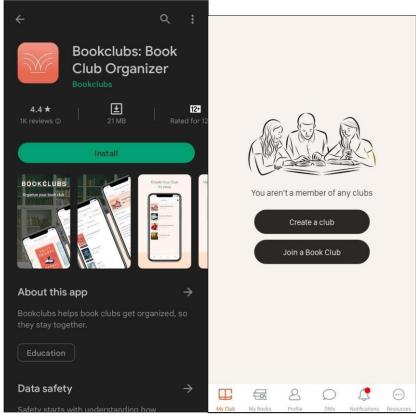
2.1.2 Shortcomings of current system

- > Cover photos are not properly provided
- ➤ Websites and apps are slow and annoying.
- > Some apps are fake which doesn't provide proper authentication.
- ➤ Seller can directly register to the app or website and can sell without justification of their identity.
- > Delays and errors in providing results when a book is searched

2.2 Existing Site Survey

1. BookClubs:

Link: https://play.google.com/store/apps/details?id=com.bookclubz



Major Features:

Fig-2.2.1

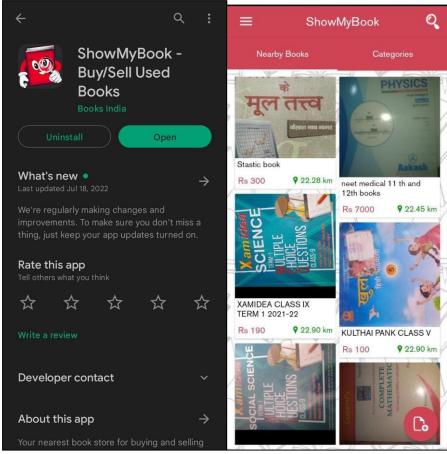
- 1. You can send invitation to your friends to read books.
- 2. You can poll your members to choose books.
- 3. You can keep a Library of your club's reading history.

Limitations:

- 1. Local publications are not available.
- 2. This app is slow and annoying.
- 3. Sometimes even after logging in, it doesn't allow you to access your own account.

2. ShowMyBooks:

Link: https://play.google.com/store/apps/details?id=com.show.mybook



 $\mathbf{Fig} - \overline{\mathbf{2.2.2}}$

Major Features:

- 1. We can change our own location randomly to see nearby sellers.
- 2. This app provides detailed classification of books.
- 3. You can directly chat through application with buyers and sellers.

Limitations:

- 1. No proper cover photos of books are provided.
- 2. It allows to sign up again with same and wrong details.
- 3. It allows user to post anything in the name of the book with wrong details of it.
- 4. No validation during signing up.

3. BookScouter:

Link: https://play.google.com/store/apps/details?id=com.BookScouter

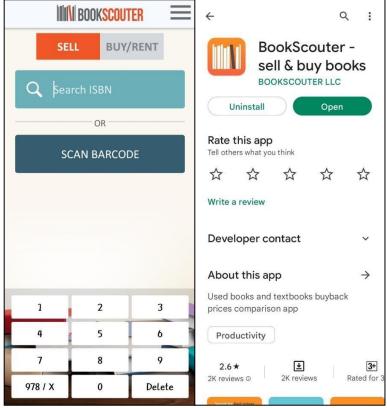


Fig - 2.2.3

Major Features:

- 1. It contains FAQs.
- 2. We can switch keyboard for our convenience.
- 3. We can contact to bookScouter team through email-id.

Limitations:

- 1. In option of ISBN number, you have to scan the barcode which many of the books won't have.
- 2. This app doesn't have option to search a book by name.
- 3. They show the price in US dollar which is inappropriate for users from other countries.
- 4. New books are rarely available. Mostly old books are there.

4. 99BookStore:

Link:https://play.google.com/store/apps/details?id=com.bookstore99

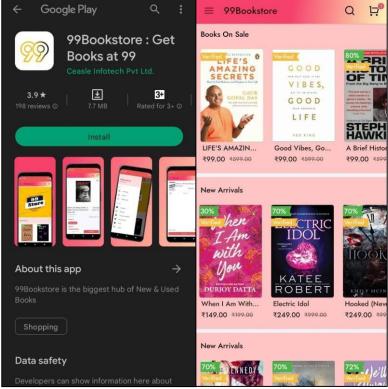


Fig - 2.2.4

Major Features:

