

eLibrary

Problem Description

Project Goal

Building a bookkeeping application with the focus on increasing user engagement by including elements of game theory in the process. The application will maintain an inventory of books and a history of users reading them. It will then apply game theory to increase the reading habits of the users.

Features List

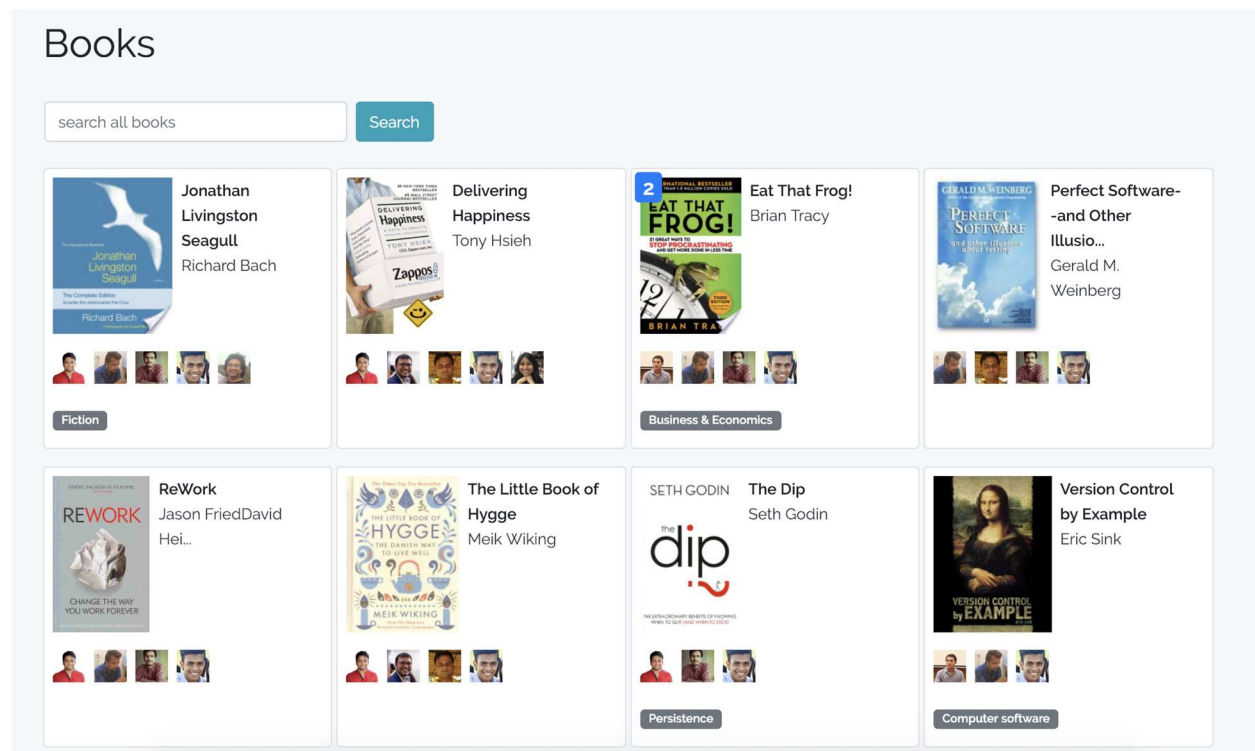
1. Login page for admins and readers. Users can log in via:
 - a. Email + Password
 - b. Gmail login
2. A dashboard where admin can:
 - a. See the list of all the books
 - i. Add a new book
 - ii. Edit book details - name, author, edition
 - iii. Delete a book
 - b. See the list of all the readers
3. A registration form for readers to sign up
 - a. Form fields to be: name, email, password, confirm-password
 - b. An email verification should go out from the system to reader's email
 - c. Only after verification, the reader should be able to log in
 - d. System to send emails through
 - i. Gmail SMTP
 - ii. Amazon SES
4. A dashboard where readers can
 - a. See the list of all the books available
 - b. See the list of books read by him/her
 - c. Option to mark a book as read
5. Some gamification for better reading habits
 - a. Every week (on Sunday) send an email to the library user's highlighting books completed by the users that week.
 - b. If a user has read all the books of an author, send an email every time a new book of the user is added
 - c. If a user has not read any book for 15 days send a nudge email to the user. Send a list of newly added books to the user.
6. Advanced features
 - a. Admins can also add a book cover image when adding/editing a book

- b. Admins can manage book categories and assign categories to books when adding/editing. A book can have multiple categories.
- c. Readers can filter books based on available categories

Description

Create a PHP + MySQL application that covers all the features above and share the application link with the team.

ScreenShots - If possible or as we go along



Example Implementations: (If available)

None available right now.

Resources

1. Gmail SMTP server: <https://www.saleshandy.com/smtp/gmail-smtp-settings/>
2. Amazon SES: <https://aws.amazon.com/ses/>
3. Amazon EC2: <https://aws.amazon.com/ec2/>
4. Git and Version Control: <https://www.atlassian.com/git/tutorials/what-is-version-control>

5. Google login through Gmail OAuth: <https://medium.com/@pablo127/google-api-authentication-with-oauth-2-on-the-example-of-gmail-a103c897fd98>
6. Laracasts for PHP: <https://laracasts.com/series/php-for-beginners>

Tools

1. VS Code: <https://code.visualstudio.com/download>
2. Git: <https://www.atlassian.com/git/tutorials/install-git>
3. Github: <https://github.com>

Tech stack

1. PHP v7.4
2. MySQL v5.7+
3. Apache server 2.4
4. Bootstrap v4.3
5. jQuery
6. FontAwesome v5

Articles and Blogs

None available right now.

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