

Task: Create a Basic CRUD Application with User Authentication

Description:

Your task is to develop a simple web application using CodeIgniter 3 that allows users to register, login, and manage books.

Requirements:

☐ User Authentication:

- Registration: Allow users to register with the following details:
 - Full Name
 - Email (use as a username)
 - Password
- Login: Users should be able to log in using their email and password.
- Logout: Provide a way for users to log out.

☐ Book Records:

- A book record should have:
 - Title
 - Author
 - Description
 - Publication Date
 - PDF File (Less than 1MB)
- After logging in, a user should be able to:
 - View all their added books in a list/table.
 - Add new book records.
 - Edit existing book records.
 - Delete book records.

☐ Category:

- There should be a way to add, edit, and delete book categories.

☐ File Upload:

- Users should be able to upload a PDF file for each book.
- File size should be restricted to less than 1 MB.

- If the user attempts to upload a file larger than 1 MB, display an error message.
- **View Books:**
 - All users should be able to view the list of books added by various users, filtered by category.
- **Database:**
 - Use MySQL for the database.
 - Create a **users** table for storing user registration details.
 - Create a **books** table for storing book records. Make sure to have a foreign key to relate a book to a specific user.
 - Create a **category** table for storing category.
- **Validation:**
 - All forms should have appropriate validations (e.g., required fields, correct email format, password length).
 - Ensure that users can't access the CRUD operations without logging in.
- **Bonus (Optional):**
 - Implement pagination for the list of books if there are more than 10 records.
 - Use AJAX to improve user experience during CRUD operations.
 - Implement a basic search functionality for books based on the title or author.

Instructions:

- Setup a new CodeIgniter project.
- Create the necessary database tables.
- Implement the above requirements.
- Once done, zip the entire project and provide the link or share the GitHub repository (if used).

Evaluation Criteria:

- Code organization and structure.
- Functionality: Does the application work as described without errors?
- Database design and usage: Proper foreign key relationships, indexing, etc.
- Code readability and comments.

- (Optional) Any additional features or improvements made.

Remember, while the functionality is important, the main goal of this test is to evaluate your understanding of PHP and the CodeIgniter framework, as well as your coding standards and practices.

Good luck!