

SHAREADS

Peer-to-Peer Book Rental Service



Final Project Report

CSE519: HCI
(Human Computer Interaction)

Submitted To:
Prof. Anurag Lakhani

Team Hydra:



Samarth Shah
AU1841145



Priyank Sangani
AU1841136



Parth D. Patel
AU1841123



Meet Kadiya
AU1841099

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Chapter - 1 Introduction

- **Motivation:**

ShaReads is basically going to be a responsive website. The website is focused on developing a platform for renting books between the student in their universities. This will help students to get books they need at a lower cost and help in their better education.

- **Overview:**

- ShaReads is a responsive web portal through which students can rent their books across their university.
- It may happen sometimes that students require books that are not available in the library or have been issued by some other student.
- In these kinds of situations, ShaReads can turn out to be a blessing for those students who want the book for a certain period of time.
- ShaReads provides students a platform to rent the book from the students across their university and use it.
- ShaReads also provides an option to share the student's book and can also make money out of the rents received. So the lenders can help the needy students and also can make money out of it. Lenders will also have the power to specify the time period and rental amount for their books.
- Also if the student desired book is not available then ShaReads provide an option of requesting book availability.

- **Overview (Cont.):**

- This feature helps to know which books are in need and if some students have those books then that student can immediately lend those books.
- ShaReads will also notify their users of the availability of the needed books via E-Mails.

- **Market Survey:**

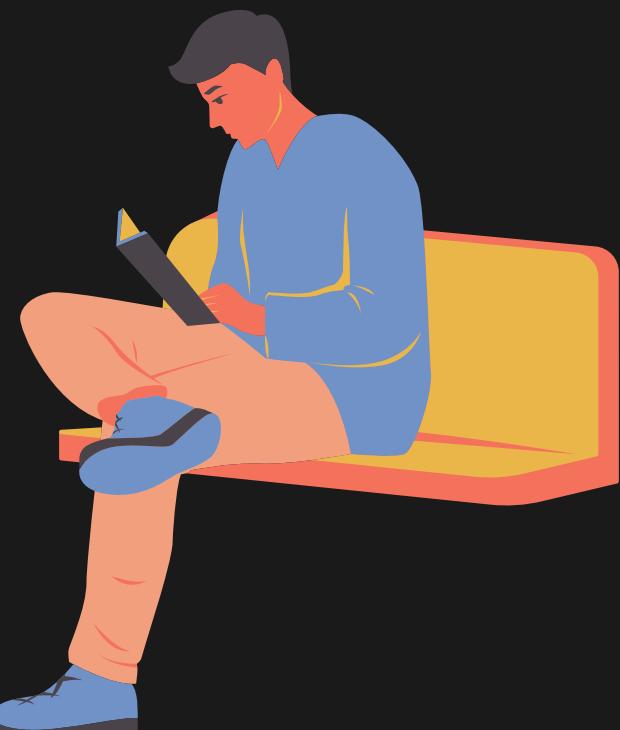
1. Amazon United States:

- Amazon has created a system where you can rent any book from their website in the United States if it has the option of renting along with buy new or old book. The way they have implemented book rental is that the user can choose the period for renting the book being 15,30,90 days or for a whole semester if the user is student.
- If the User wants to buy the book in the rental period he/she can do it just by paying the listed price of the book. Amazon has also understood the targeted users which are mostly the students and have kept some special offers like low cost rentals and fast delivery for them with amazon prime student

- Market Survey (Cont.):

2. Just Books:

- Just Books has created a system where you can rent any book from their website. you can take more than one book on rent for long period of time like 3,6,9,12,24,48 months. it has the option of renting along with buy new or old book.
- They give some special offers like low cost rentals and fast delivery at home for free and they will pick them up once we are done with just book Primus membership. they give us an popular authors option available. where you can see all the book are given by particular author. Which books are more readable they put it into the most read option.
- One of the best thing about this website is there you can also donate books for some needy peoples.



- Market Survey (Cont.):

3. Door Step Books:

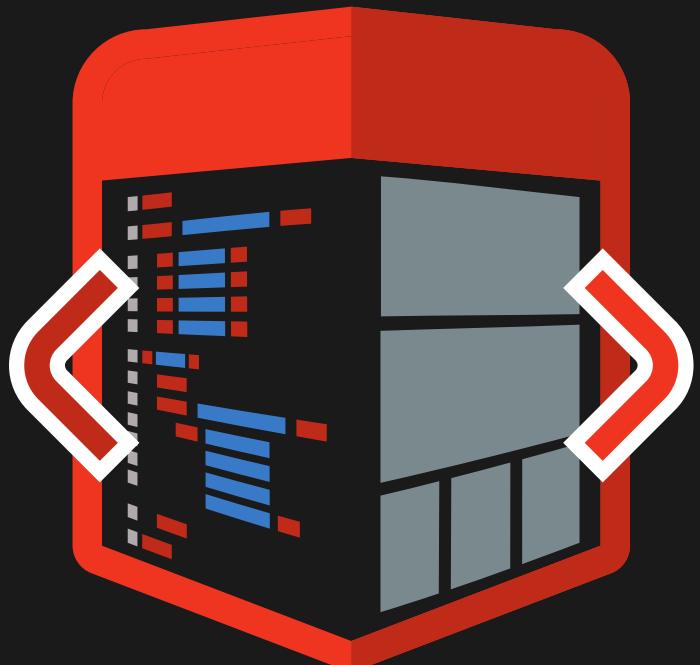
- Doorstep Books is a web portal that provides a book for rent. First, every user has to buy its membership. This membership plan varies according to the no. of books users can order per month. There are various categories of books available to order like the bestseller, award-winning, and more.
- The user can make their booklist according to their priority. They will provide free book delivery at the user's doorstep within 2-3 working days. Once the book is delivered, the user can read the book as long as he/she has an active membership plan. After reading the book, the user can get free pickup of the rented book.



Chapter 2: Details of Tools

- **Brief Description of Facilities available:**

- **WordPress** is a free and open-source content management system written in PHP and paired with a MySQL or MariaDB database. Features include a plugin architecture and a template system, referred to within WordPress as Themes
- **.HTML** is a markup language that allows for static page creation on the web. Websites use HTML and other such markup languages to host web content. One must need coding skills to use HTML for website creation. Apart from HTML, CSS, JavaScript and other languages are also used for the same.
- **Wix.com** Ltd. is an Israeli software company, providing cloud-based web development services. It allows users to create HTML5 websites and mobile sites through the use of online drag and drop tools.



• Brief Description of Facilities available:

- HTML stands for Hyper Text Markup Language. HTML is the standard markup language for creating Web pages. HTML describes the structure of a Web page.
- Every website user opens in browser, from social networks to music services, uses HTML.
- Together, HTML, CSS, and JavaScript make up the essential building blocks of websites, with CSS controlling a page's appearance, and JavaScript programming its functionality.
- Front-end developers use HTML elements to specify what kind of information each item on a web page contains — for instance, the “p” element indicates a paragraph.
- Developers also write HTML code to specify how different items relate to one another in the overall structure of the page.



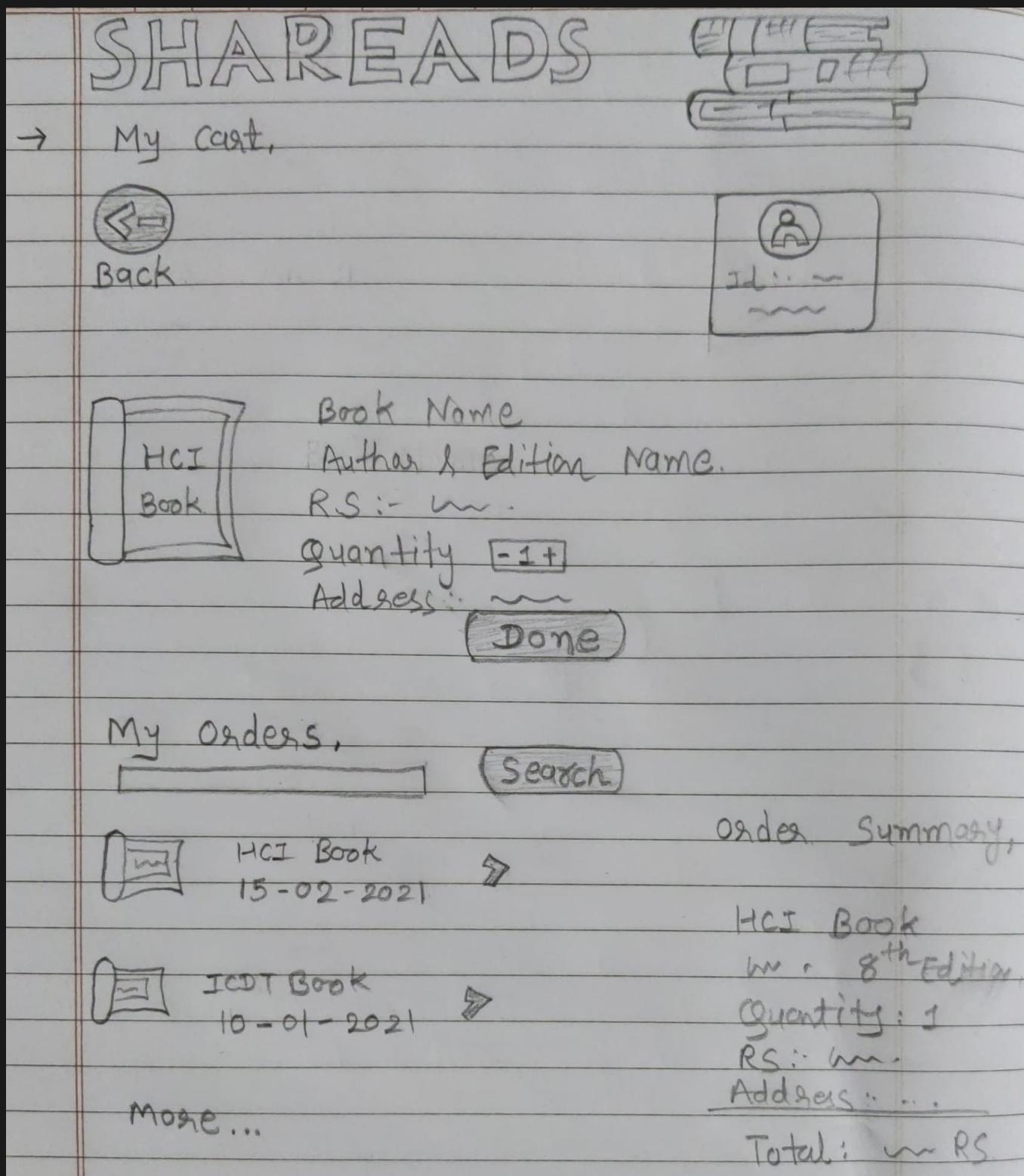
Chapter 2: Details of Tools

- Comparison table with other tools:

HTML/ CSS	Wix.com	Wordpress
Markup language	Content management system	Content management system
Very flexible (user can change any part he/she want to do)	Not that flexible	Flexible
Requires basic knowledge of coding	No knowledge required	Requires basic knowledge of coding
We Can make any layout we want	We Can make any layout we want	We Cannot make any layout we want
It is completely free	May charge you for some features	May charge you for some features
No or very less maintenance is required	Time to time small amount of maintenance is required	Time to time maintenance is required
Relatively slow	Moderate	Fast

Chapter 3: Project Planning and Preparation

- Pen-Paper designs of screens (1/12)



Chapter 3: Project Planning and Preparation

- Pen-Paper designs of screens (2/12)

Login and Signup Page - Part 1-AU2 84 1123

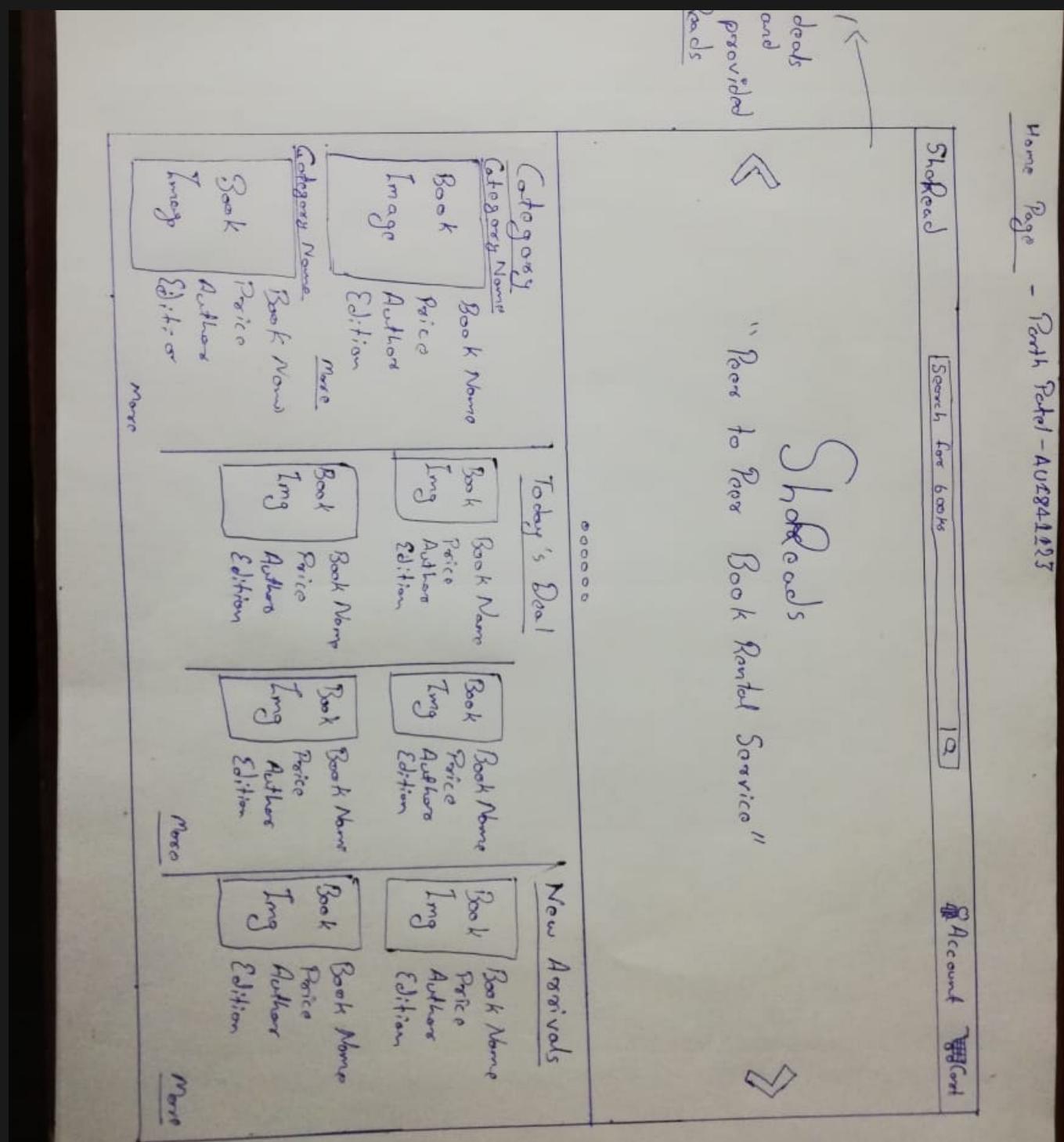
ShaRodels

<u>Login</u>	<u>Signup</u>
<input type="text"/> Email	<input type="text"/> Email
<input type="text"/> Password	<input type="text"/> Name
<input checked="" type="checkbox"/> Forgot Password?	<input type="text"/> Mobile number
<input type="button" value="Login"/>	<input type="text"/> Password
OR	
<input type="button" value="Signup with Facebook"/>	<input type="checkbox"/> I have read the Terms and Conditions
<input type="button" value="Signup with Google"/>	
<input type="button" value="Signup with Twitter"/>	<input type="button" value="Sign Up"/>

