Book Online Store

Introduction:

- **Store Name:** Bookiee
- **Description:** A PHP-based e-commerce web application for an online bookstore, allowing users to browse, search, and purchase books, manage carts and orders, and contact support, with an admin dashboard for managing products, orders, users, and messages.
- **Technologies:** HTML, CSS, JavaScript, PHP, MySQL
- **Database:** MySQL with tables: register (users), products (books), cart (user cart), orders (order details), message (contact messages)

Requirements:

- **User Requirements:**
  - Admin and user login functionality.
  - Admin dashboard for product management, order tracking, user removal, message handling, Record keeping of pending and completed payments, overview of total admin and user accounts.
  - User-friendly cart system with the ability to add, search, and delete items.
  - Intuitive search functionality for quick product discovery.
  - Checkout process to add delivery details.
  - User messaging system for queries and assistance.

- **System Requirements:**
  - Functional Requirements: These specify what the system must do, aligning with user requirements but in technical terms.

    - User Registration: The system shall allow users to register by inserting a record into the register table with name, email, password (hashed), and user type (default: user).
    - User Login: The system shall authenticate users by querying the register table with email and password,

- ♦ Browse Products: The system shall display up to 6 products from the products table on (home.php) and all products on (shop.php) with name, price, and image.
- ♦ Search Products: The system shall query the products table for products matching a user-provided search term (using LIKE) and display results.
- ♦ Add to Cart: The system shall check if a product exists in the cart table for the user; if not, insert a record with user_id, name, price, quantity, and image.
- ♦ Manage Cart: The system shall update the cart table's quantity field or delete records based on user input and display the updated cart with subtotals.
- ♦ Place Order: The system shall insert a record into the orders table with user_id, name, number, email, method, address, total_products, total_price, placed_on, and payment_status (default: pending), then clear the user's cart.
- ♦ View Orders: The system shall query the orders table for records matching the user_id and display order details (date, products, price, status).
- ♦ Contact Support: The system shall insert a message into the message table with user_id, name, email, number, and message, preventing duplicates.
- ♦ Admin Dashboard: The system shall query the orders, products, register, and message tables to display metrics (pending/completed payments, total orders, products, users, admins, messages).
- ♦ Manage Orders: The system shall allow admins to update the payment_status field or delete records in the orders table.
- ♦ Manage Users: The system shall display all records from the register table and allow admins to delete user records.
- ♦ Manage Messages: The system shall display all records from the message table and allow admins to delete messages.

♣ non-functional requirements: These specify how the system performs its functions, focusing on quality attributes.

- ♦ Performance: The system shall respond to user actions (e.g., add to cart, place order) within 2 seconds under normal load (100 concurrent users).
- ♦ Security: The system shall protect user data by:

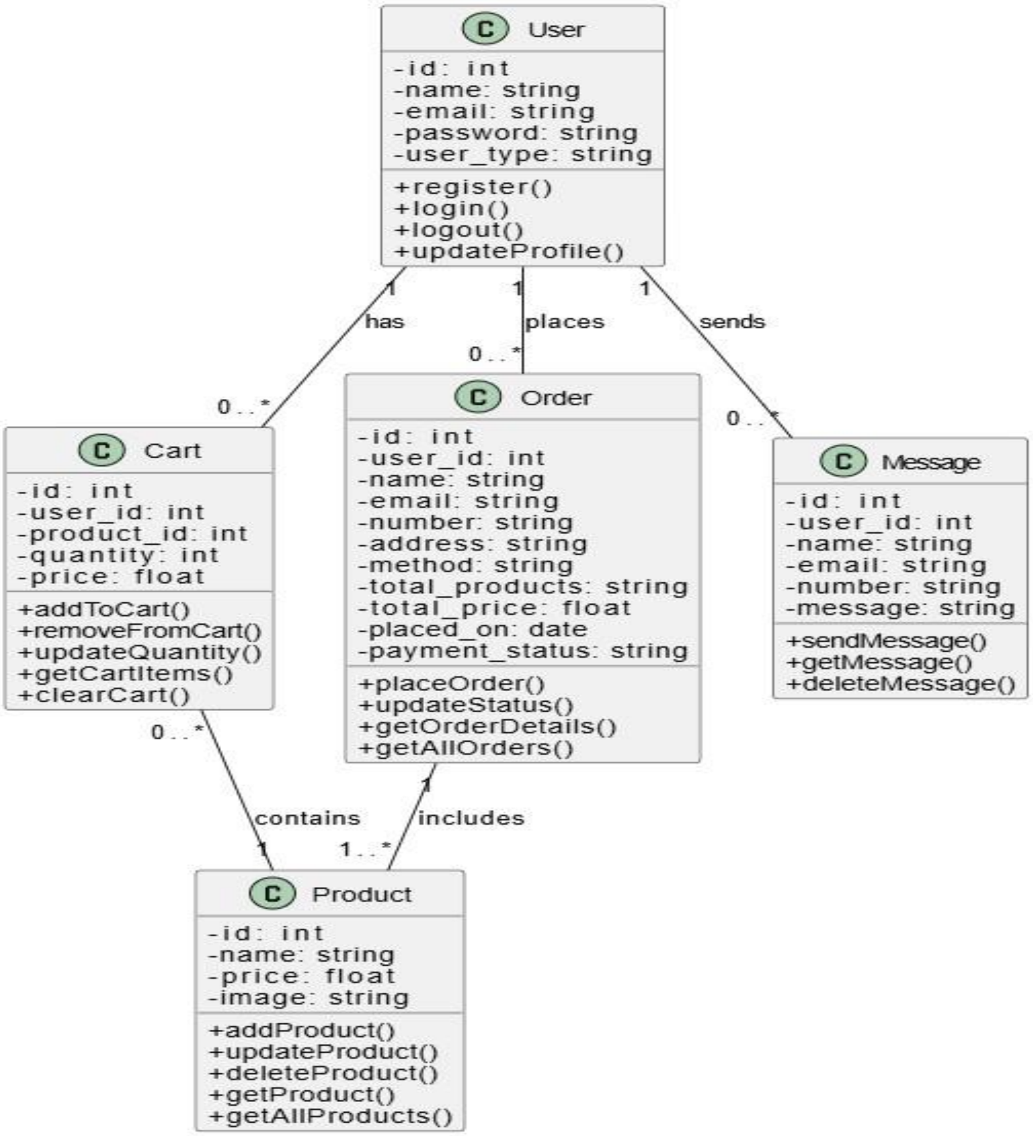
        - Hashing passwords (currently MD5 in register.php, recommend password_hash()).
        - Using mysqli_real_escape_string to prevent SQL injection
        - Securing sessions (logout.php clears sessions).
    - Usability: The system shall provide a responsive interface for desktop and mobile devices, with clear navigation and error messages.
    - Scalability: The system shall support up to 10,000 products and orders, using AUTO_INCREMENT for primary keys in products, orders, cart.
    - Reliability: The system shall handle database errors gracefully, avoiding crashes (currently uses or die ('query failed')).
    - Maintainability: The system shall be modular, with separate files for user (home.php, cart.php) and admin (admin_products.php) functionalities.

System Modeling:

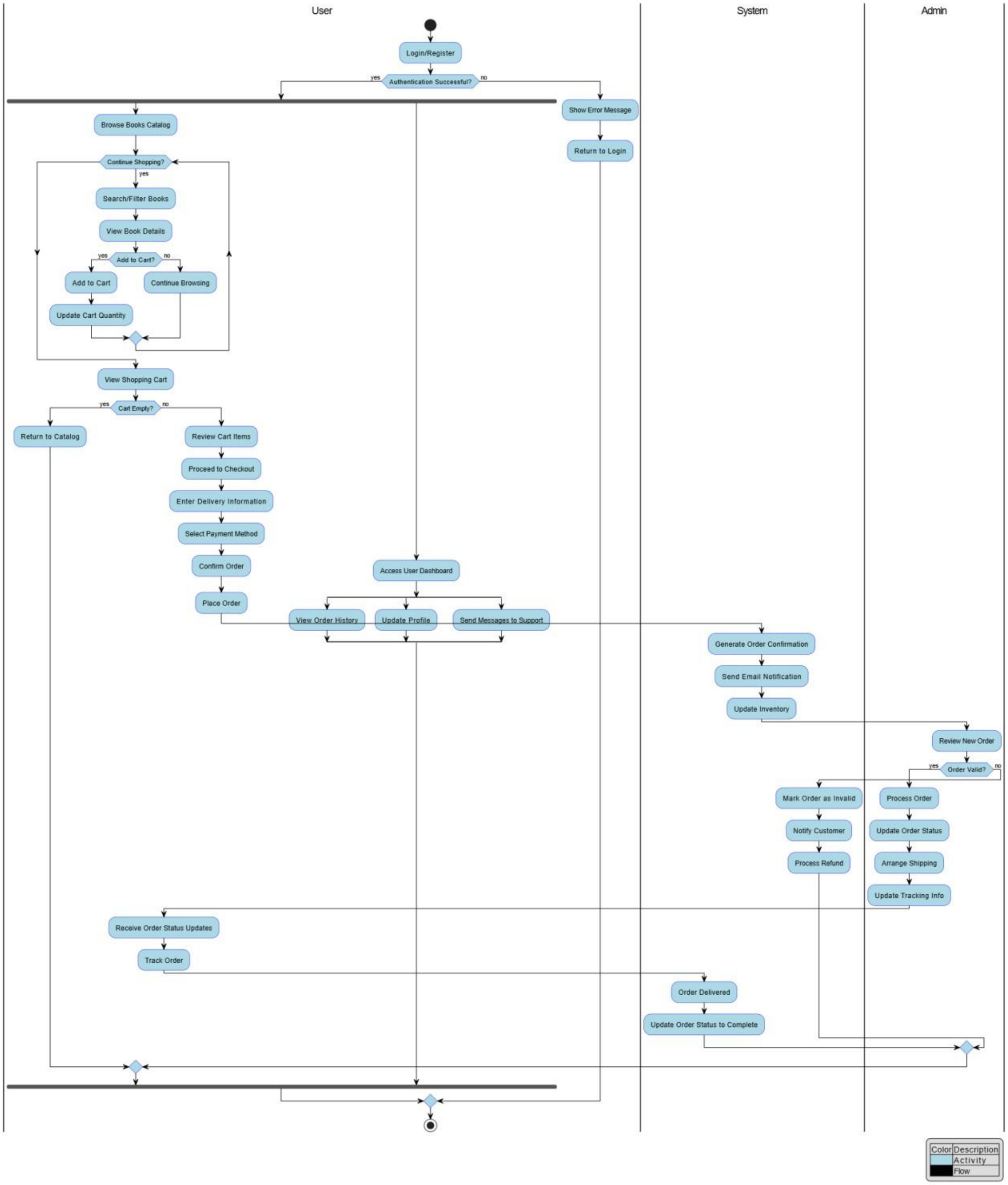
- Type:
    - 3-tier architecture (Presentation, Business Logic, Data).
- Presentation Layer:
    - HTML/CSS/JavaScript for user and admin interfaces.
    - Files: home.php, admin_page.php, style.css, home.css, login.css, admin.css.
- Business Logic Layer:
    - PHP handles requests, processes data, and interacts with the database.
    - Files: home.php (add to cart), checkout.php (order placement), admin_products.php (product management).
- Data Layer:
    - MySQL database with tables: register, products, cart, orders, message (dbqueries).
    - Connection: config.php (mysqli_connect('localhost','root','','books')).