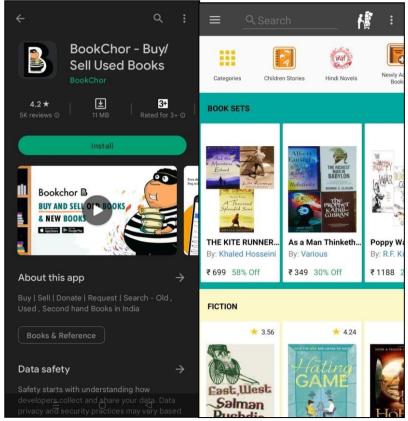
- 1. It have a Bookbox feature where readers can put their favorite books and only pay for the box.
- 2. We also have a Mystery Box & Library Box in 99Bookstore.
- 3. We also have a Request Book feature where you can tell us which new or used book you want to buy. We will try to send you the book.

Limitations:

- 1. You can't resell your book here.
- 2. It doesn't provide customers review section.
- 3. It doesn't provide question box.
- 4. There is no recommendation section.

5. BookChor:

Link:https://play.google.com/store/apps/details?id=booksfortune.bookchor



 $\mathbf{Fig} - 2.2.\overline{5}$

Major Features:

- 1. It has very much variety books.
- 2. It has Wishlist and Fav Author section where we can have our favorite Book and Authors.
- 3. It has varities of sections for searching book.

Limitations:

- 1. There login crash very much time.
- 2. Searching algorithm is not proper.
- 3. User interface is less attractive.
- 4. There is no option for buying Local publication Books.

2.3 Process Model

 We are going to use Iterative Waterfall model for developing this system.

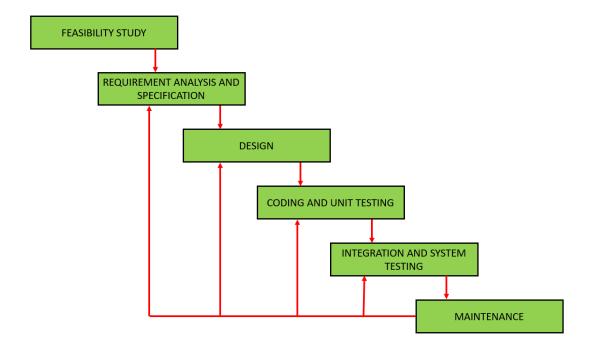


Fig-2.3.1

- > Reasons to choose this model: -
 - It's possible to debug and re-analyse system if there is any bug in system.
 - It's very simple.
 - It enables debugging from the requirement phase.

3. proposed System

3.1 Introduction

This system is used for selling and purchasing books online. This app allows user to post their books for selling including resellers to resell their books along with book condition and little description about the book. It also verifies seller before giving actual permission to sell books by requesting various authenticating documents. It allows administrator to handle the books posted and provides right to remove book with malicious content along with that it provides right to administrator to enter new released book or category to the system.

3.2 Functionality

- If user has forgot the password, user can recover their account by resetting it with the help of mail functionality.
- Buyer can search book by name, ISBN number, author of book.
- Buyer can choose any payment method from given options for doing payment.
- User can change basic details in their profile like address, city, phone, email etc.
- Buyer can track their order status of the book they ordered using the app.
- App provides users various recommendations to buy book based on their previous orders done by them.

3.3 Advantages

- This app eliminates the wastage of user's time for visiting a book store to purchase a book.
- Delivery person can view in our app the orders left for him/her to deliver.
- We also provide local publications for a huge category of users i.e. Students.
- This app allows buyer to be a reseller of book and allow them to post their book for sale and purchase.
- It allows seller to track the orders assigned to them i.e. the book order from buyer from his/her company.

3.4 System Modules

> MAIN MODULES

- 1. Admin module
- 2. Billing module
- 3. Log In/Sign In module(Log out module included).
- 4. User details module
- 5. Book details module
- 6. Selling/Reselling module
- 7. Buying module
- 8. Delivery module
- 9.My profile module

1) Admin module

 This module will allow admin to login and manage the system and it's functions.

- Admin can manage data of books using this module.
- Admin can view/confirm/cancel registration requests from users as delivery persons.

2) Billing module

- Provides functions to view books purchased.
- Provides functions to do payment for purchased books.
- Receipts will be generated using this module.

3) Login/sign in:

- Provides registration facility.
- Provides login facility.
- Provides logout facility.