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und
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Chapter 3: Project Planning and Preparation

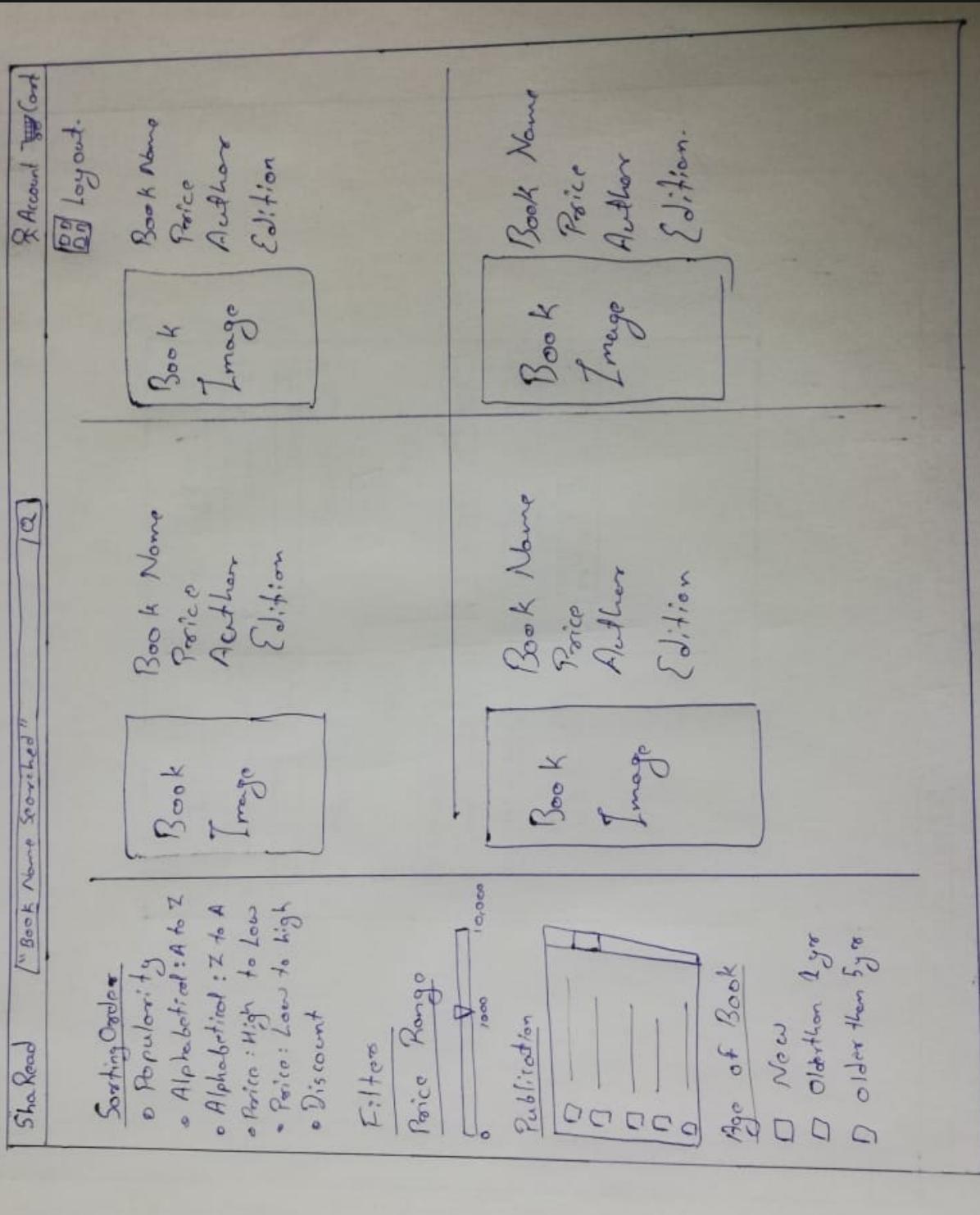
• Pen-Paper designs of screens (3/12)



Book Catalogue - PARTH PATEL-AUT 841123

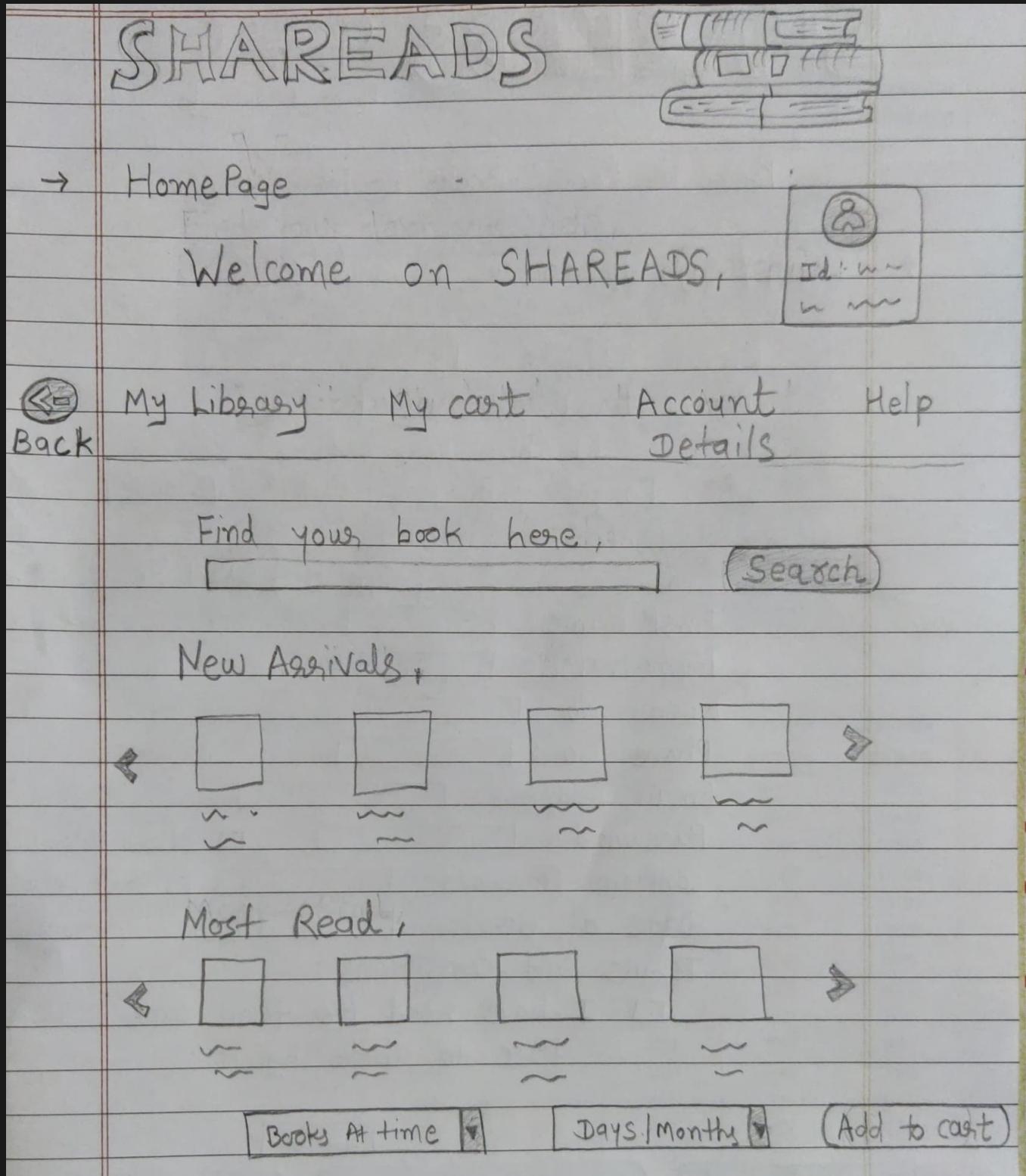
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (4/12)



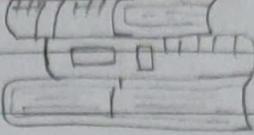
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (5/12)



Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (6/12)

SHAREADS 

"Peer to Peer Book Rental Service"

→ Login / Sign Up **Login**

Email Address :

Password :

Show Password

Forgot your Password **Done**

Sign Up

First Name :

Last Name :

Enroll. No :

Phone. No :

Email Address :

Password : show Password

Confirm Password : show Password

Date of Birth :

Terms And Conditions :

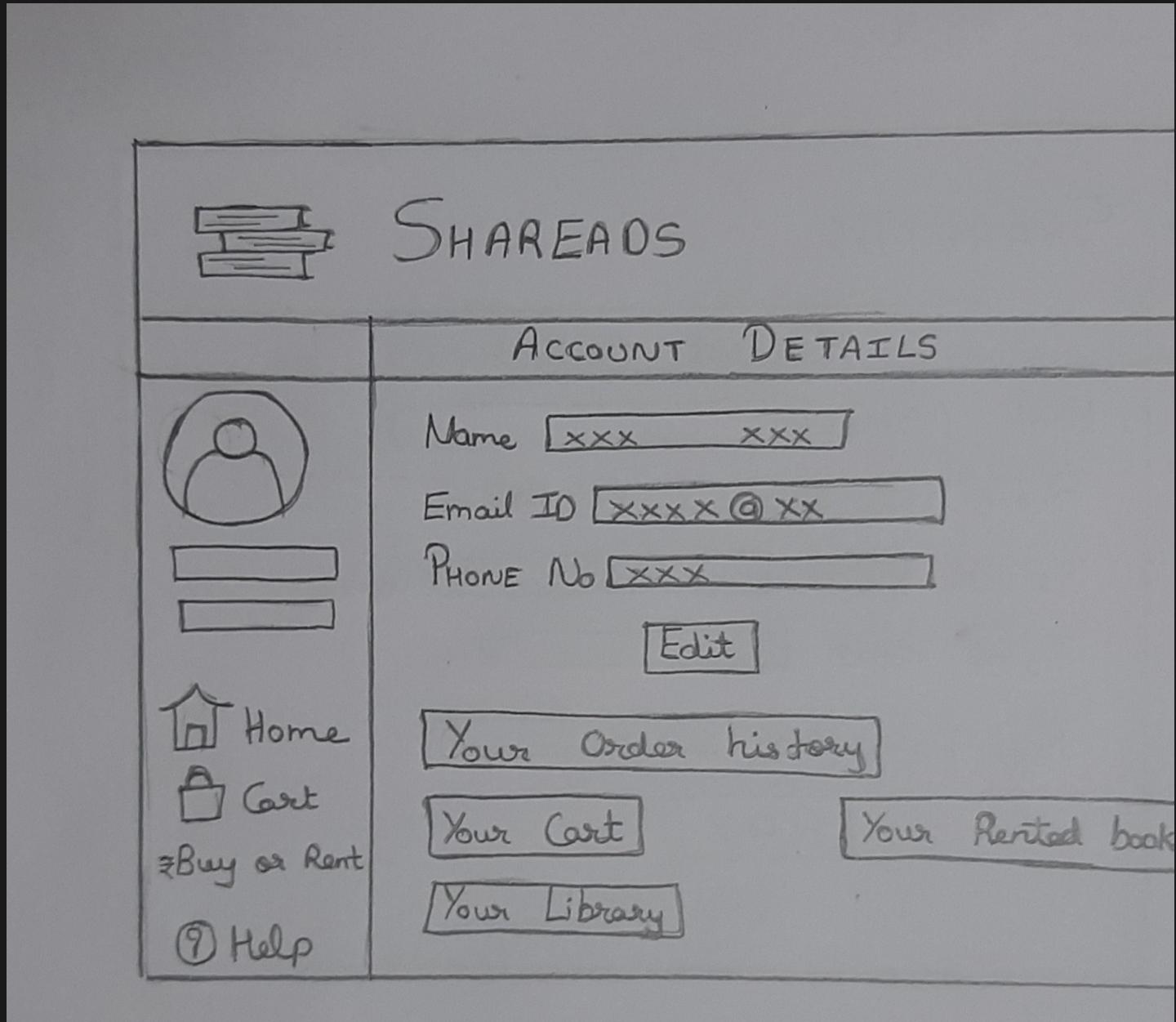
I have read the term and agree to abide by it.

Done

(Sign Up with Facebook) (Sign Up with Google) (Sign Up with Twitter)

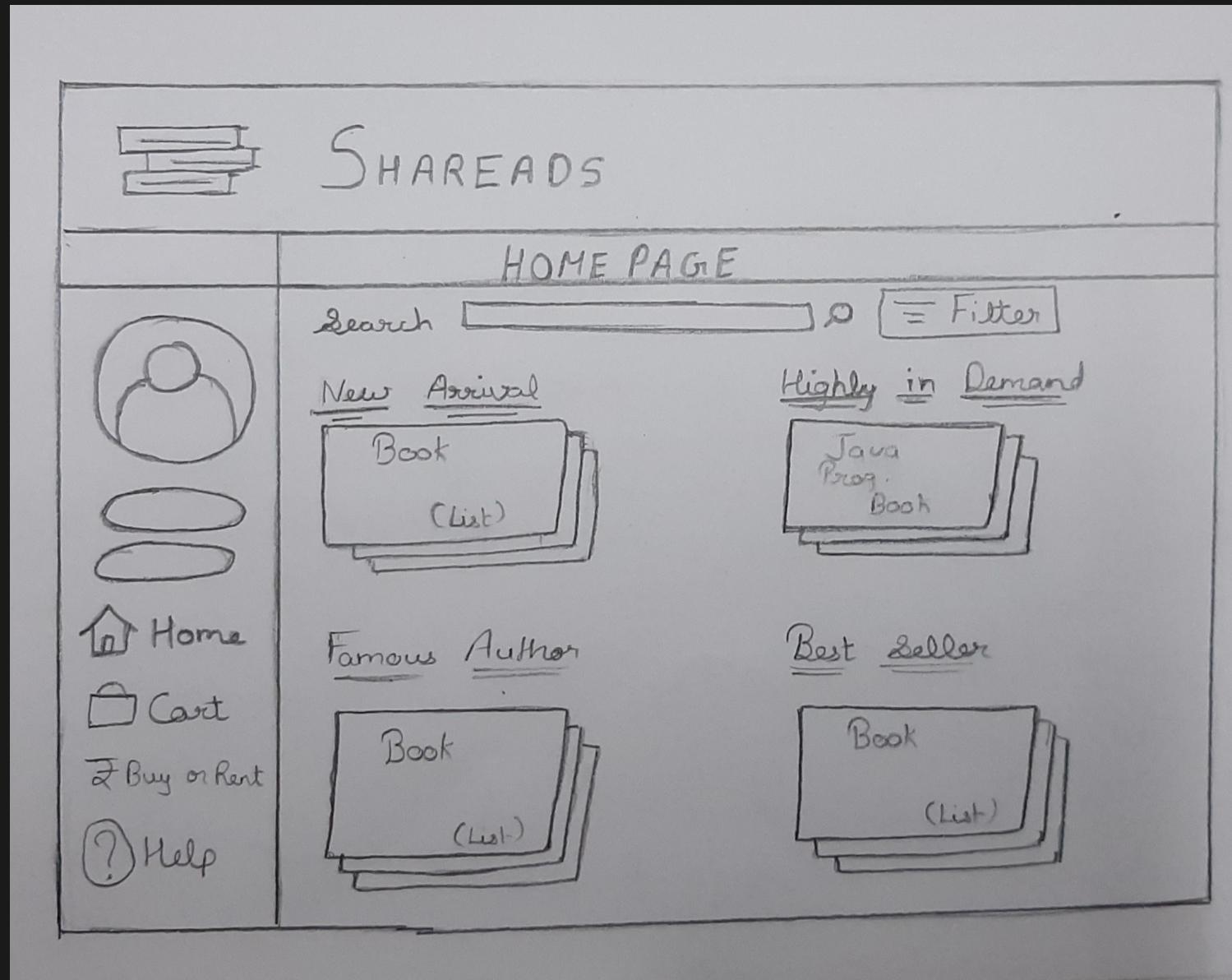
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (7/12)



