

PARAGAT, JUNUEL M.

BSCPE 2b2

Laboratory Activity No. 3

Results: The user can now view the list of books, add new books, update existing books, and delete books.

My GitHub link: <https://github.com/JUNUEL/junuel.git>

Follow-Up Questions:

1. How do Django forms work with models for CRUD operations?

Django's **ModelForms** provide a powerful way to create forms directly from models, simplifying CRUD (Create, Read, Update, Delete) operations. Instead of manually defining form fields, ModelForms generate them automatically based on the model structure. This ensures data consistency, automatic validation, and easy integration with the database.

2. What is the role of the redirect() function in Django views?

The redirect() function in Django is used to navigate users to another URL after an action, ensuring a smooth workflow and avoiding unnecessary form resubmissions.

Findings:

- **User Management:** Students can register, update their profiles, and delete accounts if necessary.
- **Book Management:** They can add new books, edit book details, and remove books from the system.
- **Data Consistency:** The system ensures that all changes reflect in real-time, maintaining accurate records.
- **User Permissions:** Access levels can be implemented to restrict or allow certain CRUD operations based on user roles.
- **Enhanced User Experience:** The intuitive interface makes it easy for students to interact with the system, reducing errors and improving efficiency.

Summary:

This activity allows students to interact with and manage the **Library Management System's** core database. They implement **CRUD operations** to handle book and user records, gaining

hands-on experience in database management. This enhances their technical skills, improves system efficiency, and prepares them for real-world applications in data handling and software development.

Conclusion:

CRUD functionality is a fundamental aspect of any web application, and students can now efficiently manage books within the system. This hands-on experience enhances their understanding of database operations, improves system usability, and prepares them for real-world software development. Mastering these skills ensures they can build and maintain dynamic, data-driven applications effectively.