4) User Details:

A module to a view data of profile of all users by admin. It includes first name, last name, username, email, address, phone number, track orders, refunds, past orders etc.

5) Book details:

- Allows to view categories of book.
- A module to view data of all books by admin. It includes book name, category, ratings, price, edition, author.

6) My Profile module:

 It provides functions to individual users to view and manipulate personal information.

7) Selling/ Reselling module:

- It gives facility to seller to add books to sell by giving details like front cover photo, summary, price, etc.
- It gives reseller facility to add books to sell and to specify condition of the book.

8) Buying module:

- It allows buyer to add book to their cart.
- It allows user to buy books and do payment.
- It allows you to specify destination address where the book is to be delivered.
- It allows user to specify the quantity of the book.
- It allows you to select payment method (online payment/cash on delivery).
- It allows you to view summary which contains date of delivery, delivery address, payment method, price details.

9) Delivery module:

- It allows you to view seller's address and the buyer's address for delivery person.
- It allows the delivery person to view orders assigned to them for delivery.
- It allows delivery person to view contact number of seller and buyer.
- It provides delivery confirmation with OTP.

> USERS OF THE SYSTEM

- Admin
- Seller
- Buyer
- Delivery person

> MAIN ROLES OF THE USER.

Admin:

- 1. Can log in/log out of the system.
- 2. Can view/edit/delete the offer details.
- 3. Can manage all user accounts and (can also create delivery person's account).
- 4. Can manage details of book sold.
- 5. Can check payment done by buyers.

Seller:

- 1. Can log in/log out of the system.
- 2. Can post thier books to sell.
- 3. Can modify their profile details.
- 4. Can view/edit/delete details of book.
- 5. Can see book details sold from their shop.
- 6. Can view orders assigned.

Buyer:

- 1. Can log in/log out of the system
- 2. Can place an order of book.
- 3. Can resell books after taking resell subscription.
- 4. Can modify profile details.
- 5. Can give review on the ordered book.
- 6. Can search for a book.
- 7. Can view/add/remove books to their cart.

Delivery person:

- 1. Can view orders assigned to them.
- 2. Can log in/ log out of the system.
- 3. Will give the OTP for confirmation.