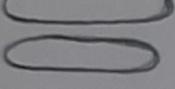
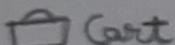
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (8/12)



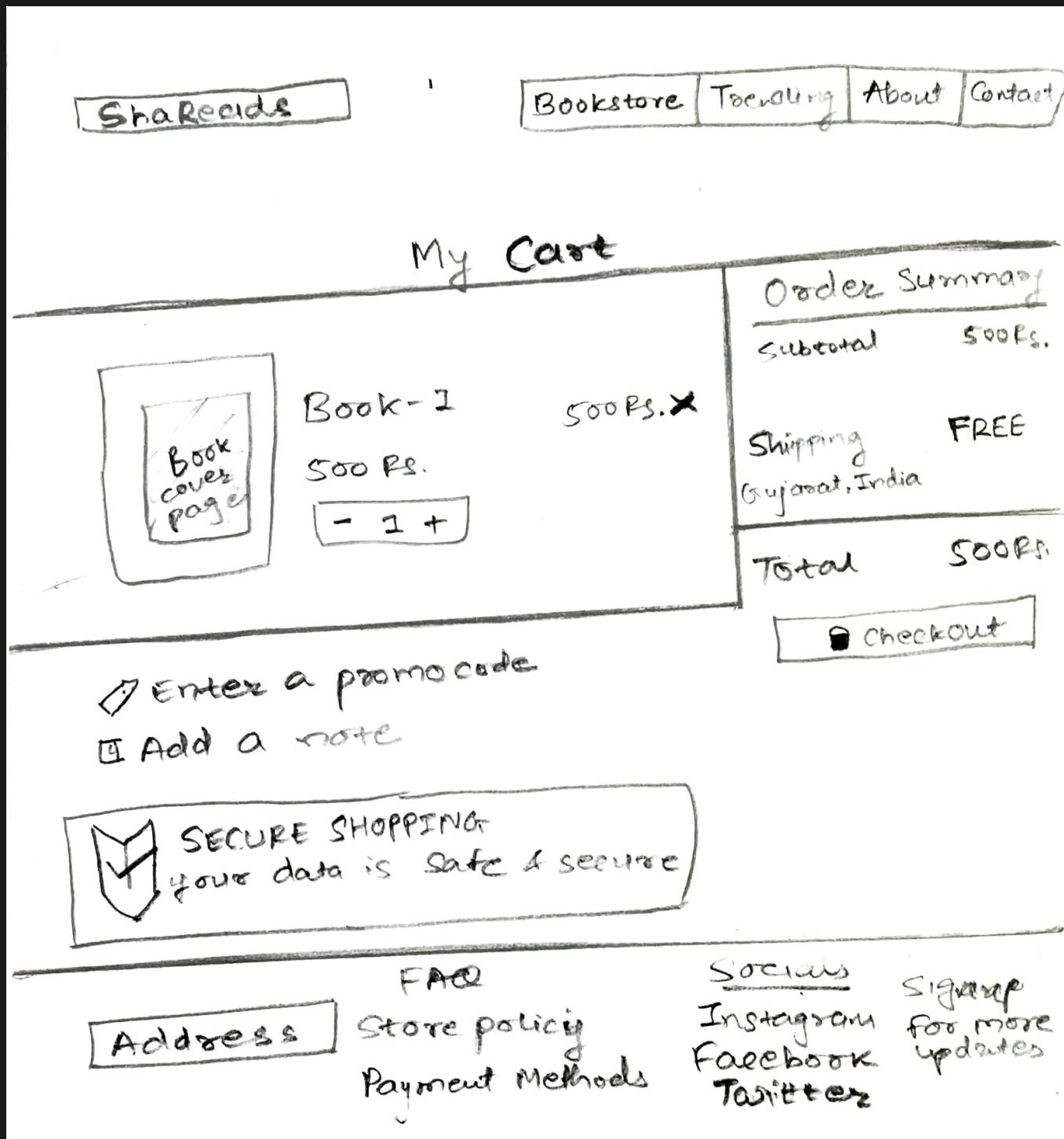
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (9/12)

SHAREADS	
	Payment Confirmation
   ₹ Buy or Rent ? Help	<p>Book Name: <input type="text"/></p> <p>From Date <input type="text"/> to Date <input type="text"/></p> <p>Rented from <input type="text"/> (Name)</p> <p>Total Rent <input type="text"/> ₹</p> <p>Pay from A/c <input type="text"/></p> <p>PAY</p>

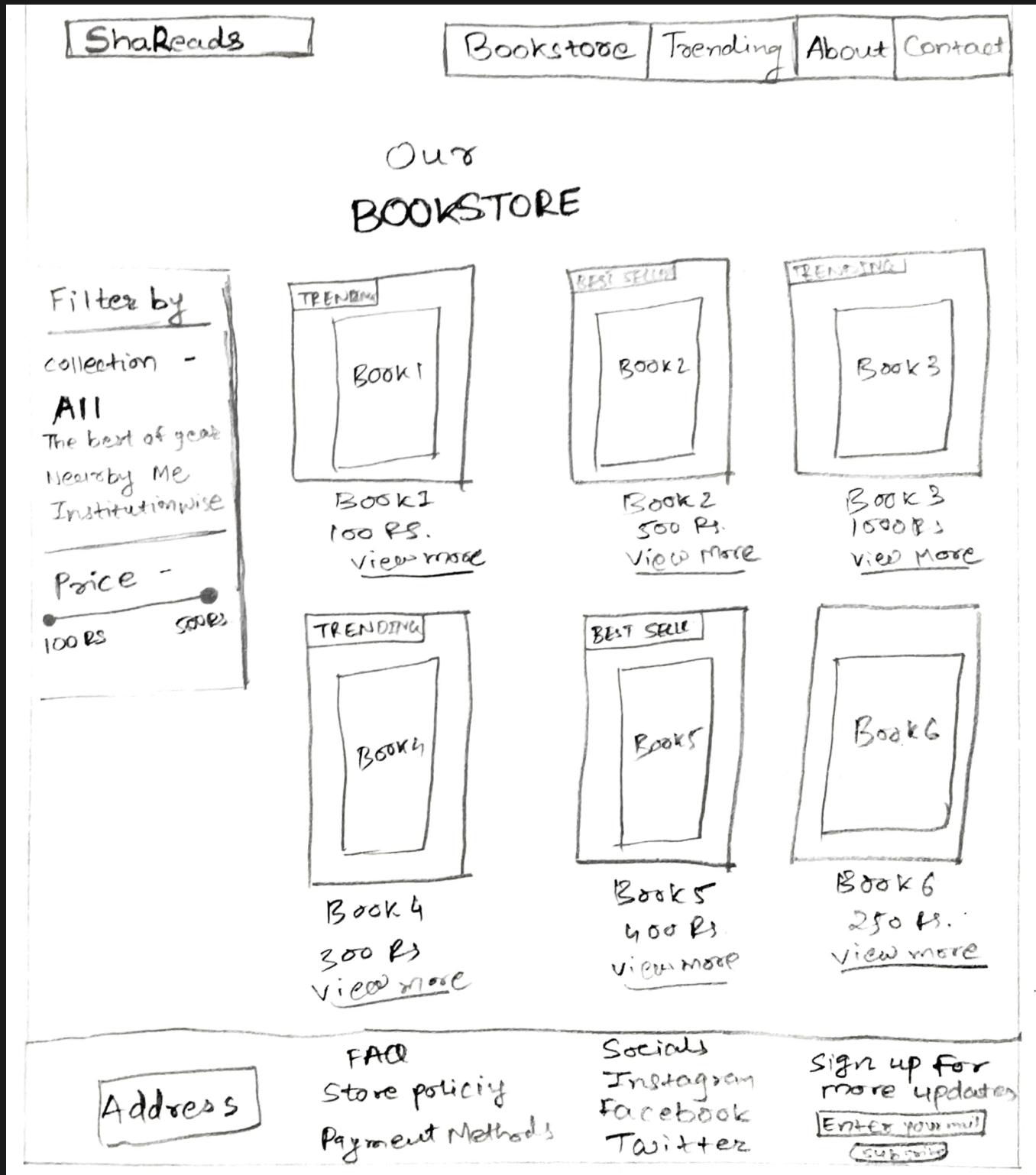
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (10/12)



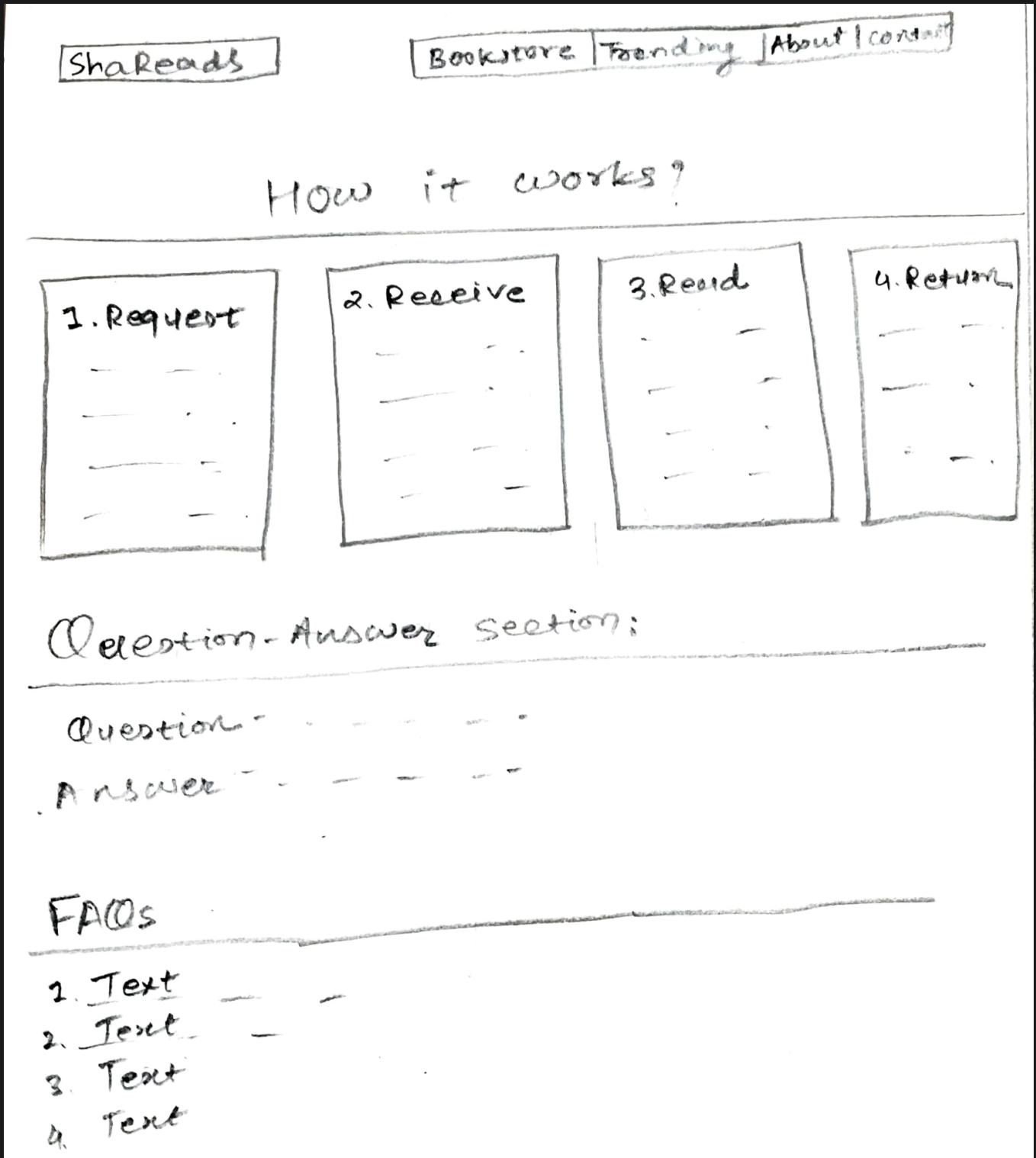
Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (11/12)



Chapter 3: Project Planning and Preparation

• Pen-Paper designs of screens (12/12)



• Persona Development: (1/4)

Demographic:

Age: 20

Location: Ahmedabad

Education: Computer Engineer

Goals:

- Discovering new books/authors to read
- Finding unique stories
- Cataloging book collections

Reading Habits:

- Face pace reader
- Likes to read lent books
- Likes hardcovers and book collections
- Always finishes a book
- Love binge reading and re-reading

Frustrations:

- Some books are too costly to buy
- Forgetting a book launch date
- Finding space for more books



Yash Patel

"The book is way better than a movie"

• Persona Development: (2/4)

Demographic:

Age: 22

Location: Ahmedabad

Education: Computer Engineer

Goals:

- To learn everyday
- To develop good management skill
- To read books and stay motivated and knowledgeable
- To read, write and inspire

Reading Habits:

- Curious to read new books and gain new experience
- Read and adopt a new healthy mindset
- Interested in reading books related to Marketing management
- Love reading, learning, and also sharing experience and stories with others
- Read 1 book per week

Frustrations:

- Some interesting books are difficult to find.
- Some excellent books didn't come to my notice.
- Sometimes Price of books hinders me.

Harvey Specter

"A book is a garden, an orchard, a storehouse, a party, a company by the way, a counselor, a multitude of counselors"



• Persona Development: (3/4)

Demographic:

Age: 20

Location: Ahmedabad

Education: Chemical Engineer

Goals:

- Keep track of books easily and in one place
- Be certain he will like a book before committing to read it
- Find new book to read easily

Reading Habits:

- Like to read historical fiction book
- Pre order book to get them first
- Reads eBooks but prefer physical copies
- Re-read favourite books

Frustrations:

- Keeping track of different series



Thomas Shelby

"You can never get a cup of tea large enough or a book long enough to suit me"

• Persona Development: (4/4)

Demographic:

Age: 22

Location: Ahmedabad

Education: Computer Engineer

Reading Habits:

- Slow and steady reader
- Like to take books from libraries
- Read similar books at same time

Goals:

- To get more knowledge about topic he studies
- Understand how things work

Frustrations:

- Not finding the book in library
- Cost of the books



Sapan Verma

"People say that life is the thing, but I prefer reading"

• Scenario Description: (1/4)

- Patel Yash (20 yrs. old) is a student at Cambridge University. He likes to read books and also he is a scholar in studies. At the university, there are a total of 8 theory courses in this semester. He will have to buy 2 different books for each course.
- After the completion of the semester, most of these books are of no use to him. In this situation, he is willing to get a rented book for 4 months which is the best option for him. Also, he has a bookshelf where many books are of no use to him. He is looking for someone who can rent these books.
- This would generate a secondary source of income which would help him to manage daily expenses. This web-application will help these types of people who want to rent books or want to have rented books for a shorter time period.

