



North East University Bangladesh

Project Proposal

Course Code: CSE 314

Course Title: Database System Lab

Submitted to:

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Sir,

I trust this email finds you well. I am excited to propose the development of a comprehensive Library Management System (LMS) that integrates user-friendly frontend interfaces with a robust backend database.

Project Overview:

My proposed Library Management System aims to enhance the efficiency and effectiveness of library operations. By utilizing Java with Java Swing for frontend development and MySQL for backend database management, my aim is to create a modern and intuitive platform tailored to our institution's needs.

Key Frontend Functions:

1. ***Login Page:*** Implement a secure login page for staff members to access administrative functionalities.
2. ***Books Available:*** Provide a catalog of available books with search and filter options for patrons to browse and locate desired resources.
3. ***Staff Details:*** Display information about library staff members, facilitating communication and collaboration within the library team.
4. ***Add Books:*** Enable staff to easily add new books to the library inventory, ensuring accurate and up-to-date cataloging.
5. ***Remove Books:*** Allow authorized staff to remove books from the library inventory as needed, maintaining data integrity.
6. ***Add Staff:*** Provide functionality for administrators to add new staff members to the system, ensuring efficient management of personnel.
7. ***Remove Staff:*** Allow administrators to remove staff members from the system as necessary, ensuring accurate staff records.

Backend Infrastructure:

- ***Database:*** Utilize MySQL for backend database management, ensuring secure storage and retrieval of library data.

- ***Tables:***

1. Admin Table: Store administrative user credentials for secure login authentication and access control.
2. Books Table: Store information about library books, including titles, authors, genres, and availability status.
3. Staff Table: Maintain records of library staff members, including their names, roles, and contact information.

Technology Used :

- ***Frontend:*** java, java swing
- ***Database:*** MySQL

Next Steps:

I am keen to discuss this proposal further and address any questions or concerns you may have.

Thank you for considering this proposal. I am confident that our collaborative efforts can lead to the successful implementation of an innovative Library Management System that meets the needs of our institution.

Looking forward to your feedback and the opportunity to move this project forward.

Warm regards,

Farhana Akter Dina