

WEB ENGINEERING REPORT (SE-206)

Project name: Online Bookstore

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1. ABSTRACT

This BooksStudio an e-commerce shop is used for buying Books online within Pakistan. The motive for this website is to provide authentic environment to the customers. The modern UI design of the website attracts the users to either just browse to get information about the products or purchase the products of their choice by simply logging into their existing account or getting their self-registered at that time. The user information will be saved for future use.

The bookstore sell and deal in all types of books available for any age group. We are here to help you considering your interest in reading books, and we are very appreciative and honored that our customers respect and value our information, products, and service, as we respect and value each one of them as they are our first Priority. We try our best to give best service to our customers.

2. INTRODUCTION

BooksStudio is an online web app that allows purchases of books. This modern web app along with the latest UI design attracts customers and provides ease of use to those surfing the website. The aim of this system is to facilitate potential customers in buying books seamlessly. They can view all the available books according to categories, view product description in order to help in their purchases or just gain knowledge about them. Users that have not signed up can only go through the products and cannot carry out purchases. Registration can be done by filling up a signup form and they can later use their username and password to log into the system to carry out purchases. The system verifies during login that the user has entered correct credentials or not. In case of incorrect information, the user is prompted about it. After viewing the products, if the registered user wishes to purchase any goods, then he/she can proceed to home or categories page. The cart keeps on updating dynamically after every insertion, showing the product added to cart, unit price of the item and total price of all items. The user has the option to update the quantity of any single item or to remove it from the cart. All of the process is quite seamless and easy to use, thus helping all those users who are new to online purchases. Customers can also search for books by entering the name of the book or the authors name in the search bar.

3. Web Engineering Framework Activities

1#ITERATION

3.1.1 Formulation

The stakeholders of this system would be:

- Book store who requested this software
- Customers

The website will be integrated with a database at the back-end containing all the data.

Registered and non-registered users will be able to search the products by book name and author and see their information but only registered customers would be able to purchase a weapon or any product.

Elicitation

Meetings and sessions were held with customers and owner of the bookstore In order to get to know the needs and wants of customers and owner.

REQUIREMENTS SPECIFICATION

FUNCTIONAL REQUIREMENTS:

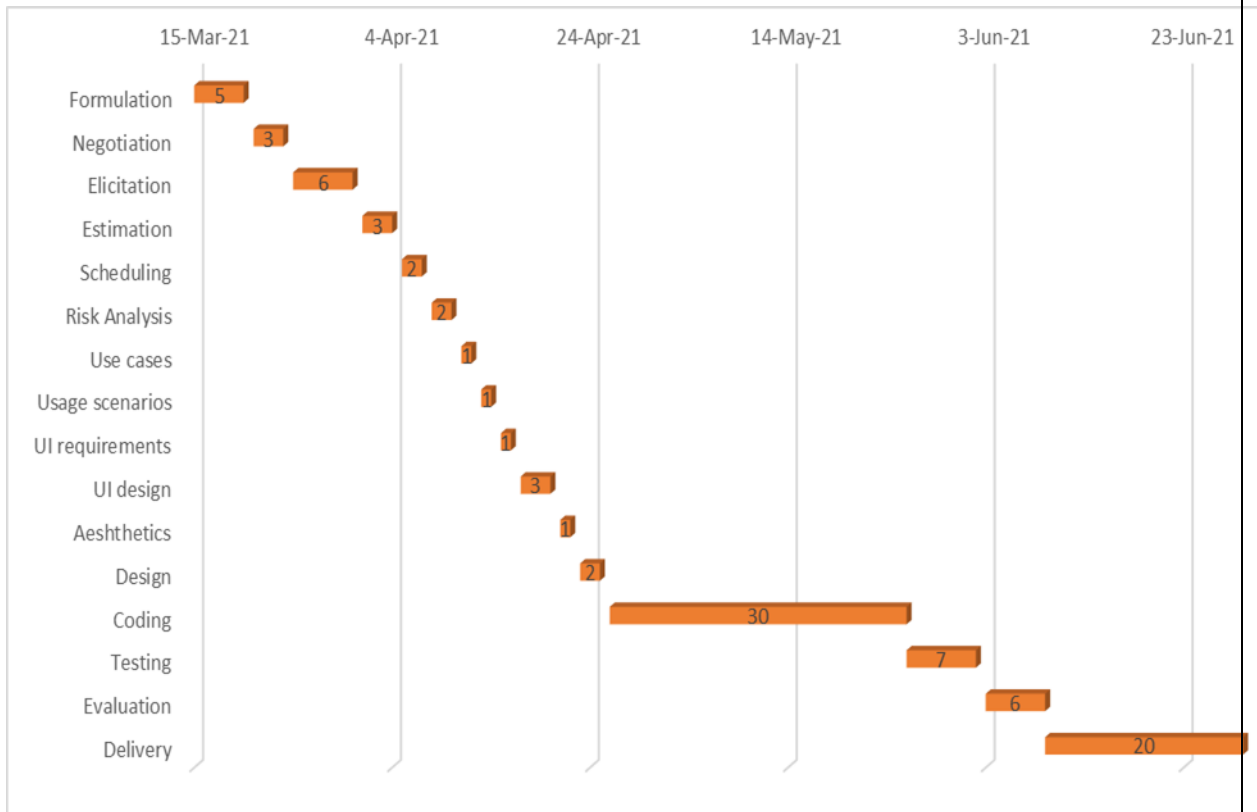
- A user should be able to login and sign up by providing some details like email, address, phone number as they are necessary for delivering a product.
- The website should have categories of products.
- A contact info should be available through which a user can contact with if they have any problem.
- Users should be able to visit E-commerce website without having any account.
- If the user wants to buy something it must be necessary for them to make an account and which may require some specific details.
- If the user clicks on the button “CHECKOUT” on “CART” page without having an account the bill would not be generated for that user.
- Website shall provide Cash on Delivery (COD)
- A person shouldn't be able to purchase from a website without having an account.