• Scenario Description: (2/4)

- In our project one student who wants to read a particular book. but book is very costly so he doesn't want to spend that much money on a book that he will read only once. So on shareads he can search the book and take a book from his peer to get this book for some periods of time and give rent for this time.so he can save his money and read book. In sharead how many days are left for this book is displayed in order details. this is easy for peer.

• Scenario Description: (3/4)

- Suppose Prem is an Engineering student and he does not use his old semester books and he wants to sell or rent them to someone, but he is unable to find students who need it or someone who can buy/rent it.
- So Prem can use Shareads and can keep his book on rent on Shareads portal. Shareads reflect this new update in its database and now other users can see this book as 'available for rent'. This way he can help other users and also can earn money from the rent. Shareads also provides good security to user's book i.e no damage is done to the book and also strict protocols are designed if some other user damages it. Also if he feels that he has read the book and now he won't use it again then he can also sell the book.

• Scenario Description: (4/4)

- Let's assume Kishan who is a student at Ahmedabad University wants to read a particular book named X.
- Now, one would suggest that Kishan should issue the book from the library but the book is available in Library and he doesn't want to spend that much money on a book that he will read only once. In this situation, ShaRead may become handy as Kishan can search the book X that he wants to read and if some peer from his university or city has that book at the rent price he is willing to pay.
- By using our system Kishan can pay and contact his peer to get that book for a certain period of time he wishes to rent the book

Chapter 3: Project Planning and Preparation

• Use Case: (1/4)

- **Use Case of My Cart:**

- a. User open the web-application
 - b. Login credentials are filled-up
 - c. System matches credentials in backend
 - d. After approval user enters to homepage
 - e. User selects book which he wants to rent
 - f. As soon as the purchase button gets clicked, it gets added into cart.
 - g. System will notify user that 1 book has been added
 - h. User will click on the cart option
 - i. System will take him/her to cart webpage
 - j. System will display all information including pricing of the book
 - k. User will be notified if he/she has any promo codes
 - l. After confirming the details, User will click on the checkout option
 - m. System will lead him/her to the secure payment page
- Alternative courses:
 - k. If user wants to abort the transaction
 1. He/she will have to click on cancel option
 2. User will redirect to the cart webpage.

Chapter 3: Project Planning and Preparation

• Use Case: (2/4)

-> **Login Use Case** :-

Description :- This describes how a user can log into the book rental system. The actors starting in this use case will be students.

- Flow of Events:-

1. Basic Flow -

1. The system validates the actor' password and email and let him enter into the system home page
2. The system let the actor log through social media account.

2. Alternative Flow-

Actor might have mistyped/forgotten their mail or password then, they use the forgot password button

-> **Signup Use case**:-

Description :- This describes how a user can signup into the book rental system. The actors starting in this use case will be students.

- Flow of Events:-

1. Basic Flow -

1. The Actor gives their basic details and password to the system and the system will register them.Afterwards navigated to the home page.

Chapter 3: Project Planning and Preparation

• Use Case: (3/4)

Payment Process Use Case : When a user wants to buy or rent a book he/she can use this process.

The flow of Events:

1. The user enters the login credentials
2. On the homepage, the User search the book by name or author
3. List of books is displayed
4. User selects a book to buy or rent
5. User selects from which date to which date he/she wants to rent the book.
6. User has to accept the basic terms and conditions.
7. User has to select any payment method. (like Google pay, net banking, credit card, and many more)
8. User has to select the 'confirm payment' option to pay the rent.
9. User gets the book.

Alternate flow:

1. If the user enters the login credentials are not valid.
 - The software displays an error message.
 - Also the software remains at step 1) till valid credentials are not submitted.
4. User selects from which date to which date he/she wants to rent the book but if the book is not available for the whole time duration.
 - In this case the software returns to step 3)
6. If the User has to not accept the basic terms and conditions.
 - Then the software will not allow the user to continue and move to the next step.
 - The software remains at step 6) until the user accepts it.
8. If the User has to not select the 'confirm payment' option to pay the rent.
 - Then the software return to step 2) i.e Homepage

Chapter 3: Project Planning and Preparation

- **Use Case: (4/4)**

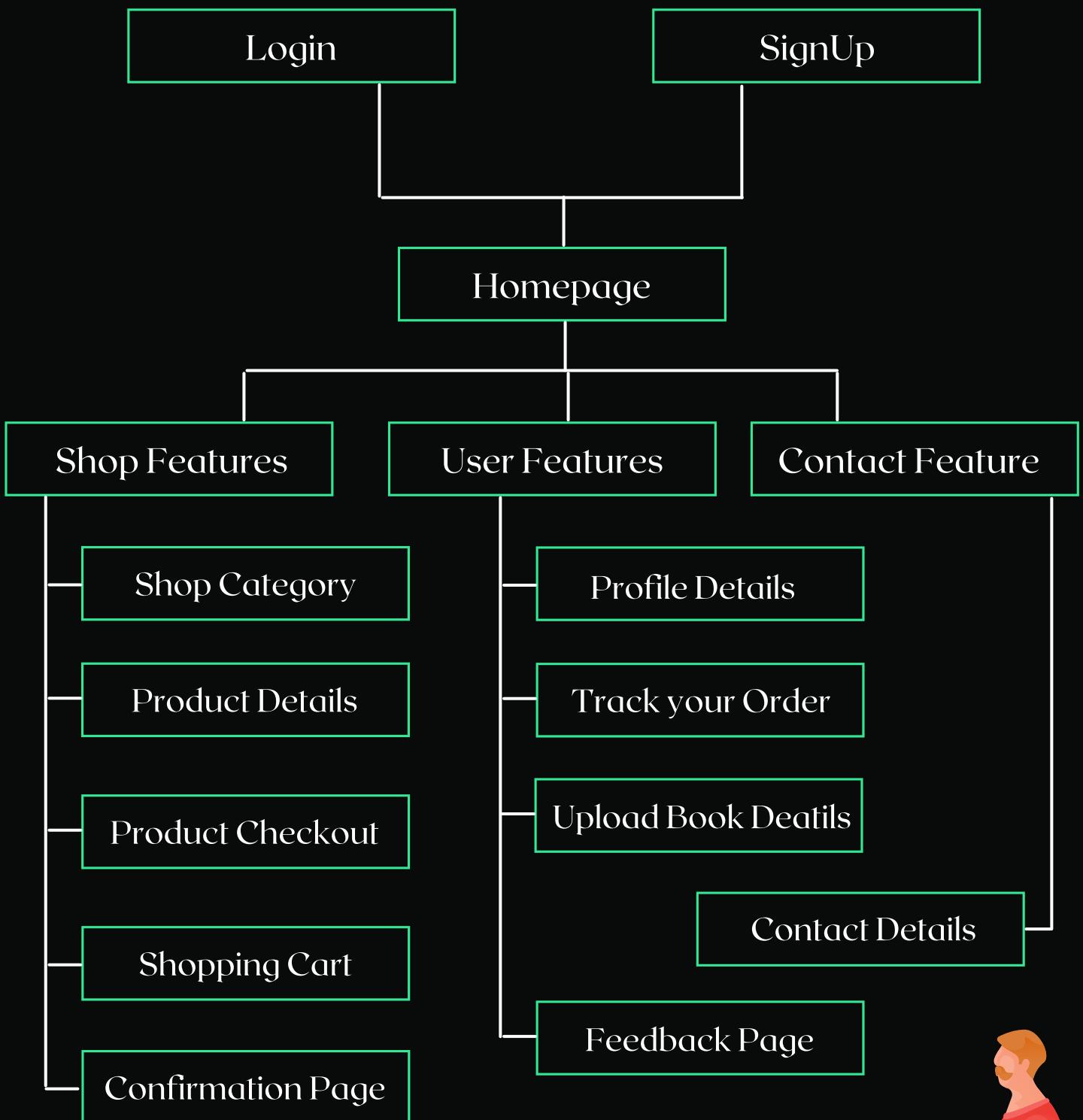
Homepage:

After logging user will come into home page screen. the user staring in this use case will be student. User will find there book using search option. there is different details available like library, cart, account details. There is help option available so user can easily run this website. User will see a new arrivals books and most read books on the home page. here user can select more than one books for long period of time after filling this details user will adding into cart.

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Chapter 4: Project Features

- Hierarchical Task Analysis:



Feature-1 : Confirmation page

Principle : Design Dialogues to Yield Closure

Functionality: User will get an whole overview about the order details in a single web-page.

Photo of implementation:

The screenshot shows the Shareads website's confirmation page. At the top, there is a navigation bar with links for HOME, SHOP, USER, and CONTACT, along with a search icon. The main header is "Confirmation" with a breadcrumb trail "Home → Confirmation". Below the header, a green banner displays the message "Thank you. Your order has been received." A table follows, divided into three columns: "Order Info", "Billing Address", and "Shipping Address". The "Order Info" column contains the following data:

Order Info	
Order number	: 60235
Date	: Los Angeles
Total	: USD 2210
Payment method	: Check payments

The "Billing Address" and "Shipping Address" columns both show the following information:

Billing Address	Shipping Address
Street : 56/8	Street : 56/8
City : Los Angeles	City : Los Angeles
Country : United States	Country : United States
Postcode : 36952	Postcode : 36952

Feature-1 : Confirmation page

Principle : Design Dialogues to Yield Closure (Cont.)

Description of the principle :

This principle states that users should be informed about what their action has led them to.

Description of the feature:

In Shareads portal there is a section of 'Order Details' where users can view a confirmation page and also their order details. This page provides an informative description of the task performed in the 'Shopping cart' and 'Checkout/ Payment' sections. Example if the user has selected 2 books and added them in cart and placed an order. Then this page provides a 'Thank you' message and also a proof of purchase receipt when they've completed an online purchase. In that receipt, information about which book is ordered, when it is ordered, when it will arrive, at what price the user has paid for it, and many more are provided.

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Feature-2: Upload Book Details

Principle: Prevent error and constraints

Functionality: There is a section of 'Upload book details' where the user is supposed to add details of the book which he/she wants to give on rent.

Photo of implementation:

The screenshot shows a web page titled "PROVIDE BOOK DETAILS". The page has a navigation bar at the top with links for HOME, SHOP, USER, CONTACT, a file icon, and a search icon. On the left side, there is a vertical sidebar with some text and a logo. The main content area contains fields for "Name of book", "description (of its condition and what it is abou", "Author", and "publication". Below these is a dropdown menu labeled "Rent price in rupees" with a red border around it. At the bottom is a large black button with white text that says "RENT BOOK".

Feature-2: Upload Book Details

Principle: Prevent error and constraints (Cont.)

Description of the principle :

This principle states that error made by the user should be prevented and also the constraint for the details should be satisfied.

Description of the feature:

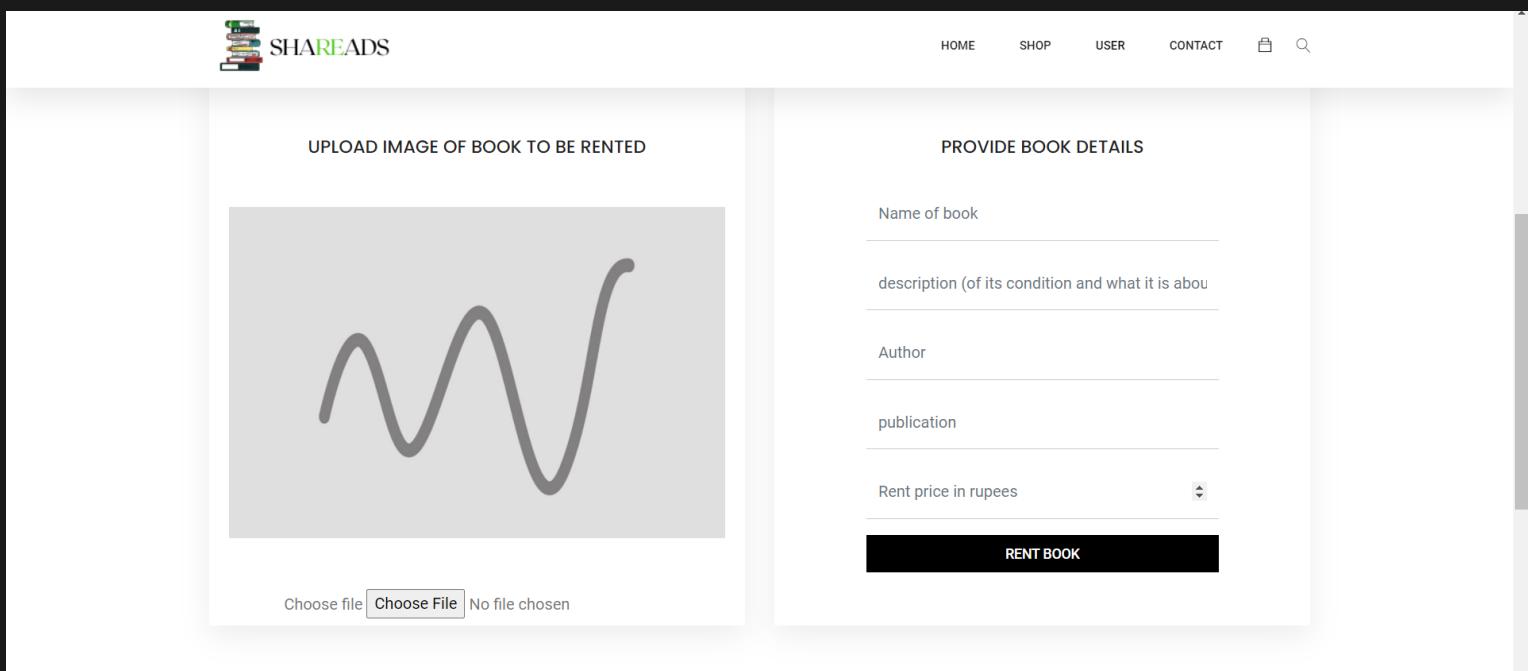
In Shareads portal, there is a section of 'Upload book details' where the user is supposed to add details of the book which he/she wants to give on rent. In that section the user needs to provide his/her details. There is a field for 'Enter phone number' in that section there is a constraint that only numeric values are accepted so if some user tries to add some characters values then it will show an error message and hence error will be prevented and all the constraints will be satisfied.

.....

Feature-3: Extension/Subpart of Upload photo Principle : Design Dialogues to Yield Closure

Functionality: In this feature, user will upload details of his/her book he/she would like to rent like book details, isbn number, book name etc.

Photo of implementation:



Feature-3: Extension/Subpart of Upload photo Principle : Design Dialogues to Yield Closure (Cont.)

Description of the principle :

This principle states that users should be informed about what their action has led them to.

Description of the feature:

In Shareads portal, there is a section of 'Upload book details' where the user is supposed to add details of the book which he/she wants to give on rent. In this section, the user needs to provide a cover photo of the book. The user needs to upload an appropriate cover photo of the book such that all cover details are properly visible. After uploading the cover photo, the user will be appreciated with a 'Thank You' message and also he/she will be able to see the uploaded cover image as a proof of task completion.

