

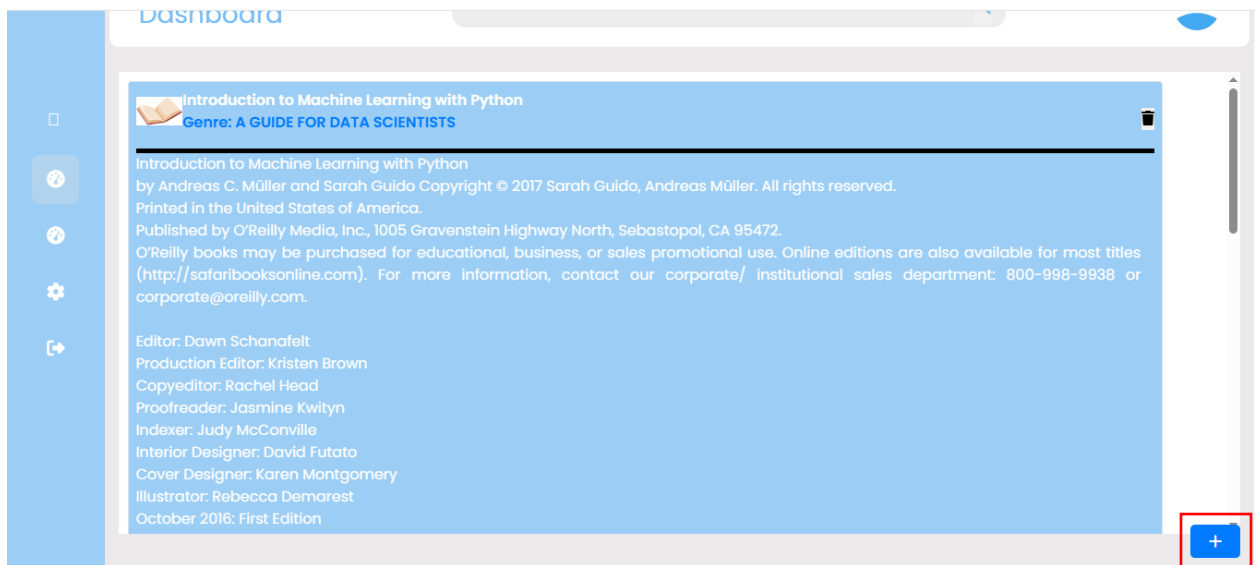
Laravel Book Borrowing System

Overview

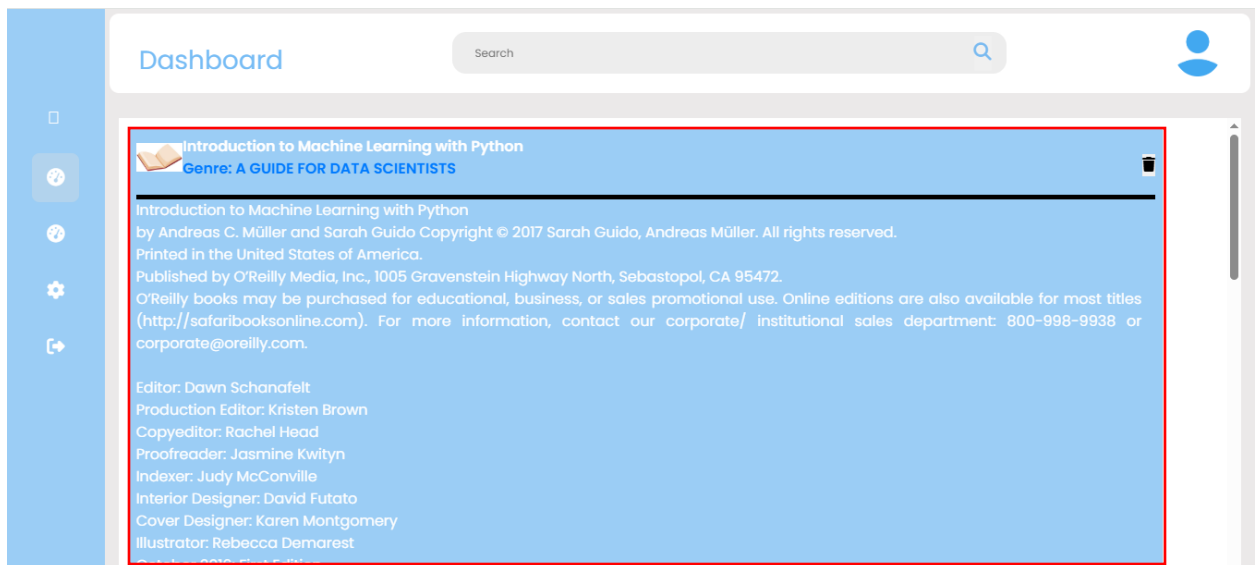
This project is a simple Laravel-based web application to manage a library system where users can add books, borrow books (saved in session), return books (remove from session), and view borrowed book history.