NON-FUNCTIONAL REQUIREMENTS:

- The website should provide easy to use tools that any user can access software that are appropriate and well managed.
- User login should not take much time. It must operate quickly with acceptable system performance.
- The website must be capable to run on any browser like google, Firefox etc

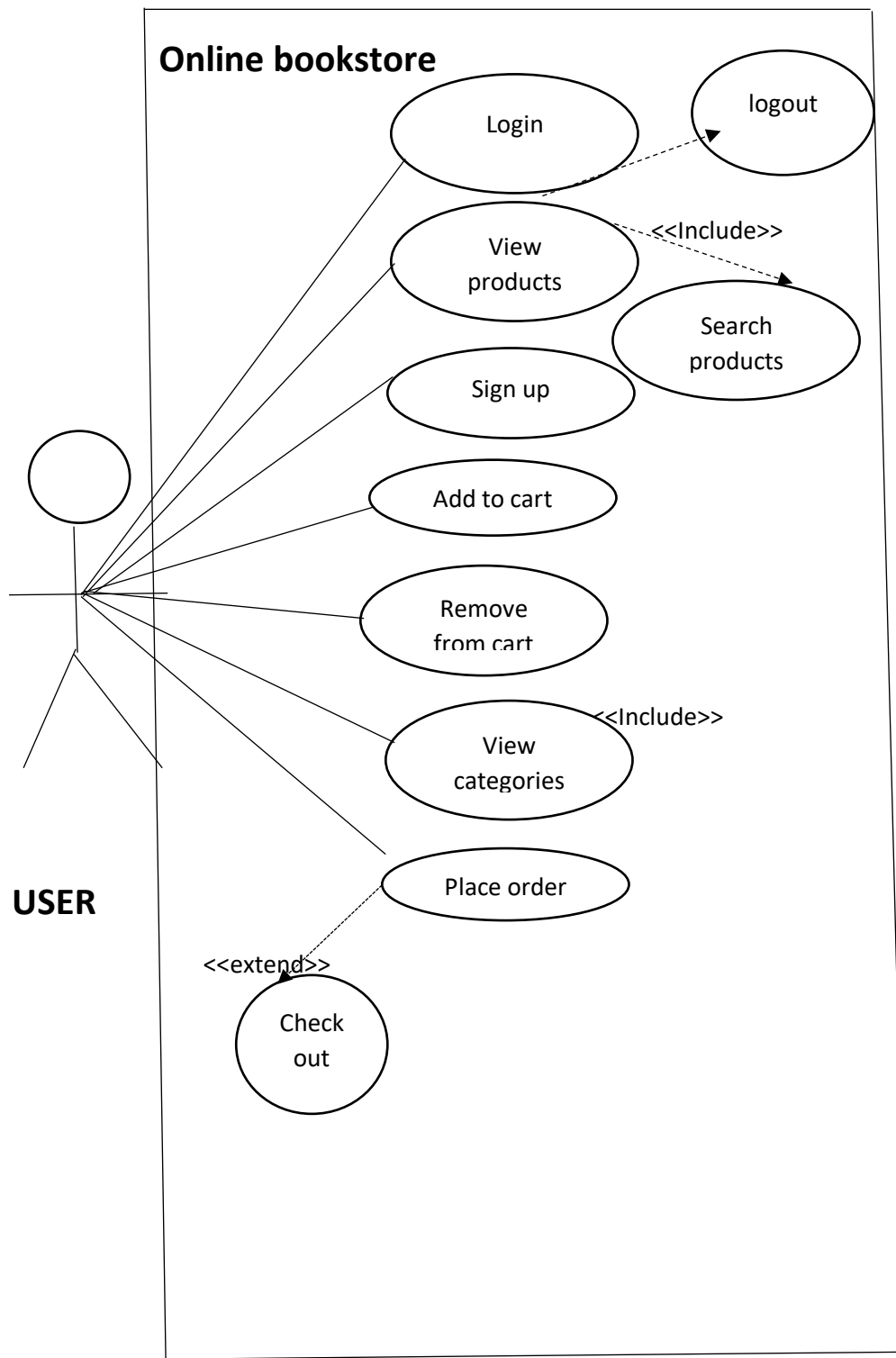
- No external user may be allowed to make changes in the software.
- The website should respond to user request within 0.5 seconds
- The website should provide unique username and password to every individual
- The system should search and generate bill with 100% accuracy to gain costumer's trust.
- System should reliable enough that any kind of user at any time use the system and enjoy the features.