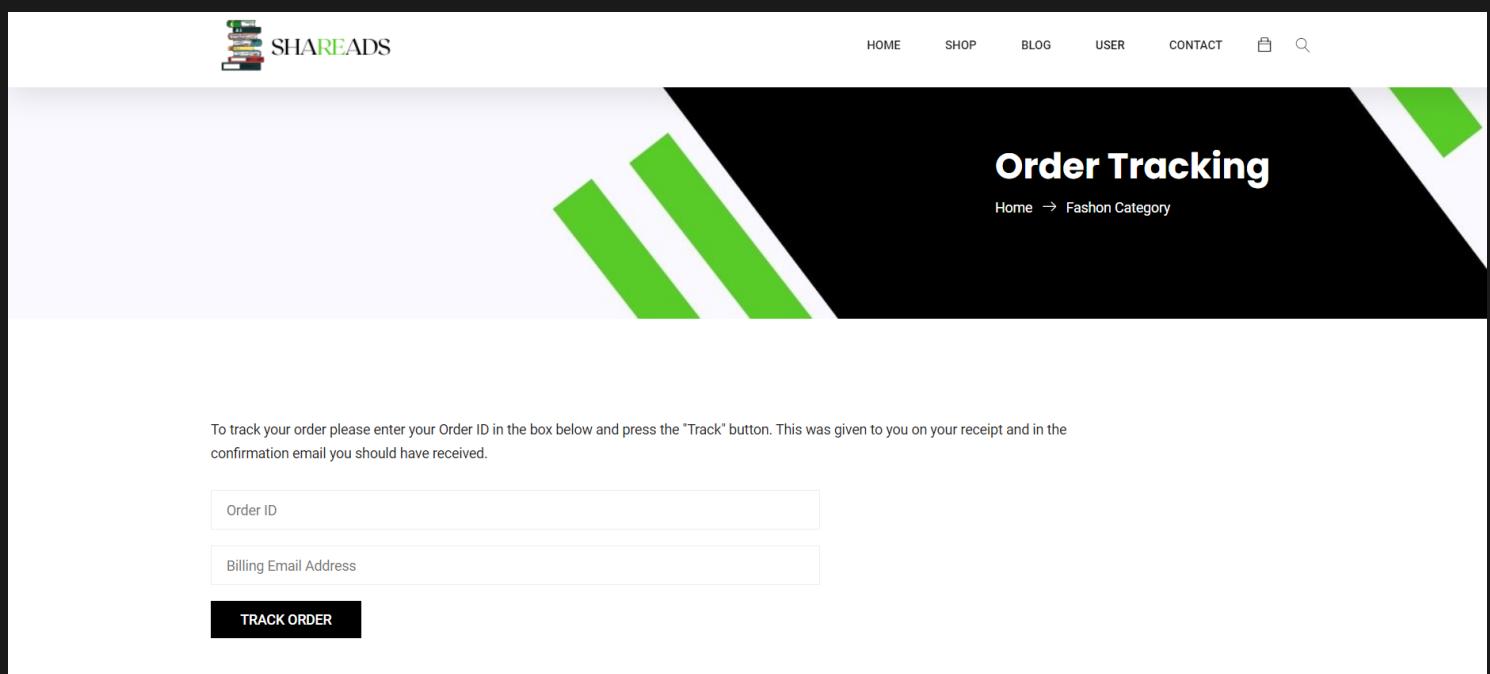
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Feature-4: Track Order Details

Principle: Offer Informative Feedback

Functionality: There is a section of 'Order Details' where users can view their order details

Photo of implementation:



Feature-4: Track Order Details

Principle: Offer Informative Feedback

Description of the principle :

This principle states that informative feedback should be provided to the user for every task they perform.

Description of the feature:

In Shareads portal there is a section of 'Order Details' where users can view their order details. This page provides an informative feedback of the task performed in the 'Shopping cart' and 'Checkout/ Payment' sections. Example if the user has selected 2 books and added them in cart and placed an order. Then this page provides information about which book is ordered, when it is ordered, when it will arrive, at what price the user has paid for it, and many more.

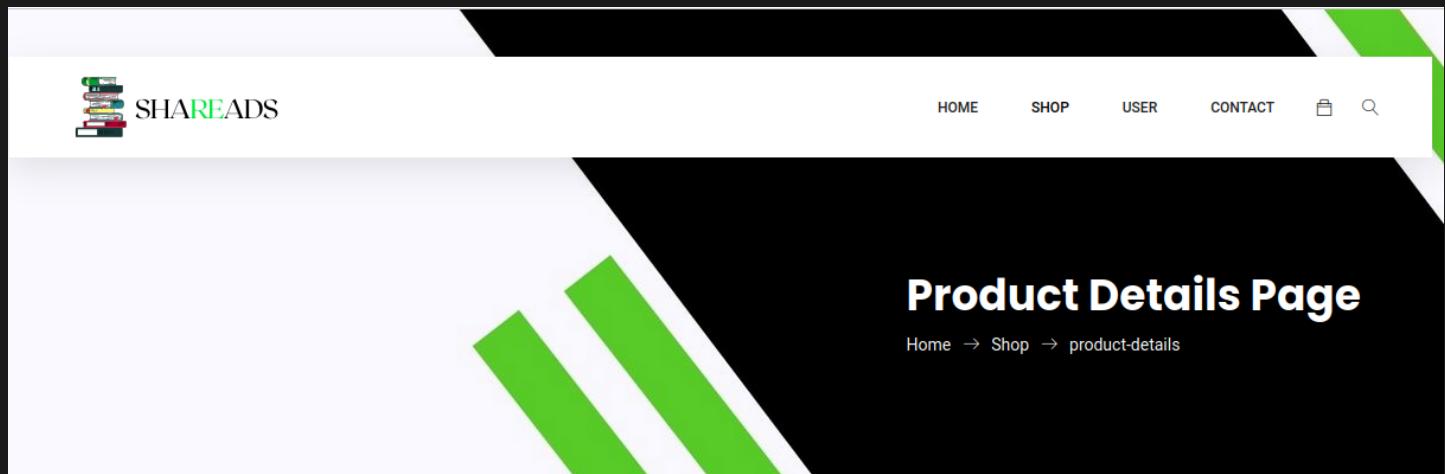
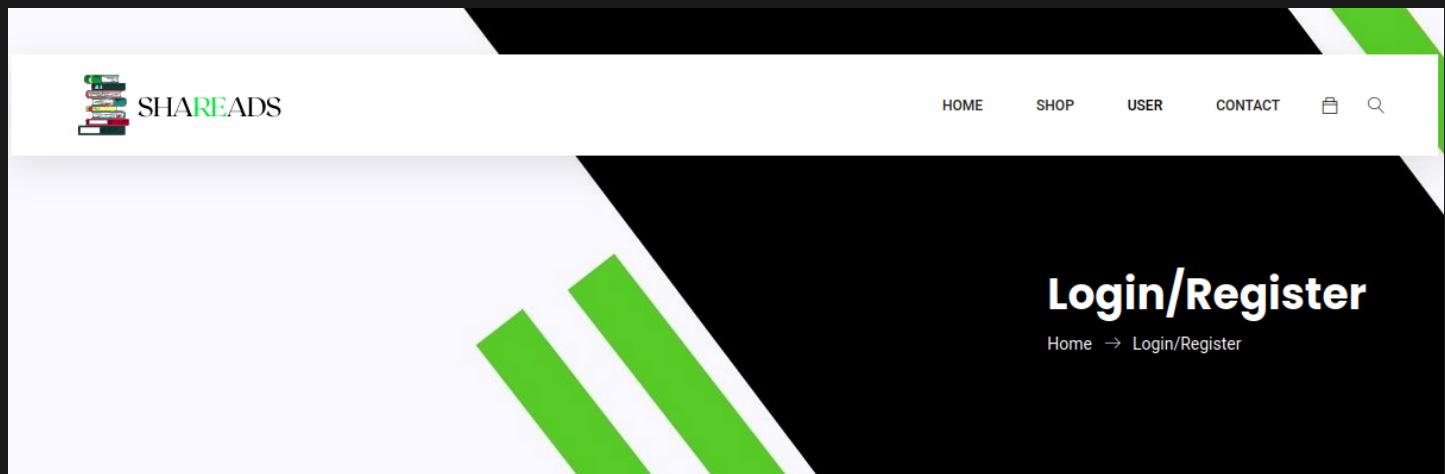
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Feature-5: Header of all pages

Principle: Strive for Consistency

Functionality: User will use these webpages top create an account or to log into in the website with unique username and password or to go through the product details or checkout page.

Photo of implementation:



Feature-5: Header of all pages

Principle: Strive for Consistency

Description of the principle :

The consistency principle is based on keeping the design and the experience of the user consistent while using the website. The base points for the principle are:

- A) Similar operations to achieve similar tasks.
- B) Makes things easy to learn and use.
- C) Identical technology in prompts, menus, help.
- D) Consistency between next versions of s/w or app.

Description of the feature:

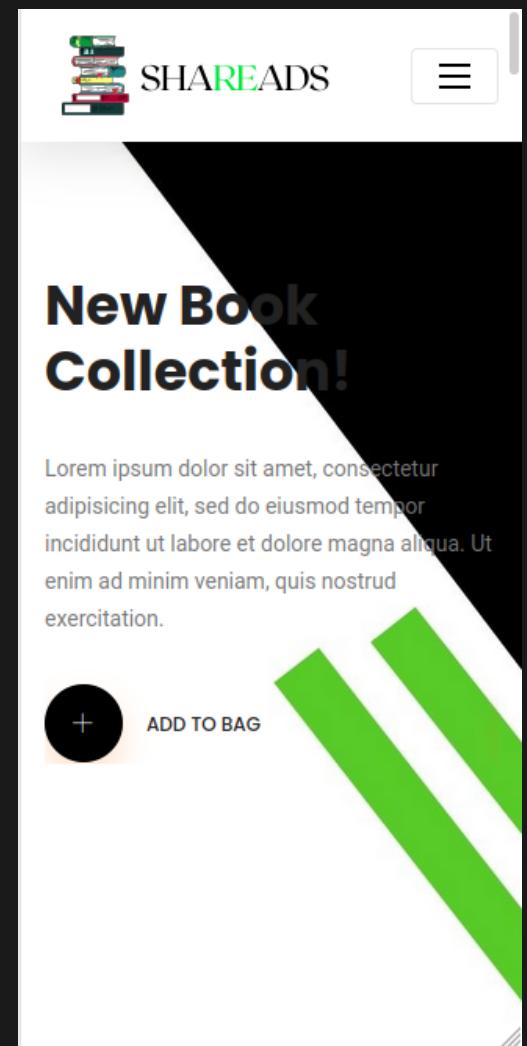
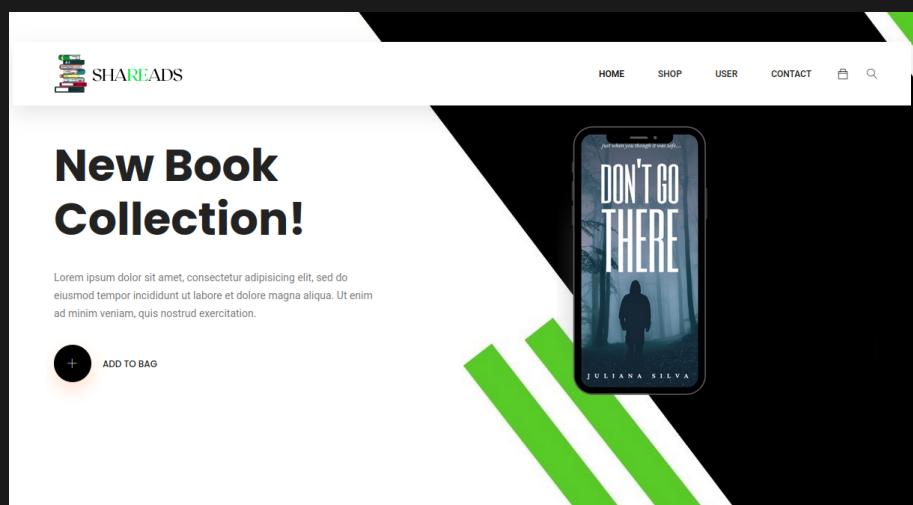
This is the picture of a shareads login window and product details page. As we can see here, the back button with the Shareads logo in every window is always kept in the top left corner of the screen. This shows the use of consistency principle and it makes it very easy for a user to get acquainted with the software in a very short time period. This is also showing consistency in terms of habit of the user as the user may have used many websites before using this one.

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Feature-6: Responsiveness Principle: Cater for Universal Usability

Functionality: User will able to use this website in desktop as well as an android device also in the i-phone device. This shows the responsiveness of the website.

Photo of implementation:



Feature-6: Responsiveness Principle: Cater for Universal Usability

Description of the principle :

Universal Usability is the design of things such that they are useful to as many people as possible. Universal design is a move away from design for the “Average” person by considering a wide variety of diverse use cases.

Description of the feature:

People come in a wide variety. For example, let's consider, someone could open this website through phone or someone could open through laptop. Here both the images can show the use of universal usability.

Users can use different devices like laptop, mobile, tablet, etc. First image shows user can use Shareads via mobile and the second image shows user can use Shareads via laptop.



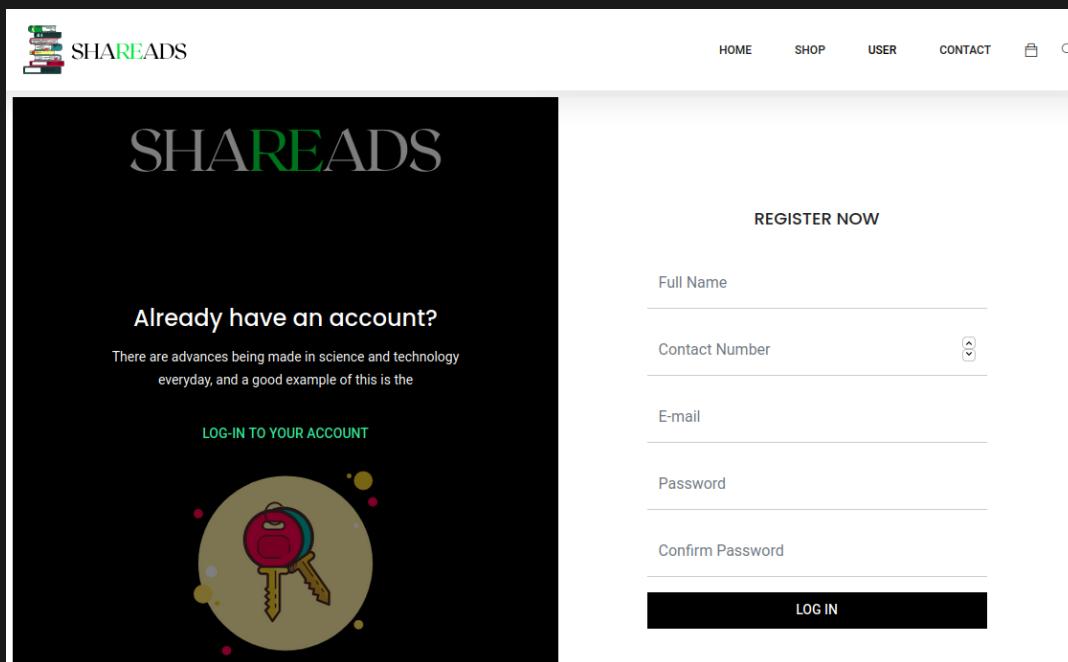
Chapter 4: Project Features

Feature-7: Login-Signup

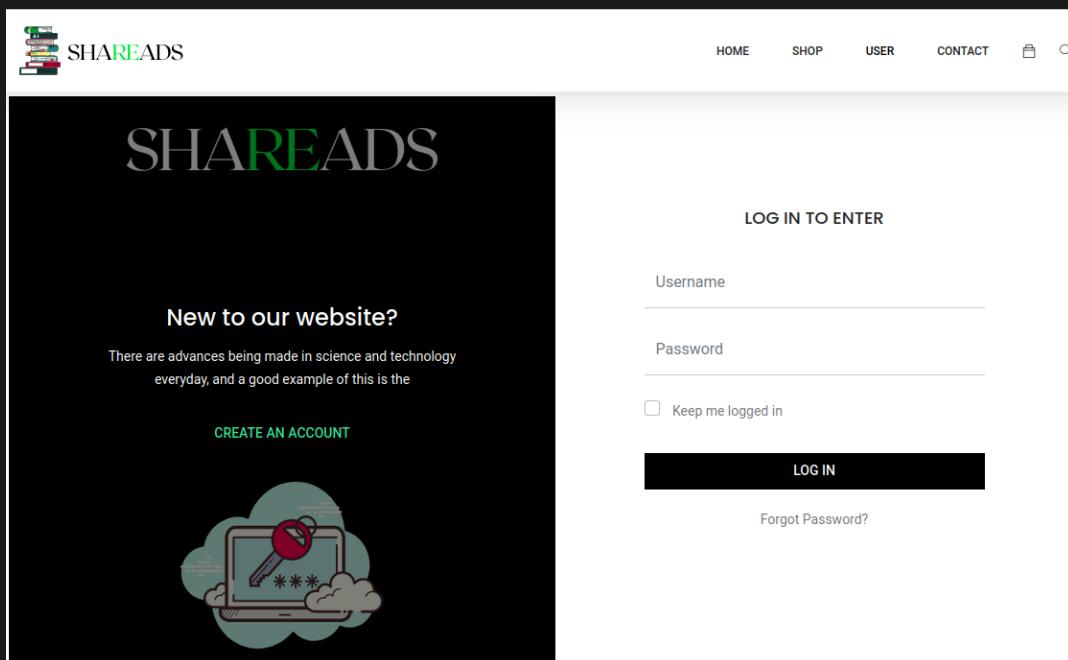
Interaction Style: Form Fill-In

Functionality: User will use these webpages top create an account or to log into in the website with unique username and password.

