Project - Java

Project Title	College Library Management
Technologies	JDBC, Servlet, JSP
Domain	Education
Project Difficulties Level	Medium

Problem Statement :

Create a Web application to manage Library Information.
Approach: Implement the below feature in your application.

1. Student Registration.
2. Book Management: Add a new book, delete a book, update a book's details, and search a book.
3. Allow students a maximum of 15 days to borrow the book. If the book is not returned within 15 days, calculate the fine. One day equals ten rupees.
4. Limit each pupil to three books.
5. Enable book searches by author, title, and category.
6. Registration of librarians
7. Any Librarian may issue books to any student.
8. You can also create your own functions.

Technology:

Database: Choose MySQL or NoSQL database as per your preference
Backend- end : JDBC, Servlet , JSP
Front - end : Create a Basic UI using HTML, CSS or any framework

Project Evaluation metrics :

Code:

- You are supposed to write a code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment(operating system)
- You have to maintain your code on Github.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub

Cloud:
If needed you can use any cloud platform for this entire solution hosting in any platform of your choice.

Deployment:
You can host your model in the cloud platform, edge devices, or maybe local, but with a proper justification of your system design.

Solutions Design:
You have to submit complete solution design strategies in HLD and LLD document

System Architecture:
You have to submit a system architecture design in your wireframe document and architecture document.

Optimization of solutions:
Try to optimize your solution on code level, architecture level and mention all of these things in your final submission.

Mention your test cases for your project.

Submission requirements:

High-level Document:
You have to create a high-level document design for your project. You can reference the HLD form below the link.
Sample link:
HLD Document Link

Low-level document:
You have to create a Low-level document design for your project; you can refer to the LLD from the below link.
Sample link
LLD Document Link

Wireframe: You have to create a Wireframe document design for your project; refer to the Wireframe from the below link.
Demo link
Wireframe Document Link

Project code:
You have to submit your code Github repo in your dashboard when the final submission of your project .
Demo link
Project code sample link

Detail project report:
You have to create a detailed project report and submit that document as per the given sample.
Demo link
DPR sample link

The project LinkedIn a post:
You have to post your project detail on LinkedIn and submit that post link in your
dashboard in your respective field.
Demo link
Linkedin post sample link


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