Features

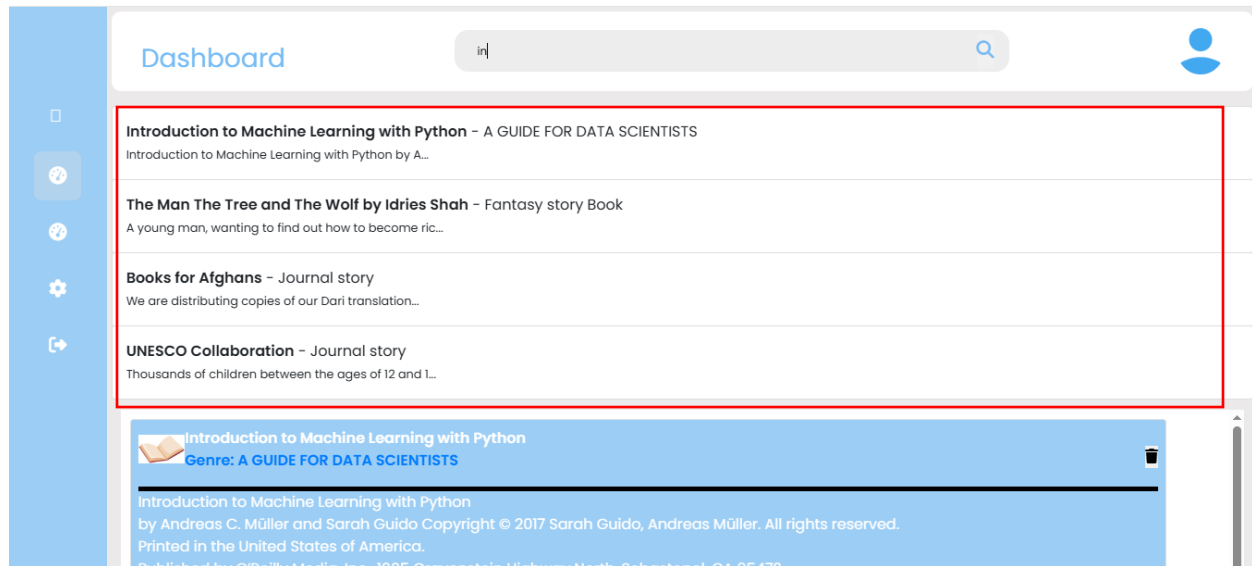
- **Add New Books** with details like Title, Description, Genre/Type, and Price.