4. System Design

4.1 System Flow Diagram

mbols used are :-		
Y	Start/Stop	
	Process	
	Decision	

Table – 4.1

1] Admin :-

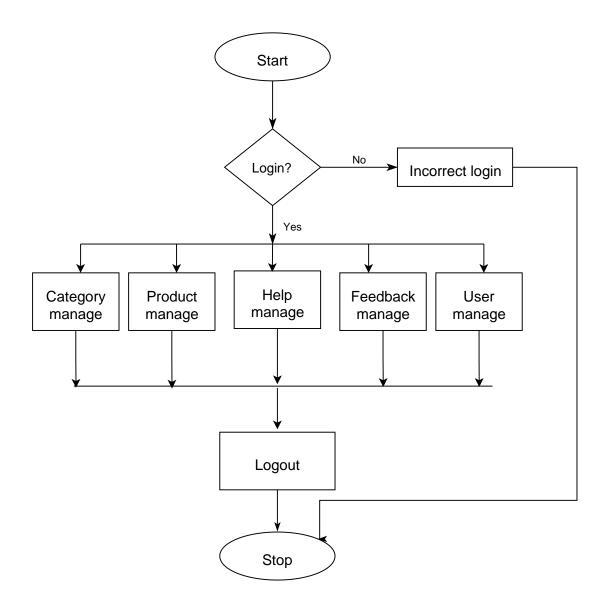


Fig - 4.1.1

2] Buyer :-

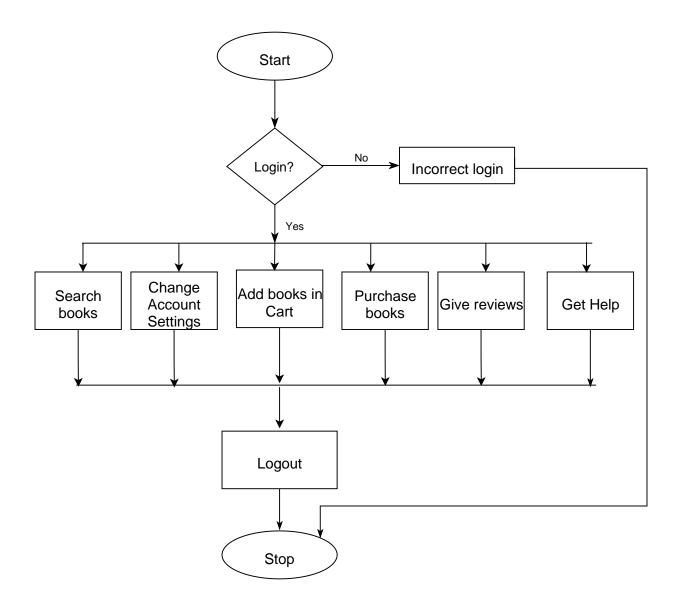


Fig - 4.1.2

3] Seller/Reseller:-

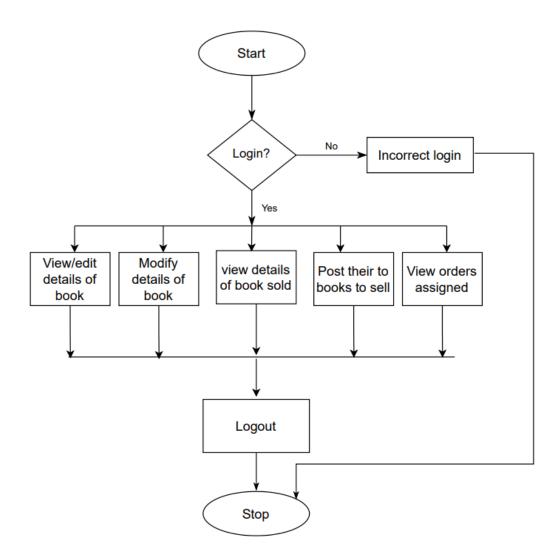


Fig-4.1.3

4] Delivery Person:-

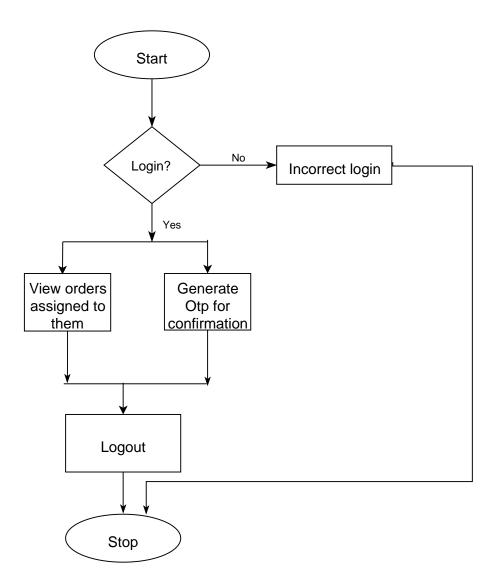


Fig – 4.1.4

4.2 Use Case Diagram

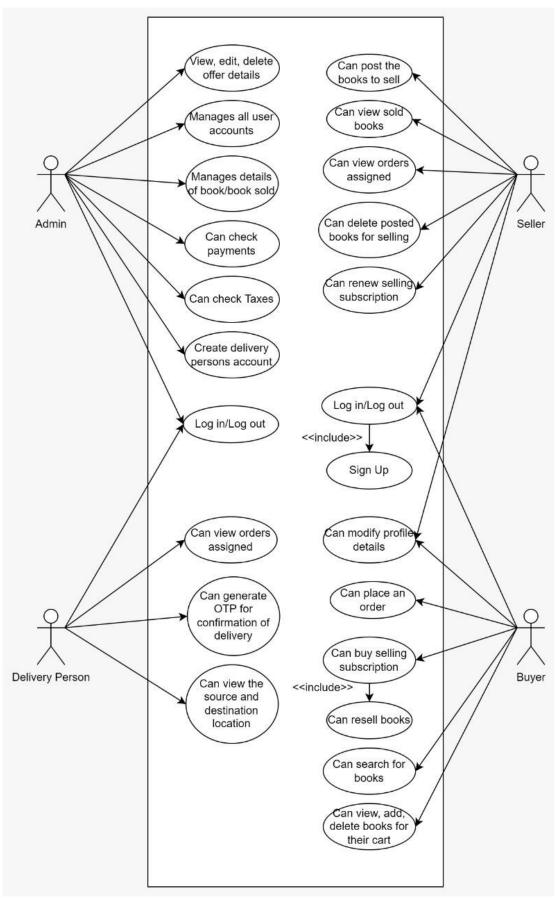


Fig - 4.2

4.3 Data Flow Diagram (DFD)

≻ Level-0 :-

Level 0

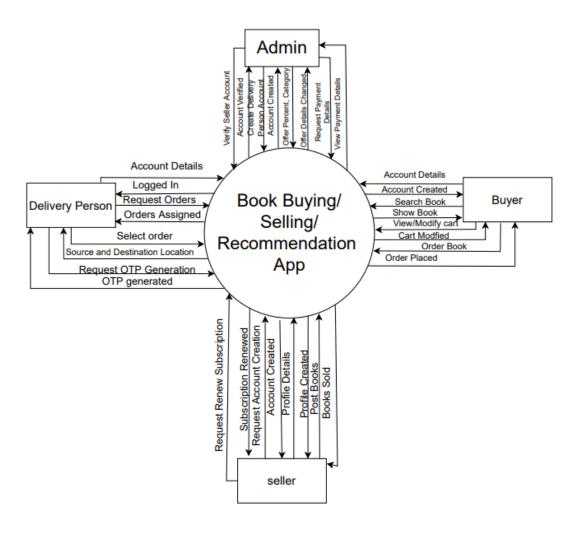


Fig-4.3.1

> Level-1 :-

Level 1

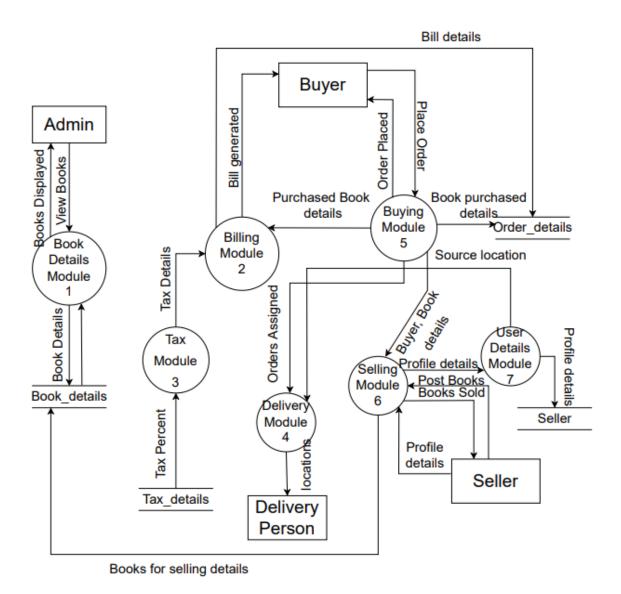


