

# College Admission Management System

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- ❖ **Tools Used:** IntelliJ IDE
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## Introduction

The College Admission Management System is designed to automate and simplify the college admission process. It helps administrators manage student registrations, applications, merit-based seat allocation, and result exports efficiently. The project demonstrates a backend-driven admission management system using Java and MySQL.

## Abstract

The project automates the end-to-end admission process. Students can register with academic and entrance exam details, apply for courses, and view results based on merit. The system calculates a composite merit score based on predefined weights for board percentage and entrance marks. The application leverages JDBC for database connectivity and uses modular DAO classes for CRUD operations.

## Tools Used

- Programming Language: Java (JDK 17 or higher)
- Database: MySQL
- Libraries: JDBC, java.sql
- IDE: IntelliJ IDEA
- File Handling: CSV Export via Java I/O

## Steps Involved in Building the Project

1. Designed the database schema with tables: *students*, *courses*, and *applications*.
2. Implemented DAO classes for database operations using JDBC.
3. Built the AdmissionManager class to handle user input and core logic.
4. Calculated merit scores based on academic and entrance performance.
5. Automated seat allocation based on merit and cutoff.
6. Exported final admission results to CSV for reporting purposes.

## Conclusion

This project successfully implements an efficient admission system with automated merit calculation and allocation. It enhances understanding of database integration, object-oriented programming, and real-world application design. The system can be extended with a front-end interface or REST API for larger deployments.

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