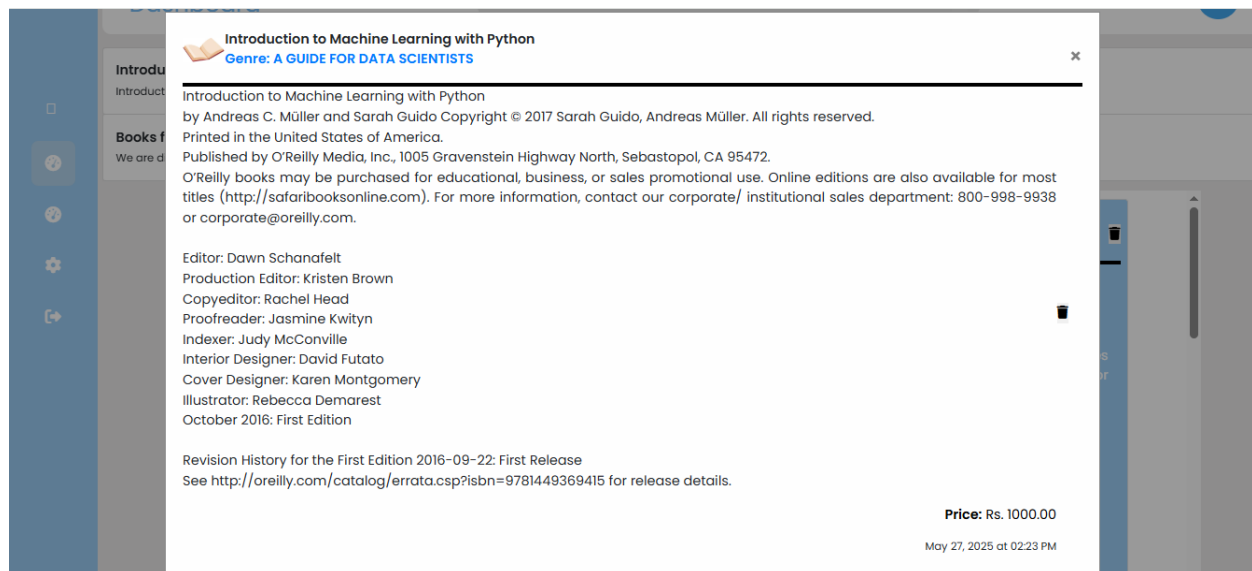
- **Display Books** in a styled layout with images and information.



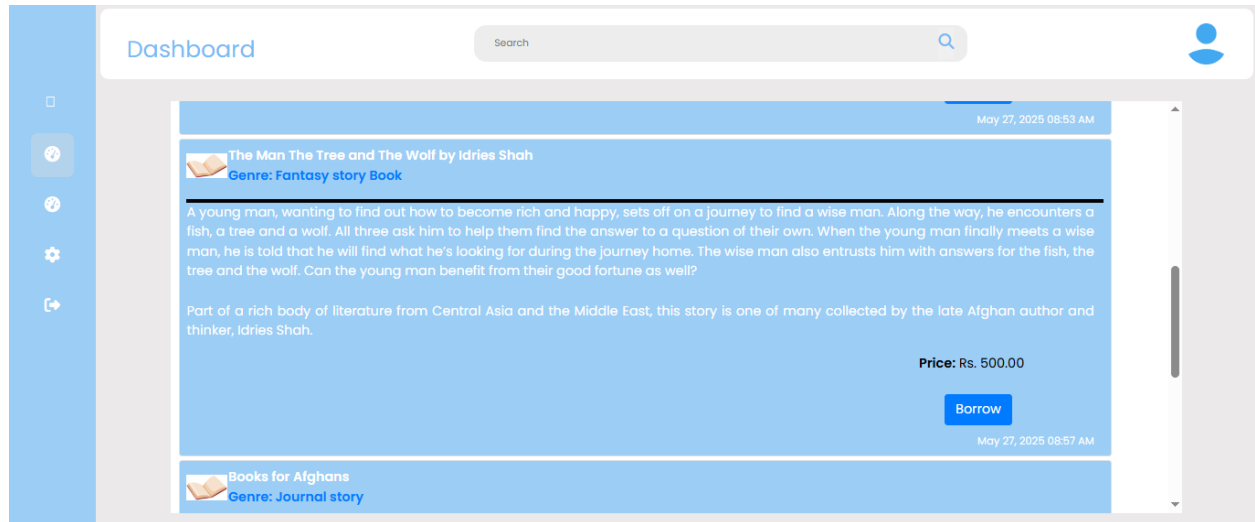
- **Live Search** by Title, Description, or Genre to find books instantly.



