

# College Admission Management System - Project Report

## Introduction

This project implements a College Admission Management System using Java, JDBC, MySQL, and Maven. The system helps manage student applications, course allocations, and merit-based admissions. It provides features for student registration, course application, merit-based admission decisions, and export of admission lists in CSV and PDF formats.

## Abstract

The purpose of this project is to automate the admission process in a college environment. Traditionally, admissions are handled manually, which is prone to errors and inefficiency. This system uses a relational database (MySQL) for data storage and Java (with JDBC) for application logic. It allows students to register and apply for courses, while the admin panel processes applications based on merit cut-offs. The system can generate admission lists in CSV and PDF format for official use.

## Tools Used

The following tools and technologies were used to build the project: **Java 17** – Core programming language **JDBC** – For database connectivity **MySQL** – Relational database to store students, courses, and applications **Maven** – Build and dependency management tool **iText** – Library for generating PDF admission lists **Eclipse IDE** – Development environment

## Steps Involved

The following steps were followed in the development of this project: **Database Design:** Created schema with three tables – Students, Courses, Applications. **Student Registration:** Implemented console forms to register new students with name, email, and marks. **Course Application:** Allowed students to apply for courses. **Merit Calculation:** Admin processes applications. Students meeting course cut-off marks are approved, others are rejected. **Export:** Admission lists can be exported as CSV files and PDF reports. **Console Admin Panel:** Built a menu-driven interface for admin operations.

## Conclusion

The College Admission Management System successfully demonstrates how Java, JDBC, and MySQL can be integrated to build real-world applications. It simplifies admission processing, improves efficiency, and reduces errors. This project can be extended further by adding GUI support, authentication for students/admins, and integration with web or mobile platforms.