

American International University- Bangladesh

CSC 4261: Advanced Programming in Web Technology

CO1 Evaluation

Project Report

Summer 22-23

Project Title: Interstellar-Library: A book selling platform

Project Domain: E-Commerce (Online Marketplace)

Group Number: 8

Section: B

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**Introduction:**

An online marketplace for books called Interstellar-Library brings together buyers and sellers from around the globe. Interstellar-Library delivers a smooth experience for both buyers and sellers because to its user-friendly layout and cutting-edge features. A built-in messaging system makes it simple for sellers to offer their books for sale with all the necessary details, manage their listings, collect payments, and get in touch with possible customers. Using a variety of search criteria, customers may find books, explore listings by category, price, location, and condition, add goods to their shopping carts, and complete a secure checkout. In order to maintain a secure and equitable environment for all users, administrators and moderators may oversee and watch over the platform's content, users, transactions, and policies. Join Interstellar-Library today to browse our vast selection of reasonably priced used books.

**Problem Analysis:**

* Problem Statement:

The absence of a trustworthy and user-friendly marketplace for buying and selling used books is the issue that Interstellar-Library seeks to address. Many people have libraries of books they no longer use, while others are seeking for inexpensive ways to purchase out-of-print or hard-to-find literature. Existing solutions, however, are sometimes difficult to use, rife with dishonest vendors, and lacking in details about the books being offered.

* Significance of Solving the Problem:

This issue is resolved by Interstellar-Library, which offers a safe, dependable, and straightforward platform that links buyers and sellers of used books all over the world. The platform provides sophisticated features that make it simpler for sellers to display their books and for buyers to locate what they're searching for, such as comprehensive book information, various payment choices, a message system, and analytics tools. Interstellar-Library encourages sustainability by encouraging the exchange of used books, which cuts down on waste and increases the lifespan of books.

Feature Analysis:

1. User Category:

There are 4-types of Users here. They are:

(4 users)

* Seller
* Buyer
* Administrator
* Moderator

1. Feature List:

In this project the “Seller” has the following features:

(**12 feature per user)**

* Add books for sale: Allow sellers to add books for sale with details such as title, author, ISBN, condition, price, and location.
* Manage listings: Allow sellers to view, edit, and delete their listings.
* View sales history: Allow sellers to view their sales history, including sales made, revenue earned, and fees charged.
* Receive payment: Allow sellers to receive payment for their sales through various payment options.
* Communication with buyers: Allow sellers to communicate with potential buyers through an in-built messaging system.
* Feedback and ratings: Allow buyers to leave feedback and ratings on their experience with the seller.
* Manage account settings: Allow sellers to manage their account settings, including profile picture, contact information, and notifications.
* Analytics: Provide sellers with analytics and insights into their sales performance and book inventory.
* Login: Every Seller can login to their accounts
* Logout: Every Seller can logout from their accounts
* Signup: Every Seller can create their accounts

In this project the “Buyer” has the following features:

* Search books: Allow buyers to search for books by title, author, ISBN, or keyword.
* Browse listings: Allow buyers to browse listings by category, price, location, and condition.
* Make offers: Allow buyers to make offers on listings.
* Add to cart: Allow buyers to add items to their cart and purchase multiple items at once.
* Checkout: Provide a secure checkout process for buyers to complete their purchases.
* Messaging system: Allow buyers to communicate with sellers through an in-built messaging system.
* Feedback and ratings: Allow buyers to leave feedback and ratings on their experience with the seller.
* Wish list: Allow buyers to save their favourite items to a wish list for future reference.
* Login: Every Seller can login to their accounts
* Logout: Every Seller can logout from their accounts
* Signup: Every Seller can create their accounts

In this project the “Administrator” has the following features:

(**12 feature per user)**

* Manage users: Allow administrators to manage user accounts, including adding, deleting, and suspending user accounts.
* Manage listings: Allow administrators to manage listings, including adding, editing, and deleting listings.
* Manage transactions: Allow administrators to manage transactions, including refunds, cancellations, and disputes.
* Analytics: Provide administrators with analytics and insights into platform performance, user behavior, and sales trends.
* Content management: Allow administrators to manage website content, including adding, editing, and deleting pages.
* Communication with users: Allow administrators to communicate with users through an in-built messaging system.
* Reporting: Provide administrators with reporting tools to track user activity, revenue, and expenses.
* Manage settings: Allow administrators to manage platform settings, including payment options, fees, and policies.
* Login: Every Seller can login to their accounts
* Logout: Every Seller can logout from their accounts
* Signup: Every Seller can create their accounts

In this project the “Moderator” has the following features:

(**12 feature per user)**

* Monitor content: Allow moderators to monitor user-generated content, including listings, reviews, and comments.
* Manage flagged content: Allow moderators to manage flagged content, including removing inappropriate content and warning or suspending users who violate policies.
* Communication with users: Allow moderators to communicate with users through an in-built messaging system.
* Reporting: Provide moderators with reporting tools to track user activity and flag inappropriate behaviour.
* Review policies: Allow moderators to review and update platform policies to ensure compliance with laws and regulations.
* Provide support: Allow moderators to provide support to users who have questions or concerns about the platform.
* Manage settings: Allow moderators to manage platform settings, including content filtering, user roles, and reporting options.
* Training: Provide moderators with training on platform policies and procedures to ensure consistent and fair enforcement.
* Login: Every Seller can login to their accounts
* Logout: Every Seller can logout from their accounts
* Signup: Every Seller can create their accounts

Design:

Draw a Use Case diagram of your project here.

Draw a ER diagram of your project here.

Tools Used:

To develop this project, we have used the following:

• Node.JS

• Visual Studio Code

• Postman

• Postgre SQL

• .

• Tool N

System Images against the Specification:

Give few screen shots of some GUIs (Midterm project) and write a very small description (Maximum 40 words) for each of the GUIs. (minimum 8 mock ups)

Impact of this Project:

Interstellar-Library has a tremendous effect on contemporary society and the environment. It improves sustainability by lowering waste and prolonging the lifespan of books as a platform that encourages the exchange of used books. Promoting the reuse of products is essential to protecting the environment in a world where resources are becoming more and more limited.

People gain from Interstellar-Library in a number of ways at the same time. First off, it provides book lovers with a quick and economical option to locate and buy books that they may not otherwise be able to. Second, it gives sellers who no longer require their books a new source of income, enabling them to partially recuperate the cost of their purchases. Third, it offers a user-friendly and secure platform that facilitates the simple and practical purchasing and selling of used books.

By bringing together buyers and sellers from around the world and building a worldwide network of book enthusiasts, Interstellar-Library also helps local communities. The website encourages cultural interchange and supports literacy and education in this way.

In conclusion, Interstellar-Library benefits both the environment and contemporary culture. The platform helps consumers and sellers by encouraging sustainability and establishing a new second-hand book market, as well as by assisting regional communities and fostering cross-cultural interaction.

(Maximum 80 words)

Limitations and Possible Future Improvements:

(Maximum 80 words)

*[Note: Make sure that your report is maximum 10 pages (including cover page). Print (Colored) the report and submit it with spiral bind.]*

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| CO1 Evaluation: Project Report Evaluation | | | |
| Problem  Analysis  (5) | Use Case  Diagram  (5) | ER  Diagram  (5) | Total (15) |
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