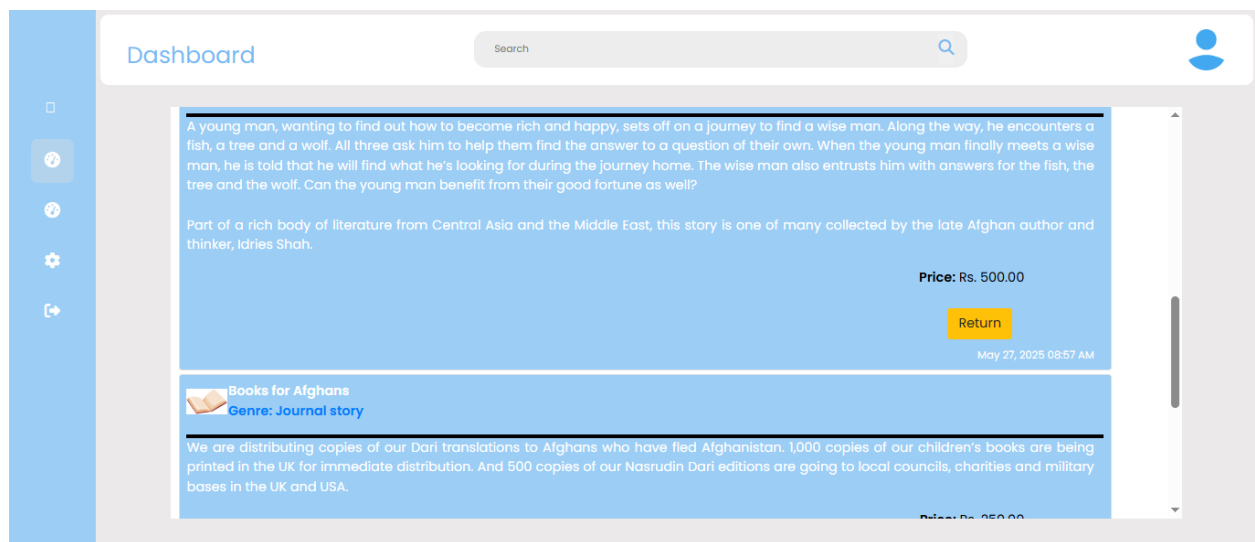
- **Book Detail Popup** showing selected book details with options to Delete or Borrow.



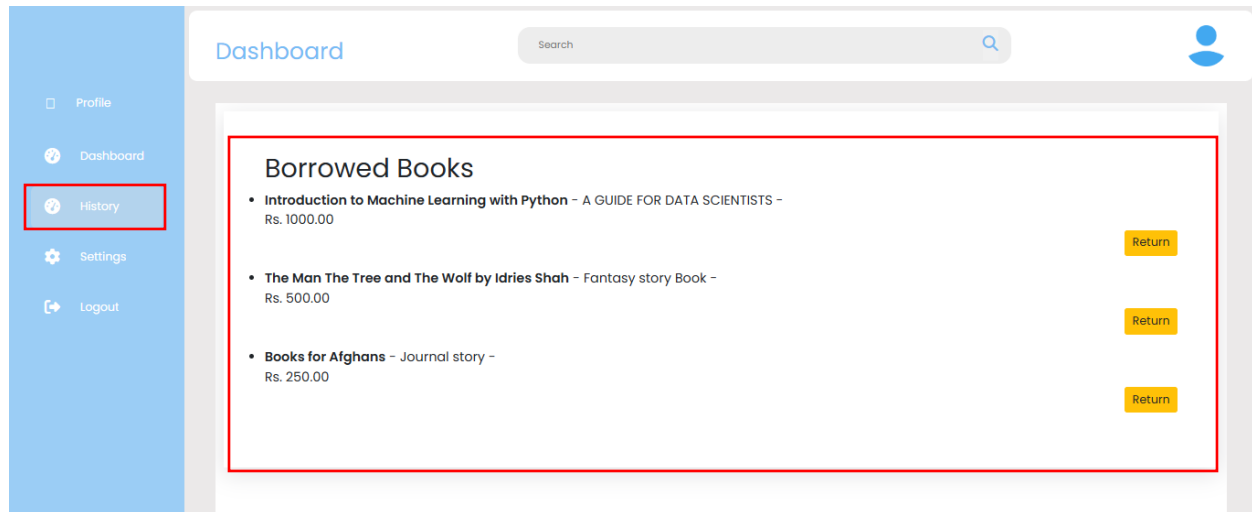
- **Borrow Books:** Adds books to the user's session to keep track of borrowed books.