Design:

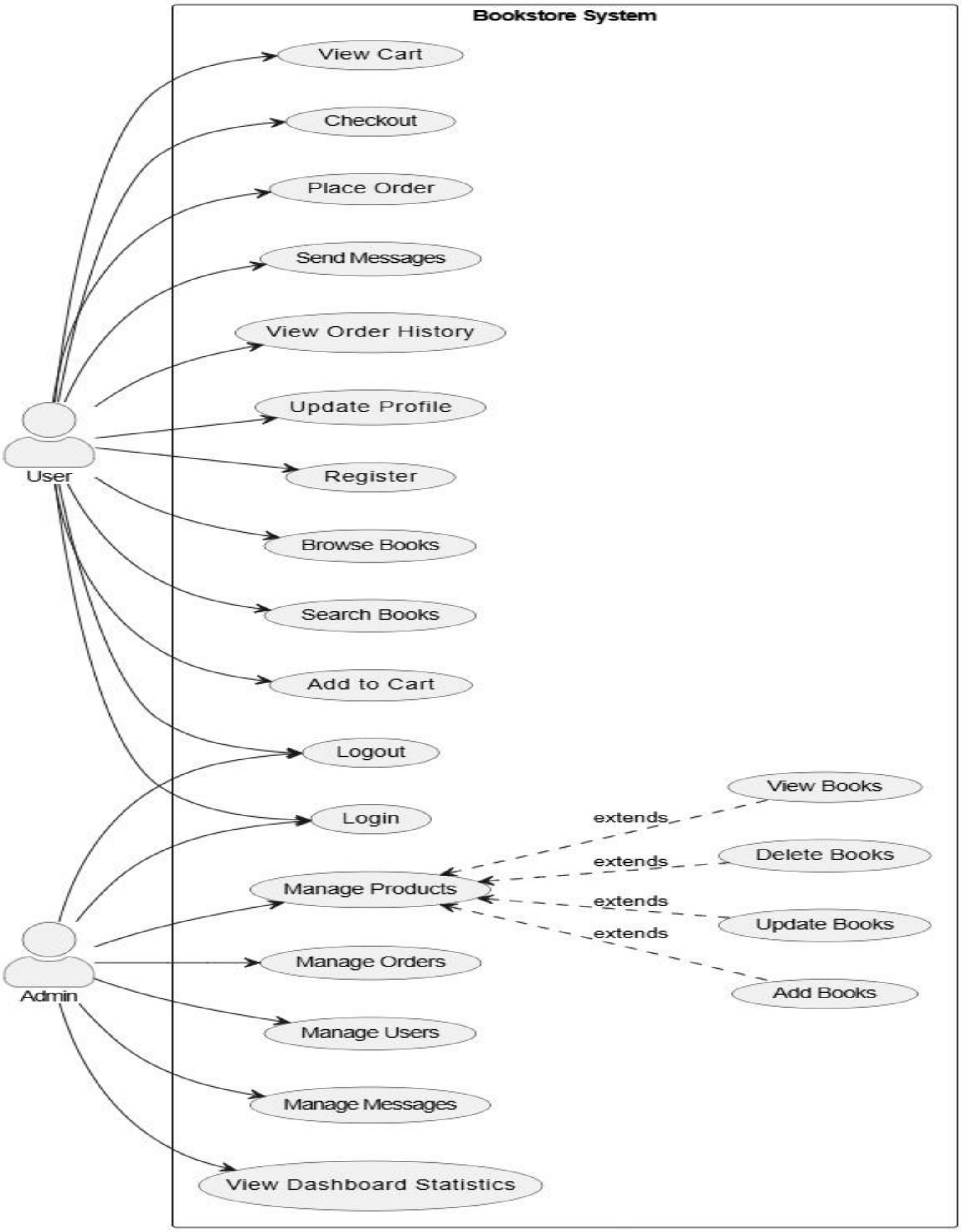
❖ Class Diagram:



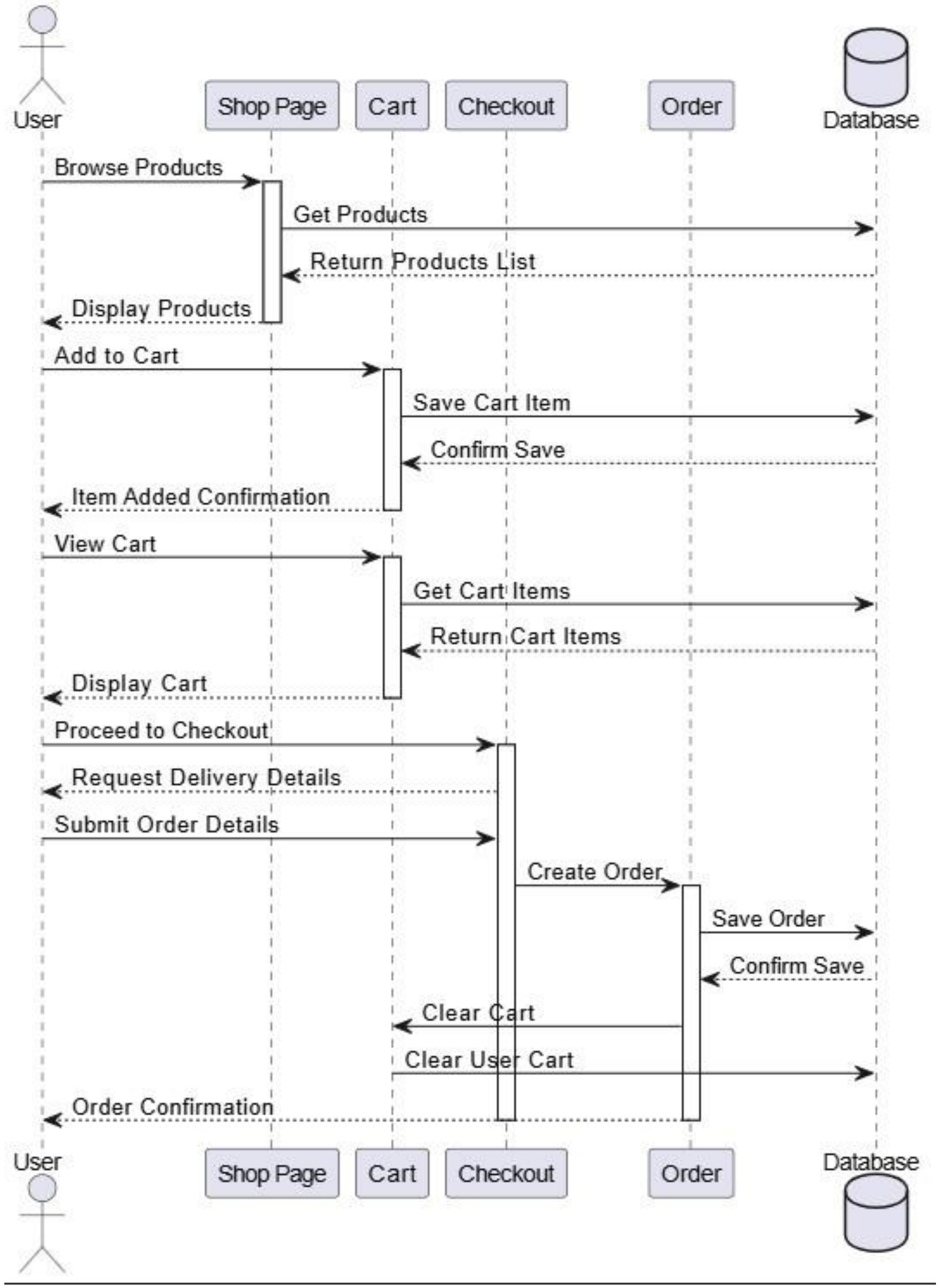
❖ Activity Diagram:



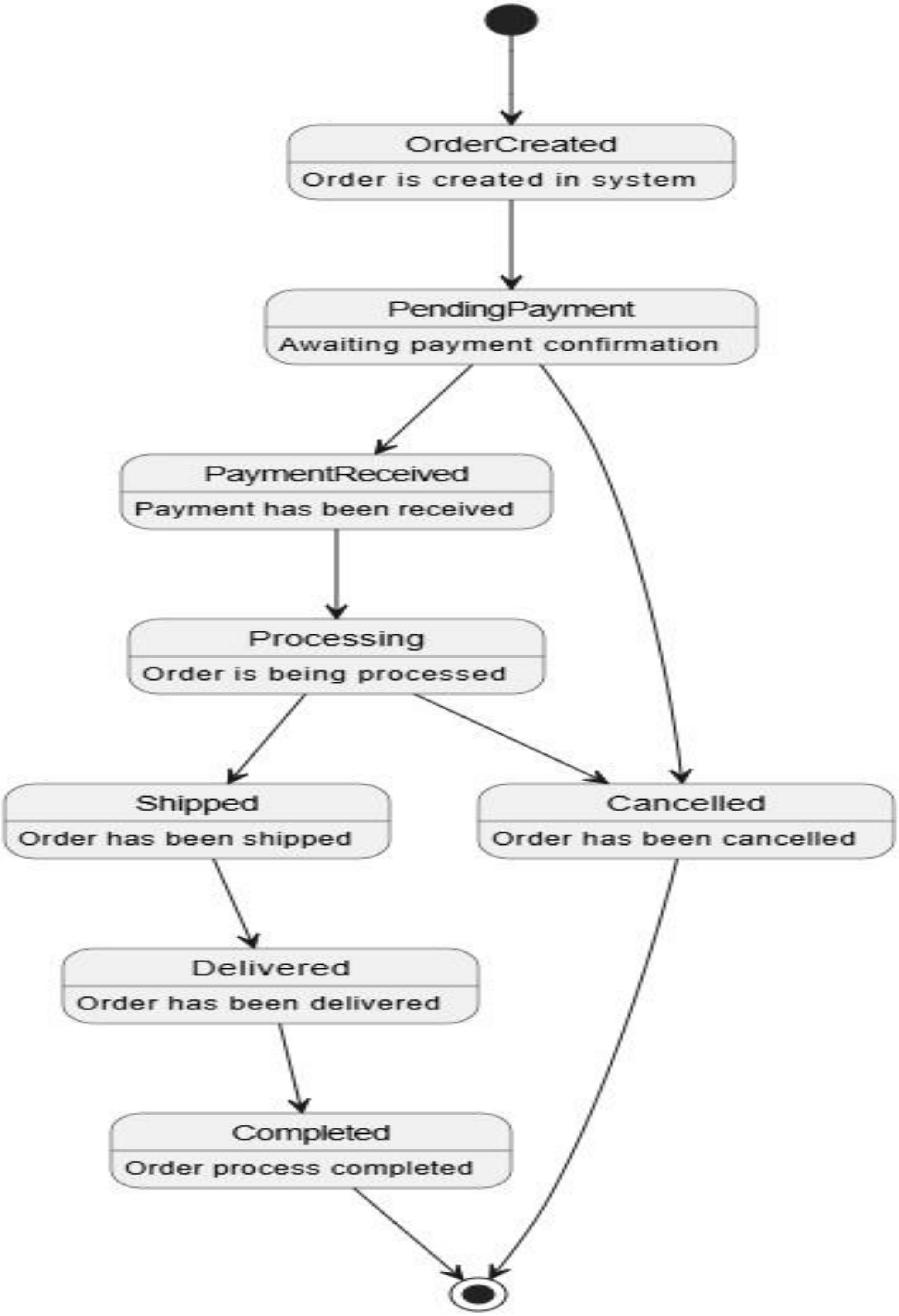
❖ UseCase Diagram:



❖ Sequence Diagram:



❖ State Diagram:



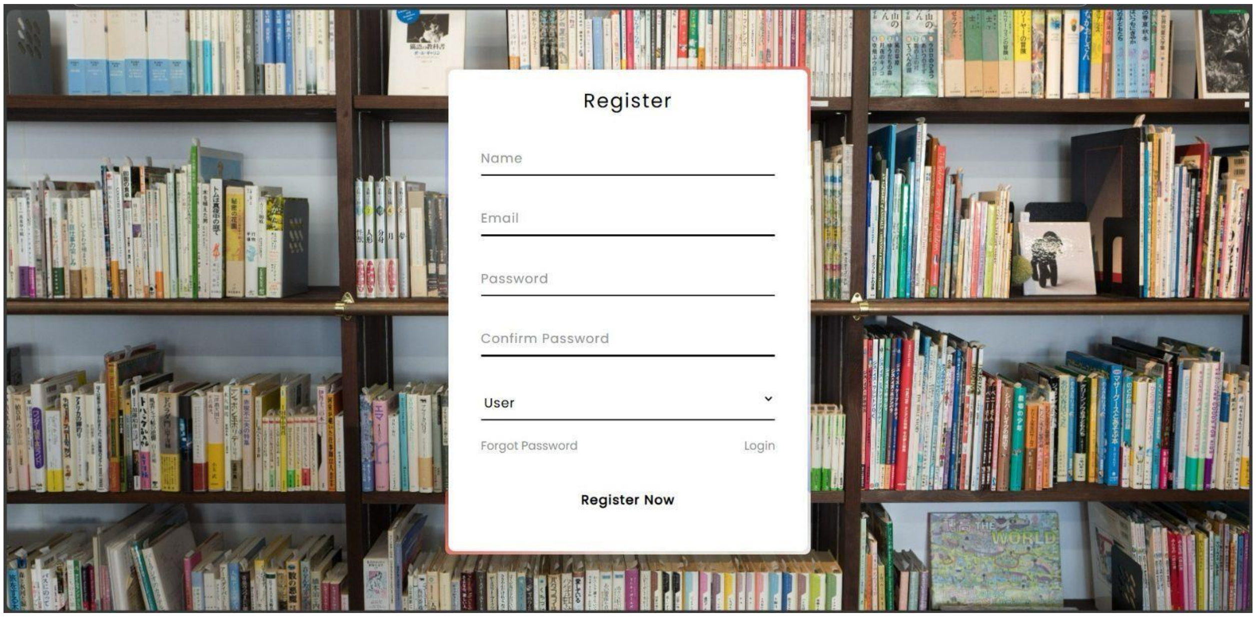
Implementation:

- **The implementation phase of the "Bookiee" online bookstore project involves translating the design specifications (e.g., architecture, database schema, use**

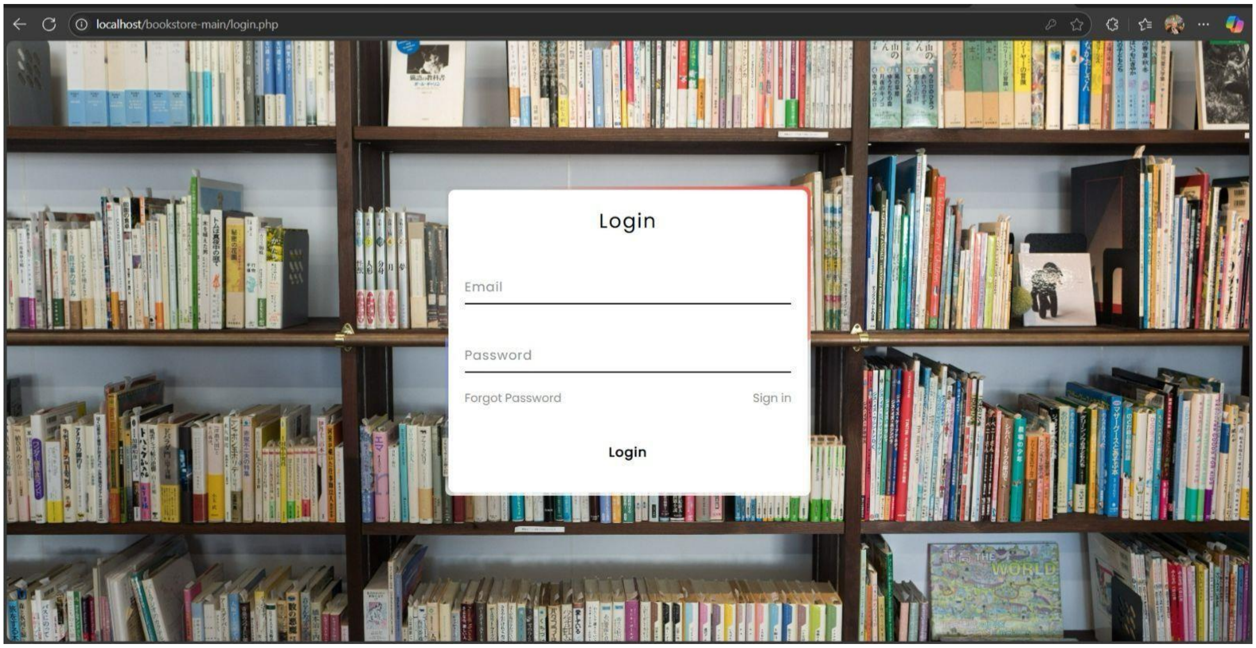
case diagrams) into a functional system using the provided codebase. The project was developed using HTML, CSS, JavaScript, and PHP, with the XAMPP application to set up a local server environment for testing and deployment.