Photo of implementation:



The screenshot shows the SHAREADS login page. The header features the 'SHAREADS' logo with three books and the word 'SHAREADS' in green and grey. The navigation bar includes links for HOME, SHOP, USER, and CONTACT, along with a search icon. The main content area has a dark background with white text. It displays a large 'SHAREADS' logo, a link to 'LOG-IN TO YOUR ACCOUNT', and a circular icon containing a key. To the right, there is a 'REGISTER NOW' section with input fields for Full Name, Contact Number, E-mail, Password, and Confirm Password, followed by a 'LOG IN' button.



The screenshot shows the SHAREADS signup page. The header features the 'SHAREADS' logo with three books and the word 'SHAREADS' in green and grey. The navigation bar includes links for HOME, SHOP, USER, and CONTACT, along with a search icon. The main content area has a dark background with white text. It displays a large 'SHAREADS' logo, a link to 'CREATE AN ACCOUNT', and a circular icon containing a key. To the right, there is a 'LOG IN TO ENTER' section with input fields for Username and Password, a checkbox for 'Keep me logged in', and a 'LOG IN' button. Below the form, there is a link for 'Forgot Password?'

Feature-7: Responsiveness Principle: Cater for Universal Usability

Description of the feature:

After opening the Shareads users have two options available: login or signup. If the user does not have an account then after filling all details the user can login through this website. In the signup page the user will add these details: full name, contact number, email id, password and confirm password. After filling this detail user can login into shareads. If users have an account then click on the login button and fill the username and password. If the user can not remember the password here forgot password option available so user can change the password via this option and login into their account.

Advantages of form fillings simplifies data entry, requires modest training, makes assistance convenient, permits use of form-management tools

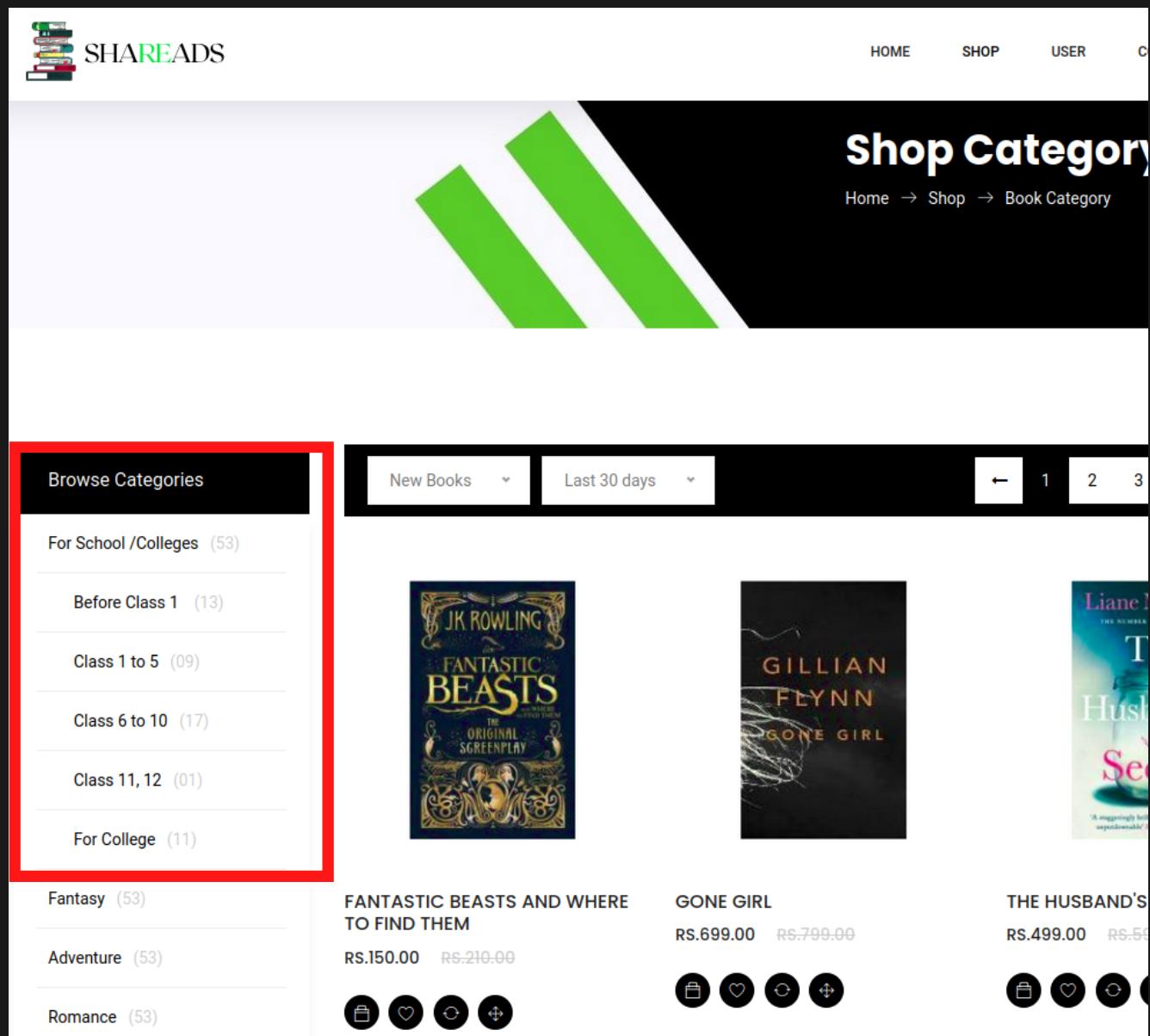


Feature-8: Shop Category Filter

Principle: Piaget's theory of Cognitive Development

Functionality: This feature will help user to find an book for renting by categorywise or using filters.

Photo of implementation:



Feature-8: Shop Category Filter

Principle: Piaget's theory of Cognitive Development

Description of the principle :

His theory focuses not only on understanding how children acquire knowledge, but also on understanding the nature of intelligence. Piaget believed that children take an active role in the learning process, acting much like little scientists as they perform experiments, make observations, and learn about the world. Piaget theory have 4 different stages: Sensorimotor stage, preoperational stage, Concrete operational stage, Formal operational stage.

Description of the feature:

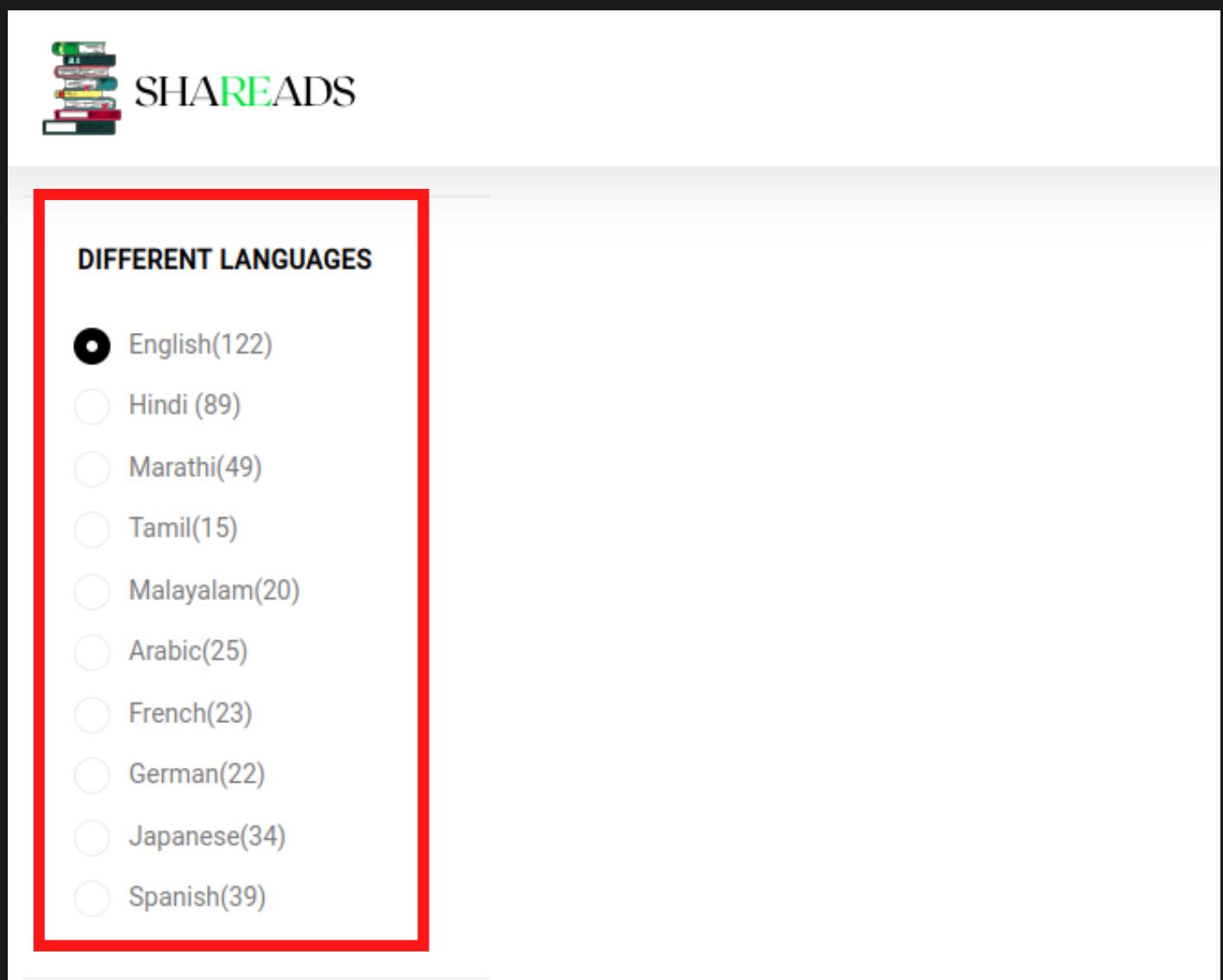
Here, Piaget's theory of Cognitive Development is shown in Shareads websites in terms of the selection of different class books. We can see in this image that users can select browse category there is a School/college option available. In this are the option: class1, class 1 to 5, class 6 to 10, class 11 & 12, for colleges. Using these options users can easily find their book.

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Feature-9: Shop Category Filter Principle: Cultural and International Diversity

Functionality: This feature will help user to find a book from different languages

Photo of implementation:



Feature-9: Shop Category Filter Principle: Permit Easy Reversal of Actions

Description of the principle :

The principle of cultural and international diversity emphasizes on the differences between difference in the aspects of cognition and the language terms and slangs among different cultures and different countries by considering:

- A) Date and Time formats
- B) Weight and Measures
- C) Icons, buttons, and colors
- D) Etiquette, formalities, metaphors.

Description of the feature:

Here, the principle of cultural and international diversity is shown in Shareads websites in terms of the selection of language for the book. For example, we can see in the below image users can select different countries and different types of language. it could increase the familiarity and reach to its customers.

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Feature-10: Add to Cart

Principle: Permit Easy Reversal of Actions

Functionality: With this functionality user can modify the order details on one click only.

Photo of implementation:

Product	Price	Quantity	Total
Minimalistic shop for multipurpose use	\$360.00	1 ^ ▼	\$720.00
Minimalistic shop for multipurpose use	\$360.00	1 ^ ▼	\$720.00
Minimalistic shop for multipurpose use	\$360.00	1 ^ ▼	\$720.00

UPDATE CART Coupon Code APPLY CLOSE COUPON

Feature-10: Add to Cart

Principle: Permit Easy Reversal of Actions

Description of the principle :

This principle states that every task of the user should be made reversible. This relieves anxiety in the user and makes the user comfortable as the user knows that my action can be reverted back.

Description of the feature:

In Shareads portal there is a section of 'Shopping Cart' where users can store their products(books). There is an 'update' option for the user. This option allows the user to easily reverse or update their tasks. For Example, if the user has added 2 books in the cart and now the user wants to remove 1 book from the cart then the user can use this option and can easily reverse or update their tasks.

.....

Feature-11: Book Details

Principle: Reduce Short Term Memory Load

Functionality: This is a book details page, where user can find the details of each book.

Photo of implementation:

The screenshot shows a book details page for 'WINTER' by Sophia Hill. The page includes a book cover image, a brief description, a quantity selector, an 'Add to Cart' button, and a review section with an 'Add a Review' form.

SHAREADS

WINTER
SOPHIA HILL
BELDEN'S BEST SELLING SELF-IMPROVEMENT BOOK

If you are looking for something that can make your interior look awesome, and at the same time give you the pleasant warm feeling during the winter.

Quantity: 1

ADD TO CART

Description Specification Comments Reviews

Overall 4.0
(03 Reviews)

Based on 3 Reviews

Rating	Count
5 Star	1
4 Star	1
3 Star	1
2 Star	0
1 Star	0

Add a Review

Your Rating: ★★★★★ Outstanding

Your Full name

Email Address

Feature-11: Book Details

Principle: Reduce Short Term Memory Load

Description of the principle :

This principle states that the memory load to memorize details should be reduced as much as possible.

Description of the feature:

In Shareads portal, there is a section of 'Product Preview' where the user can view the product and its details. In this section, there is an 'Add to wishlist' option for the user. This option helps the user to reduce memory load for memorizing the product and its details. For Example, if the user liked a product but he/she is not sure whether he/she needs to buy or rent this product then the user can just add the product to wishlist and then later, the user just needs to check the wishlist. This way the user memory load is reduced as now he/she does not need to memorize all the details and just have to check their wishlist to save time and reduce memory usage load.