Fig-4.3.2

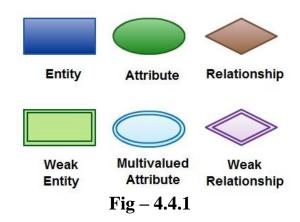
≻ Level-2 :-

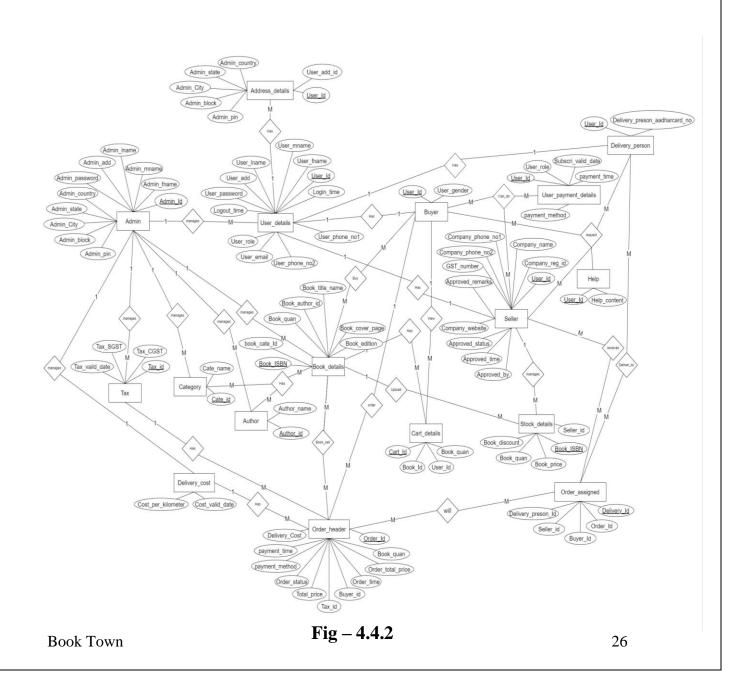
Level 2 Seller Request to Add New Category Request to Add New Book Add/Post Books To Sell Add Books To Resell Request Orders Assigned Renew Subscription Profile Details Modify Book Count Book Counts Modified Verify Category Verification Selling Module Book Admin Details Admin Add new Book 6.1 Module New Category Added Verify Title Module New Title Added New Book Added Profile Details Subscription Pending Orders Renewed Request Orders Assigned Orders_assigned Seller Pending Orders Book Details Seller Add New Title

