



SCHOOL MANAGEMENT SYSTEM





AGENDA

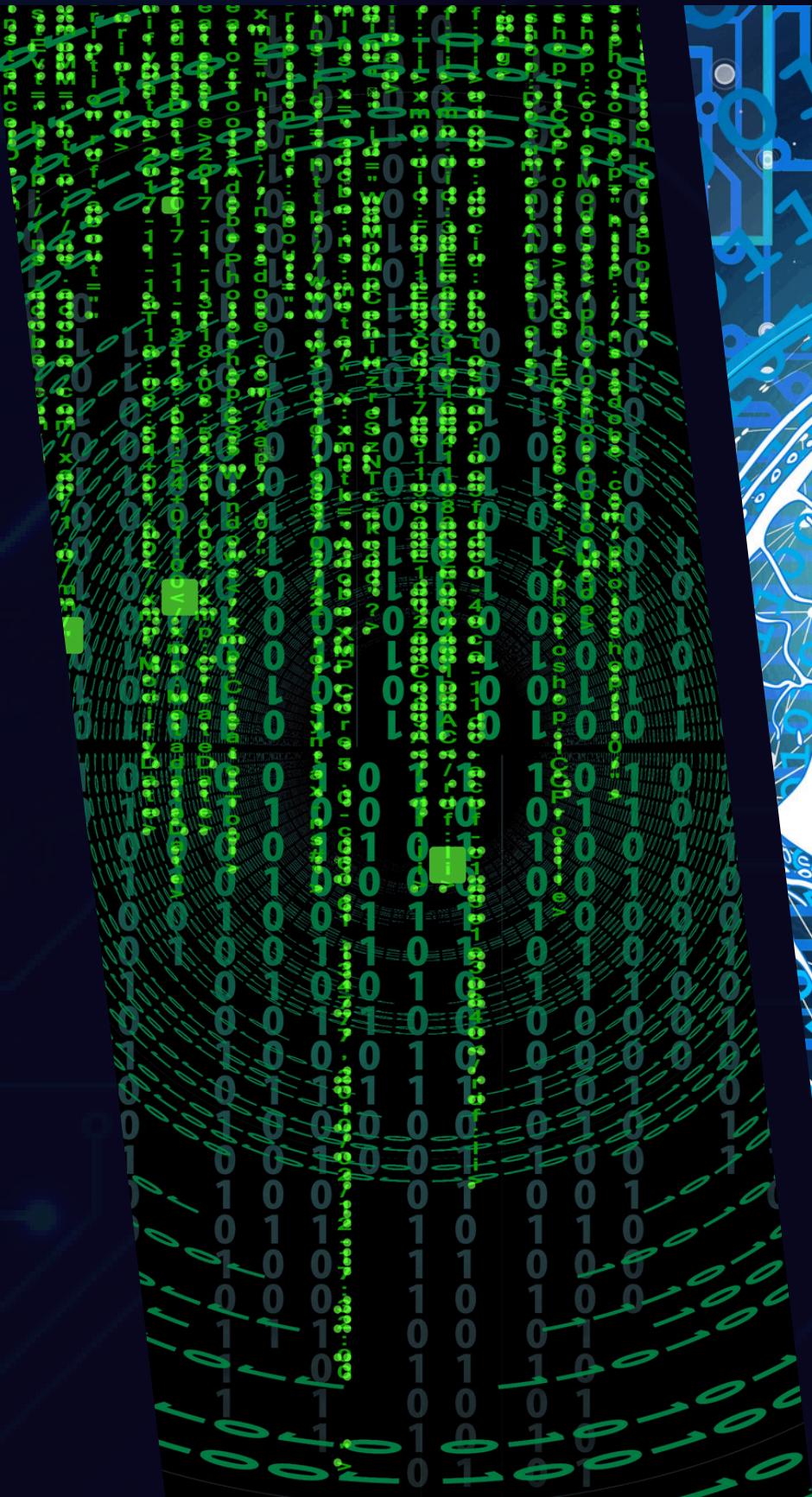
1. Introduction
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INTRODUCTION

★ **School Management System Overview**

★ **Definition:** A software application designed to manage school operations and administrative tasks.

★ **Purpose:** Streamline and automate school processes to enhance efficiency.





KEY FEATURES

- **Student Management:** Enrollment, attendance, grades, and personal information.
- **Staff Management:** Teacher profiles, schedules, payroll.
- **Course Management:** Course creation, scheduling, syllabus management.
- **Examination Management:** Exam scheduling, results processing, report generation
- **Library Management:** Book inventory, borrowing/returning, overdue notifications
- **Fee Management:** Billing, payment tracking, receipt generation.