3.1.2 PLANNING



3.1.3 MODELING

USECASE:



Usage scenarios:

1. Use case: sign up

Description:

A new customer needs to sign up before ordering books.

Actors: user

Pre-condition: an unregistered user visits website.

Flow of events:

1. The user adds details of username, password, address, email, contact information and gender to sign up.
2. The system will store this information in database.

Alternatives: if the information is not correct the user cannot sign up and the message will be displayed

Post condition:

The home page will be displayed again.

2. Use case: log in**Description:**

A user needs to login if not before placing an order. And admin needs to login the system also.

Actors: user, admin

Flow of events:

1. User adds username and password and click on login button

Alternatives: if the information is not correct the system will display message

Post condition:

The system returns to homepage.

3. Use case: place order

Description: the user can purchase books by ordering the books

Actors: user

Precondition: a user must logged in

Flow of events:

1. User can search the book by name on home page.
2. A user can add to cart the product and then proceed checkout.

Post condition:

After the completion of order the user returns to home page and can search for more books

4. Use case: checkout

Description:

A user can proceed to checkout once he have added all the books required in the cart

Actors: user

Precondition: user must have one book in the shopping cart

Flow of events:

1. The customer clicks on the checkout button on the webpage
2. System shows the books he is going to purchase
3. User enters destination for delivery of products and clicks on proceed button
4. User confirms the order

Alternatives: if there is no book in cart then system will display message

Post condition:

The system returns to homepage.

3.1.4 CONSTRUCTION:

At the very beginning, history of HTML and CSS was analyzed deeply in order to take proper use out of it. After that, HTML5 was used to create a body for the page and its layout was sweetly crafted using CSS3. Then using these two tools and Bootstrap I created the home page which consists of a bar with signup, login, and search bar links. Some sample cards of books and a footer for extra information. Then login and sign up pages were created based on same theme. After that I installed xampp for the backend. I used php and mysql for creating shopping cart functionality and

books cards based on data saved in database. Description page was also designed for book details and connected with database. To facilitate user I created pages for information about policies, delivery and return and exchange policy.

3.1.5 Deployment:

In the early stage, each page was hosted separately on a local host on the google chrome browser and then they were critically examined and combined decisions were made to upgrade them. Full website was deployed in 2nd iteration which resulted in the fully functional end-product.

2# ITERATION

3.2.1

REQUIREMENTS:

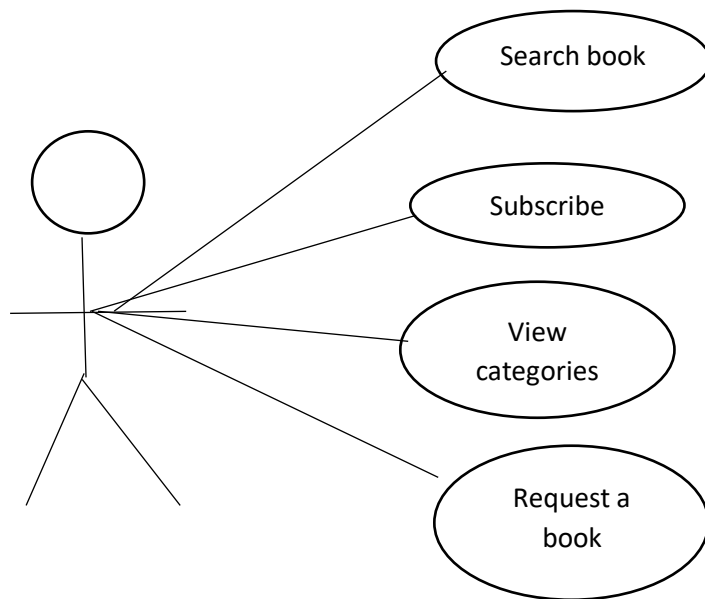
- The website must provide a search bar where user can search books by entering book name or author name.
- The website should allow users to request a book if the book is not currently available.
- User should be able to select and add to cart books from a vast range of categories defined on home page
- User can subscribe by entering his email so he will updated with our recent products.