Fig-4.3.3

Add New Category

4.4 Entity Relationship Diagram(ERD)





4.5 Data Dictionary

Table:- Admin

Description:- This table contains all the login details of admin.

Field name	Data Type	Size	Constraints
Admin_Id	Varchar	20	Primary Key
Admin_fname	Varchar	20	Not Null
Admin_mname	Varchar	1	Not Null
Admin_lname	Varchar	20	Not Null
Admin_Password	Varchar	20	Unique, Not
			Null
Admin_add	Varchar	200	Not Null
Admin_country	Varchar	20	Not Null
Admin_state	Varchar	20	Not Null
Admin_city	Varchar	30	Not Null
Admin_block	Varchar	20	Not Null
Admin_pin	Number	6	Not Null

<u>Table</u>:- User_details

Table – 4.5.1

Description:- This table contains all the details about all users.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Primary Key
User_fname	Varchar	20	Not Null
User_mname	Varchar	1	Not Null
User_lname	Varchar	20	Not Null
User_password	Varchar	20	Unique,
			Not Null
User_add	Varchar	200	Not Null
User_phone_no1	Varchar	10	Not Null
User_phone_no2	Varchar	10	-
User_email	Varchar	50	Unique,
			Not Null
User_role	Varchar	15	Not Null
Login_time	Datetime	-	Not Null
Logout_time	Datetime	-	Not Null

Table – 4.5.2

<u>**Table</u>**:- Address_details</u>

Description:- This table contains all details about address of all users.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Foreign Key
User_add_id	Varchar	20	Primary Key
User_country	Varchar	20	Not Null
User_state	Varchar	20	Not Null
User_city	Varchar	30	Not Null
User_block	Varchar	30	Not Null
User_pin	Number	6	Not Null

Table – 4.5.3

<u>Table</u>:- seller_user_reg

Description:- This table contains all details about the seller.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Foreign Key
Company_reg_id	Varchar	25	Unique,
			Not Null
Company_name	Varchar	50	Not Null
Company_reg_doc	Binary	-	Not Null
Company_phone_no1	Varchar	10	Not Null
Company_phone_no2	Varchar	10	-
Company_website	Varchar	100	-
GST_number	Varchar	15	Unique,
			Not Null
Approved_status	Boolean	-	Not Null
Approved_remarks	Varchar	100	-
Approved_by	Varchar	20	Foreign Key
Approved_time	Datetime	-	Not Null
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.4

Table:- buyer_user_reg

Description:- This table contains all details about the buyer.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Foreign Key
User_gender	Varchar	5	Not Null

Table – 4.5.5

<u>Table</u>:- Delivery_person

Description:- This table contains all details about the Delivery person.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Foreign Key
Delivery_person_aadharcard_no	Varchar	12	Unique,
			Not Null

Table – 4.5.6

Table: Category

Description:- This table contains all the categories (Subjects) of the books.

Field name	Data Type	Size	Constraints
Cate_id	Varchar	20	Primary Key
Cate_name	Varchar	30	Not Null
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.7

Table:- author

Description: - This table contains all the authors of whom books are available.

Field name	Data Type	Size	Constraints
author_id	Varchar	20	Primary Key
author_name	Varchar	50	Not Null
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.8

<u>**Table</u>**:- Book_Details</u>

Description:- This table contains all information about books.

Field name	Data Type	Size	Constraints
book_ISBN	Varchar	13	Primary Key
book_cate_id	Varchar	20	Foreign Key
Book_title_name	Varchar	100	Not Null
Book_author_id	Varchar	20	Foreign Key
Book_edition	Varchar	4	-
Book_quan	Number	5	Not Null
Book_cover_page	Binary	-	Not Null
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.9

<u>Table</u>:- Stock_Details

Description :- This table contains all information about seller stock.