TECHNOLOGY STACK

Technology Stack Used

Programming Language: Java

Database: MySQL / PostgreSQL

Frameworks: Spring Boot, Hibernate

User Interface: HTML, CSS, JavaScript (for web-based interface)

IDE:IntelliJ IDEA / Eclipse





SYSTEM ARCHITECTURE

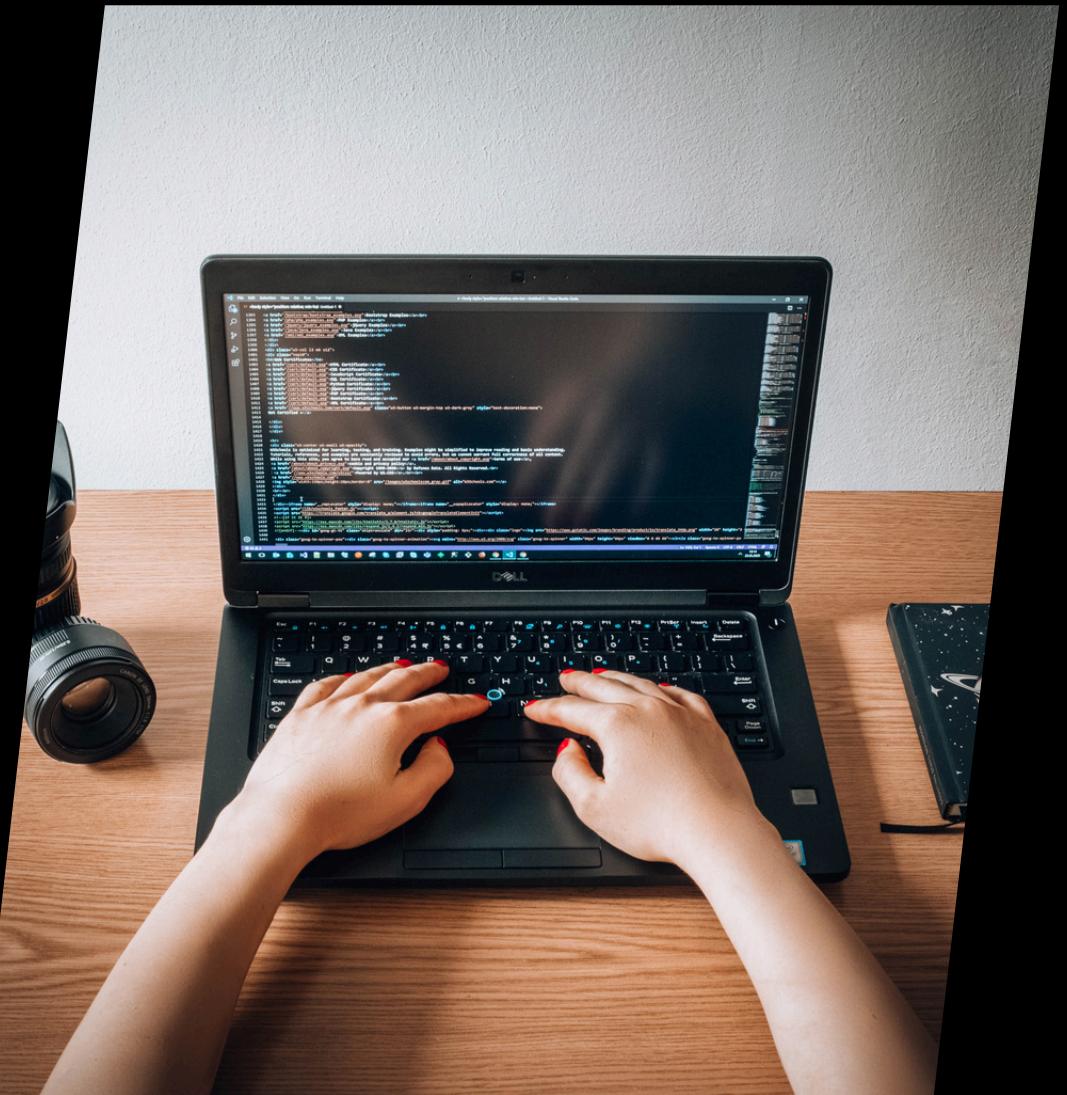
- ★ Client Layer: User interface components (web/mobile)
- ★ Service Layer: Business logic and application services
- ★ Data Access Layer: Database interaction using Hibernate/JPA
- ★ Database Layer: Storage of all school-related data



Core Components

☆☆Core Components and Modules☆☆

- **User Authentication:** Secure login and role-based access control
- **Dashboard:** Overview of key metrics and quick access to modules
- **Notification System:** Alerts and notifications for important events
- **Reports:** Customizable reports for various stakeholders





BENEFITS

BENEFITS OF THE SYSTEM

- Efficiency: Reduces administrative workload through automation.
- Accuracy: Minimizes errors in data entry and processing.
- Accessibility: Provides access to information anytime, anywhere.
- Scalability: Can grow with the institution's needs.



Conclusion

- Recap of the importance of a School Management System.
- Highlight how Java is a robust choice for developing such a system.
- Emphasize the transformative impact on educational institutions.