3.2.2 PLANNING

I planned to complete the search bar and divide the books into categories using database in first week of 2nd iteration. And in the 2nd week I would design and implement the form for request a book.

3.2.3 MODELING

Usecase:



USER

Usage scenarios:

1.NAME: VIEW CATEGORIES

SUMMARY: User can search the products with their specific name.

DEPENDENCIES: None

ACTOR: Customer

PRE-CONDITION:

Home page will have a navbar containing an option of Categories. Products will be displayed categorically. User can also search specific item by its name.

FLOW OF EVENTS:

- User will enter the name of item that he wants to search.
- The item along with its detail will be displayed

ALTERNATIVES:

The user can search the item with its specific identity too.

POST CONDITION:

After the searching of the item the result will be displayed along with the details of that product.

2.NAME: request a book

SUMMARY: User can request the products by entering details in the form.

DEPENDENCIES: None

ACTOR: Customer

PRE-CONDITION:

The book required by customer is not available in the book store

FLOW OF EVENTS:

- User will be directed to the form where he will enter his information and information about the product that he wants to order and is not available in the book store.

POST CONDITION:

The user will be informed when the product he requested is available on the website.

3.2.4 CONSTRUCTION:

I made the request a book form by using php, mysql, html and css. Then the search bar functionality was made. And at the end I categorized book my making few new pages and used mysql queries to divide the books dynamically.

3.2.5 DEPLOYMENT:

I deployed my website on 000webhost.com

4. TOOLS AND TECHONOLGY:

For the project we used the following tools and technologies;

Tools:

- Visual Studio Code
- Xampp
- PHPMysqladmin

Technologies:

- HTML5
- CSS3
- JAVASCRIPT ES5
- PHP
- MySQL


5. Relevant Snapshots of the web application developed:

Home page:





← → ↻ localhost/myproject/index.php#

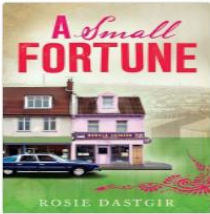
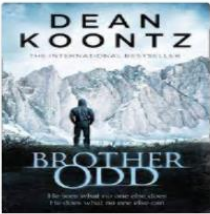


BOOKSSTUDIO Home sign in Logout Cart 0 Search by book name or author

Fiction ▾ Non-fiction ▾ Children Books ▾ Urdu Books ▾ Digital marketing



FREE SHIPPING 🚚 FAST DELIVERY ✈️ ORIGINAL BOOKS 📖 20+ CATEGORIES ✓

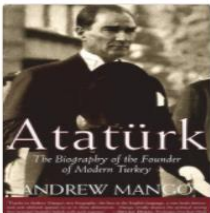


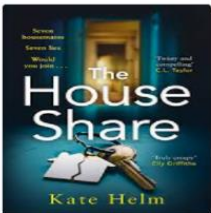





a small fortune
1000 Rs
By: Rosie Dastgir
Add to Cart 🛒

Brother odd
1000 Rs
By: Dean Koontz
Add to Cart 🛒

between lives
1000 Rs
By: Michael Newton
Add to Cart 🛒

Game of Thrones
1000 Rs
By: r.r martin
Add to Cart 🛒

Ataturk
1000 Rs

Drama queen
1000 Rs

Meerkat Mail
500 Rs

The House Share
1000 Rs

CAN'T FIND WHAT YOU'RE LOOKING FOR?

REQUEST A
BOOK

Subscribe and stay updated on the
latest books, promotions and events

write your email

subscribe

Information

Returns & Exchange policy
About us
Shipping & Delivery

Customer support

✉ booksstudio@gmail.com
☎ +91 22-27782183
📍 gulshan-e-iqbal sector 4, Karachi, Pakistan

Contact BooksStudio

Contact us



Login page:

BOOK

Home sign in Logout Cart 0

Search by book name or author

LOGIN

USERNAME

Enter your username

PASSWORD

Enter your password

sign up if not a user!