Testing:

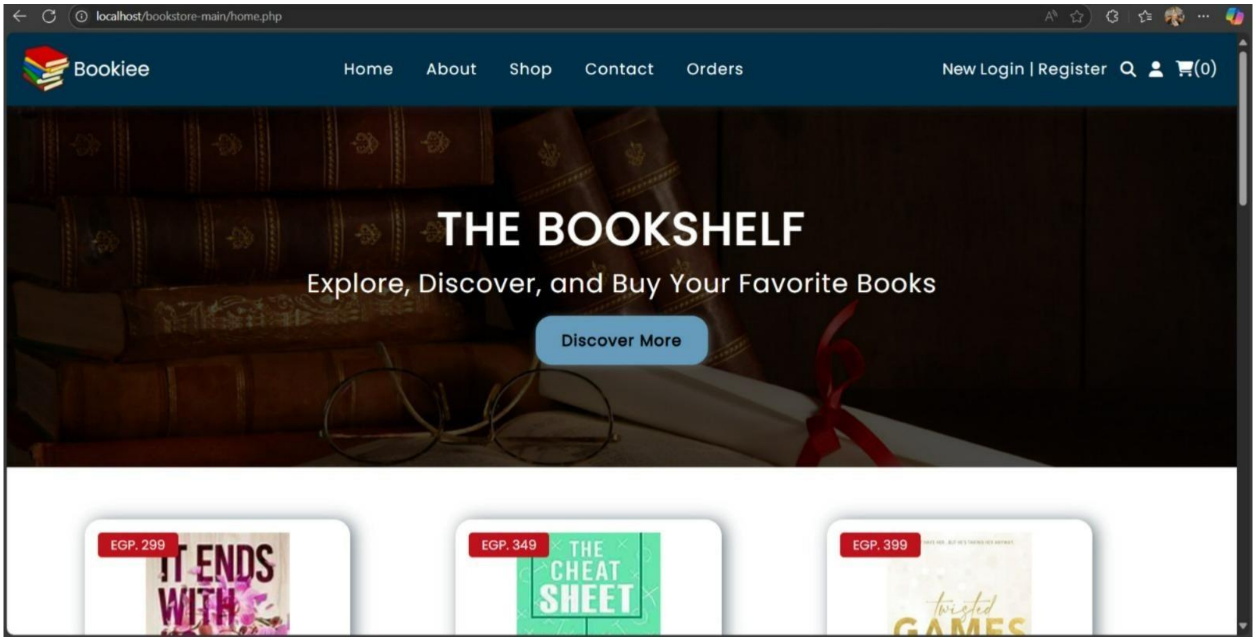
❖ Register Page:



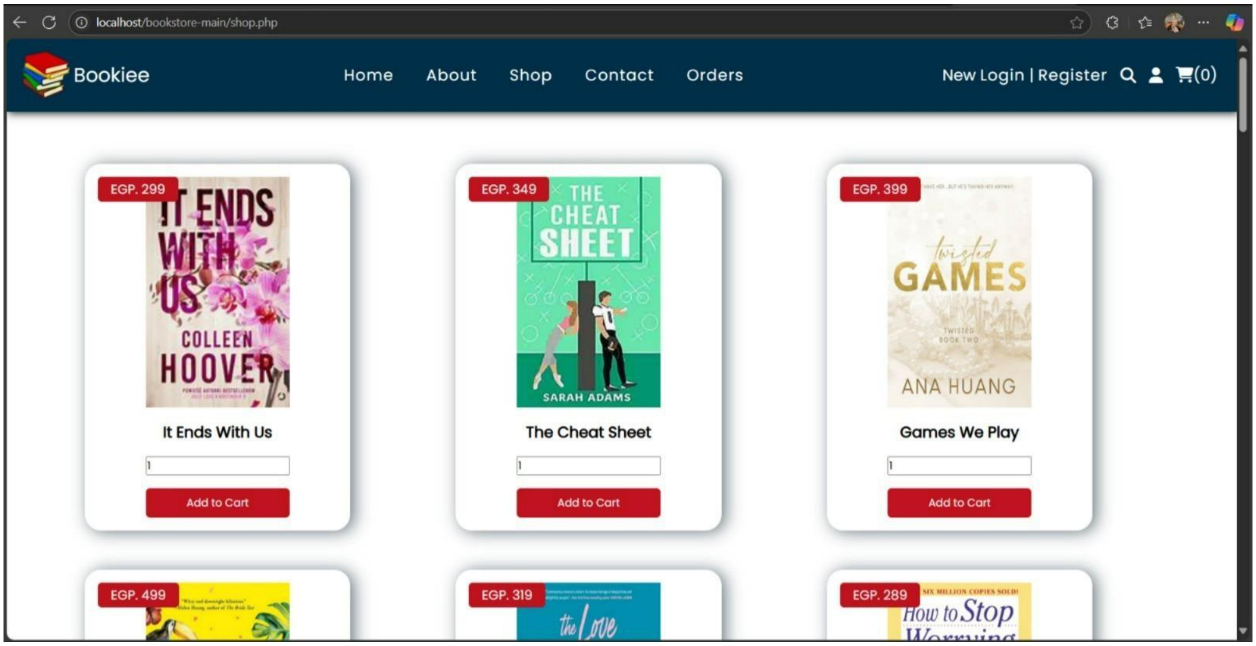
❖ Admin and User Login Page:



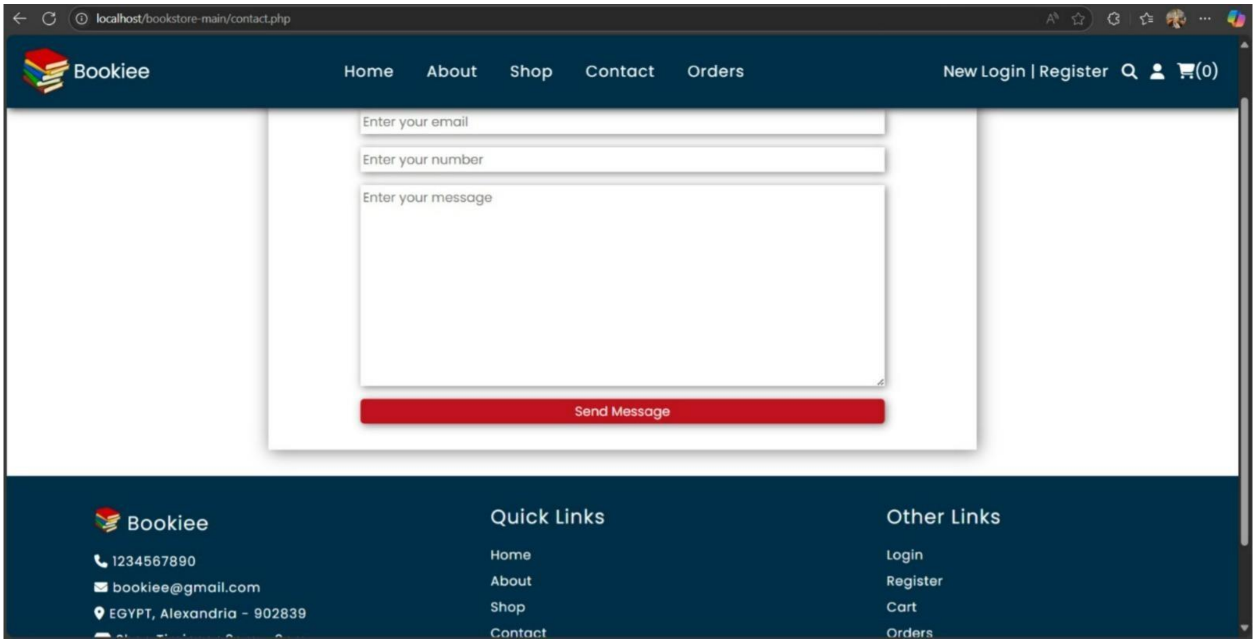
❖ Home Page:



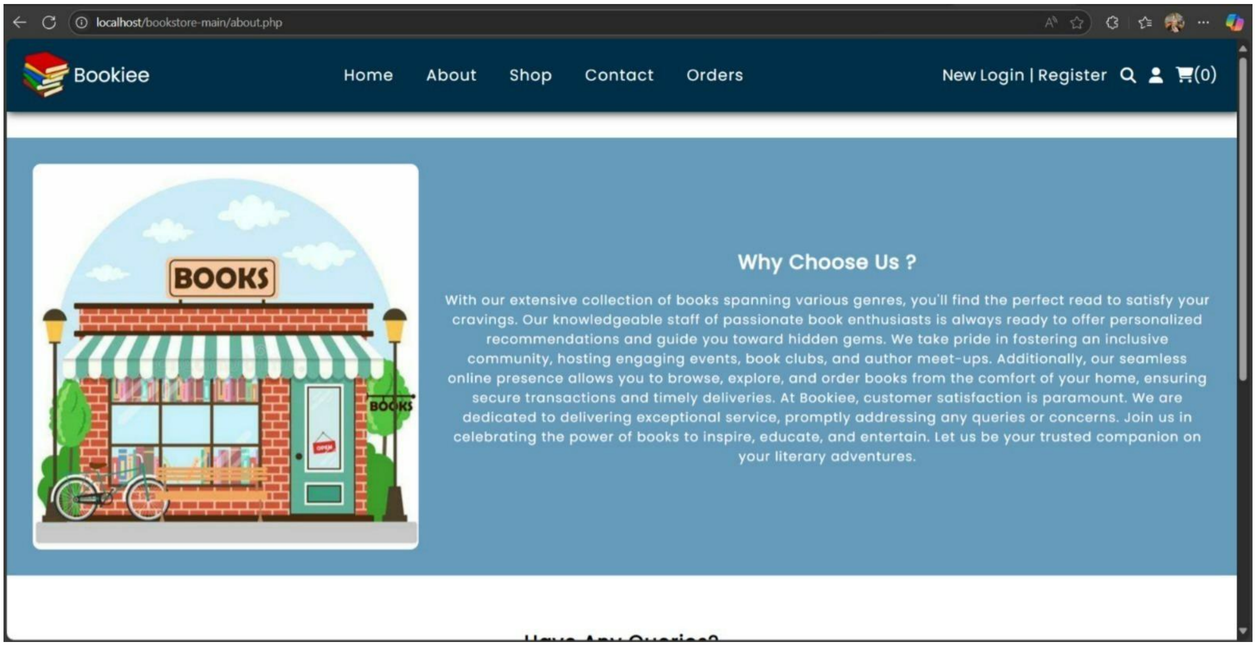
❖ Shop Page:



❖ Contact Us Page:

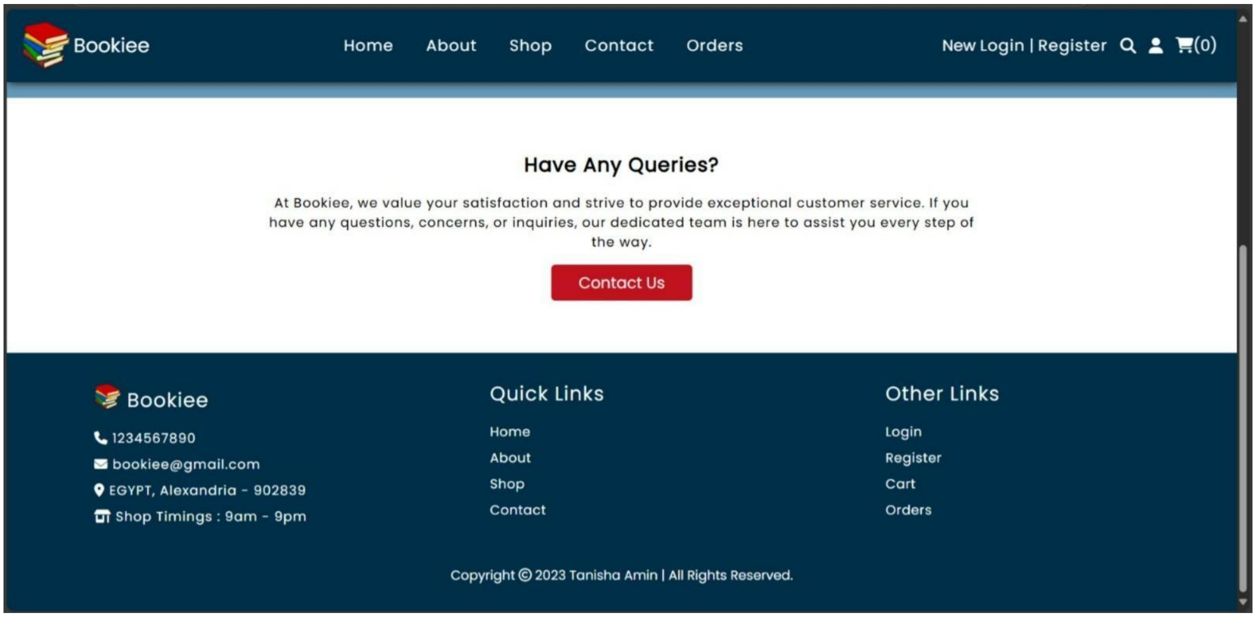


❖ About Page:



Why Choose Us ?

With our extensive collection of books spanning various genres, you'll find the perfect read to satisfy your cravings. Our knowledgeable staff of passionate book enthusiasts is always ready to offer personalized recommendations and guide you toward hidden gems. We take pride in fostering an inclusive community, hosting engaging events, book clubs, and author meet-ups. Additionally, our seamless online presence allows you to browse, explore, and order books from the comfort of your home, ensuring secure transactions and timely deliveries. At Bookiee, customer satisfaction is paramount. We are dedicated to delivering exceptional service, promptly addressing any queries or concerns. Join us in celebrating the power of books to inspire, educate, and entertain. Let us be your trusted companion on your literary adventures.



Have Any Queries?

At Bookiee, we value your satisfaction and strive to provide exceptional customer service. If you have any questions, concerns, or inquiries, our dedicated team is here to assist you every step of the way.

☎ 1234567890
bookiee@gmail.com
EGYPT, Alexandria - 902839
Shop Timings : 9am - 9pm

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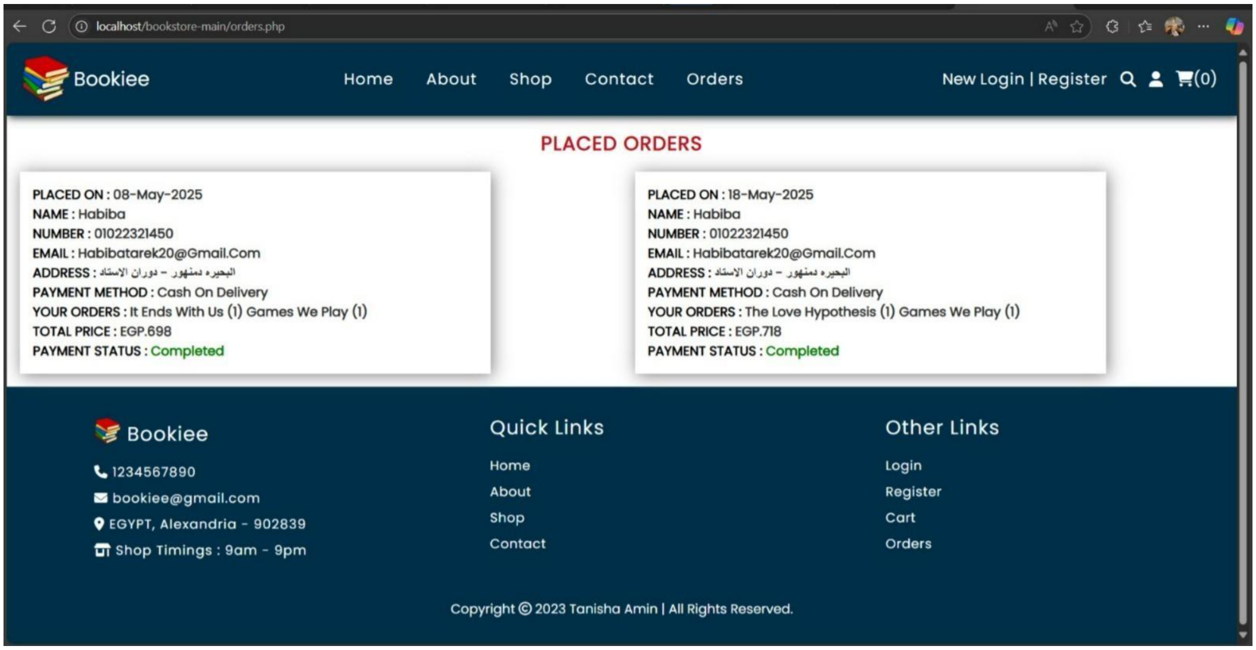
❖ User Orders Page:



PLACED ORDERS

PLACED ON : 08-May-2025
NAME : Habiba
NUMBER : 01022321450
EMAIL : Habibatarek20@Gmail.Com
ADDRESS : البحيره دمنهور – دوران الاستاد
PAYMENT METHOD : Cash On Delivery
YOUR ORDERS : It Ends With Us (1) Games We Play (1)
TOTAL PRICE : EGP.698
PAYMENT STATUS : Completed

PLACED ON : 18-May-2025
NAME : Habiba
NUMBER : 01022321450
EMAIL : Habibatarek20@Gmail.Com
ADDRESS : البحيره دمنهور – دوران الاستاد
PAYMENT METHOD : Cash On Delivery
YOUR ORDERS : The Love Hypothesis (1) Games We Play (1)
TOTAL PRICE : EGP.718
PAYMENT STATUS : Completed

Bookiee
1234567890
bookiee@gmail.com
EGYPT, Alexandria - 902839
Shop Timings : 9am - 9pm

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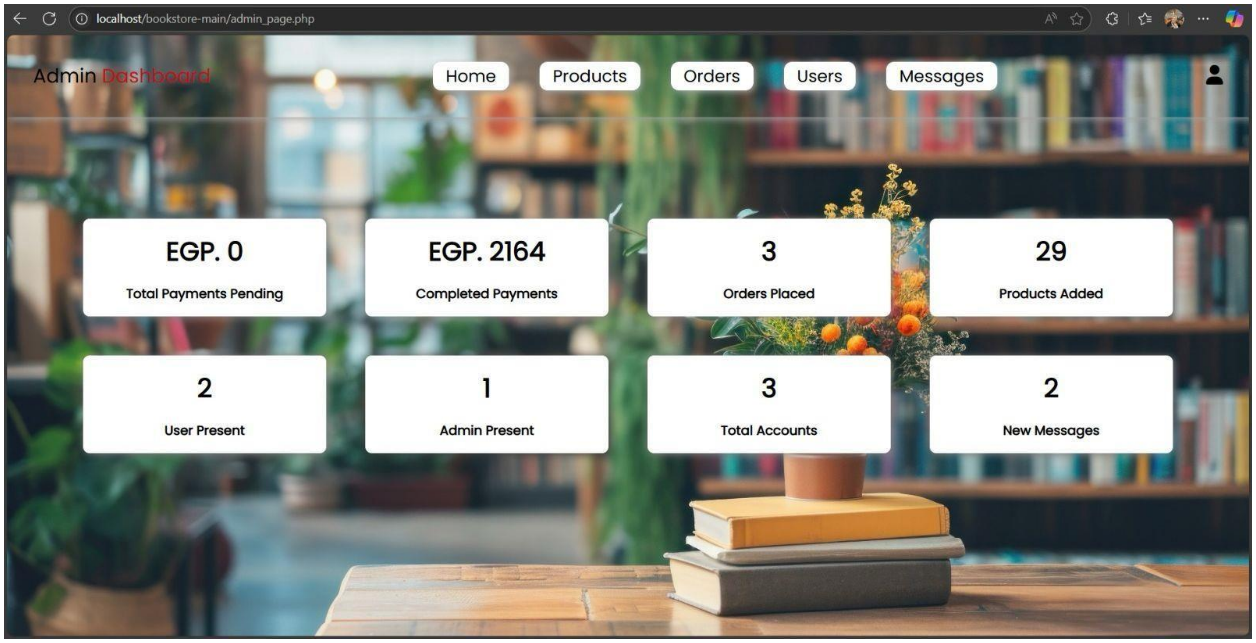
❖ Admin Dashboard (Home) Page:



EGP. 0
Total Payments Pending

EGP. 2164
Completed Payments

3
Orders Placed

29
Products Added

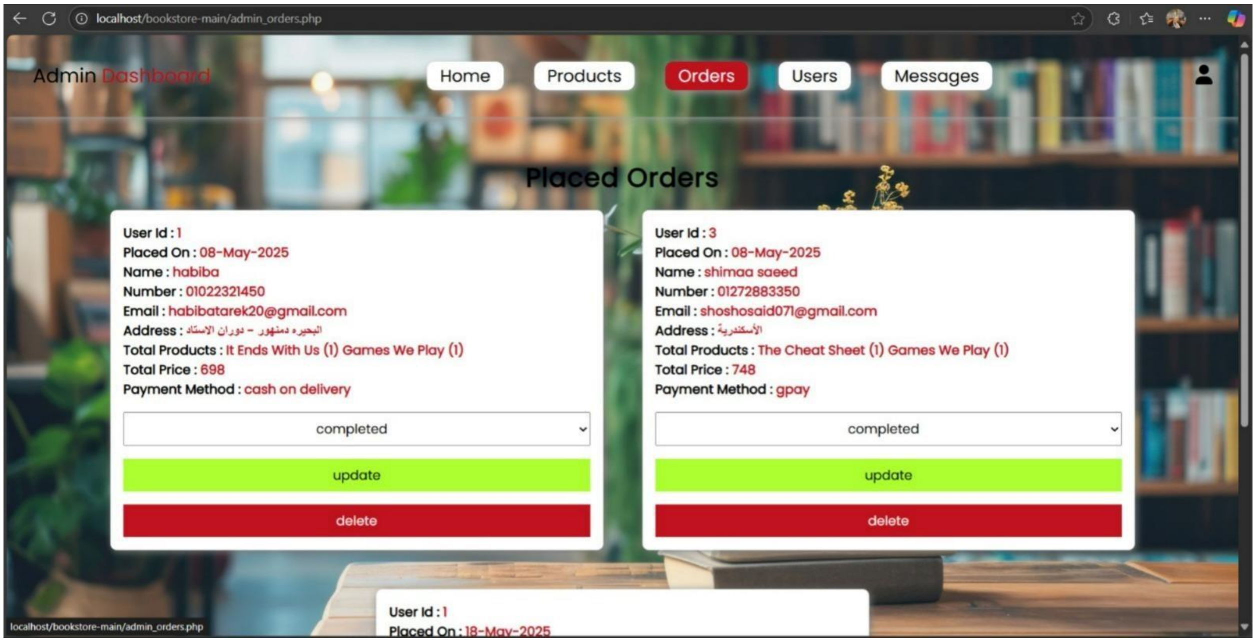
2
User Present

1
Admin Present

3
Total Accounts

2
New Messages

❖ Admin Orders Page:



Placed Orders

User Id : 1
Placed On : 08-May-2025
Name : habiba
Number : 01022321450
Email : habibatarek20@gmail.com
Address : البحيره دمنهور – دوران الاستاد
Total Products : It Ends With Us (1) Games We Play (1)
Total Price : 698
Payment Method : cash on delivery

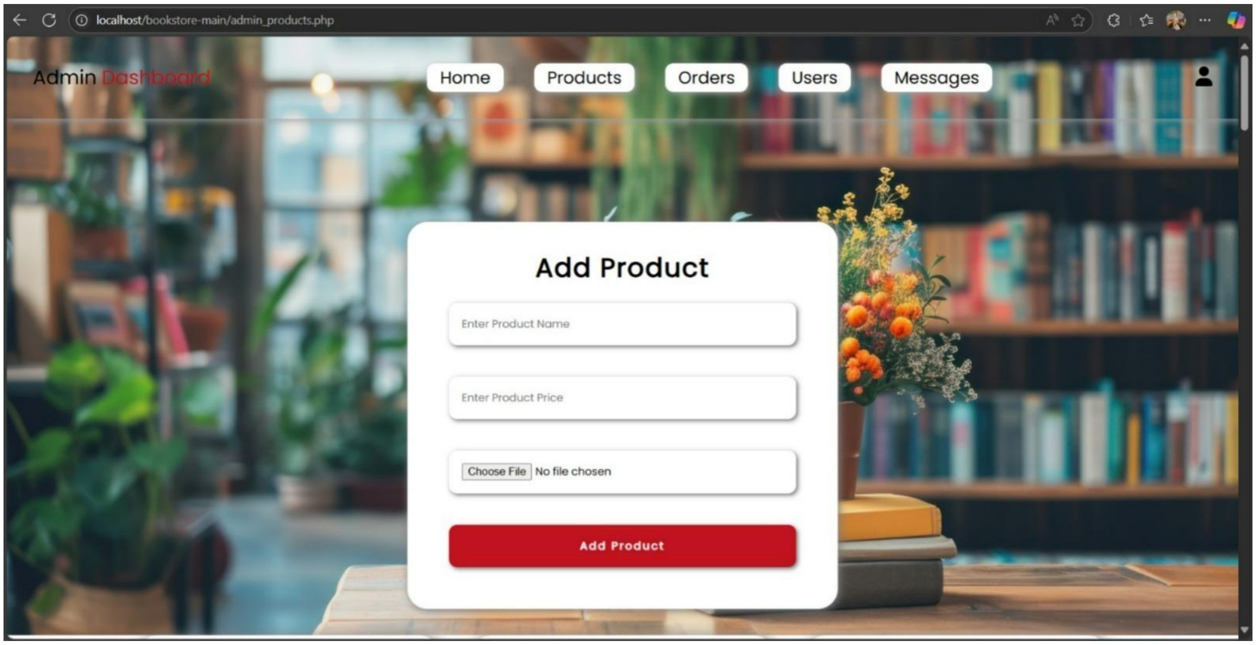
completed

User Id : 3
Placed On : 08-May-2025
Name : shimaa saeed
Number : 01272883350
Email : shoshosaid071@gmail.com
Address : الأسكندرية
Total Products : The Cheat Sheet (1) Games We Play (1)
Total Price : 748
Payment Method : gpay

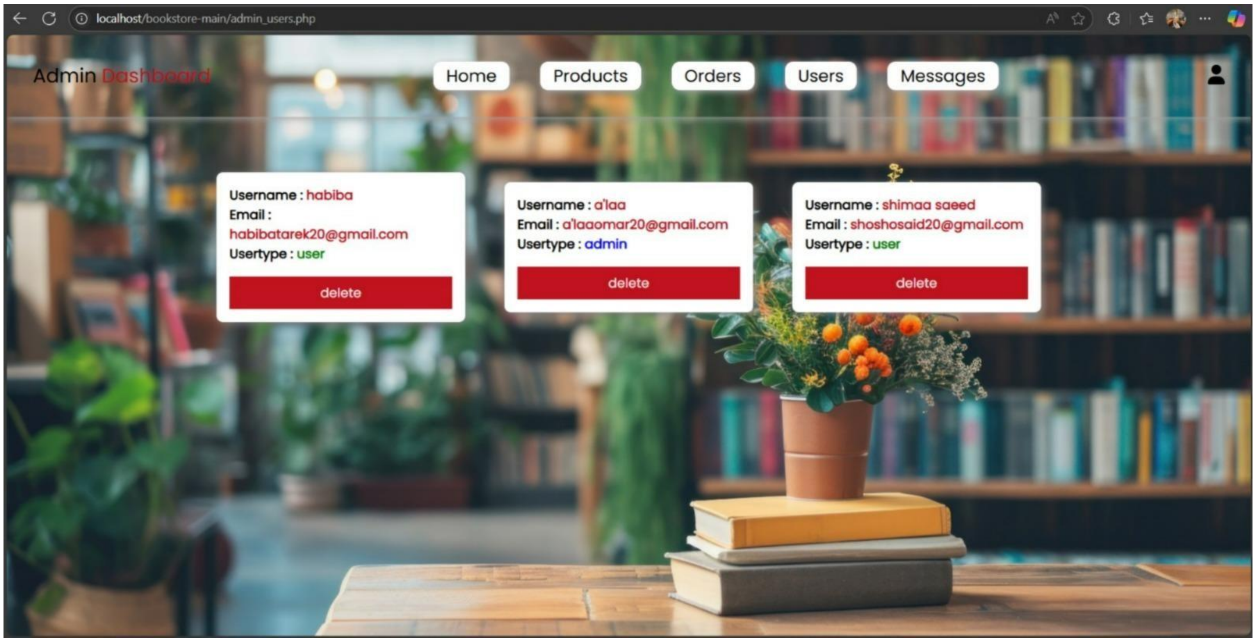
completed

User Id : 1
Placed On : 18-May-2025

❖ Admin Product Page:



❖ Admin control User Page:

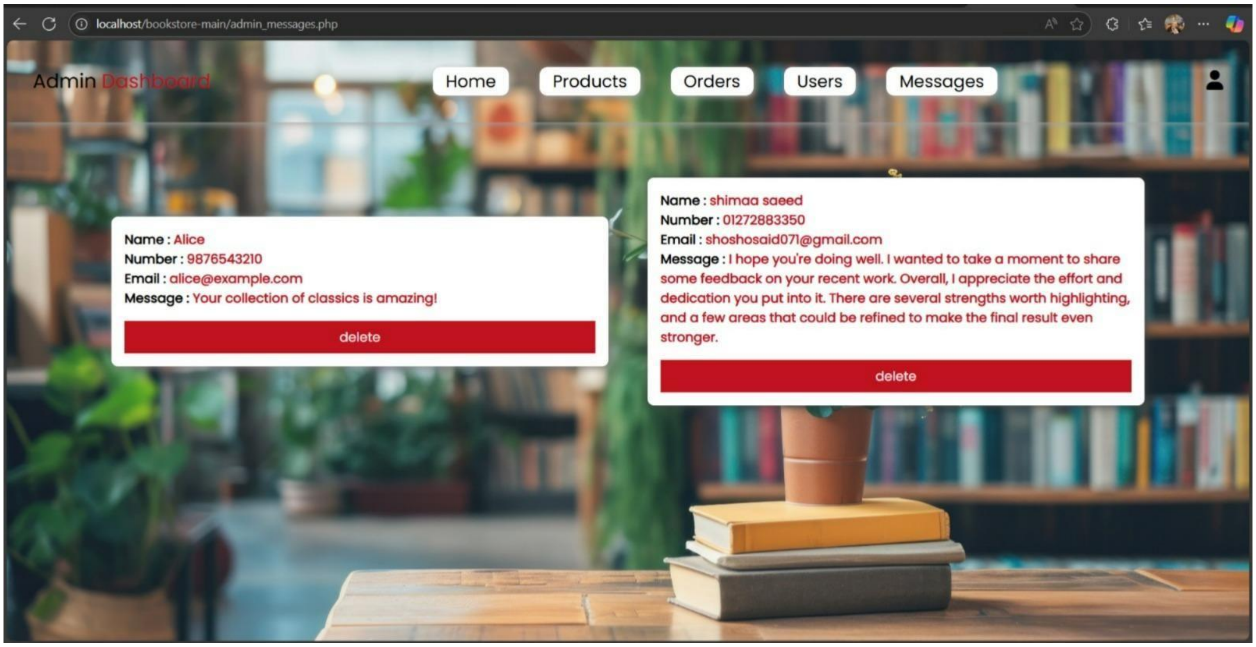


Username : habiba
Email :
habibatarek20@gmail.com
Usertype : user

Username : a'laa
Email : a'laaomar20@gmail.com
Usertype : admin

Username : shimaa saeed
Email : shoshosaid20@gmail.com
Usertype : user

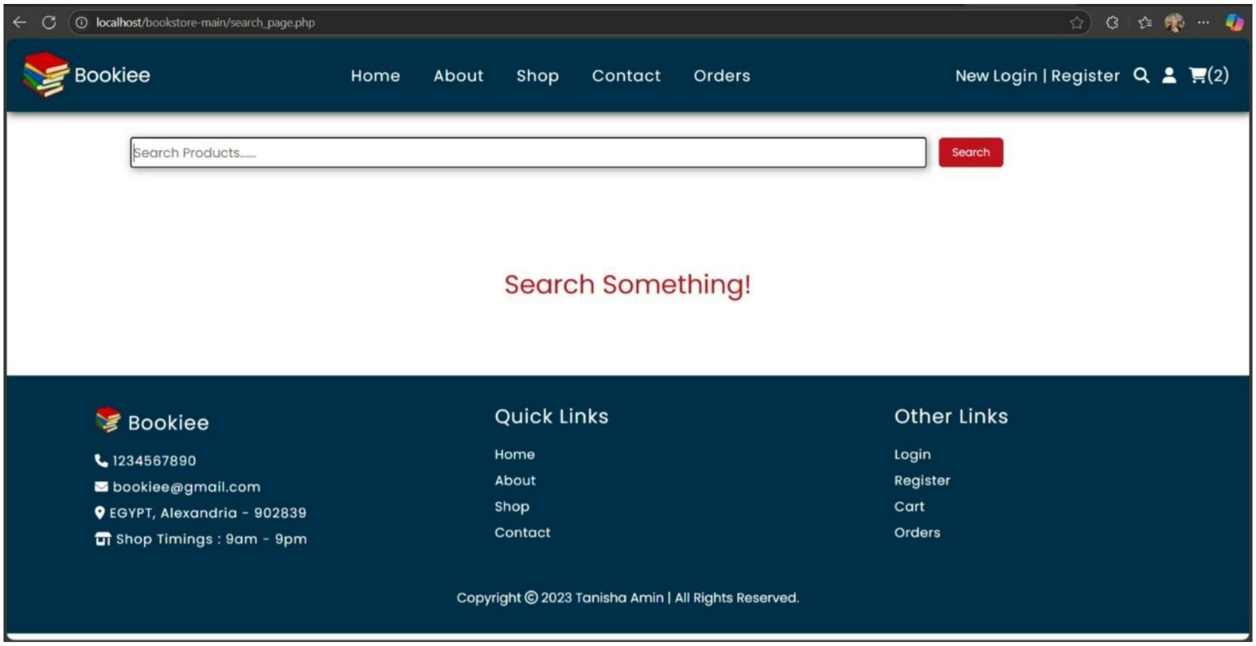
❖ Admin Message Page:



Name : Alice
Number : 9876543210
Email : alice@example.com
Message : Your collection of classics is amazing!

Name : shimaa saeed
Number : 01272883350
Email : shoshosaid071@gmail.com
Message : I hope you're doing well. I wanted to take a moment to share some feedback on your recent work. Overall, I appreciate the effort and dedication you put into it. There are several strengths worth highlighting, and a few areas that could be refined to make the final result even stronger.

❖ Search Page:



Search Something!

Bookiee

1234567890

bookiee@gmail.com

EGYPT, Alexandria - 902839

Shop Timings : 9am - 9pm

Quick Links

Home

About

Shop

Contact

Other Links

Login

Register

Cart

Orders

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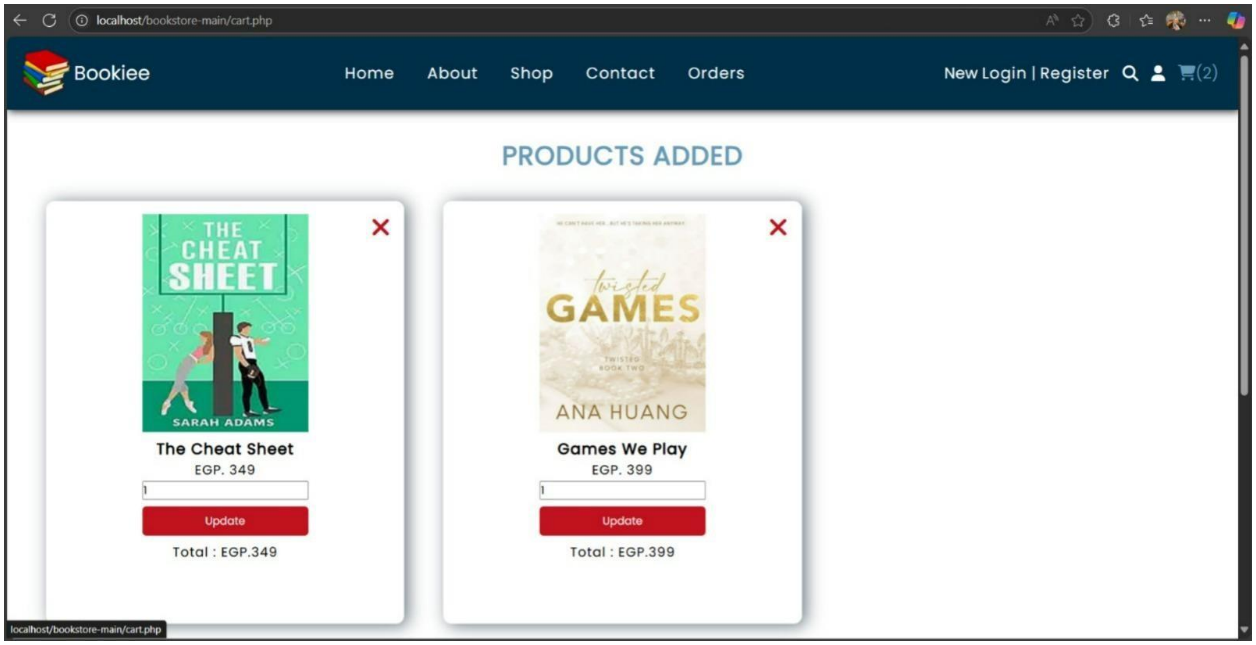
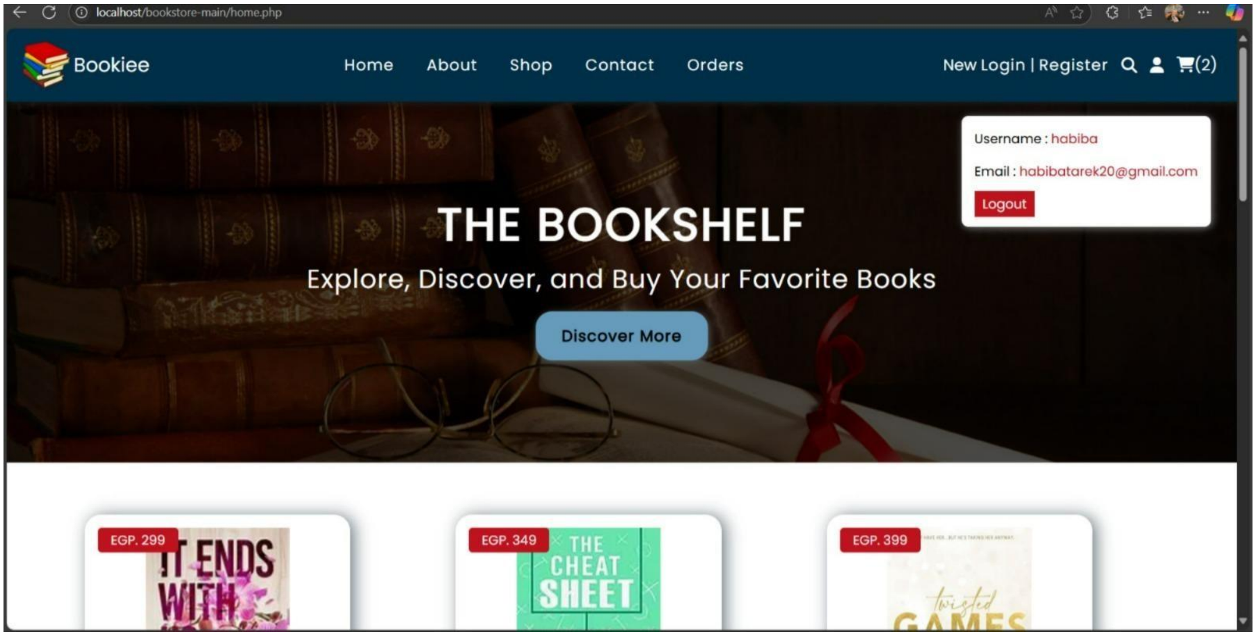
❖ Cart Page:



PRODUCTS ADDED

The Cheat Sheet	Games We Play
EGP. 349	EGP. 399
1	1
Total : EGP.349	Total : EGP.399

❖ Log Out Page:



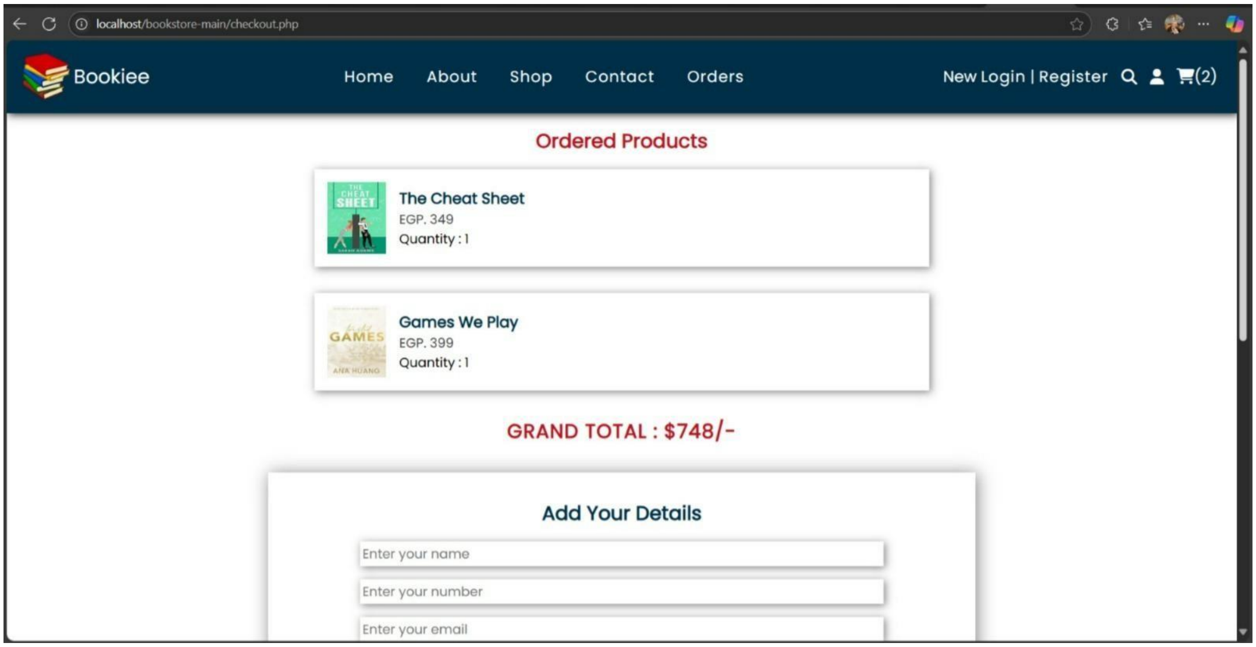
Username : habiba

Email : habibatarek20@gmail.com

THE BOOKSHELF

Explore, Discover, and Buy Your Favorite Books

❖ Checkout Page:



Ordered Products

The Cheat Sheet
EGP. 349
Quantity : 1

Games We Play
EGP. 399
Quantity : 1

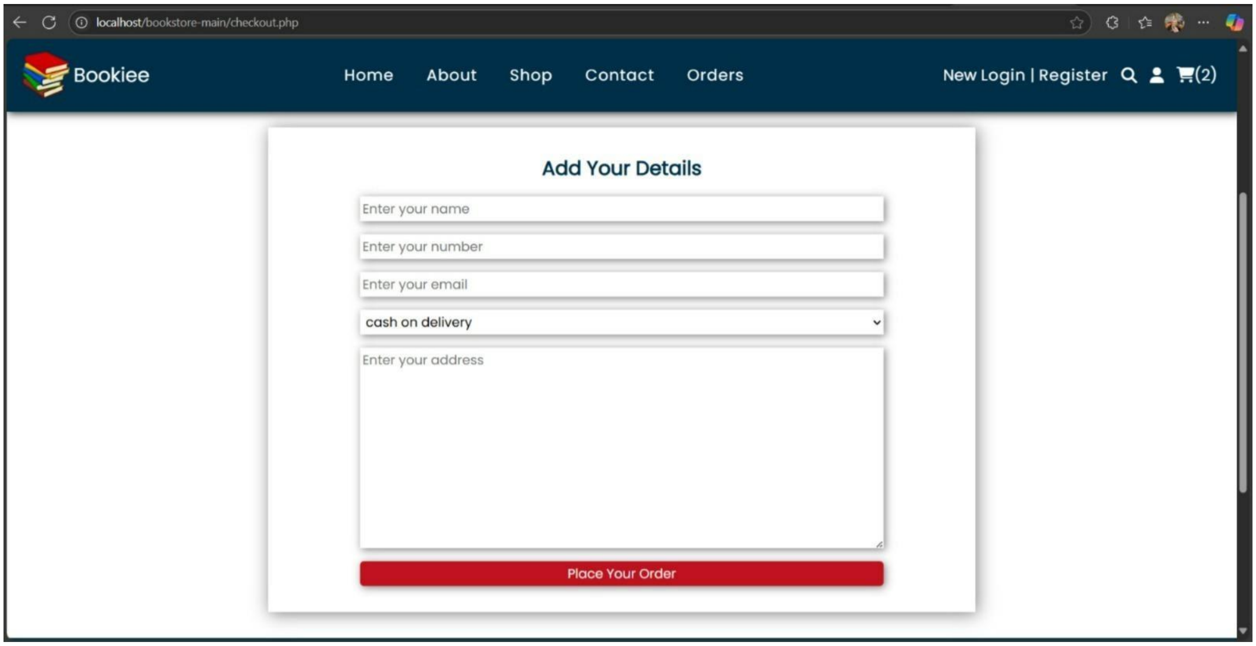
GRAND TOTAL : $748/-

Add Your Details

Enter your name

Enter your number

Enter your email



Add Your Details

Enter your name

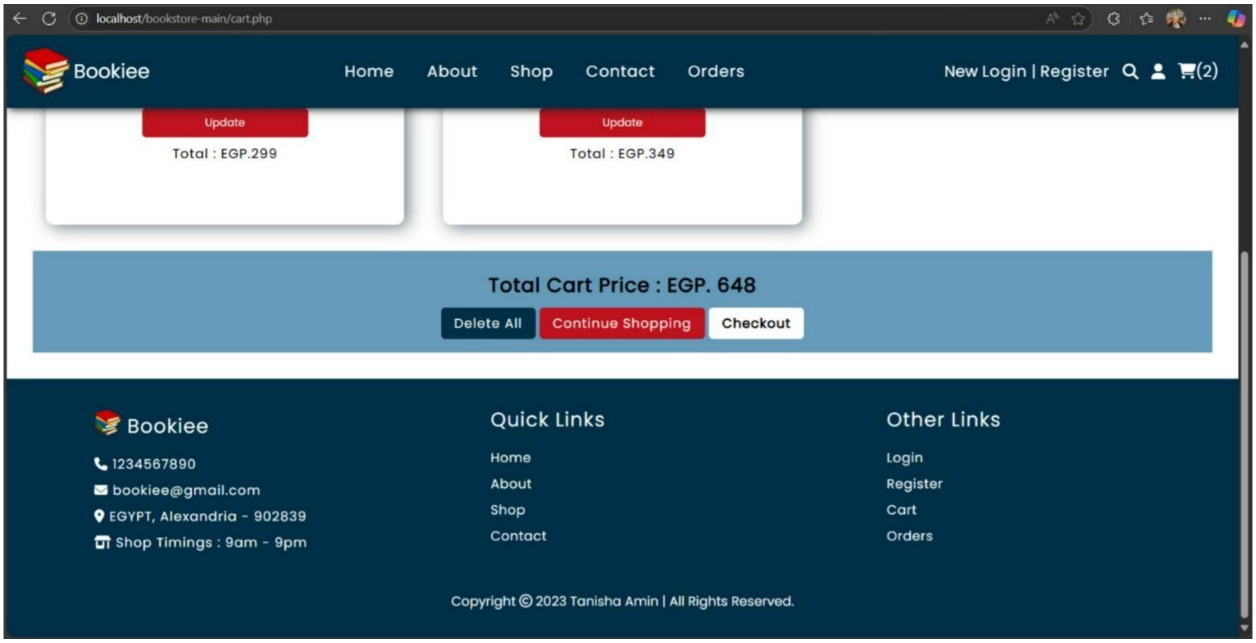
Enter your number

Enter your email

cash on delivery

Enter your address

❖ Delete or Continue Shopping:



Total : EGP.299

Total : EGP.349

Total Cart Price : EGP. 648

Bookiee

☎ 1234567890

✉ bookiee@gmail.com

EGYPT, Alexandria - 902839

Shop Timings : 9am - 9pm

Quick Links

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New Features Preview

1. Theme Switcher

- **Description:** Users can toggle between light and dark themes for improved readability and preference.

2. Floating Action Button (FAB) and Quick Actions Menu

- **Description:** A fixed FAB provides quick access to actions like starting a reading timer, viewing recommendations, joining a book club, or accessing reading history.

3. Search with Suggestions

- **Description:** A search bar offers real-time book suggestions (e.g., "The Great Gatsby") that appear on focus and hide on blur.

4. Reading Statistics Dashboard

- **Description:** Displays user metrics in a grid, including books read (42), reading hours (156), reviews written (28), and achievements (5).

5. Book Carousel

- **Description:** A responsive carousel showcases recommended books with cover images, titles, and genre tags.

6. Wishlist Functionality

- **Description:** Users can add/remove books from their Wishlist, with a progress bar showing demand (e.g., 75%).

7. Reviews and Ratings System

- **Description:** Displays star-based ratings (e.g., 4.5/5) and user reviews, with an option to write a review.

8. Loyalty Program

- **Description:** A tiered system (e.g., Gold Member) tracks points (e.g., 2,500) and progress toward the next tier (e.g., 250 points).

9. Social Features

- **Description:** Enables sharing reading progress on social media and promotes book club participation.

10. Reading Challenge

- **Description:** Users set and track annual reading goals (e.g., 50 books), with progress displayed (e.g., 20/50).

11. Book Preview Modal

- **Description:** Provides a sample excerpt in a modal window (e.g., for "Harry Potter").

12. Reading Timer

- **Description:** Tracks reading duration in hours, minutes, and seconds.

13. Book Club Schedule

- **Description:** Lists upcoming book club meetings with details (e.g., "Classic Literature Club, The Great Gatsby, March 15, 2024, 7:00 PM EST").

14. Notification System

- **Description:** Alerts users to actions (e.g., wishlist updates, timer start) via toast notifications.

15. Genre Tags

- **Description:** Interactive tags (e.g., Classic, Dystopian) allow filtering by genre.

16. Responsive Design and Animations

- **Description:** Ensures compatibility across devices with smooth animations for user interactions.