JAVA-Student-Course-Registration-System

# Introduction:

In modern times, managing university courses and student registrations has become a significant challenge for universities. To alleviate this, a Java-based system has been developed to enable student and admin login for managing and registering university courses. The system provides a comprehensive solution for managing and registering courses, including student information and course details.

The system offers a wide range of features for both administrators and students. Administrators have access to course management, which includes creating, deleting, editing, and viewing course information. They can also register students for courses and authenticate themselves by logging in with their first name, last name, username, and password.

Students, on the other hand, can view a list of all available courses, register for courses, withdraw from courses, and view their registered courses. They can also view courses that are not yet full and courses that are currently full. Students can authenticate themselves by logging in with their first name, last name, username, and password.

All information regarding students and courses is stored in a serialized file, ensuring that information can be retrieved even after the program has been closed. The system also allows for the addition of course information to a file, retrieval of student names who are enrolled in a particular course, and all courses in which a specific student is enrolled. Additionally, the system sorts of courses based on the number of students enrolled in them in descending order.

This system aims to streamline the course registration process and improve the efficiency of managing course information. It provides a user-friendly interface for both administrators and students to perform their tasks efficiently. With this system, universities can concentrate on delivering quality education, and students can easily register for courses and manage their academic schedules.