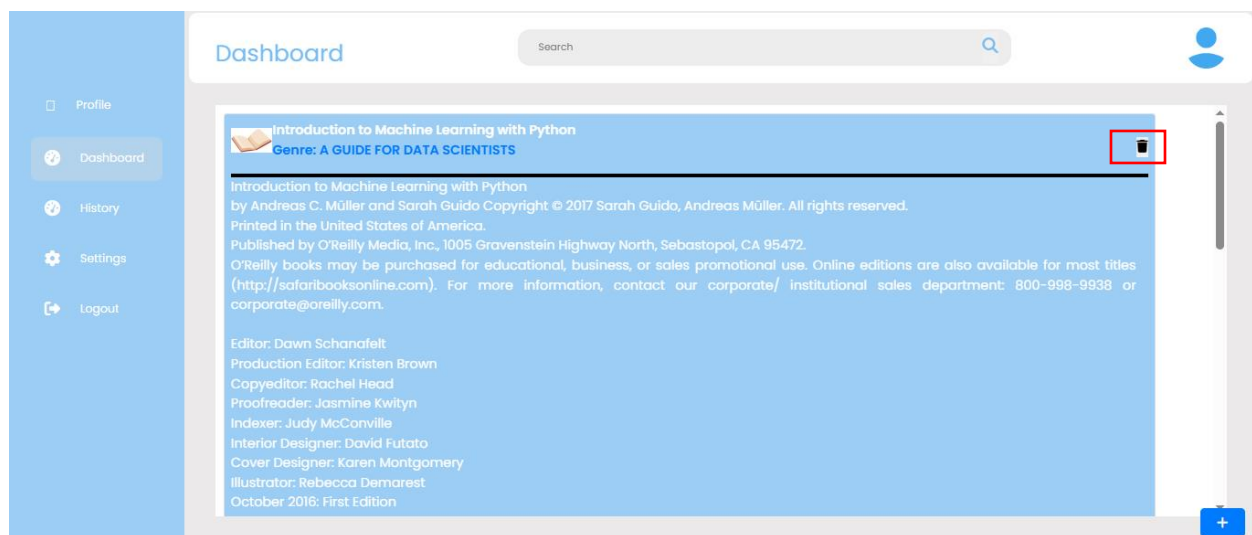
- **Return Books:** Removes books from the session, returning them to the bookshelf.



- **Borrowed Books History:** Displays all currently borrowed books saved in the session.



- **Delete Books:** Ability to delete books from the database with proper CSRF protection (admin).



- User-friendly UI with clean HTML and CSS styling.

Assumptions

- **User Authentication:**
This project assumes a single user session without user login. Borrowed books are tracked using the PHP session only.
- **Session Storage:**
Borrowed books are stored as an array in the session, with book details serialized on borrow. There is no persistent user borrowing history in the database.
- **Book Images:**
If a book does not have a custom image, a default placeholder image (default_book.jpg) is shown.
- **Book Deletion:**
Delete operations are secured with CSRF tokens and require confirmation. This is handled via standard Laravel resourceful routes.
- **Live Search:**
Uses AJAX to fetch filtered book results based on Title, Description, or Genre with a minimum input length of 2 characters.
- **Borrow & Return Actions:**
The "Borrow" button adds the book object to the session; "Return" removes it from the session. This session data drives the Borrowed Books page.
- **Date Format:**
Book creation date is formatted as Month Day, Year Hour:Minute AM/PM using Laravel's created_at attribute.
- **No Database User Tracking:**
There is no multi-user or authentication feature implemented; this is a single-user prototype.

How to Run

1. Clone the repository.
2. Run composer install to install dependencies.
3. Set up your .env file with database credentials.
4. Run migrations with php artisan migrate.