Field name	Data Type	Size	Constraints
book_ISBN	Varchar	13	Primary Key
Seller_id	Varchar	20	Foreign Key
Book_price	Number	5	Not Null
Book_quan	Number	5	Not Null
Book_discount	Number	4,2	-
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.10

<u>**Table</u>**:- tax_details</u>

Description:- This table contains the details of all taxes.

Field name	Data Type	Size	Constraints	
tax_id	Varchar	20	Primary Key	
tax_CGST	Number	3	Not Null	
tax_SGST	Number	3	Not Null	
Tax_valid_date	Datetime	-	Not Null	
Created_date	Datetime	-	Not Null	
Created_by	Varchar	20	Foreign Key	
Modify_date	Datetime	-	Not Null	
Modify_by	Varchar	20	Foreign Key	

Table – 4.5.11

<u>Table</u>:- cart_details

Description:- This table contains all the details of the buyer's cart.

Field name	Data Type	Size	Constraints
Cart_id	varchar	20	Primary Key
Book_id	Varchar	20	Foreign Key
User_id	Varchar	20	Foreign
			Key,
			Not Null
Book_quan	Number	5	Not Null
Created_date	Datetime	-	Not Null
Created_by	Varchar	20	Foreign Key
Modify_date	Datetime	-	Not Null
Modify_by	Varchar	20	Foreign Key

Table – 4.5.12

<u>Table</u>:- order_header

Description:- This table contains all the main order details of all users.

Field name	Data Type	Size	Constraints
order_id	Varchar	20	Primary Key
Order_total_price	Number	5	Not Null
Book_quan	Number	5	Not Null
Order_time	Datetime	-	Not Null
Order_add	Varchar	100	-
buyer_id	Varchar	20	Foreign Key
Tax_id	Varchar	20	Foreign Key
Total_price	Number	5	Not Null
Order_status	Varchar	10	Not Null
Payment_method	Varchar	10	Not Null
Payment_time	Datetime	-	Not Null
Delivery_cost	Number	5	Not Null

Table – 4.5.13

<u>Table</u>:- order_details

Description:- This table contains all the order details of all users.

Field name	Data Type	Size	Constraints	
order_id	Varchar	20	Foreign Key	
Book_ISBN	Varchar	13	Foreign Key	
Seller_id	Varchar	20	Foreign Key	
Book_quan	number	5	Not Null	
Total_price	Number	5	Not Null	
Created_date	Datetime	-	Not Null	
Created_by	Varchar	20	Foreign Key	
Modify_date	Datetime	-	Not Null	
Modify_by	Varchar	20	Foreign Key	

Table – 4.5.14

<u>Table</u>:- order_assigned

Description: This table contains all the details of the order assigned to the Delivery person.

Field name	Data Type	Size	Constraints	
Delivery_id	varchar	20	Primary Key	
Delivery_person_id	Varchar	20	Foreign Key	
order_id	Varchar	20	Foreign Key	
seller_id	Varchar	20	Foreign Key	
Buyer_id	Varchar	20	Foreign Key	
Created_date	Datetime	-	Not Null	
Created_date	Datetime	-	Not Null	
Created_by	Varchar	20	Foreign Key	
Modify_date	Datetime	-	Not Null	

Table – 4.5.15

<u>**Table:-**</u> user_payment_details

Description:- This table contains all the payment details of all users.

Field name	Data Type	Size	Constraints
User_id	Varchar	20	Foreign
			Key,
			Not Null
User_role	Varchar	15	Not Null
Payment_method	Varchar	10	Not Null
Subscri_valid_date	Datetime	-	Not Null
Payment_time	Datetime	-	Not Null

Table – 4.5.16

Table:- help

Description:- This table contains the details about help.

Field name	Data Type	Size	Constraints	
Help_id	varchar	20	Primary Key	
Help_content	Varchar	200	Not Null	
Created_date	Datetime	-	Not Null	
Created_by	Varchar	20	Foreign Key	
Modify_date	Datetime	-	Not Null	
Modify_by	Varchar	20	Foreign Key	

Table – 4.5.17

<u>**Table</u>**:- Delivery_Cost</u>

Description: This table contains the details about cost of Delivery charge per kilometer.