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Chapter 4: Project Features

Feature-12: Book Checkout Page

Interaction style: Menu selection

Functionality: This webpage will help user to checkout the items he/she has selected.

Photo of implementation:

The screenshot shows a web-based checkout interface for a book store. On the left, there's a sidebar with a logo of three books and the text "SHAREADS". The main navigation bar includes links for HOME, SHOP, USER, and CONTACT, along with a search icon. The central area is divided into two main sections: "Billing Details" on the left and "Your Order" on the right, which is highlighted with a red border.

Billing Details

- First name *
- Last name *
- Company name
- Phone number *
- Email Address *
- Country
- Address line 01 *
- Address line 02 *
- Town/City *
- District
- Postcode/ZIP
- Create an account?

Shipping Details

- Ship to a different address?

Order Notes

Your Order

Product	Total
Fresh Blackberry	x 02 \$720.00
Fresh Tomatoes	x 02 \$720.00
Fresh Brocoli	x 02 \$720.00
SUBTOTAL	\$2160.00
SHIPPING	Flat Rate: \$50.00
TOTAL	\$2210.00

CHECK PAYMENTS

Please send a check to Store Name, Store Street, Store Town, Store State / County, Store Postcode.

PAYPAL

Pay via PayPal; you can pay with your credit card if you don't have a PayPal account.

I've read and accept the [terms & conditions*](#)

PROCEED TO PAYPAL

Feature-12: Book Checkout Page

Interaction style: Menu selection

Description of the principle :

In this Interaction style, the user reads a list of items, selects an appropriate item, and observes the effect of their action.

Description of the feature:

In Shareads portal, there is a section of 'Checkout/ payment' where the user needs to pay their rent to get the book. Here the user is provided with many payment options like Netbanking, Credit card, Debit card, Google Pay, and many more. This interaction style encourages Structures Decision-making and Allows easy support for error handling.

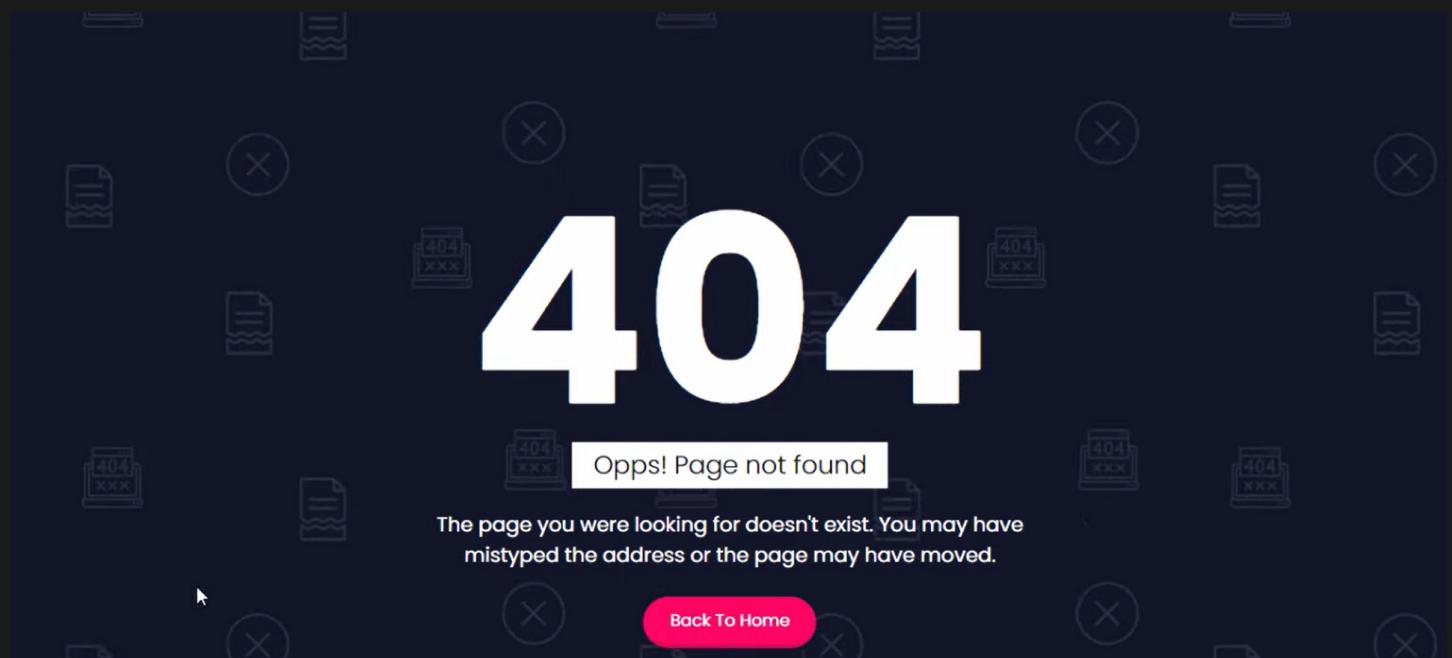
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Feature-13: Offline Error message

Principle: Offer informative feedback

Functionality: When user's machine gets disconnected from the internet than it will show this error message to notify user what has happened.

Photo of implementation:



Feature-13: Offline Error message Principle: Offer informative feedback

Description of the principle :

This principle states that the user should be provided proper feedback by the system in a reasonable amount of time.

Description of the feature:

In Shareads portal, If there is some connectivity issue from user side or server side then an error message will be shown. Here users are provided with proper internet connection feedback in a reasonable amount of time. This helps the users to find out that there is an issue in their internet connection and they need to sort it out soon to use the system perfectly again.

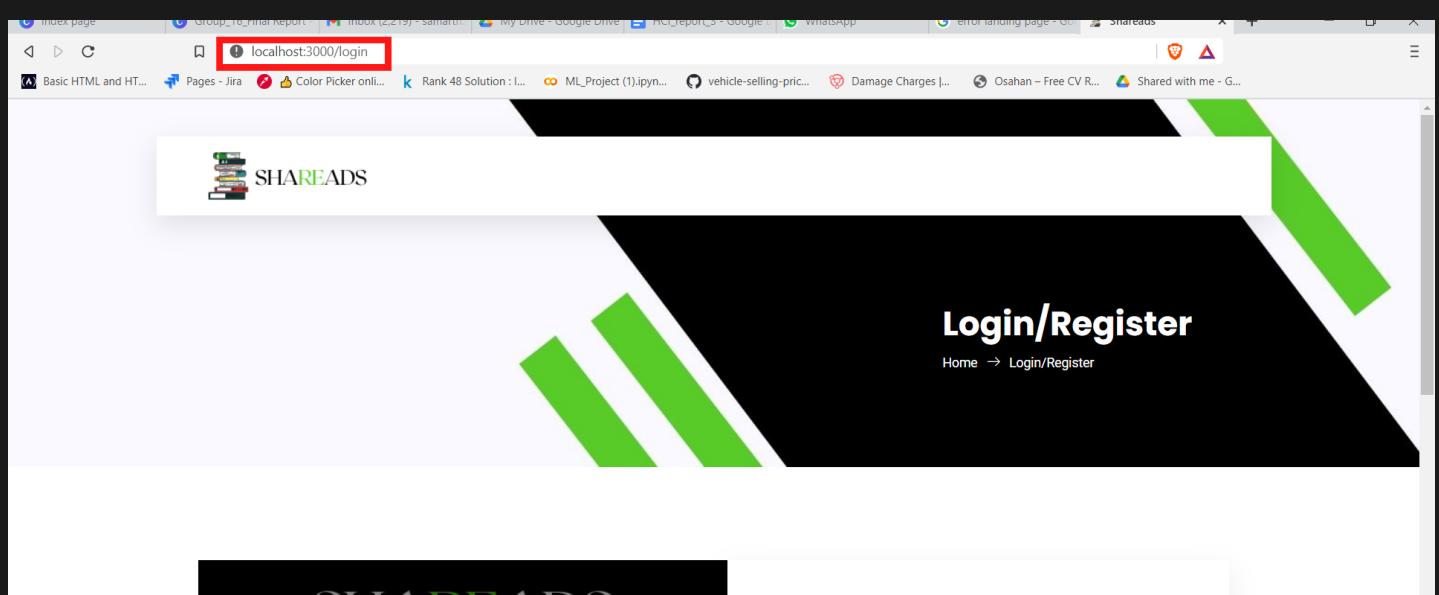
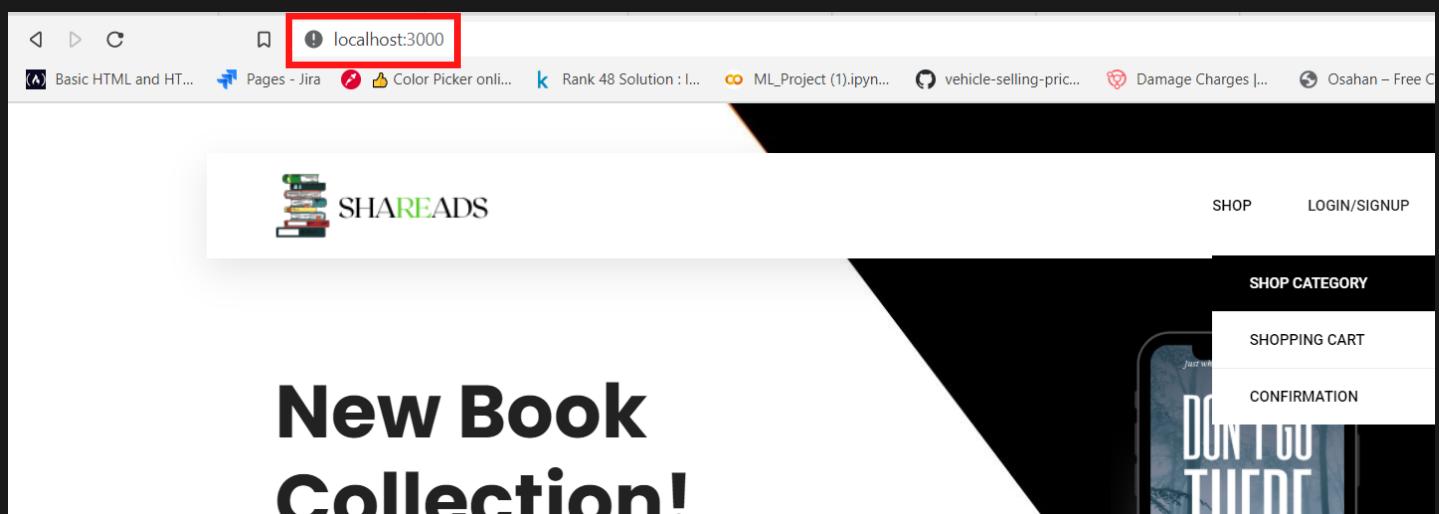
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Feature-14: User without login

Principle: Prevent error and constraints

Functionality: Users have to login/signup in order to use the website. When user will be on the homepage, he/she won't be able to click on add to cart, shop category options etc. without logging into the website.

Photo of implementation:



Feature-14: User without login

Principle: Prevent error and constraints

Description of the principle :

This principle states that error made by the user should be prevented and also the constraint for the details should be satisfied.

Description of the feature:

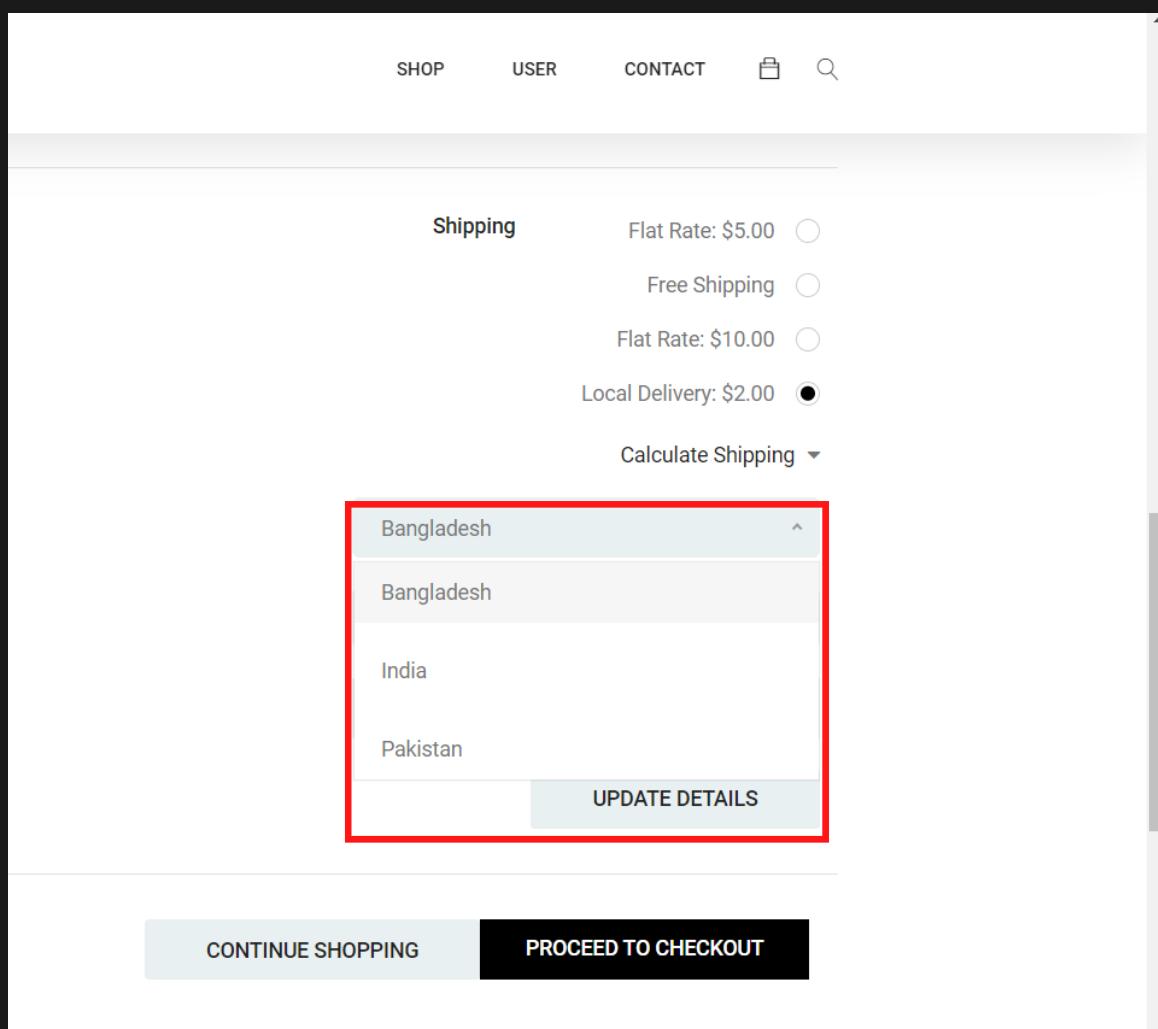
In Shareads portal, if a user enters the homepage and tries to use the 'Buy or Rent Books' or any other section which is user specific then the system will immediately show an error message and insist the user to first 'login' or 'sign up' in the system. Here the user made an error by trying to access a user specific section without 'login' or 'sign up'. So here the error made by the user is prevented.