LOGIN

Information

Returns & Exchange policy
About us
Shipping & Delivery

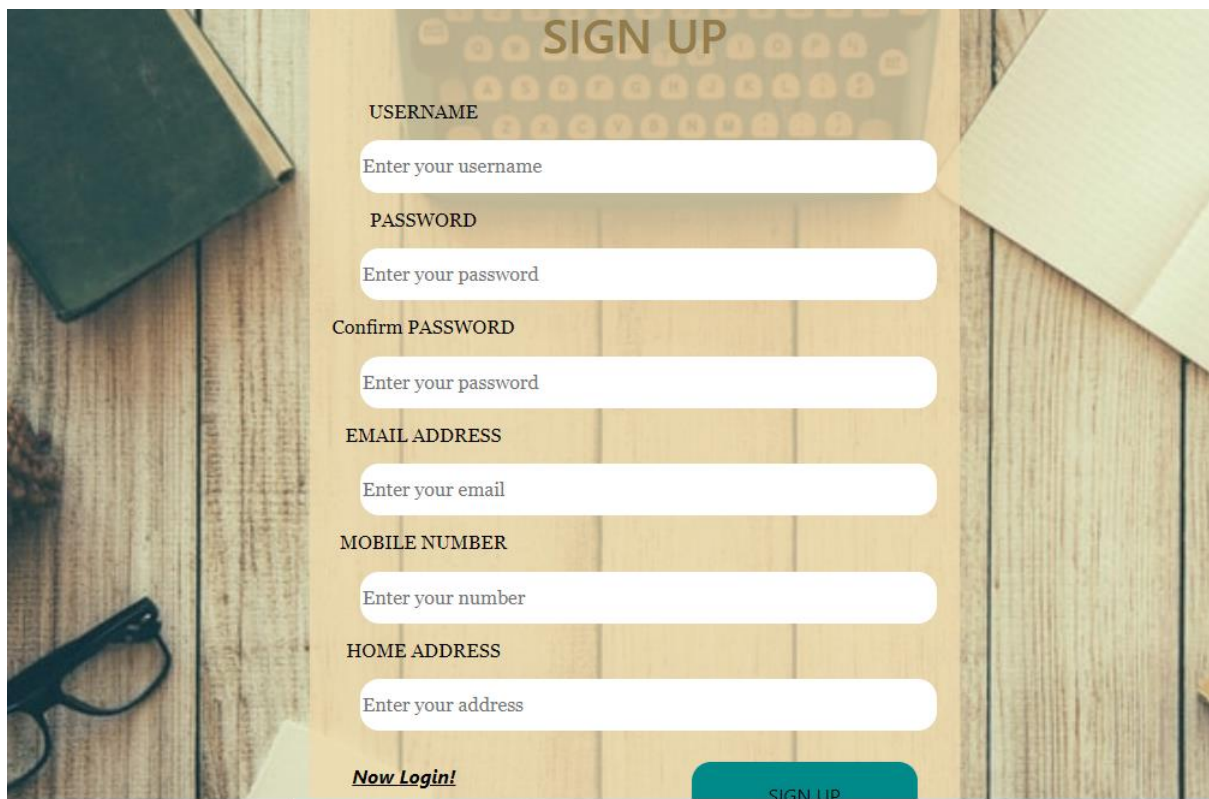
Customer support

✉ booksstudio@gmail.com
☎ +91 22-27782183

Contact BooksStudio

Contact us

Sign up page:



The sign up page features a wooden desk background with a green book and glasses. The form includes fields for USERNAME, PASSWORD, Confirm PASSWORD, EMAIL ADDRESS, MOBILE NUMBER, and HOME ADDRESS. A 'Now Login!' link and a 'SIGN UP' button are at the bottom.

SIGN UP

USERNAME
Enter your username

PASSWORD
Enter your password

Confirm PASSWORD
Enter your password

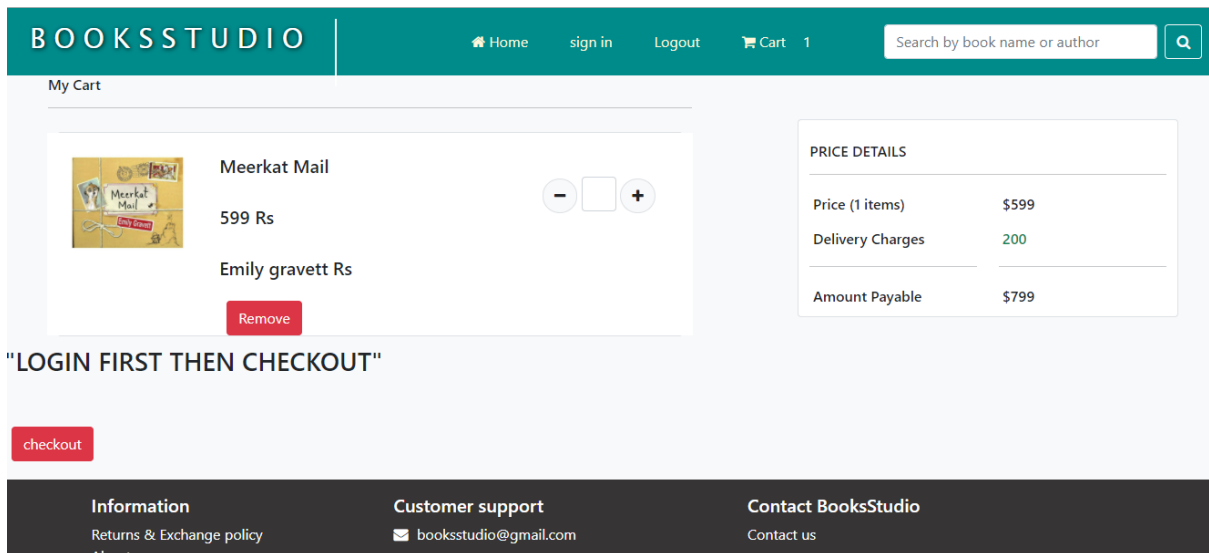
EMAIL ADDRESS
Enter your email

MOBILE NUMBER
Enter your number

HOME ADDRESS
Enter your address

[Now Login!](#) [SIGN UP](#)


cart page:



The cart page shows a teal header with the BooksStudio logo and navigation links. The main content area displays the item 'Meerkat Mail' by Emily Gravett with a price of 599 Rs and a 'Remove' button. A 'PRICE DETAILS' table shows the total amount payable as \$799. A 'checkout' button is at the bottom left, and a footer contains contact information.

BOOKSSTUDIO Home sign in Logout Cart 1 Search by book name or author

My Cart

 Meerkat Mail
599 Rs
Emily gravett Rs
[Remove](#)

PRICE DETAILS

Price (1 items)	\$599
Delivery Charges	200
Amount Payable	\$799

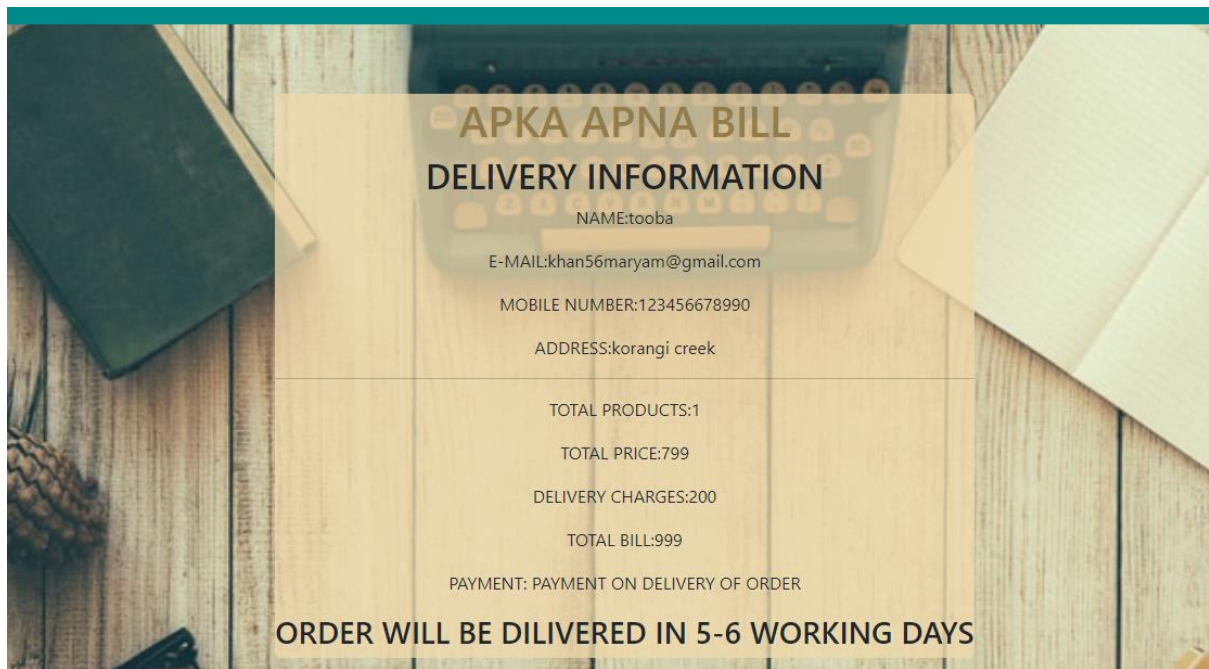
[checkout](#)

Information
Returns & Exchange policy
About us

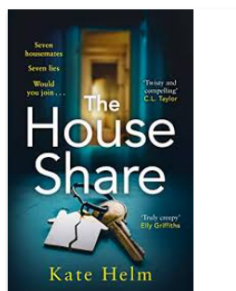
Customer support
✉ booksstudio@gmail.com

Contact BooksStudio
Contact us

Checkout page:



Details page:



The House Share

1500 Rs

By: Kate Helm

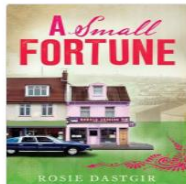
Add to Cart

Description

The Hunting Party meets Our House in this gripping, claustrophobic new locked-room thriller. When you're sharing a house with seven murder suspects, you can't lock the danger out . . . Immi think she has found the perfect new home in central London: a shared warehouse with luxury accommodation, a rooftop terrace and daily yoga, all with a surprisingly affordable price tag. The Dye Factory is a 'co-living' community, designed to combat the loneliness of big city life.

