**Project Name:**

Online Book Store

**Project specifications:**

Web application built using the Django framework. It allows users to search and purchase books by category, author and subject. Customers can create an account for easy checkout and admin can manage books, categories, orders and user accounts. Payment options include bcash and credit card payments.

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**Date**:

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**Problem statement:**

Customers often have a difficult time finding and purchasing books online, particularly when searching by specific categories or authors. This can lead to a lack of convenience and a poor user experience.

**Proposed Solution:**

The Online Book Store system aims to provide a centralized platform for customers to easily search and purchase books online. The system will allow for easy navigation and filtering by category, author, and subject. Additionally, the system will include a variety of payment options for customers to choose from.

**Features:**

1. ***Authentication:***
2. Allows for registration and login for customers
3. User information includes full name, email, and password
4. Passwords must be at least 8 digits and include numbers and special characters
5. ***Admin Management:***
6. Allows admin to add, update and delete books
7. Allows admin to add, edit and delete categories
8. Allows admin to accept or reject orders from customers
9. Allows admin to manage customer accounts
10. ***Book Search and Purchase:***
11. Allows customers to search for books by category, author, and subject
12. Allows customers to view detailed information about a book
13. Allows customers to add books to their cart
14. Allows customers to complete the order checkout process
15. Allows customers to view their previous orders.
16. ***Payment Methods:***
17. Provides bcash and credit card payment options
18. uses Paypal and Credit Card Payments for transaction

**Wireframes:**

* Registration and login pages for customers
* Admin dashboard for managing book information, categories, orders, and customer accounts.
* Customer dashboard for viewing and tracking their orders

**Software Diagrams:**

* There are two main entities: Customers and Admin.
* Each entity has its own table, with attributes specific to that entity.
* Admin has a one-to-many relationship with Books and Categories, as an admin can add multiple books and categories.
* Admin has a one-to-many relationship with Orders, as an admin can approve or reject multiple orders.
* Customers has a one-to-many relationship with Orders, as a customer can place multiple orders.
* Orders table and the Books table would have a many-to-many relationship through the Order\_Items table.
* Orders table and the Payment table would have a one-to-one relationship, as each order is associated with one payment.
* Here is a summary of the entities and their relationships in the ERD:

1. Admin: Can have multiple books Can have multiple categories Can have multiple orders
2. Customers: Can have multiple orders
3. Orders: Made by one customer Has many books related to one payment
4. Order\_Items: many-to-many relationship between Orders and Books
5. Books: can be related to multiple categories can be ordered by multiple customers
6. Categories: can have multiple books
7. Payment: related to one order

**Task Schedule:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Feature | Task | Priority | Estimated time | Due date | Assigned to |
| Authentication | Registration | Highest | 2 hours | 1/11/2023 | Seyada Shaer |
| Login | Highest | 1 hour | 1/11/2023 | Seyada Shaer |
| Admin Management | Add, update, delete books | Medium | 4 hours | 1/12/2023 | Seyada Shaer |
|  | Manage categories | Medium | 2 hours | 1/13/2023 | Seyada Shaer |
|  | Manage orders | Medium | 2 hours | 1/14/2023 | Seyada Shaer |
|  | Manage customer accounts | Medium | 4 hours | 1/15/2023 | Seyada Shaer |
| Book Search & Purchase | Search books by category, author, subject | Medium | 4 hours | 1/16/2023 | Seyada Shaer |
|  | Book details view | Medium | 2 hours | 1/17/2023 | Seyada Shaer |
|  | Add books to cart | Medium | 2 hours | 1/18/2023 | Seyada Shaer |
|  | Order checkout process | Medium | 2 hours | 1/19/2023 | Seyada Shaer |
|  | View previous orders | Medium | 1 hour | 1/20/2023 | Seyada Shaer |
| Payment Method | bcash and credit card payment | Low | 4 hours | 4 hours | Seyada Shaer |

Use case for a online book store:

1. A customer visits the website and is presented with the option to browse books and categories.
2. The customer can view book details, including reviews, before making a decision.
3. If the customer finds a book they are interested in, they have the option to sign up or sign in to their account.
4. Once logged in, the customer can add the book to their wishlist or directly to their cart.
5. The customer can continue browsing and adding books to their cart or wishlist as desired.
6. Once the user is ready to checkout, they are taken to the checkout page where they can review the books in their cart and the total price.
7. The user then enters their shipping and billing information, selects a payment method, and confirms the purchase.
8. The order is processed and the user is taken to the order success page where they can view the details of their order and the books they purchased.
9. The user can also view their purchase history in their account page. They can also add books to their wishlist, and access their cart and wishlist at any time.
10. The user can also write reviews and rate the books they purchased.
11. And finally, the user can log out of the website when they are done.