

Back-End Task



Summary:

The project is a simple online library with the possibility of adding new books to a database and viewing list of available books after logging in the system. The task you are about to solve will test you for couple abilities. Form handling, file handling, easy session management and simple database CRUD operations.

Form Handling:

The “home page” of the project is actually a webform for submitting book information into library database. There is one field for uploading image for the cover of the book, which should have some restrictions, like file size and file types. Uploaded file should go to a folder named like media/covers or whatever fits best for you. There is a dropdown select element with the genre of the book like comedy, horror, biography etc., and a field for the page count. Make the error handling of the form to display to the user what he did wrong. Here you have the freedom of creating whatever error messages you like.

Login:

You need to prepare simple login form with Username and Password. After the user authenticates successfully to the system, he should get redirected to the page where he can view the list with all the books.

Book List:

Simple page which shows all the submitted books in a grid view, the books should be ordered by creation date in descending order. The list has simple pagination functionality where you can go back and forth to view older or newer submissions.

Above the book list there should be search panel with options to search by: book's name, page count (from-to) and genre.

This page should not be accessible if the user is not logged in the system. A simple page which says that you must login in order to view it will be more than enough. You can also decide to directly show the login screen.

Bonus points:

- The search is done with AJAX.
- The search is optimized for speed.
- If the search returns no result for the name of the book, or the user has made a typo, it will give suggestions for books with similar names.

Please include a list of all used technologies and a step by step guide explaining how to run your app.