Categories pages:

FICTION AND LITERATURE

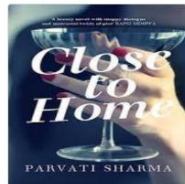


a small fortune

1000 Rs

By: Rosie Dastgir

[Add to Cart](#)

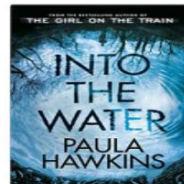


Close To Home

1200 Rs

By: Parvati Sharma

[Add to Cart](#)



Into The Water

1450 Rs

By: Paula Hawkins

[Add to Cart](#)

BOOKSSTUDIO

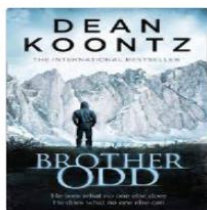
[Home](#)

[sign in](#)

[Logout](#)

[Cart](#) 1

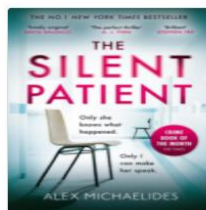
CLASSIC



Brother odd

1000 Rs

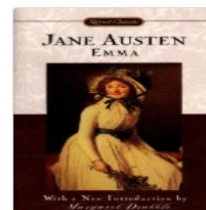
By: Dean Kontz



The Silent Patient

1295 Rs

By: Alex Michaelides



Emma

1550 Rs

By: jane austen

Request a book page:

REQUEST A BOOK

Title

Author

ISBN

Name

Contact

E-mail

Returns policy page:

BOOKSSTUDIO Home sign in Logout Cart 0 Search by book name or author

Terms and conditions

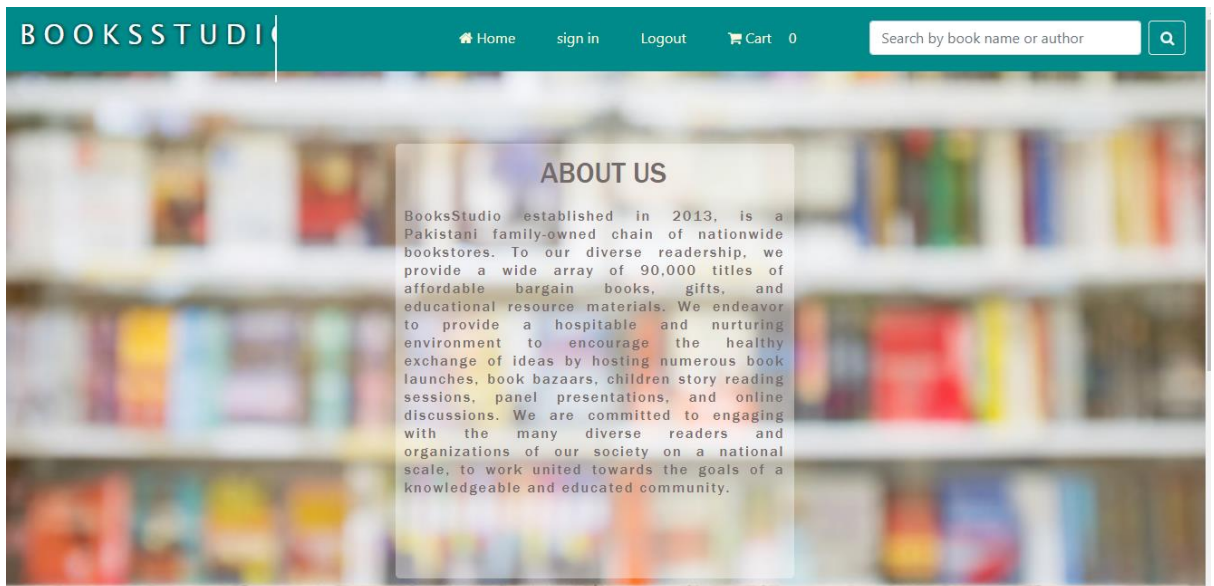
1. Please do not accept if the parcel is unsealed or damaged.
2. Customers are not allowed to open the parcel before handing over payment unless it is prepaid.
3. In case of any defects or complaints regarding the parcel, please contact customer service within 24 hours.
4. Please note that after 24 hours of delivery no complaint will be entertained.
5. The product must be unused with the price tag attached. Once our team has reviewed and is satisfied, exchange or refund will be initiated.