Field name	eld name Data Type Size		Constraints	
Cost_per_kilpmeter	Number	3	Not Null	
Cost_valid_date	Datetime	ı	Not Null	
Created_date	Datetime	ı	Not Null	
Created_by	Varchar	20	Foreign Key	
Modify_date	Datetime	-	Not Null	
Modify_by	Varchar	20	Foreign Key	

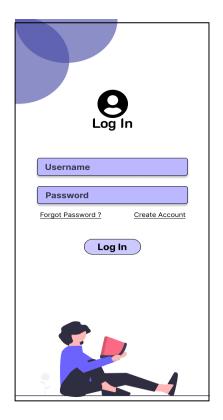
Table – 4.5.18

4.6 System Design

> Admin Login :-



➤ User Login :-



> User Registration :-



GROUP NO: M13

➤ My Profile :-

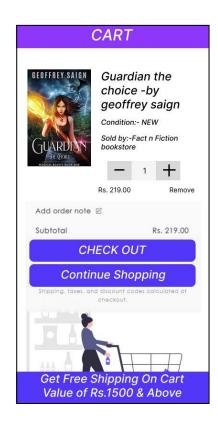


GROUP NO: M13

➤ Home Page :-



Cart :-

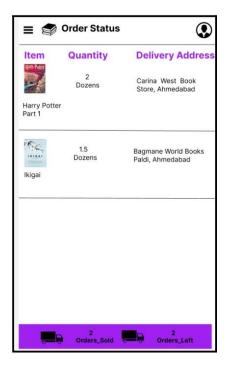


GROUP NO: M13

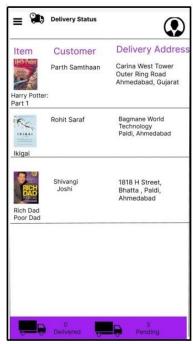
> Buyer Orders :-



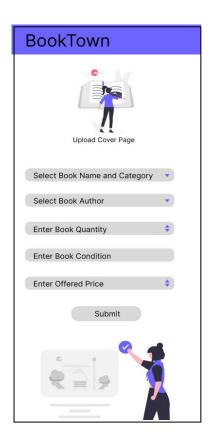
> Seller Orders :-



> Delivery Person orders :-



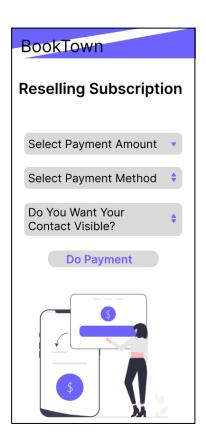
➤ Post Book :-



> Recommendation page :-



> Subscription :-



➤ Help:-



5. System Design

5.1 Limitation of project

- The proposed system is developed to overcome the shortcomings of current system but still there are some limitations. They are:
 - We have not developed website for online book shopping/selling.
 - Though we take subscription and verify document to authorize and authenticate seller, there are small chances for entry of fake details of book.

5.2 Conclusion

- Online book store has much more advantages than the offline store such as the customer's convenience where the user can buy book at his/her fingertips and unlimited capacity to hold the book titles and the easy accessibility of user where he/she can buy book from any place and be delivered to there doorstep.
- But, when a user visit a app by seeing the app interface they decide whether it will be good or not.
- That is why we have made an app which has a good interface and provides the user with good navigation system and the app will be more lively to the user.it is an e-commerce app that will sell ,resell and recommend user with all sorts of books but the main thing is that focuses more on the selling and reselling local books.

5.3 Future Scope

• The growth of technology enhances the scope of online presence bookselling, easily purchasable, and online hardcopy delivery.

- Further in future, we would like to increase our business all over
 India instead of just one city
- If you are a self-publisher, then you have complete authority over your book, and the publishing cost is not so high, which makes publishing work more accessible and professional. (seller can sell books, and also if an individual is himself a writer)
- In this fast going world full of advanced technology it would be easier for people to buy books online instead of going to a shop
- Self-published authors are the bestseller in today's time, which is clearly showing the demand for Indian authors. (best way for new comers)
- In this era, online marketing is going global. The number of people with the hobby of reading, increase book sale day by day.
- With online bookselling and reselling apps, it will be easier for people to resell their books online without having a need to go to a shop, and also foreign authors, local publishers, and self-publishers don't need to go anywhere to sell their books

6. Bibliography and Reference

GROUP NO: M13

- ➤ https://www.diagrams.net/
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