Course Registration System

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Introduction

- A console-based application to manage course registrations.

- Built using Java and connected to a MySQL database.

- Offers full CRUD operations for students and courses.

- Ensures smooth enrollment and data integrity.

Proposed System

- Java console application with JDBC for MySQL connectivity.

- Users can add, update, view, and delete courses and students.

- Allows enrollment of students into courses with ID validation.

- Displays stored data interactively through console.

Objectives

- Provide a basic backend system for course registration.

- Implement core Java with JDBC for database operations.

- Validate IDs and entries for accurate data handling.

- Simplify course and student record management.

Application of the System

- College and university backend management.

- Training centers for course management.

- Ideal for console-based educational software.

- Base system to extend for GUI or web platforms.

Software and Hardware

- Software:

    - Java (Core Java)

    - MySQL Server and Workbench

    - JDBC Driver

- Hardware:

    - Computer with at least 4GB RAM

    - MySQL-supported environment

Conclusion

- The system handles course registration through a console interface.

- Demonstrates Java and SQL integration in real-world applications.

- Validates inputs, manages data, and provides real-time console interaction.

- Scope for GUI or web-based future enhancements.

Thank you!