Information
Returns & Exchange policy
About us

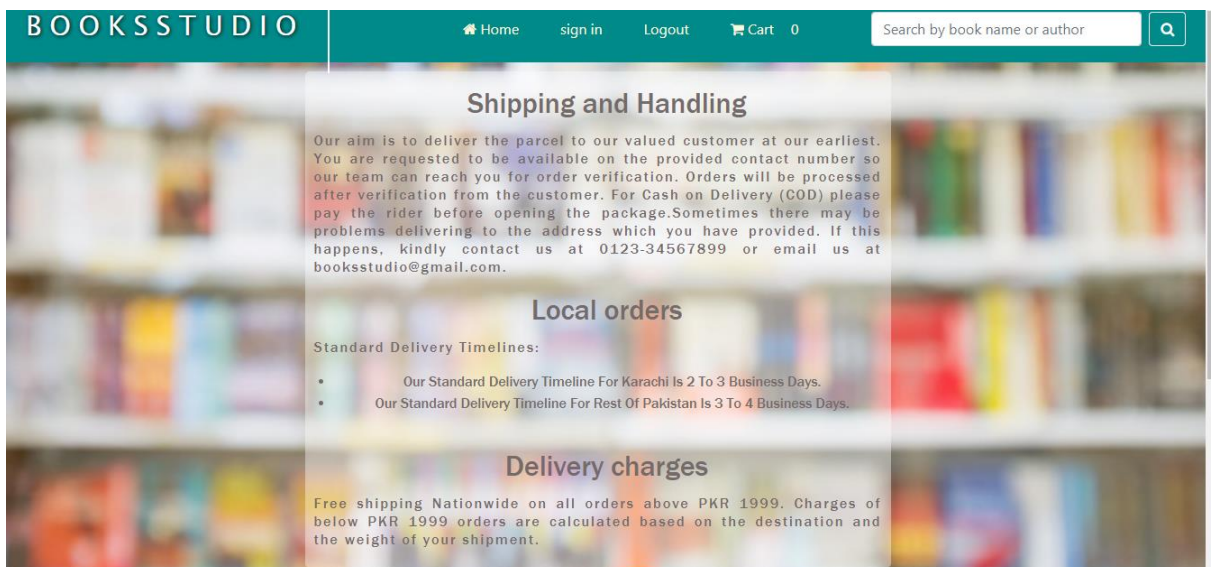
Customer support
✉ booksstudio@gmail.com

Contact BooksStudio
Contact us

About page:

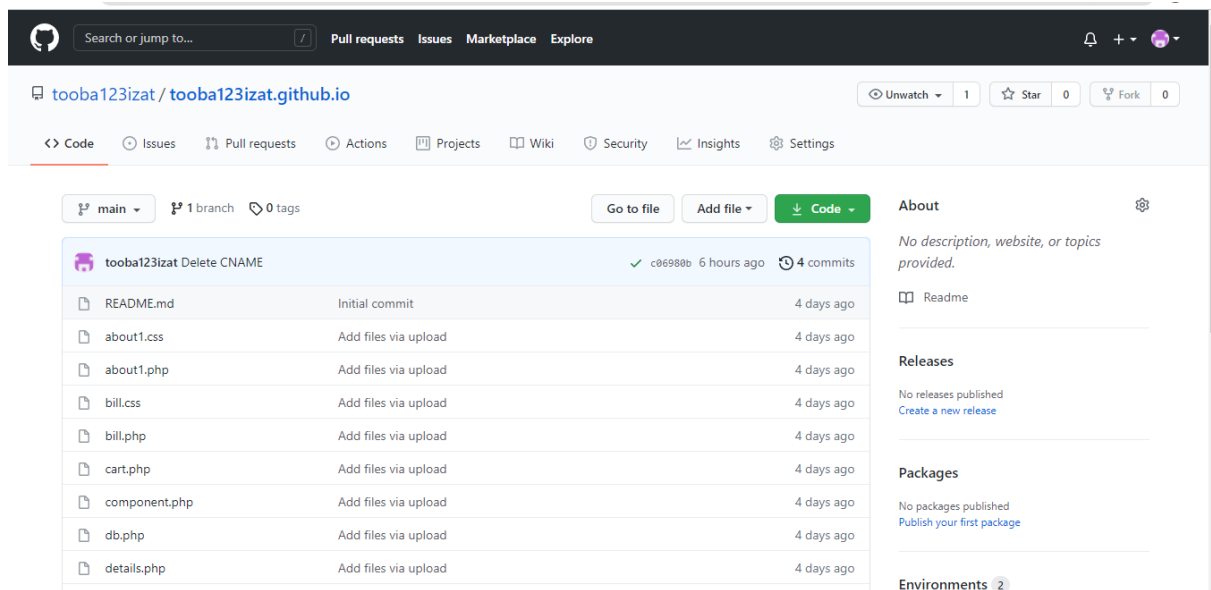


Delivery policies:



7. GITHUB LINK:

<https://github.com/tooba123izat/tooba123izat.github.io>



7. Hosting link of the application

<https://booksstudios.000webhostapp.com/>