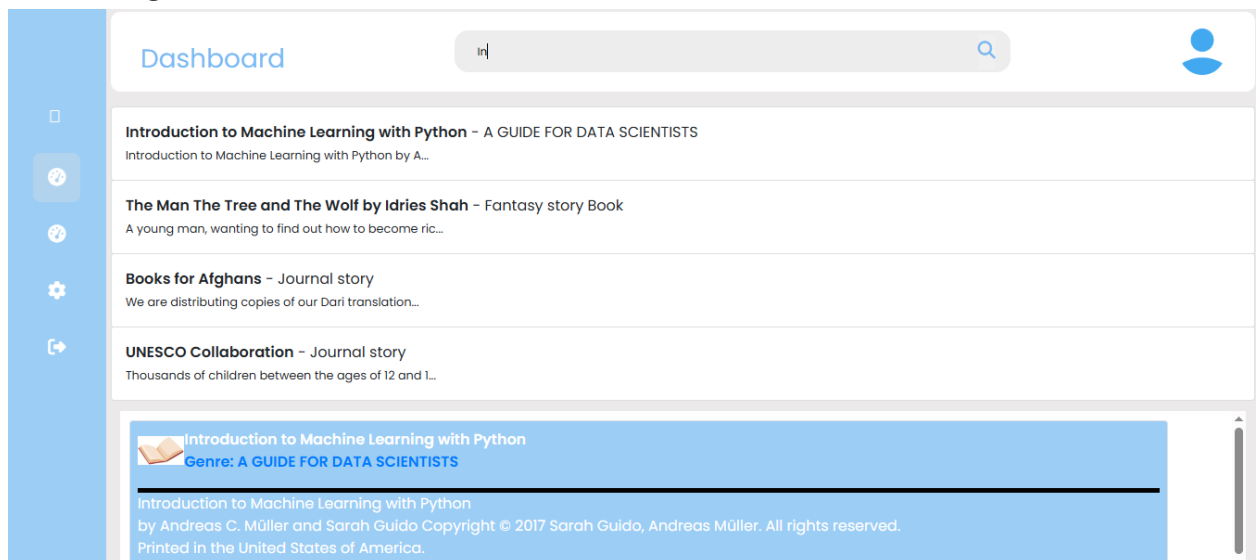
5. Seed sample data or add books manually via form.
6. Start the server: `php artisan serve`.
7. Access the app at `http://localhost:8000`.
8. Use the search box to find books and click to borrow or delete.

Technologies I Used

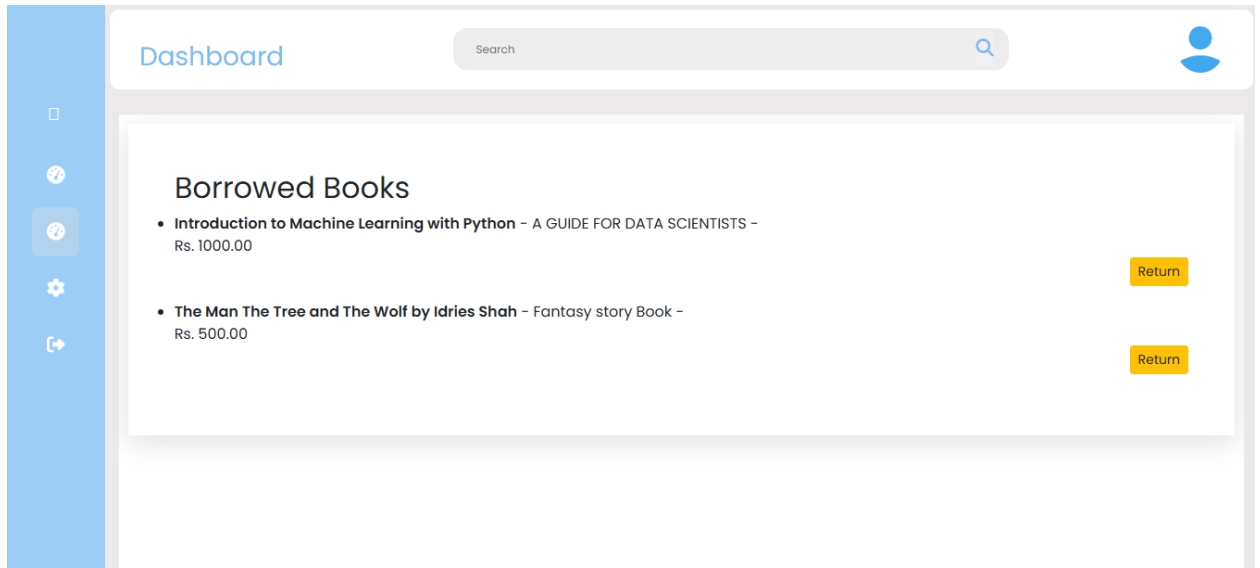
- PHP 8.x
- Laravel 10.x
- Blade Templating
- JQuery & AJAX for live search
- Bootstrap 5 (assumed for UI)
- MySQL (or compatible) database
- Font Awesome for icons

Future Enhancements

- Add User Authentication & multi-user support (Admin and User are different Access).
- Search engine:



- Persist borrowed book history in database.



- Add book details upload functionality using admin.