



THE BOOKSTORE

The Brogrammers

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ABSTRACT

We built an online website which serves as a bookstore for reading and lending manuals ,journals and books.

- Every user can read,rate and review the books.
- User can not only read but can also upload/advertise his own books or materials.
- Users can follow uploaders and also chat with them via a simple chat box.
- Group of users can also form a community depending on their interests. The materials shared in the community are accessible to everyone in it.

MOTIVATION

- Many of us would have faced the problem at some point or the other to find whether someone in our friends or classmates had a hard copy of our favourite novel/comic and are willing to lend the book.
- So we thought of creating a website that enables the users to know the owner of a hard copy for the book they are searching for and can also chat with the owner through a simple chat interface and borrow the book from him for a week/month.
- We also face many problems while collecting the reference materials or class notes related to the courses at the start or at the time of exams, so we wanted to create a website that can help peers by preserving the material which was uploaded by the seniors or professors over years in a community and accessible to only members of that community.

PROBLEM STATEMENT

- Creating a web application where you can read/rate/review/upload books/materials/journals
- Implementing database searches so that users can search books by genre/authors
- The site should also notify/suggest the user whenever a new material of his interest is uploaded in the site
- It should have the feature of forming groups/communities such that the materials uploaded in the group are accessible only to the members of the group
- Creating chat boxes so that users can communicate with uploaders and borrow books from them

SOFTWARE REQUIREMENTS

Front end - Basic web designing

1. HTML
2. CSS
3. BOOTSTRAP
4. JAVASCRIPT

Backend

5. Django

Documentation

6. Latex
7. Doxygen

For version control

8. Git

IMPLEMENTATION

- Used Django Models to make suitable classes to represent objects such as Profile, Document, Community, Advertise, Join etc.
- Used Django ModelForms to generate forms to edit models.
- Used Django Authentication System to authenticate users in the login page.
- Used Django-Filters to implement searching of Documents and Ads
- Used Django-private-chat to implement chat feature
- Used SQLite3 to manage the database
- Used HTML, CSS and Bootstrap to create the front end of the website.

FEATURES (Promised) :

1. Login
2. Register
3. Search by genre, author, title
4. Rate/Review
5. Upload
6. Chat with uploader
7. Community
8. Follow people
9. Checking copyrights

LOGIN :

Users can login through their username and password.

REGISTER :

Users can register by providing their personal details which include their favourite authors and their interests.

SEARCH BY GENRE , AUTHOR, TITLE :

Users can search by genre, author, title.

RATE / REVIEW :

Users can rate and review the books/materials that are up on the website.

UPLOAD :

- a. Users can upload books (provided there is no problem with copyrights of the book) and materials related to a particular community
- b. Users can upload the preview of the hardcopy they have with them (which they are willing to lend)
- c. we check the page next to title page whether it has copyright issues or not by scanning it.

CHAT WITH UPLOADER :

Users can personally chat with the uploaders about a book and discuss their views or make a deal to borrow the book (provided uploader have a hard copy)

COMMUNITY :

- Users can form a community based on interests ,courses they have taken, institute they belong to,etc.
- Users can upload materials related to the members of the community.
- Content can be accessed only by members of community.

FOLLOW PEOPLE :

Users can follow an individual so that when he or she uploads and book they get a notification.

FEATURES (Completed) :

1. Login
2. Register
3. Search by genre, author, title
4. Rate/Review
5. Upload
6. Chat with uploader
7. Community
8. Follow people

We had successfully implemented almost all the features except that we are not able to scan the document for checking copyrights as we didn't get any tool to scan a document

LOGIN :

Users can login through their username and password.

REGISTER :

Users can register by providing their personal details and select their interests in settings.

SEARCH BY GENRE , AUTHOR, TITLE :

Users can search by genre, author, title.

RATE / REVIEW :

Users can rate and review the books/materials that are up on the Website.

UPLOAD :

- d. Users can upload books and materials related to a particular community
- e. Users can upload the preview of the hardcopy they have with them (which they are willing to lend)

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CITATIONS

1. Used for implementing Chat feature
<https://github.com/Bearle/django-private-chat/tree/dev/example>
2. Used for implementing Search feature
<https://simpleisbetterthancomplex.com/tutorial/2016/11/28/how-to-filter-querysets-dynamically.html>
3. Used for understanding Inbuilt authentication System
<https://simpleisbetterthancomplex.com/tutorial/2016/06/27/how-to-use-djangos-built-in-login-system.html>
4. Used for understanding how django works . Learned Basic Django from this site
<https://tutorial.djangogirls.org/en/>
5. Used for learning the way to extend a model to another model
<https://simpleisbetterthancomplex.com/tutorial/2016/07/22/how-to-extend-django-user-model.html>
6. Used for learning about Many to Many relationships in django
<https://www.youtube.com/watch?v=nwpLCa79DUw>
7. Used for implemeting Forgot Password
<https://simpleisbetterthancomplex.com/tutorial/2016/09/19/how-to-create-password-reset-view.html>