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Feature-15: Changing the Currency Principle: Cultural and International Diversity

Functionality: When user will be in the checkout webpage, he/she will have to enter the current location or country name, after adding that the currency of the transaction will be changed according the country's currency.

Photo of implementation:



Feature-15: Changing the Currency Principle: Cultural and International Diversity

Description of the principle :

The principle of cultural and international diversity emphasizes the differences between differences in the aspects of cognition and the language terms and slangs among different cultures and different countries.

Description of the feature:

In Shareads portal, if a user enters the homepage there is a country selection option available. According to the country flag it shows the book value. As you can see in the image the user selects the USA. according to the country shareads shows the book value in US dollars. Here, shareads follow the principle of cultural and international diversity.

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Feature-16: Perticular Book Details Page

Interaction style: Menu selection and Form Fill in

Functionality: In ‘Menu Selection’ Interaction style, the user reads a list of items, selects an appropriate item, and observes the effect of their action.

In ‘Form Fill In’ interaction style, the user is provided with empty text fields and now the user needs to enter data appropriately.

Photo of implementation:

The screenshot shows a book details page from the website SHAREADS. At the top, there's a navigation bar with links for HOME, SHOP, USER, and CONTACT, along with a search icon. Below the navigation, there are tabs for Description, Specification, Comments, and Reviews, with the Reviews tab currently selected. On the left, there's a summary section showing an overall rating of 4.0 based on 3 reviews. It also lists the distribution of star ratings: 5 Star (1), 4 Star (1), 3 Star (1), 2 Star (0), and 1 Star (0). Below this, two review snippets are displayed, each with a small profile picture, the reviewer's name, and a 5-star rating icon. The main content area contains the book's title and description, which is partially visible as "Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo". To the right of the book details, there's a large, red-bordered form titled "Add a Review". This form includes fields for "Your Full name", "Email Address", "Phone Number", and a large text area for "Review". At the bottom right of the form is a "SUBMIT NOW" button.

Feature-16: Perticular Book Details Page

Interaction style: Menu selection and Form Fill in

Description of the feature:

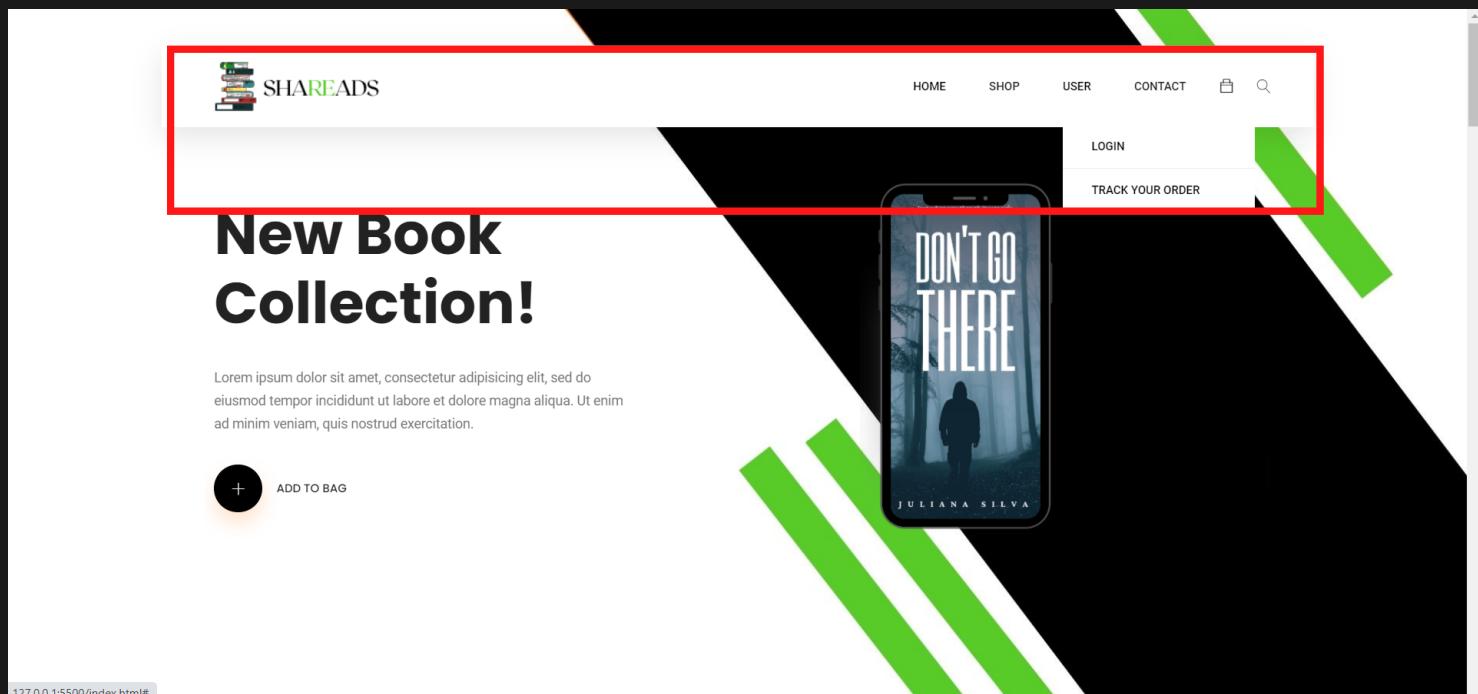
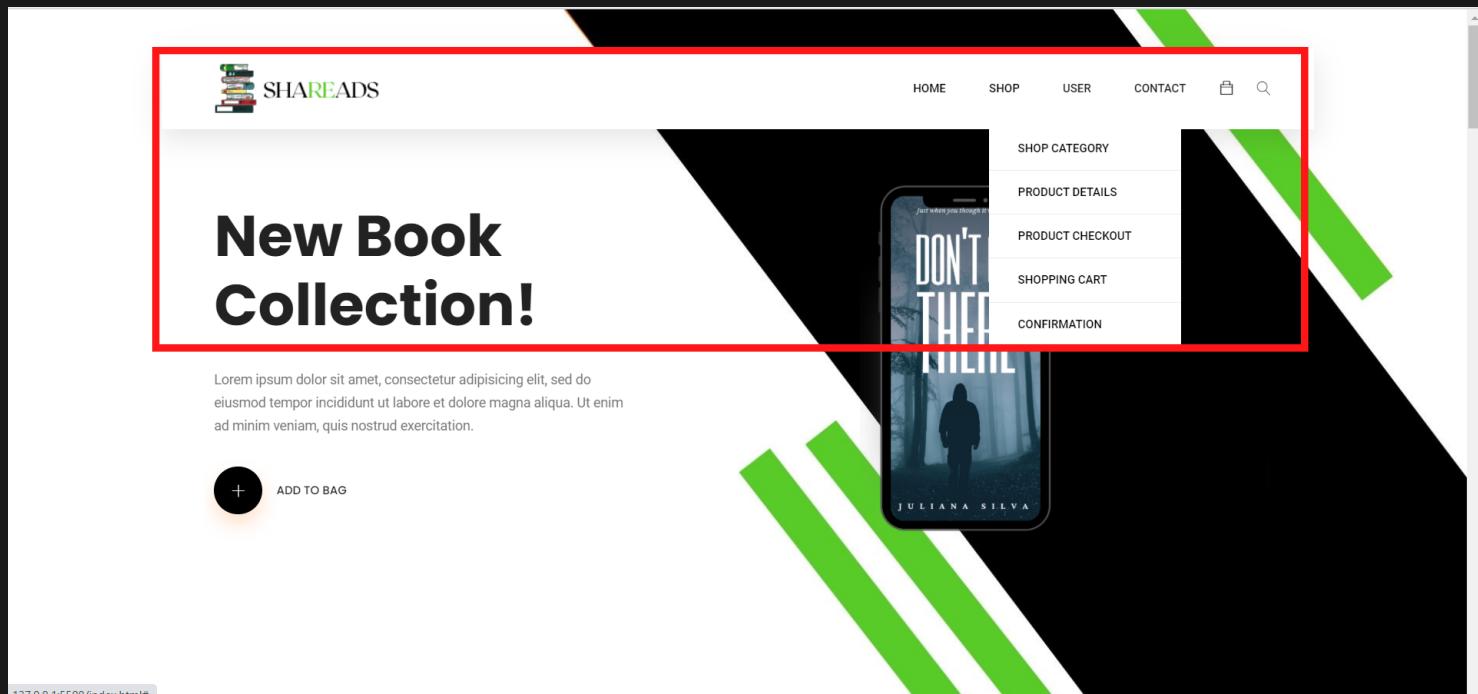
In the Shareads portal, there is a 'Product Review' section where the user can view as well as write a review for a particular product. Here we choose 'Menu Selection' as an interaction style for this feature as the user can rate the product by selecting the no. of stars he/she wants to give to this particular product. Here the user can also add a few descriptive lines as a review. So for this feature we will choose 'form fill in' interaction style as the user can write and express their review for the product in descriptive form.

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Chapter 4: Project Features

Integration of all features:

Screenshots of the integration:



Chapter 4: Project Features

In the end, this is how Shareads portal will look like when all the features are integrated from the user's point of view.

- First user needs to "login" if he/she has an account or he/she needs to "signup" and fill up all the details required to create a new account.
- Then the user is navigated to "homepage" where the user has many options like view
 - Latest arrival books
 - Trending books
 - User details
 - Products Preview and details
 - Help and contact details and many more
- If the user has not yet 'logged in' or 'signed up' then an error message is displayed and the system will insist the user to 'login' or 'sign up' first.
- If the user wants to buy some desired book on rent then he/she can use the search bar and search for the desired book and then it will navigate the user to that "particular book details".
- If the user wants to view books of some sorted category then he/she can use the categorical list to sort the book list and it will navigate the user to that particular "categorical section of books".
- If the user likes a particular book and wants to buy it on rent then he/she will select a 'Buy on Rent' option provided on that page then it will navigate the user to 'Shopping Cart' section.
- In that 'Shopping Cart' section the user needs to confirm that he/she needs to buy the book present in cart and by confirming it, it will navigate the user to the 'Checkout/Payment' section.

Chapter 4: Project Features

- In that ‘Checkout/Payment’ section, the user needs to select the mode of payment and its details and after paying the rent, it will navigate the user to the ‘Order Details’ section.
- In that ‘Order Details’ section the user is provided with the details like which book is ordered, payment status, when will the book arrive, and many more.
- If the user wants to track his/her order then he/she can select the ‘Track Order’ option provided in the User/Track your Order page and it will navigate the user to the ‘Track order’ section where he/she can track the order and can estimate when the order will be arrived.
- If the user wants to keep his/her book for rent on Shareads portal then he/she can select the ‘Upload Book Details’ section provided in the User/Book details page/section and it will navigate the user to the ‘Upload Book Details’ section.
- In the ‘Upload Book Details’ section there are steps provided which the user needs to follow to upload his/her book on the Shareads portal.
- After successfully uploading the cover photo of the book, the user is appreciated with a ‘Thank you’ message and also a copy of uploaded cover image is shown as a proof of task completion.
- If the user has an query or need any help then there is a ‘Help/Contact us’ option available in the Homepage/ Contact Us page and by clicking on that option it will navigate the user to ‘Help/Contact us’ section where the user will be provided proper guidance about how to use it and all his/her queries will be answered.
- If during the whole process if there is some internet connectivity issue from the user or the server side then an error message is displayed to ensure there is some error due to internet connectivity and it needs to be resolved soon to continue using the system. Once the issue is fixed it will again navigate to the Homepage.

Chapter 5: Difficulties encountered and resolved

Difficulty encountered when user use portal without 'Login' or 'Signup':

- If a user uses 'Shareads' portal without 'Login' or 'Signup' then there are facing difficulties when the user uses user specific sections like 'Add to Cart', 'Track Order' and many more.
- Here we face difficulty like when the user selects the 'Track Order' section then the system gets confused about whose order is to be tracked?
- This confusion occurs because the user has not been 'Logged In' or 'Signed Up'.

Solution:

So to resolve this difficulty we added a new feature which does not allow users to access user specified sections without 'Login' or 'Signup'.

Difficulty encountered when connecting Database to Frontend:

- When we were creating the login and signup system for the user. We needed to connect the database to the frontend which would help us to add new users and verify existing users.
- Here we were not able to connect MongoDB atlas to our frontend
- We faced error as schema not defined , user not found (even if user was already there)

Solution:

Later we found out that we made syntax error in our code.

Chapter 5: Difficulties encountered and resolved

Difficulty encountered while making website responsive:

- When we are creating our website we use many images and icons. The problem occurs on the visual stage.
- User open shareads via mobile the images and icons are not properly shown and also the data is shown in small fonts on the screen.
- This problem occurs because the images and icons are not responsive.

Solution:

- We add “meta” tags in our HTML documents to make our website responsive.
- We add responsive images and icons that scale nicely to fit any browser size.

Difficulty encountered while making icons and choosing color combination:

- For consistency, we wanted to have a proper single color combination for all web-pages.
- We tried various color combinations and took other's feedback on those combinations. But all the feedback was mostly negative.
- There are also many icons in the website. While adding those icons, some of them were not of the same size and also some of them were of different colors.

Solution:

- We found a website that can give various matching color combinations. Here's the link of that website: <https://coolors.co/>
- From this website, we took black and neon color as the main color combination.
- For the same icon size and of the same color, we took icons from the icons8 website, where we can get various sizes and colors of icons. <https://icons8.com/>

Chapter 6: Real Life Implementation Perspectives

Challenge to provide security to user's books:

- If a user is giving his/her book for rent then we as a system owner must provide security to the user's book that no damage will be done to the user's book and it will be returned to him/her within the decided schedule.

Solution:

- So the solution here is to check every page at the time of returning the book.
- It is difficult to check every page of the book whether they are damaged or not.
- If some damage is found then we immediately charge fine to the user who has damaged the book.
- It requires more man power as well as more time to check every page of the book.
- So it will be a challenge to provide security to user's books.

Challenge of managing data:

- Slowly and gradually when we will grow with more and more users then eventually our database will also grow.
- So to manage more and more data we will need a large database.

Solution:

- So the solution here is we need to buy and deploy cloud database services which will help us to manage large no. of data.

Chapter 6: Real Life Implementation Perspectives

Challenge to provide secure online transaction

- If a user wants to buy some book using the 'Buy on Rent' option provided on the homepage.
- There are many payment methods provided to the user.
- If a user selects some online payment method then we should provide a secure online transaction to the user because this method contains many personal banking data so it is necessary to provide a secure online transaction.

Solution:

- All these online methods have their own secure portal.
- So the solution here is we should directly navigate them to the respective portal and now the user can safely perform online transactions.
- Also the user will be providing money to our admin account and then we will transfer that money to the other user. So no personal banking data will be shared among the user.
- We will act as the mediator between the users.

Challenge to set book price:

- If a user wants to sell or provide his/her books for rent then we have a 'Upload Book Details' section where users provide book details and set a price at which he/she wants to sell or rent the book.
- But the problem here is we provide users the liberty to set selling or renting price on his/her own.
- Here there are chances that some users set a pretty high selling or renting price which is far more than the actual book price.
- In that case, it is unfair to set such a high price and earn money.

Solution:

- So the solution here is we should compare the book price with the actual market price and set some threshold price that the user can not set selling or renting price greater than the threshold price.

Chapter 7: References

- <https://www.amazon.in/>
 - <https://justbooks.in/>
 - <https://www.doorstepbooks.com/>
 - <https://www.geeksforgeeks.org/web-technology/html-css/>
 - https://www.w3schools.com/html/html_intro.asp
-