CPAN 214 – High-Level Programming Languages – Final Project

This Final project must be completed in **groups of 2**.

Group Task: Bookstore Application

1. ~~Create new Django project called bookstore~~
2. ~~Create books app and add to installed_apps in settings.py~~
3. ~~Redirect all routes to books app~~
4. ~~Create templates and use to render bookstore homepage~~
5. Bookstore homepage will contain ~~name of bookstore (Group members names)~~, list of books and links to view individual books
6. ~~Create layout template, inherit navbar, and add to bookstore homepage~~
7. Create route that gets book by id and renders book details
8. Create book model with attributes title, author, year, rating, and description
9. Use book model manager to return books on homepage and book detail page
10. Query and view book by id in book detail page
11. Register book in model admin
12. Create url, template, and view to add book to database and render errors
13. Create url, template, and view to edit book by id and render errors
14. Create url, template, and view to delete book by id
15. Create url, template, and view for registration with error validation
16. Create url, template, and view for login with error validation
17. Create url, button and view for logout
18. Restrict access to add book to logged in users using decorator
19. Restrict access to edit/delete book to users who posted book
20. Update navbar with conditional register, login, logout, add_book, and apis
21. Install Django Rest Framework and create api folder with __init__.py
22. Create serializer for book
23. Create urls and views to getBooks, and getBook by id
24. Test your application on the following use case:
    - Homepage

- Query and View Individual Book Details
- Add new book to database (Success + Error)
- Edit existing book to database (Success + Error)
- Delete newly added book
- User Registration (Success + Error)
- User Login (Success + Error)
- User Logout
- Restricted Access
    i. Only logged in users can add books (i.e. non registered users cannot add books)
    ii. Only user that posted the book can edit/delete the book (i.e. users that did not add the book cannot edit or delete the book)
- Rest API
    i. getBooks
    ii. getBook by Id

Individual Task: Peer – Review

- Complete the peer review rubric for your group member.
- **NOTE:** Failure to complete the rubric or receiving a peer review score of 3 or less will result in deduction of final project grade for the individual student.

Submit the following files:
- A zip file containing your whole Django project folder. (NOTE: DO not include the video recording of your test in zip file, those will be submitted along with the zip file)
- A short video recording (max 5 minute) demoing your website.
- PDF/Word Document of Peer Review

Weight: 25% of final grade

Rubric	Weightage
Layout, homepage, book detail pages	20
Book model and admin model	10
Restricted add/edit/delete books	15
User registration, login, and logout	15
Django Rest Framework serialized book and routes	20
Validation and Error Handling	10
Program Testing	10
Total	100

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